BYG™

General Catalog

updates

Fasteners

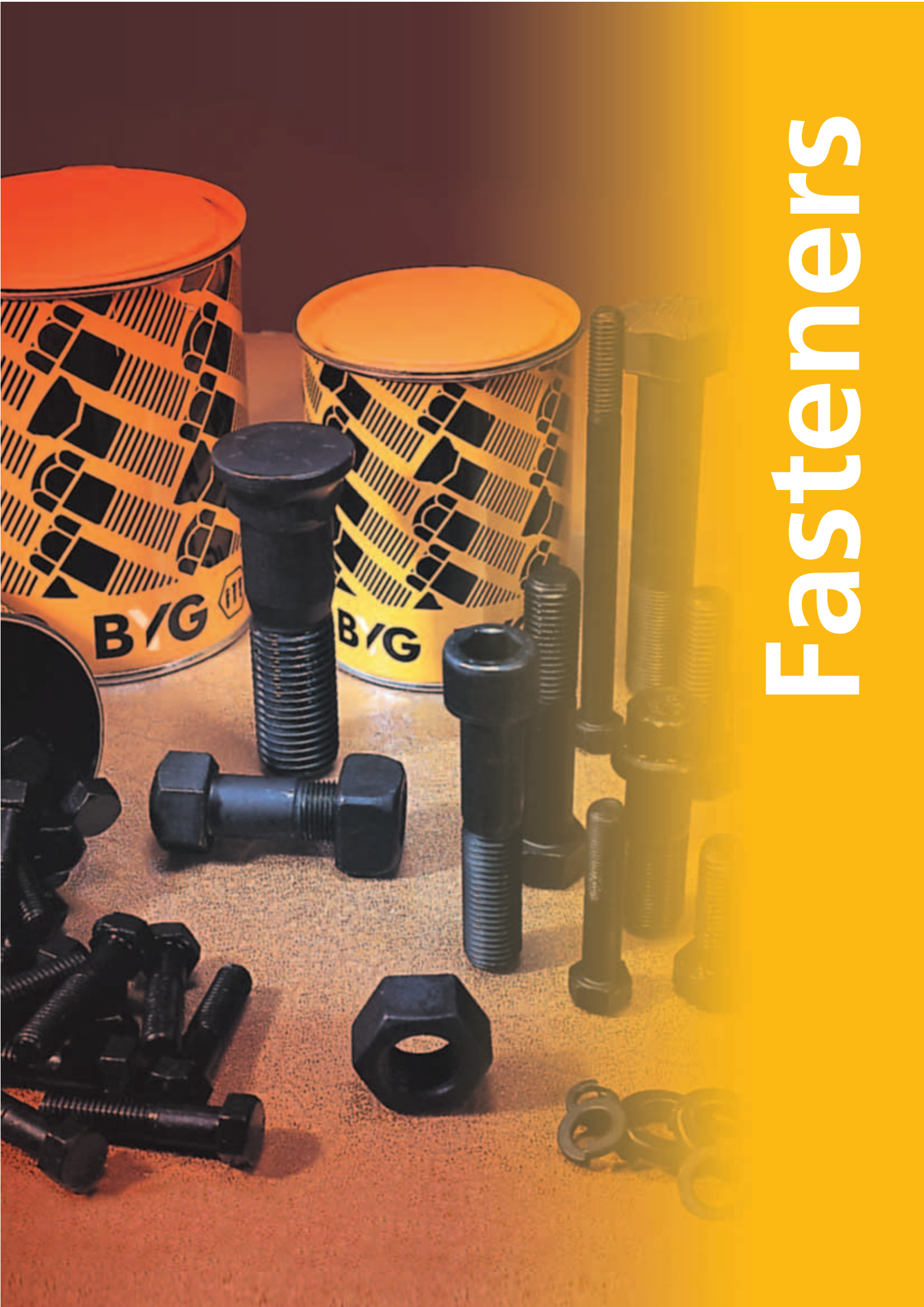
Wear Parts

Rippers

Cutting Edges

Cutting Tools

Fasteners



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Warranty

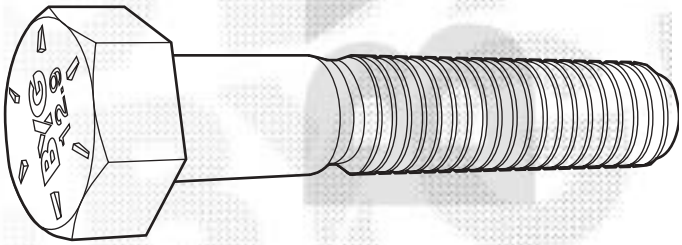
In the unlikely event of any of our products failing during normal operation, we will supply a new replacement free of charge.

All symbols, names and descriptions are only used for reference purposes and it is not implied that any listed parts is the product of these manufacturers.

Hexagonal Fasteners

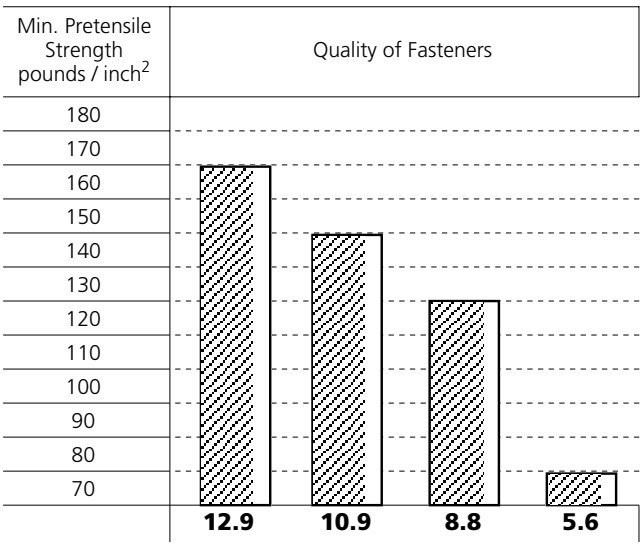
12.9 Quality

Pretensile Strength
170.000 P.S.I. (120 Kg/mm^2)
Elastic Load Limit
140.000 P.S.I. (100 Kg/mm^2)
Rockwell Hardness
C35-38



Hexagonal Fasteners

- Coarse Thread Bolts (U.S.S. COARSE UNC-2A)
- Fine Thread Bolts (S.A.E. FINE UNF-2A)
- Coarse Metric Thread Bolts Norms DIN 931 / 933
- Fine Metric Thread Bolts According to DIN 960 / 961
- Hexagonal Nuts
- Self-Locking Nuts
- Heavy Duty Flat Washers
- Heavy Duty Spring Washers



QUALITY 5.6		QUALITY 8.8		QUALITY 10.9		QUALITY 12.9	
ø mm.	Kg	ø mm.	Kg	ø mm.	Kg.	ø mm.	Kg
		4	0,560	**4**	0,790		
		5	0,910	**5**	1,280	**5**	1,530
6	0,600	**6**	1,290	**6**	1,810	**6**	2,170
8	1,090	**8**	2,340	**8**	3,300	**8**	3,950
10	1,740	**10**	3,710	**10**	5,200	**10**	6,250
12	2,530	**12**	5,400	**12**	7,500	**12**	9,100
14	3,450	**14**	7,350	**14**	10,350	**14**	12,400
16	4,710	**16**	10,000	**16**	14,130	**16**	16,900
18	5,760	**18**	12,300				
20	7,350						
24	10,590						

Characteristics of BYG Hexagonal Bolts

Higher Head

Heads 20% higher than American Standard B 18.2.1. Providing increased fatigue life and maximum holding force for the nut.

SAE Grade Brands

The radial marks indicate the grade of SAE strength for better identification. Six marks on the head guarantee the quality grade 12.9 / 35-38 Rockwell (113/124 Kg./mm^2)

Forged Head

Provides a correct flow of the steel fibre reducing the fatigue points ensuring major resistance to bumps and an even distribution of the weight. The edges do not round off and the bolts can be reused. The washer sits perfectly below the head.

Laminated Thread

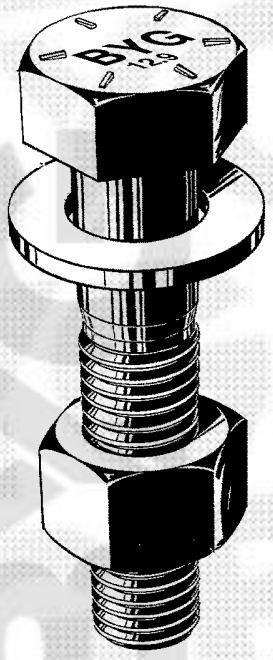
Laminated with the maximum precision they provide a better hold eliminating the risk of breaking.

Fine Grade Steel

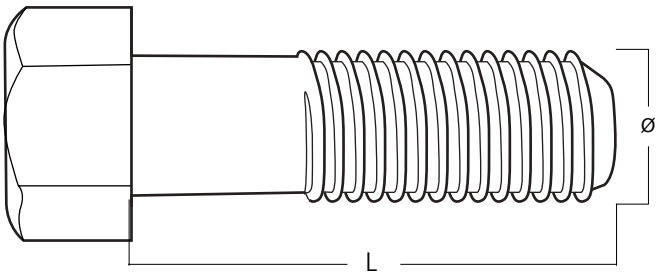
Provides a more even microstructure improving its resistance with a lower percentage of breakage.

Complete Fastening System

For better assurance and to get the maximum resistance and duration use BYG HD nuts and washers in combination with BYG fasteners.



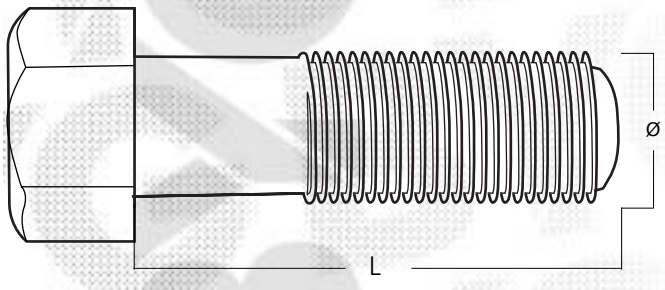
Hexagonal Bolts: Coarse UNC Thread



L	ø 1/4"	ø 5/16"	ø 3/8"	ø 7/16"	ø 1/2"	ø 9/16"	ø 5/8"	ø 3/4"	ø 7/8"	ø 1"	ø 1-1/8"	ø 1-1/4"	ø 1-1/2"	L mm
	20 Thread"	18 Thread"	16 Thread"	14 Thread"	13 Thread"	12 Thread"	11 Thread"	10 Thread"	9 Thread"	8 Thread"	7 Thread"		6 Thread"	
3/8"	*S-1613*													10
1/2"	**S-1614**	*S-0569*	*S-4879*		*S-6705*									13
5/8"	**S-0762**	**S-3755**	**S-0102**											16
3/4"	**S-1615**	**S-1617**	**S-0509**	*S-0060*	**S-1620**		*S-9456*							19
7/8"	**S-7957**	**S-2695**	**S-1351**	**S-0526**	*S-3855*									22
1"	**S-1616**	**S-1618B**	**S-1594**	**S-0318**	**S-1621**	**S-3379**	*S-1624*	*S-2069*						25
1-1/8"	**S-6580**	**S-3388**	**S-2029**	*S-8965*	*S-1717*		*S-9372*							29
1-1/4"	**S-2742**	**S-7182**	**S-1588**	*S-0320*	**S-1595B**	*S-4732*	**S-1592**	**S-1583**		*S-4767*				32
1-3/8"	*S-5546*	**S-2790**	**S-1915**	**S-5368**	**S-3235**	*S-8519*	*S-4043*							35
1-1/2"	**S-7022**	**S-9579**	**S-1591**	*S-0772*	**S-1585**	**S-4733**	**S-1566**	**S-1626**	*S-0690*	**S-0450**				38
1-5/8"	*S-8167*	**S-5514**	*S-4639*											41
1-3/4"	**S-2713**	**S-9575**	**S-1571**	**S-0768**	**S-1587**		**S-1589**	**S-0458**	**S-3757**	*S-7370*				44
1-7/8"			*S-2251*											48
2"	**S-2377**	**S-2694**	**S-1590B**	**S-0319**	**S-1460**	**S-4734**	**S-1135**	**S-1178**	**S-1973**	**S-5257**	**S-8281**			51
2-1/4"	*S-4533*	*S-4538*	*S-2070*	*S-4707*	**S-0947**		**S-9092**	**S-1538**	**S-9522**	*S-9093*				57
2-1/2"	**S-2714**	**S-4539**	**S-1143**	**S-4703**	**S-1366**	**S-4735**	**S-1625**	**S-8063**	**S-4625**	**S-4635**	*S-7222*	**S-6353**		64
2-3/4"	*S-4781*	*S-4540*	*S-0573*	*S-4556*	**S-5822**		**S-8537**	**S-4608**	**S-4626**	*S-1363*	**S-2037**			70
3"	**S-9365**	**S-4541**	**S-1619**	**S-5192**	**S-1329**	**S-4736B**	**S-4367**	**S-4609**	**S-4627**	**S-4709**	*S-2814B*	**S-2299**		76
3-1/4"	*S-8178*	*S-5842*	**S-1352**	**S-8428**	**S-0375**		**S-4585**	**S-4610**	*S-4628*	**S-4637**		*S-5484*	**S-1805**	83
3-1/2"	*S-8695*	**S-4111**	*S-0065*	*S-8698*	**S-4566**	**S-4737**	**S-4586**	**S-2968**	**S-4629**	**S-4638**	**S-2175**	**S-1955**		89
3-3/4"	*S-6302*	*S-0831*	*S-1608*	*S-2491*	**S-2886**		**S-1169**	**S-5227**	**S-3856**	**S-5772**				95
4"	*S-4710*	**S-3903**	**S-9191**	**S-7226**	**S-1573**	**S-4738**	**S-1569**	**S-4612**	**S-4630**	**S-4639B**	*S-1614B*	**S-3758**		102
4-1/4"		*S-8769*	**S-0055**	*S-5907*	**S-4569**		**S-4588**	*S-1756*	*S-4631*	**S-4640**	**S-1572**	*S-6560*		108
4-1/2"	*S-4711*	*S-5932*	*S-5964*	**S-7220**	**S-9089**	**S-4739**	**S-8651**	**S-1627**	**S-5576**		*S-0544*	**S-2300**		114
4-3/4"	*S-3776*	*S-3243*	*S-5183*	*S-3472*	**S-2006**		**S-4590**	**S-6753**	*S-8622*	*S-1420*		*S-1156*		121
5"	*S-2716*	*S-6296*	**S-9603**	**S-5059**	**S-6488**	**S-4740**	**S-5405**	**S-4614**	**S-1351B**	**S-4642**		**S-1618**	**S-9414**	127
5-1/4"			*S-2638*		**S-5282**		*S-3224*	*S-8199*			**S-1551**			133
5-1/2"	*S-2717*	*S-1761*	**S-4899**	*S-4197*	**S-4572**	*S-4741*	**S-4593**	**S-4615**	**S-4634**	**S-4643**		**S-2721**		140
5-3/4"		*S-1865*	*S-3425*		**S-8804**			**S-1330**						146
6"	*S-2718*	*S-0059*	**S-4706**	**S-6419**	**S-4574**	**S-4742**	**S-4595**	**S-4616**	**S-1322**	**S-6936**	**S-5727**	**S-1537**		152
6-1/4"			*S-8544*		*S-8260*		**S-9514**	*S-4617*						158
6-1/2"	*S-1761B*	*S-3508*	*S-0411*	*S-0742*	**S-1531**		**S-4597**	**S-1015**	**S-1536**	**S-5473**	**S-4486**	**S-1628**		165
7"			*S-8999*	*S-7209*	**S-7669**		**S-4599**	**S-4620**	**S-5976**	**S-9338**		**S-6061**		178
7-1/2"			*S-1557*	*S-7442*	**S-0168**		**S-4600**	**S-4621**	**S-9422**	**S-7218**				191
8"			*S-6350*	*S-7925*	**S-1374**	*S-9129*	**S-7709**	**S-4622**	**S-6259**	**S-4644**		*S-9025*		203
8-1/2"			*S-2773*		**S-3573**		**S-4601**	**S-4623**	**S-7127**	**S-4645**		**S-6775**		216
9"			*S-6044*	*S-7926*	**S-9613**		**S-3756**	**S-4624**	*S-8739*	**S-4646**		*S-9418*		229
9-1/2"			*S-3283*				**S-4602**	**S-1702**	*S-6260*	**S-4647**		**S-9420**		241
10"					*S-5281*			**S-4225**	**S-2391**	**S-8348**				254
10-1/2"					*S-0139B*					**S-6453**		*S-0388*		267
11"			*S-1415*	*S-4317*	*S-3887*				**S-3112**	*S-5130*		**S-9415**		279
11-1/2"					*S-5421*		*S-4624B*	*S-7945*		*S-4363*				292
12"			*S-1202*							**S-4010**				305
12-1/2"									*S-8317*					318
13"					*S-6212*			*S-9099*		*S-4081*		**S-4378**		330
14"					*S-7900*				**S-0581B**	**S-2001**		*S-1734*		356
15"									*S-3183*	*S-4011*		**S-0213**		381
16"									**S-6552**	**S-1029**				406

Most common reference numbers appear in **Bold**

Hexagonal Bolts: Fine UNF Thread



L	ø 1/4"	ø 5/16"	ø 3/8"	ø 7/16"	ø 1/2"	ø 9/16"	ø 5/8"	ø 3/4"	ø 7/8"	ø 1"	ø 1-1/8"	ø 1-1/4"	ø 1-1/2"	L
	28 Thread"	24 Thread"		20 Thread"		18 Thread"		16 Thread"	14 Thread"		12 Thread"			mm.
1/2"	**S-7027**	*S-2093*	**S-1138**											13
5/8"	*S-1570*	**S-3737**	**S-0642**											16
3/4"	**S-0284**	*S-2343*	**S-0472**		*S-7032*									19
7/8"	*S-1340*	**S-9883**	*S-0703*		*S-0598*									22
1"	**S-1597**	**S-3738**	**S-7030**	**S-0840**	**S-1629**		*S-7316*							25
1-1/8"	*S-1590*	*S-0187*	**S-2208B**											29
1-1/4"	**S-2152**	**S-1293**	**S-2209**	*S-0244*	**S-1593**	*S-4743*	*S-4273*	*S-3740*						32
1-3/8"		*S-1371*	*S-4996*		**S-7502**	*S-4761*	*S-4033*							35
1-1/2"	**S-4475**	**S-0581**	**S-0924B**	**S-4723**	**S-1603**	**S-4744**	**S-1701**	**S-3725**	*S-4754*	*S-4755*				38
1-3/4"	**S-7563**	**S-3708**	**S-0478**	**S-4350**	*S-1584*	*S-4762*	**S-0841**	**S-0075**	*S-7496*	*S-4756*				44
2"	**S-8701**	**S-5403**	**S-1748**	**S-0489**	**S-1579**	**S-4745**	*S-1576*	**S-1362**	**S-3854**	**S-3743**				51
2-1/4"	*S-8593*	*S-3739*	*S-0639*	*S-4724*	**S-0484**	*S-4763*	**S-1577**	*S-1897*	*S-7035*	*S-3744*	**S-2208**	*S-2289*		57
2-1/2"	**S-9919**	**S-4717**	**S-1648**	**S-0572**	**S-1604**	**S-4746**	*S-1600*	**S-0856**	**S-5873**	**S-9385**	*S-3751*			64
2-3/4"		*S-1028*	*S-0139*	*S-4725*	*S-1599*	*S-4764*	**S-1601**	*S-3152*	*S-1596*	*S-3745*				70
3"	**S-4712**	**S-4718**	**S-7031**	**S-4726**	**S-1732**	**S-0753**	*S-5144*	**S-1575**	**S-7036**	**S-9194**		**S-6112**		76
3-1/4"		*S-0938*	*S-1605*	**S-4085**	*S-1558*		**S-2318**	**S-5310**	*S-3741*	*S-7037*	**S-0477**			83
3-1/2"	*S-4713*	**S-4719**		*S-6298*	**S-2315**	**S-4747**	*S-1602*	**S-1364**	*S-0224*	**S-1368**		**S-0439**		89
3-3/4"			*S-3680*	*S-4727*	*S-1952*	*S-1216*	**S-2353**	*S-3103*	**S-2090**	**S-1367**			**S-2921**	95
4"	*S-4714*	*S-4720*	**S-0513**	**S-4728**	**S-1559**	**S-4748**	*S-0459*	**S-1328**	*S-0603*	**S-7464**	**S-3895**	*S-2663*	*S-5535*	102
4-1/4"			*S-5082*		*S-7033*		*S-0523*	**S-3419**	*S-3848*					108
4-1/2"	*S-4715*	*S-4721*	*S-8425*	*S-4729*	**S-3046**	**S-4749**	**S-0857**		**S-8340**	**S-0269**	**S-4040**		**S-6762**	114
4-3/4"					*S-0557*		**S-3203**	*S-5163*		*S-7181*		**S-8791**		121
5"	*S-4716*	*S-4722*	**S-2116**	**S-4730**	**S-1422**	**S-4750**	**S-7024**	**S-1607**	**S-6089**	**S-3746**	**S-9215**		*S-9402*	127
5-1/2"			*S-6579*		**S-1097**	*S-4751*	**S-2814**	**S-6123**	**S-1606**	**S-6124**	**S-5219**	**S-2555**		140
5-3/4"		*S-5229*			*S-9979*		*S-7538*							146
6"			*S-4736*	*S-4731*	**S-1595**	*S-4752*	**S-6030**	**S-4436**	**S-6100**	**S-6645**	**S-3424**	*S-1649*	**S-9891**	152
6-1/2"					*S-3747*			*S-7901*	*S-4991*	*S-4283*	*S-5752*	**S-6511**		165
7"					*S-1930*		**S-3623**	**S-3749**	**S-6426**	**S-6932**	**S-8930**		**S-1692**	178
7-1/2"					*S-3748*		*S-5569*	*S-3750*	*S-1747*	*S-0637*	**S-3742**	*S-9464*		191
8"			*S-5883*		**S-3967**		*S-4753*	**S-0925**	**S-0479**	*S-4757*	*S-3647*	**S-0924**	**S-7687**	203
8-1/2"							*S-1873*	*S-4766*		**S-5981**		*S-9339*		216
9"				*S-4523*				*S-1926*	*S-1091*	*S-8122*	**S-3530**		**S-3492**	229
9-1/2"								*S-7943*		*S-7136*		*S-7079*		241
10"								*S-2813*		**S-8586**		**S-8009**	*S-9384*	254
11"							**S-7144**	*S-8288*	*S-4978*					279
11-1/2"								*S-9845*	**S-7572**			**S-4438**	*S-2812*	292
12"							**S-0953**					*S-3579*		305
13"												**S-2400**	**S-0436**	330

Most common reference numbers appear in **Bold**

Hexagonal Bolts: Cross Reference Caterpillar / BYG

CAT	BYG
0L-0139	**S-0139**
0L-0472	**S-0472**
0L-0478	**S-0478**
0L-0557	**S-0557**
0L-0639	**S-0639**
0L-1138	**S-1138**
0L-1143	**S-1143**
0L-1169	**S-1169**
0L-1178	**S-1178**
0L-1328	**S-1328**
0L-1329	**S-1329**
0L-1340	**S-1340**
0L-1351	**S-1351**
0L-1352	**S-1352**
0L-1558	**S-1558**
0L-1590	**S-1590**
0L-1648	**S-1648**
0L-1732	**S-1732**
0L-2070	**S-2070**
0L-2090	**S-2090**
0L-2315	**S-2315**
0S-0484	**S-0484**
0S-0509	**S-0509**
0S-1559	**S-1559**
0S-1566	**S-1566**
0S-1569	**S-1569**
0S-1570	**S-1570**
0S-1571	**S-1571**
0S-1573	**S-1573**
0S-1575	**S-1575**
0S-1576	**S-1576**
0S-1577	**S-1577**
0S-1579	**S-1579**
0S-1583	**S-1583**
0S-1584	**S-1584**
0S-1585	**S-1585**
0S-1587	**S-1587**
0S-1588	**S-1588**
0S-1589	**S-1589**
0S-1590	**S-1590B**
0S-1591	**S-1591**
0S-1592	**S-1592**
0S-1593	**S-1593**
0S-1594	**S-1594**
0S-1595	**S-1595B**
0S-1596	**S-1596**
0S-1597	**S-1597**
0S-1599	**S-1599**

CAT	BYG
0S-1600	**S-1600**
0S-1601	**S-1601**
0S-1602	**S-1602**
0S-1603	**S-1603**
0S-1604	**S-1604**
0S-1605	**S-1605**
0S-1606	**S-1606**
0S-1607	**S-1607**
0S-1608	**S-1608**
0S-1614	**S-1614**
0S-1615	**S-1615**
0S-1616	**S-1616**
0S-1617	**S-1617**
0S-1618	**S-1618B**
0S-1619	**S-1619**
0S-1620	**S-1620**
0S-1621	**S-1621**
0S-1624	**S-1624**
0S-1625	**S-1625**
0S-1626	**S-1626**
0S-1627	**S-1627**
0S-1629	**S-1629**
0S-1748	**S-1748**
0S-1756	**S-1756**
0S-1897	**S-1897**
0S-1973	**S-1973**
0S-2318	**S-2318**
0S-2353	**S-2353**
0T-0055	**S-0055**
0T-0065	**S-0065**
0T-0102	**S-0102**
0T-0244	**S-0244**
0T-0284	**S-0284**
0T-0318	**S-0318**
0T-0319	**S-0319**
0T-0320	**S-0320**
0T-0489	**S-0489**
0T-0513	**S-0513**
0T-0573	**S-0573**
0T-0598	**S-0598**
0T-0603	**S-0603**
0T-0642	**S-0642**
0T-0690	**S-0690**
0T-0703	**S-0703**
0T-0768	**S-0768**
0T-0772	**S-0772**
0T-0840	**S-0840**
0T-0856	**S-0856**

CAT	BYG
0T-0857	**S-0857**
0T-0924	**S-0924B**
0V-0269	**S-0269**
0V-0375	**S-0375**
0V-0450	**S-0450**
0V-0459	**S-0459**
0V-0523	**S-0523**
1A-0075	**S-0075**
1A-0168	**S-0168**
1A-0224	**S-0224**
1A-0458	**S-0458**
1A-1135	**S-1135**
1A-1460	**S-1460**
1A-1952	**S-1952**
1A-2029	**S-2029**
1A-2116	**S-2116**
1A-2208	**S-2208**
1A-2209	**S-2209**
1A-2343	**S-2343**
1A-3046	**S-3046**
1A-3103	**S-3103**
1A-3203	**S-3203**
1A-3967	**S-3967**
1A-4273	**S-4273**
1A-4350	**S-4350**
1A-5183	**S-5183**
1A-5405	**S-5405**
1A-5576	**S-5576**
1A-5822	**S-5822**
1A-5964	**S-5964**
1A-7669	**S-7669**
1A-8063	**S-8063**
1A-8537	**S-8537**
1A-8651	**S-8651**
1A-9579	**S-9579**
1A-9919	**S-9919**
1B-0572	**S-0572**
1B-0581	**S-0581**
1B-1293	**S-1293**
1B-1422	**S-1422**
1B-2713	**S-2713**
1B-2714	**S-2714**
1B-2716	**S-2716**
1B-2717	**S-2717**
1B-2718	**S-2718**
1B-2721	**S-2721**
1B-2790	**S-2790**
1B-2886	**S-2886**

CAT	BYG
1B-3573	**S-3573**
1B-3623	**S-3623**
1B-3680	**S-3680**
1B-4367	**S-4367**
1B-5082	**S-5082**
1B-7182	**S-7182**
1B-7709	**S-7709**
1B-9575	**S-9575**
1C-0569	**S-0569**
1D-3419	**S-3419**
1D-3848	**S-3848**
1D-4533	**S-4533**
1D-4538	**S-4538**
1D-4539	**S-4539**
1D-4540	**S-4540**
1D-4541	**S-4541**
1D-4556	**S-4556**
1D-4566	**S-4566**
1D-4569	**S-4569**
1D-4572	**S-4572**
1D-4574	**S-4574**
1D-4585	**S-4585**
1D-4586	**S-4586**
1D-4588	**S-4588**
1D-4590	**S-4590**
1D-4593	**S-4593**
1D-4595	**S-4595**
1D-4597	**S-4597**
1D-4599	**S-4599**
1D-4600	**S-4600**
1D-4601	**S-4601**
1D-4602	**S-4602**
1D-4608	**S-4608**
1D-4609	**S-4609**
1D-4610	**S-4610**
1D-4612	**S-4612**
1D-4614	**S-4614**
1D-4615	**S-4615**
1D-4616	**S-4616**
1D-4617	**S-4617**
1D-4620	**S-4620**
1D-4621	**S-4621**
1D-4622	**S-4622**
1D-4623	**S-4623**
1D-4624	**S-4624**
1D-4625	**S-4625**
1D-4626	**S-4626**
1D-4627	**S-4627**

CAT	BYG
1D-4628	**S-4628**
1D-4629	**S-4629**
1D-4630	**S-4630**
1D-4631	**S-4631**
1D-4634	**S-4634**
1D-4635	**S-4635**
1D-4637	**S-4637**
1D-4638	**S-4638**
1D-4639	**S-4639B**
1D-4640	**S-4640**
1D-4642	**S-4642**
1D-4643	**S-4643**
1D-4644	**S-4644**
1D-4645	**S-4645**
1D-4646	**S-4646**
1D-4647	**S-4647**
1D-4703	**S-4703**
1D-4706	**S-4706**
1D-4707	**S-4707**
1D-4709	**S-4709**
1D-5873	**S-5873**
1D-5976	**S-5976**
1D-6089	**S-6089**
1D-6259	**S-6259**
1D-6260	**S-6260**
1F-4111	**S-4111**
1F-5842	**S-5842**
1F-6296	**S-6296**
1F-7464	**S-7464**
1H-5403	**S-5403**
1H-5514	**S-5514**
1J-2175	**S-2175**
1J-2814	**S-2814B**
1J-5257	**S-5257**
1J-5484	**S-5484**
1J-6298	**S-6298**
1J-6775	**S-6775**
1J-7370	**S-7370**
1K-4378	**S-4378**
1K-9415	**S-9415**
1K-9418	**S-9418**
1K-9420	**S-9420**
1K-9422	**S-9422**
1L-8586	**S-8586**
1S-3647	**S-3647**
1S-6560	**S-6560**
2A-0762	**S-0762**
2A-1371	**S-1371**

CAT	BYG
2A-1420	**S-1420**
2A-1531	**S-1531**
2A-1538	**S-1538**
2A-2814	**S-2814**
2A-4639	**S-4639**
2A-4781	**S-4781**
2A-4996	**S-4996**
2A-5546	**S-5546**
2B-0947	**S-0947**
2B-1015	**S-1015**
2B-1955	**S-1955**
2B-2006	**S-2006**
2B-2391	**S-2391**
2B-2694	**S-2694**
2B-2695	**S-2695**
2B-6030	**S-6030**
2B-7218	**S-7218**
2B-8593	**S-8593**
2D-3424	**S-3424**
2D-7563	**S-7563**
2D-8930	**S-8930**
2F-2093	**S-2093**
2H-0637	**S-0637**
2H-1537	**S-1537**
2H-1618	**S-1618**
2H-3708	**S-3708**
2H-3725	**S-3725**
2H-3737	**S-3737**
2H-3738	**S-3738**
2H-3739	**S-3739**
2H-3740	**S-3740**
2H-3741	**S-3741**
2H-3743	**S-3743**
2H-3744	**S-3744**
2H-3745	**S-3745**
2H-3746	**S-3746**
2H-3747	**S-3747**
2H-3748	**S-3748**
2H-3749	**S-3749**
2H-3750	**S-3750**
2H-3751	**S-3751**
2H-3755	**S-3755**
2H-3756	**S-3756**
2H-3757	**S-3757**
2H-3758	**S-3758**
2H-3854	**S-3854**
2H-3855	**S-3855**
2H-3856	**S-3856**

Most common reference numbers appear in **Bold**

Hexagonal Bolts: Cross Reference Caterpillar / BYG

CAT	BYG
2H-4010	**S-4010**
2H-4011	**S-4011**
2H-6488	**S-6488**
2J-2555	**S-2555**
2J-5907	**S-5907**
2J-8348	**S-8348**
2K-0439	**S-0439**
2K-1747	**S-1747**
2K-2037	**S-2037**
2K-2813	**S-2813**
2L-1091	**S-1091**
2L-1701	**S-1701**
2L-4523	**S-4523**
2L-7442	**S-7442**
2M-3530	**S-3530**
2P-9845	**S-9845**
2S-1216	**S-1216**
310213	**S-0213**
319099	**S-9099**
3B-1915	**S-1915**
3B-2968	**S-2968**
3B-4978	**S-4978**
3B-5752	**S-5752**
3B-6753	**S-6753**
3B-8428	**S-8428**
3B-8695	**S-8695**
3F-6353	**S-6353**
3F-6645	**S-6645**
3F-9025	**S-9025**
3H-1097	**S-1097**
3H-1930	**S-1930**
3H-3243	**S-3243**
3H-5368	**S-5368**
3H-5932	**S-5932**
3J-5981	**S-5981**
3J-8281	**S-8281**
3K-0581	**S-0581B**
3K-3112	**S-3112**
3K-3183	**S-3183**
3K-3379	**S-3379**
3K-6552	**S-6552**
3K-7127	**S-7127**
3L-0526	**S-0526**
3L-0742	**S-0742**
3L-4317	**S-4317**
3N-1614	**S-1614B**
3R-2299	**S-2299**
3R-2300	**S-2300**
3S-7079	**S-7079**

CAT	BYG
4B-0831	**S-0831**
4B-1028	**S-1028**
4B-2152	**S-2152**
4B-3388	**S-3388**
4B-3903	**S-3903**
4B-4043	**S-4043**
4B-5219	**S-5219**
4B-7220	**S-7220**
4B-7572	**S-7572**
4B-8519	**S-8519**
4B-8701	**S-8701**
4B-9365	**S-9365**
4B-9883	**S-9883**
4D-8317	**S-8317**
4F-0411	**S-0411**
4F-0925	**S-0925**
4F-3508	**S-3508**
4F-4879	**S-4879**
4F-5192	**S-5192**
4F-6426	**S-6426**
4F-7226	**S-7226**
4F-7957	**S-7957**
4F-8965	**S-8965**
4H-2400	**S-2400**
4H-3283	**S-3283**
4H-4033	**S-4033**
4H-5883	**S-5883**
4H-6511	**S-6511**
4H-8009	**S-8009**
4H-8340	**S-8340**
4J-0924	**S-0924**
4J-7945	**S-7945**
4J-8622	**S-8622**
4K-7502	**S-7502**
4L-3776	**S-3776**
4L-7925	**S-7925**
4L-7926	**S-7926**
4N-1761	**S-1761B**
5B-0841	**S-0841**
5B-2208	**S-2208B**
5B-2638	**S-2638**
5B-5059	**S-5059**
5B-5473	**S-5473**
5B-6579	**S-6579**
5B-9385	**S-9385**
5B-9603	**S-9603**
5D-4085	**S-4085**
5F-4475	**S-4475**
5F-4899	**S-4899**

CAT	BYG
5F-6044	**S-6044**
5F-6932	**S-6932**
5F-7136	**S-7136**
5F-9338	**S-9338**
5F-9339	**S-9339**
5H-1649	**S-1649**
5J-1572	**S-1572**
5J-1702	**S-1702**
5K-7144	**S-7144**
5L-1761	**S-1761**
5M-0544	**S-0544**
5M-7900	**S-7900**
5P-0059	**S-0059**
5P-0060	**S-0060**
5P-1415	**S-1415**
5P-2663	**S-2663**
5P-4624	**S-4624B**
5P-5421	**S-5421**
5P-8288	**S-8288**
5P-9384	**S-9384**
5P-9402	**S-9402**
6B-0388	**S-0388**
6B-1557	**S-1557**
6B-5310	**S-5310**
6B-9194	**S-9194**
6F-4438	**S-4438**
6F-4736	**S-4736**
6F-4991	**S-4991**
6F-5281	**S-5281**
6F-5282	**S-5282**
6F-7024	**S-7024**
6F-7027	**S-7027**
6F-7030	**S-7030**
6F-7031	**S-7031**
6F-7032	**S-7032**
6F-7033	**S-7033**
6F-7035	**S-7035**
6F-7036	**S-7036**
6F-7037	**S-7037**
6F-7316	**S-7316**
6F-7901	**S-7901**
6F-8425	**S-8425**
6H-0187	**S-0187**
6H-1628	**S-1628**
6H-1717	**S-1717**
6J-1536	**S-1536**
6J-1551	**S-1551**
6J-4081	**S-4081**
6K-0953	**S-0953**

CAT	BYG
6K-1330	**S-1330**
6K-8739	**S-8739**
6M-1029	**S-1029**
6M-2001	**S-2001**
6M-9613	**S-9613**
6S-0753	**S-0753**
6V-1734	**S-1734**
6V-1873	**S-1873**
6V-8199	**S-8199**
7B-2289	**S-2289**
7B-2742	**S-2742**
7B-3235	**S-3235**
7B-4436	**S-4436**
7B-5163	**S-5163**
7B-7181	**S-7181**
7B-8167	**S-8167**
7B-8791	**S-8791**
7B-9215	**S-9215**
7F-0479	**S-0479**
7F-0938	**S-0938**
7F-1926	**S-1926**
7F-3425	**S-3425**
7F-4283	**S-4283**
7F-5227	**S-5227**
7F-6100	**S-6100**
7F-6112	**S-6112**
7F-8698	**S-8698**
7F-9464	**S-9464**
7H-2069	**S-2069**
7H-3472	**S-3472**
7H-3579	**S-3579**
7H-5569	**S-5569**
7H-7209	**S-7209**
7J-7222	**S-7222**
7K-4363	**S-4363**
7M-1202	**S-1202**
7S-3224	**S-3224**
7S-9372	**S-9372**
8B-0477	**S-0477**
8B-2377	**S-2377**
8B-5144	**S-5144**
8B-7943	**S-7943**
8F-1156	**S-1156**
8F-3152	**S-3152**
8F-3895	**S-3895**
8F-4197	**S-4197**
8F-4225	**S-4225**
8F-4486	**S-4486**
8F-6123	**S-6123**

CAT	BYG
8F-6124	**S-6124**
8F-6302	**S-6302**
8F-6350	**S-6350**
8F-6419	**S-6419**
8F-6453	**S-6453**
8F-7496	**S-7496**
8F-8178	**S-8178**
8F-8804	**S-8804**
8H-4040	**S-4040**
8H-5727	**S-5727**
8H-5772	**S-5772**
8H-8769	**S-8769**
8K-5130	**S-5130**
8M-0139	**S-0139B**
8M-1865	**S-1865**
8S-3887	**S-3887**
8S-4710	**S-4710**
8S-4711	**S-4711**
8S-4712	**S-4712**
8S-4713	**S-4713**
8S-4714	**S-4714**
8S-4715	**S-4715**
8S-4716	**S-4716**
8S-4717	**S-4717**
8S-4718	**S-4718**
8S-4719	**S-4719**
8S-4720	**S-4720**
8S-4721	**S-4721**
8S-4722	**S-4722**
8S-4723	**S-4723**
8S-4724	**S-4724**
8S-4725	**S-4725**
8S-4726	**S-4726**
8S-4727	**S-4727**
8S-4728	**S-4728**
8S-4729	**S-4729**
8S-4730	**S-4730**
8S-4731	**S-4731**
8S-4732	**S-4732**
8S-4733	**S-4733**
8S-4734	**S-4734**
8S-4735	**S-4735**
8S-4736	**S-4736B**
8S-4737	**S-4737**
8S-4738	**S-4738**
8S-4739	**S-4739**
8S-4740	**S-4740**
8S-4741	**S-4741**
8S-4742	**S-4742**

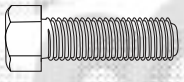
CAT	BYG
8S-4743	**S-4743**
8S-4744	**S-4744**
8S-4745	**S-4745**
8S-4746	**S-4746**
8S-4747	**S-4747**
8S-4748	**S-4748**
8S-4749	**S-4749**
8S-4750	**S-4750**
8S-4751	**S-4751**
8S-4752	**S-4752**
8S-4753	**S-4753**
8S-4754	**S-4754**
8S-4755	**S-4755**
8S-4756	**S-4756**
8S-4757	**S-4757**
8S-4761	**S-4761**
8S-4762	**S-4762**
8S-4763	**S-4763**
8S-4764	**S-4764**
8S-4766	**S-4766**
8S-4767	**S-4767**
8S-6212	**S-6212**
8S-9089	**S-9089**
8S-9092	**S-9092**
8S-9093	**S-9093**
8S-9191	**S-9191**
9F-1595	**S-1595**
9F-2491	**S-2491**
9F-2773	**S-2773**
9F-6580	**S-6580**
9F-6936	**S-6936**
9F-7022	**S-7022**
9F-8122	**S-8122**
9F-8999	**S-8999**
9F-9522	**S-9522**
9H-9129	**S-9129**
9M-3742	**S-3742**
9S-1322	**S-1322**
9S-1351	**S-1351B**
9S-1362	**S-1362**
9S-1363	**S-1363**
9S-1364	**S-1364**
9S-1366	**S-1366**
9S-1367	**S-1367**
9S-1368	**S-1368**
9S-1374	**S-1374**

Most common reference numbers appear in **Bold**

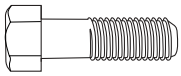
Hexagonal Bolts: Coarse Metric Thread

L mm.	ø M-5	ø M-6	ø M-8	ø M-10	ø M-12	ø M-14	ø M-16	ø M-18	ø M-20	ø M-22	ø M-24	ø M-27	ø M-30	ø M-33	ø M-36
	Thread 0.80	Thread 1.00	Thread 1.25	Thread 1.50	Thread 1.75	Thread 2.00		Thread 2.50			Thread 3.00		Thread 3.50		Thread 4.00
10		M-06010	M-08010												
12	M-05012														
15		M-06015	M-08015	M-10015											
16	M-05016														
20	M-05020	M-06020	M-08020	M-10020	M-12020										
25	M-05025	M-06025	M-08025	M-10025	M-12025	M-14025									
30	M-05030	M-06030	M-08030	M-10030	M-12030	M-14030	M-16030								
35	M-05035	M-06035	M-08035	M-10035	M-12035	M-14035	M-16035	M-18035							
40	M-05040	M-06040	M-08040	M-10040	M-12040	M-14040	M-16040	M-18040	M-20040						
45		M-06045	M-08045	M-10045	M-12045	M-14045	M-16045	M-18045	M-20045						
50		M-06050	M-08050	M-10050	M-12050	M-14050	M-16050	M-18050	M-20050	M-22050					
55			M-08055	M-10055	M-12055	M-14055	M-16055	M-18055	M-20055						
60		M-06060	M-08060	M-10060	M-12060	M-14060	M-16060	M-18060	M-20060	M-22060	M-24060				
70			M-08070	M-10070	M-12070	M-14070	M-16070	M-18070	M-20070	M-22070	M-24070				
80				M-10080	M-12080	M-14080	M-16080	M-18080	M-20080	M-22080	M-24080	M-27080	M-30080		
90				M-10090	M-12090	M-14090	M-16090	M-18090	M-20090	M-22090	M-24090	M-27090	M-30090		
100				M-10100	M-12100	M-14100	M-16100	M-18100	M-20100	M-22100	M-24100	M-27100	M-30100	M-33100	M-36100
110						M-14110	M-16110	M-18110	M-20110	M-22110	M-24110	M-27110			
120					M-12120	M-14120	M-16120	M-18120	M-20120	M-22120	M-24120	M-27120	M-30120	M-33120	M-36120
150						M-14150	M-16150	M-18150	M-20150	M-22150	M-24150	M-27150	M-30150	M-33150	M-36150
180							M-16180	M-18180	M-20180	M-22180	M-24180	M-27180	M-30180	M-33180	M-36180
200							M-16200	M-18200	M-20200	M-22200	M-24200	M-27200	M-30200	M-33200	M-36200
250								M-18250	M-20250	M-22250	M-24250	M-27250	M-30250	M-33250	M-36250
300												M-27300	M-30300	M-33300	M-36300

DIN 933



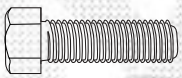
DIN 931



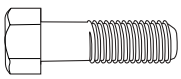
Hexagonal Bolts: Fine Metric Thread

L mm.	ø M-6	ø M-8	ø M-10	ø M-10	ø M-12	ø M-12	ø M-14	ø M-16	ø M-18	ø M-20	ø M-22	ø M-24	ø M-27	ø M-30
	Thread 0.80	Thread 1.00		Thread 1.25		Thread 1.50						Thread 2.00		
10	F-06010													
15	F-06015	F-08015												
20	F-06020	F-08020	E-10020	F-10020	E-12020	F-12020								
25	F-06025	F-08025	E-10025	F-10025	E-12025	F-12025								
30	F-06030	F-08030	E-10030	F-10030	E-12030	F-12030	F-14030	F-16030						
35	F-06035	F-08035	E-10035	F-10035	E-12035	F-12035	F-14035	F-16035	F-18035					
40	F-06040	F-08040	E-10040	F-10040	E-12040	F-12040	F-14040	F-16040	F-18040					
45	F-06045	F-08045		F-10045	E-12045	F-12045	F-14045	F-16045	F-18045	F-20045				
50	F-06050	F-08050	E-10050	F-10050	E-12050	F-12050	F-14050	F-16050	F-18050	F-20050	F-22050			
55		F-08055		F-10055	E-12055	F-12055	F-14055	F-16055	F-18055	F-20055				
60		F-08060	E-10060	F-10060	E-12060	F-12060	F-14060	F-16060	F-18060	F-20060	F-22060	F-24060		
70				F-10070	E-12070	F-12070	F-14070	F-16070	F-18070	F-20070	F-22070	F-24070		
80				F-10080	E-12080	F-12080	F-14080	F-16080	F-18080	F-20080	F-22080	F-24080	F-27080	F-30080
90						F-12090	F-14090	F-16090	F-18090	F-20090	F-22090	F-24090		
100						F-12100	F-14100	F-16100	F-18100	F-20100	F-22100	F-24100	F-27100	F-30100
110							F-14110	F-16110	F-18110	F-20110	F-22110	F-24110	F-27110	
120							F-14120	F-16120	F-18120	F-20120	F-22120	F-24120	F-27120	F-30120
150								F-16150	F-18150	F-20150	F-22150	F-24150	F-27150	F-30150
180													F-27180	F-30180
200													F-27200	F-30200

DIN 961



DIN 960



Most common reference numbers appear in **Bold**

Cross Reference Metric Thread Bolts Caterpillar / BYG

CAT	BYG
2W-9499	**M-06040**
5P-8347	**M-08070**
6A-5591	**M-12025**
6V-1819	**M-10100**
6V-1820	**M-10030**
6V-2315	**M-06035**
6V-2317	**M-08030**
6V-3303	**M-16060**
6V-3531	**M-20050**
6V-3532	**M-20060**
6V-3668	**M-12030**
6V-3669	**M-20080**
6V-3822	**M-10035**
6V-3823	**M-12060**
6V-3918	**M-08050**
6V-3940	**M-08025**
6V-4248	**M-10025**

CAT	BYG
6V-4249	**M-10050**
6V-4429	**M-16040**
6V-5215	**M-08015**
6V-5217	**M-08020**
6V-5218	**M-08035**
6V-5219	**M-08040**
6V-5230	**M-10060**
6V-5684	**M-12045**
6V-5685	**M-14050**
6V-5686	**M-16050**
6V-5696	**M-12080**
6V-5842	**M-10040**
6V-5843	**M-10045**
6V-5844	**M-16035**
6V-5845	**M-20070**
6V-6317	**M-10020**
6V-7673	**M-12050**

CAT	BYG
6V-7728	**M-06045**
6V-7729	**M-20040**
6V-7981	**M-10070**
6V-8004	**M-12120**
6V-8132	**M-24120**
6V-8133	**M-24080**
6V-8154	**M-16150**
6V-8197	**M-12040**
6V-8198	**M-24200**
6V-8212	**M-10015**
6V-8214	**M-06020**
6V-8336	**M-12070**
6V-8490	**M-06025**
6V-8550	**M-14035**
6V-8569	**M-20200**
6V-8675	**M-12035**
6V-8837	**M-06015**

CAT	BYG
6V-9667	**M-20100**
8C-0537	**M-14090**
8C-3222	**M-30080**
8C-3411	**M-30090**
8T-0070	**M-20120**
8T-0100	**M-08060**
8T-0106	**M-12100**
8T-0207	**M-16100**
8T-0226	**M-14045**
8T-0275	**M-06050**
8T-0276	**M-08045**
8T-0281	**M-16080**
8T-0282	**M-16120**
8T-0293	**M-12020**
8T-0296	**M-14025**
8T-0297	**M-14030**
8T-0298	**M-14100**

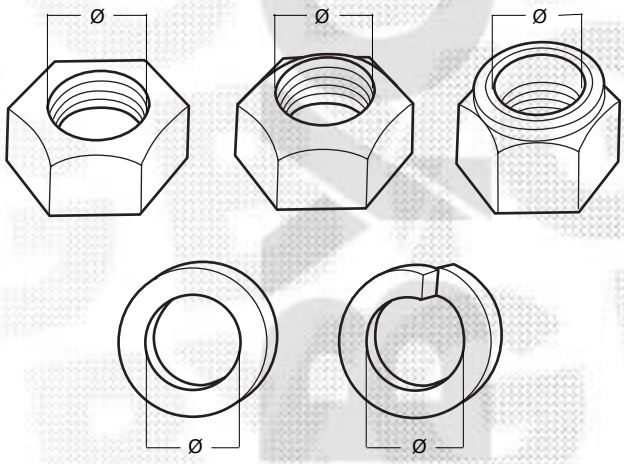
CAT	BYG
8T-0299	**M-16030**
8T-0357	**M-16070**
8T-0358	**M-16090**
8T-0360	**M-20090**
8T-0362	**M-20110**
8T-0368	**M-30100**
8T-0369	**M-30120**
8T-0372	**M-12090**
8T-0373	**M-14020**
8T-0375	**M-16045**
8T-0390	**M-24060**
8T-0640	**M-06030**
8T-0643	**M-10080**
8T-0644	**M-10090**
8T-0649	**M-16110**
8T-0652	**M-20045**
8T-0656	**M-20150**

CAT	BYG
8T-0658	**M-20180**
8T-0664	**M-24070**
8T-0666	**M-24090**
8T-0667	**M-24100**
8T-0668	**M-24110**
8T-0671	**M-24150**
8T-0674	**M-24180**
8T-3653	**M-14080**
8T-3666	**M-14060**
8T-5002	**M-16180**
8T-5066	**M-06060**
8T-6624	**M-30180**

Most common reference numbers appear in **Bold**

Nuts and Washers for Hexagonal Bolts

UNC - UNF Thread



Coarse UNC Thread

Ø	BYG	OEM	BYG	OEM	BYG	OEM	BYG	OEM	BYG	OEM	Thread"
1/4"	**NP-014**	9S-8750			**TAC-140**	7H-8909	**0-206**	5P-0537	**0-14**	3B-4504	20
5/16"	**NP-516**	5S-0003			**TAC-516**	2R-0504	**0-207**	9M-1974	**0-31**	3B-4505	18
3/8"	**NP-038**	9S-8752			**TAC-380**	4J-8265	**0-208**	5M-2894	**0-37**	3B-4506	16
7/16"	**NP-716**	3S-1546			**TAC-716**	9M-5048	**0-210**	5P-8244	**0-43**	3B-4507	14
1/2"	**NP-117**	1F-7958			**TAC-120**	2H-3788	**0-212**	5P-8245	**0-52**	3B-4508	13
9/16"	**NP-149**	5P-0539			**TAC-916**		**0-214**	5P-8246	**0-56**	3B-4509	12
5/8"	**NP-158**	4K-0367			**TAC-580**	2H-3789	**0-216**	5P-8247	**0-62**	3B-4510	11
3/4"	**NP-190**	2J-3506			**TAC-340**	2H-3790	**0-219**	5P-8248	**0-75**	3B-4512	10
7/8"	**NP-222**	2J-3505			**TAC-780**		**0-222**	5P-8249	**0-87**	3B-4514	9
1"	**NP-100**	2J-3507	**NP-100 B**	8J-2933	**TAC-100**		**0-254**	5P-8250	**0-25**	3B-4516	8
1-1/8"	**NP-118**	4J-5977			**TAC-118**		**0-300**	3S-1349	**0-12**	3B-4518	7
1-1/4"	**NP-114**	3K-9770	**NP-114 B**	5P-8362	**TAC-114**		**0-320**	4K-0684	**0-11**	3B-4520	
1-3/8"	**NP-138**						**0-350**				6
1-1/2"	**NP-112**	9S-8216			**TAC-112**		**0-325**		**0-15**	3B-4524	

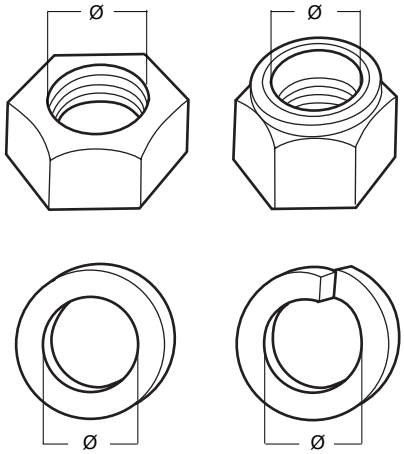
Fine UNF Thread

Ø	BYG	OEM	BYG	OEM	BYG	OEM	BYG	OEM	BYG	OEM	Thread"
1/4"	**NC-4201**	9S-8748			**TAF-140**	3F-7674	**0-206**	5P-0537	**0-14**	3B-4504	28
5/16"	**NC-4202**	9S-8751			**TAF-516**	3F-2617	**0-207**	9M-1974	**0-31**	3B-4505	24
3/8"	**NC-4203**	3S-2713			**TAF-380**	2F-8616	**0-208**	5M-2894	**0-37**	3B-4506	
7/16"	**NC-4204**	9S-8905			**TAF-716**	6I-6698	**0-210**	5P-8244	**0-43**	3B-4507	20
1/2"	**NC-4205**	6B-6684			**TAF-120**	2M-2570	**0-212**	5P-8245	**0-52**	3B-4508	
9/16"	**NC-1940**	5P-0540			**TAF-916**		**0-214**	5P-8246	**0-56**	3B-4509	18
5/8"	**NC-4206**	6B-6683			**TAF-580**	7B-1756	**0-216**	5P-8247	**0-62**	3B-4510	
3/4"	**NC-4207**	6B-6682			**TAF-340**	3F-7673	**0-219**	5P-8248	**0-75**	3B-4512	16
7/8"	**NC-4208**	1A-5666			**TAF-780**		**0-222**	5P-8249	**0-87**	3B-4514	14
1"	**NC-4209**	1A-1935			**TAF-100**		**0-254**	5P-8250	**0-25**	3B-4516	
1-1/8"	**NC-5753**	3S-1356			**TAF-118**		**0-300**	3S-1349	**0-12**	3B-4518	12
1-1/4"	**NC-4210**	7H-7539			**TAF-114**		**0-320**	4K-0684	**0-11**	3B-4520	
1-3/8"							**0-350**				
1-1/2"	**NC-7413**	8H-3390			**TAF-112**		**0-325**		**0-15**	3B-4524	12

Most common reference numbers appear in **Bold**

Nuts and Washers for Hexagonal Bolts

Metric Thread



Coarse Metric Thread

Ø	BYG	OEM	BYG	OEM	BYG	OEM	BYG	OEM	Thread
M-5	**TM-005**								0.8
M-6	**TM-006**	6V-8225	**TA-006**	01598.00608	**0-206**	5P-0537	**0-14**	3B-4504	1.00
M-8	**TM-008**	5P-7970	**TA-008**	01598.00809	**0-207**	9M-1974	**0-31**	3B-4505	1.25
M-10	**TM-010**	2Y-5829	**TA-010**	01598.01011	**0-208**	5M-2894	**0-10**	3B-4506	1.50
M-12	**TM-012**	6V-8149	**TA-012**	01598.01214	**0-212**	5P-8245	**0-52**	3B-4507	1.75
M-14	**TM-014**		**TA-014**	01598.01415	**0-214**	5P-8246	**0-56**	3B-4508	2.00
M-16	**TM-016**	8T-1757	**TA-016**	01598.01617	**0-216**	5P-8247	**0-62**	3B-4509	
M-18	**TM-018**		**TA-018**	01598.01812	**0-218**		**0-75**	3B-4510	
M-20	**TM-020**	6V-7742	**TA-020**	01598.02021	**0-219**	5P-8248	**0-20**	3B-4512	2.50
M-22	**TM-022**		**TA-022**	01598.02223	**0-222**	5P-8249	**0-87**	3B-4514	
M-24	**TM-024**	7X-0851	**TA-024**	01598.02425	**0-254**	5P-8250	**0-25**	3B-4516	3.00
M-27	**TM-027**		**TA-027**		**0-227**		**0-12**	3B-4518	
M-30	**TM-030**	8T-1583	**TA-030**		**0-300**	3S-1349	**0-11**	3B-4520	3.50
M-33	**TM-033**		**TA-033**		**0-320**	4K-0684	**0-33**		
M-36	**TM-036**		**TA-036**		**0-325**		**0-15**	3B-4524	4.00
M-42	**TM-042**				**0-350**				4.50

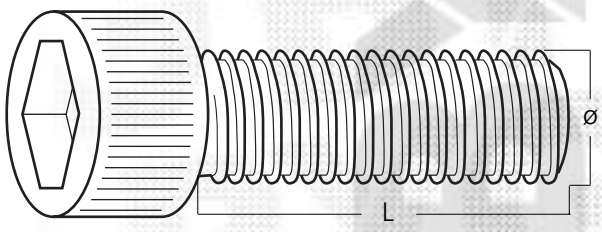
Fine Metric Thread

Ø	BYG	OEM	BYG	OEM	BYG	OEM	BYG	OEM	Thread
M-8	**TM-008 F**		**TA-008 F**		**0-207**	9M-1974	**0-31**	3B-4505	1.00
M-10	**TM-010 E**		**TA-010 E**		**0-208**	5M-2894	**0-10**	3B-4506	
	TM-010 F	12164727	**TA-010 F**	01599.01011					1.25
M-12	**TM-012 E**	16101527	**TA-012 E**		**0-212**	5P-8245	**0-52**	3B-4507	
	TM-012 F		**TA-012 F**	01599.01214					
M-14	**TM-014 F**		**TA-014 F**	01599.01415	**0-214**	5P-8246	**0-56**	3B-4508	
M-16	**TM-016 F**	12164111	**TA-016 F**		**0-216**	5P-8247	**0-62**	3B-4509	1.50
M-18	**TM-018 F**		**TA-018 F**	01599.01820	**0-218**		**0-75**	3B-4510	
M-20	**TM-020 F**	12164327	**TA-020 F**	01599.02021	**0-219**	5P-8248	**0-20**	3B-4512	
M-22	**TM-022 F**		**TA-022 F**	01599.02223	**0-222**	5P-8249	**0-87**	3B-4514	
M-24	**TM-024 F**	8287743	**TA-024 F**	01599.02425	**0-254**	5P-8250	**0-25**	3B-4516	
M-27	**TM-027 F**	76004796	**TA-027 F**		**0-227**		**0-12**	3B-4518	2.00
M-30	**TM-030 F**		**TA-030 F**		**0-300**	3S-1349	**0-11**	3B-4520	

Most common reference numbers appear in **Bold**

Socket Head Cap Screws DIN 912

12.9 Quality
Pretensile Strength
170.000 P.S.I. (120 Kg/mm²)
Elastic Load Limit
140.000 P.S.I. (100 Kg/mm²)
Rockwell Hardness
C35-38



Coarse UNC Thread

L	ø 1/4" 20 Thread"		ø 5/16" 18 Thread"		ø 3/8" 16 Thread"		ø 1/2" 13 Thread"		ø 5/8" 11 Thread"		ø 3/4" 10 Thread"		L mm.
	BYG	CAT	**BYG**	CAT	**BYG**	CAT	**BYG**	CAT	**BYG**	CAT	**BYG**	CAT	
1/2"	**A-20050**	8H-0708											13
5/8"	**A-25063**	8H-3128	**A-31063**										16
3/4"	**A-25075**	8H-3127	**A-31075**	9F-5975	**A-38075**	1L-0509							19
1"	**A-25100**	8H-0707	**A-31100**	1T-0284	**A-38100**	2D-4534	**A-50100**	5H-4893					25
1-1/4"	**A-25125**	4L-7124	**A-31125**	9F-6641	**A-38125**	2J-5245	**A-50125**	5F-8807					32
1-1/2"			**A-31150**	5J-5314	**A-38150**	4D-3120	**A-50150**	3F-7147	**A-63150**				38
2"					**A-38200**	1L-8793	**A-50200**	8B-7997	**A-63200**	5S-2457	**A-75200**		51
2-1/2"							**A-50250**	8B-7979	**A-63250**		**A-75250**	2N-6170	64
3"									**A-63300**	4D-0242	**A-75300**		76
4"									**A-63400**	8L-4743	**A-75400**		102
5"											**A-75500**		127

Coarse Metric Thread

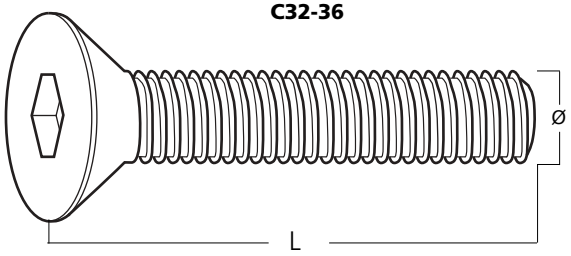
L mm.	ø M-5 Thread 0.80	ø M-6 Thread 1.00	ø M-8 Thread 1.25	ø M-10 Thread 1.50	ø M-12 Thread 1.75	ø M-14 Thread 2.00	ø M-16 Thread 2.00	ø M-20 Thread 2.50
12	**A-05012**	**A-06012**						
16	**A-05016**	**A-06016**	**A-08016**					
20	**A-05020**	**A-06020**	**A-08020**	**A-10020**				
25	**A-05025**	**A-06025**	**A-08025**	**A-10025**	**A-12025**			
30	**A-05030**	**A-06030**	**A-08030**	**A-10030**	**A-12030**	**A-14030**		
35	**A-05035**	**A-06035**	**A-08035**	**A-10035**	**A-12035**	**A-14035**		
40	**A-05040**	**A-06040**	**A-08040**	**A-10040**	**A-12040**	**A-14040**	**A-16040**	
45	**A-05045**	**A-06045**	**A-08045**	**A-10045**	**A-12045**	**A-14045**	**A-16045**	
50	**A-05050**	**A-06050**	**A-08050**	**A-10050**	**A-12050**	**A-14050**	**A-16050**	**A-20050**
60	**A-05060**	**A-06060**	**A-08060**	**A-10060**	**A-12060**	**A-14060**	**A-16060**	**A-20060**
70	**A-05070**	**A-06070**	**A-08070**	**A-10070**	**A-12070**	**A-14070**	**A-16070**	**A-20070**
80	**A-05080**	**A-06080**	**A-08080**	**A-10080**	**A-12080**	**A-14080**	**A-16080**	**A-20080**
90		**A-06090**	**A-08090**	**A-10090**	**A-12090**	**A-14090**	**A-16090**	**A-20090**
100		**A-06100**	**A-08100**	**A-10100**	**A-12100**	**A-14100**	**A-16100**	**A-20100**
120						**A-14120**	**A-16120**	**A-20120**
150							**A-16150**	**A-20150**

Most common reference numbers appear in **Bold**

Flat Head Socket Cap Screws DIN 7991

10.9 Quality

Pretensile Strength
150.000 P.S.I. (105 Kg/mm^2)
Elastic Load Limit
120.000 P.S.I. (84 Kg/mm^2)
Rockwell Hardness
C32-36



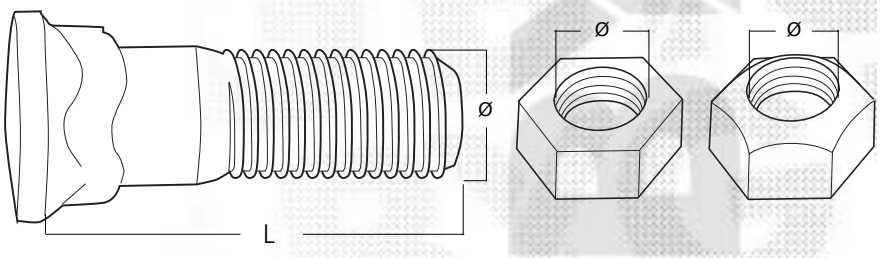
Coarse Metric Thread

L mm.	ø **M-5**	ø **M-6**	ø **M-8**	ø **M-10**	ø **M-12**	ø **M-14**	ø **M-16**	ø **M-18**	ø **M-20**
	Thread 0.80	Thread 1.00	Thread 1.25	Thread 1.50	Thread 1.75	Thread 2.00		Thread 2.50	
12	**V-05012**								
16	**V-05016**	**V-06016**							
20	**V-05020**	**V-06020**	**V-08020**						
25	**V-05025**	**V-06025**	**V-08025**	**V-10025**	**V-12025**				
30	**V-05030**	**V-06030**	**V-08030**	**V-10030**	**V-12030**	**V-14030**	**V-16030**	**V-18030**	*V-20030*
35	**V-05035**	**V-06035**	**V-08035**	**V-10035**	**V-12035**	**V-14035**	**V-16035**	*V-18035*	*V-20035*
40	**V-05040**	**V-06040**	**V-08040**	**V-10040**	**V-12040**	**V-14040**	**V-16040**	*V-18040*	*V-20040*
50		**V-06050**	**V-08050**	**V-10050**	**V-12050**	**V-14050**	**V-16050**	*V-18050*	*V-20050*
60			**V-08060**	**V-10060**	**V-12060**	**V-14060**	**V-16060**	*V-18060*	*V-20060*

Most common reference numbers appear in **Bold**

Plow Bolts and Nuts

12.9 Quality
Pretensile Strength
170.000 P.S.I. (120 Kg/mm^2)
Elastic Load Limit
140.000 P.S.I. (100 Kg/mm^2)
Rockwell Hardness
C36-42



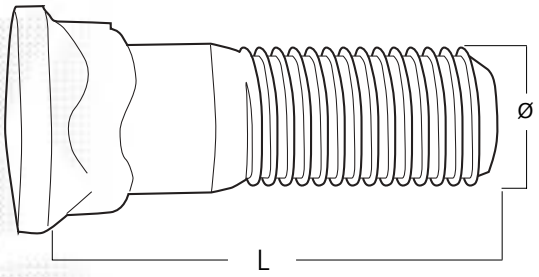
Caterpillar: Plow Bolts and Nuts

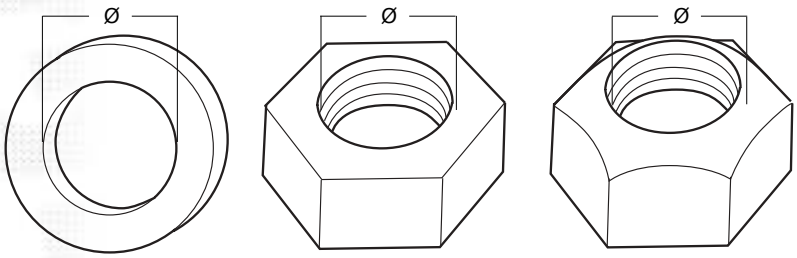
L	ø **1/2"** 13 Thread"		ø **5/8"** 11 Thread"		ø **3/4"** 10 Thread"		ø **7/8"** 9 Thread"		ø **1"** 8 Thread"		ø **1-1/4"** 7 Thread"	
	BYG	OEM	**BYG**	OEM	**BYG**	OEM	**BYG**	OEM	**BYG**	OEM	**BYG**	OEM
1-1/2"	**PB-201**	4F-3646										
1-3/4"	**PB-202**	4F-3648	**PB-502**	4F-3653								
2"	**PB-203**	4F-3649	**PB-505**	4F-3654	**PB-320**	4F-3672						
2-1/4"	**PB-204**	4F-3650	**PB-510**	3F-5108	**PB-322**	4F-7827	**PB-730**					
2-1/2"	**PB-205**	4F-3651	**PB-512**	4F-3656	**PB-324**	5J-4773	**PB-732**	5J-4772				
2-3/4"	**PB-206**	4F-3652	**PB-514**	4F-3657	**PB-326**	5J-4771	**PB-734**	6F-0196	**PB-940**	1J-5607		
3"			**PB-516**	4F-3658	**PB-328**	4F-0138	**PB-736**	5J-2409	**PB-942**	4F-4042		
3-1/4"					**PB-330**		**PB-738**	8J-2935	**PB-943**	4J-9058		
3-1/2"			**PB-518**	4F-3665	**PB-332**		**PB-740**	2J-2548	**PB-944**	4J-9208		
3-3/4"					**PB-334**	5F-8933	**PB-742**		**PB-945**	1J-4948		
4"			**PB-520**	4F-3671	**PB-336**		**PB-744**		**PB-946**	8J-2928	**PB-801**	5P-8823
4-1/2"					**PB-338**	4F-0253			**PB-948**	1J-3527	**PB-803**	6V-8360
5"					**PB-340**		**PB-746**		**PB-950**	1J-2034	**PB-805**	5P-8361
5-1/2"									**PB-952**			
5-3/4"											**PB-807**	
6-1/2"									**PB-954**			
	NP-117	1F-7958	**NP-158**	4K-0367	**NP-190**	2J-3506	**NP-222**	2J-3505	**NP-100**	2J-3507	**NP-114**	3K-9770
									NP-100 B	8J-2933	**NP-114 B**	5P-8362

Most common reference numbers appear in **Bold**

Fiat: Plow Bolts and Nuts

L mm.	M-20 Thread 1.50	
	BYG	OEM
52	**PB-050 F**	8280591
62	**PB-060 F**	8273211
72	**PB-070 F**	8273530
82	**PB-078 F**	8289500
	TM-020 F	12164327

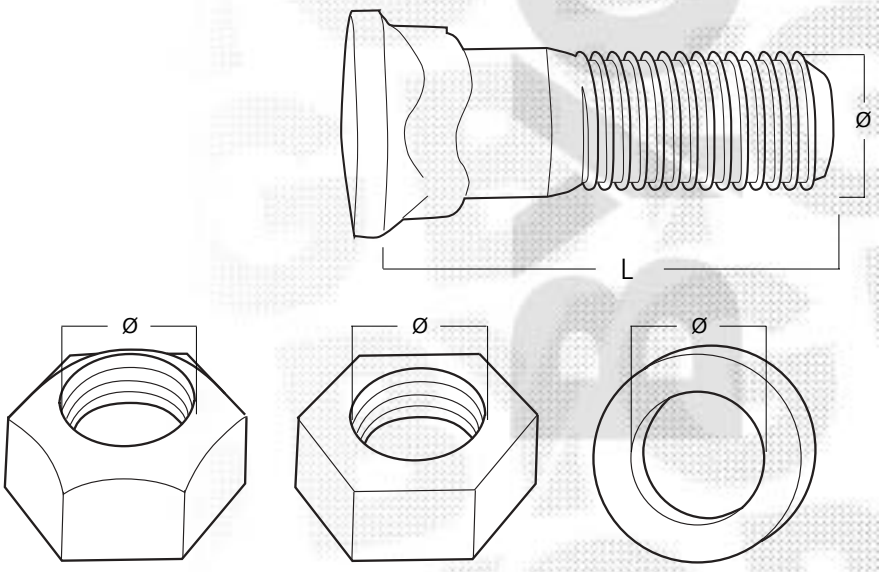




Komatsu: Plow Bolts and Nuts

L	ø **1/2"** 13 Thread"		ø **5/8"** 11 Thread"		ø **3/4"** 10 Thread"		ø **7/8"** 9 Thread"		L mm.
	BYG	OEM	**BYG**	OEM	**BYG**	OEM	**BYG**	OEM	
1-1/2"	**PB-201**	02090-10840							38
1-3/4"	**PB-202**		**PB-502**						44
2"	**PB-203**		**PB-505**	02090-11050	**PB-320**				51 >
2-1/4"	**PB-204**		**PB-510**	02090-11060	**PB-322**		**PB-730**		57
2-1/2"	**PB-205**		**PB-512**		**PB-324**	02090-11265	**PB-732**		64
2-3/4"	**PB-206**		**PB-514**		**PB-326**	02090-11270	**PB-734**		70
3"			**PB-516**	02090-11080	**PB-328**	02090-11275	**PB-736**	175-71-11454	76 >
3-1/4"					**PB-330**		**PB-738**	175-71-11450	83
3-1/2"			**PB-518**		**PB-332**	02090-1129	**PB-740**	124-70-21640	89
3-3/4"					**PB-334**		**PB-742**		95
4"			**PB-520**		**PB-336**	02091-11200	**PB-744**		102 >
3-3/4"									
4-1/2"					**PB-338**	02091-11215			114
4-9/16									
5"					**PB-340**	02091-11220	**PB-746**	175-71-11471	127 >
5-1/2"									140
5-3/4"									146
6-1/4"									
6-1/2"									165 >
	NP-117	02290-10813	**NP-158**	02290-11016	**NP-190**	02290-11219	**NP-222**	02290-11422	>
									>
									>

Most common reference numbers appear in **Bold**



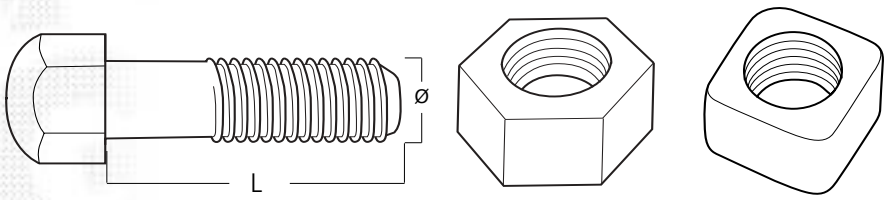
Komatsu: Plow Bolts and Nuts

L	ø **1"** 13 Thread"		ø **1-1/8""** 10 Thread"		ø **1-1/4"** 11 Thread"		ø **1-3/8"** 9 Thread"		L mm.
	BYG	OEM	**BYG**	OEM	**BYG**	OEM	**BYG**	OEM	
1-1/2"									38
1-3/4"									44
2"									51
2-1/4"									57
2-1/2"									64
2-3/4"	**PB-940**								70
3"	**PB-942**								76
3-1/4"	**PB-943**								83
3-1/2"	**PB-944**								89
3-3/4"	**PB-945**	195-71-11452	**PB-620**	195-71-52320					95
4"	**PB-946**	195-71-11461			**PB-801**	02091-12010			102
4-1/8"			**PB-622**	195-71-52330					105
4-1/2"	**PB-948**				**PB-803**	02091-12020			114
4-9/16							**PB-650**	1987-12-1850	116
5"	**PB-950**				**PB-805**				127
5-1/2"	**PB-952**						**PB-652**	198-71-21860	140
5-3/4"					**PB-807**				146
6-1/4"							**PB-654**	198-71-21870	159
6-1/2"	**PB-954**	195-71-11473							165
	NP-100	02290-11625	**NP-118**	195-71-52340	**NP-114**	02290-12031	**NP-138**	198-71-21910	
	NP-100 B				**NP-114 B**				
			0-300	195-71-52350			**0-350**	198-71-21890	

Most common reference numbers appear in **Bold**

Track Chain Bolts and Nuts
UNF Thread

12.9 Quality
Pretensile Strength
170.000 P.S.I. (120 Kg/mm²)
Elastic Load Limit
140.000 P.S.I. (100 Kg/mm²)
Rockwell Hardness
C36-42



Caterpillar: Track Chain Bolts

	Ø	Thread	L	L mm.	BYG	OEM		
D2, 933C	7/16"	UNF-20	1-9/16"	39,7	**S-1916**	2B-5484	**N-716**	**N-716 E**
D3, D4, 931, 933	1/2"	UNF-20	1-1/2"	38,1	**S-1250**	8H-7504	**N-125**	**N-125 E**
D3, D4, 931, 933	1/2"	UNF-20	1-7/8"	47,6	**S-0178**	2A-3223	**N-125**	**N-125 E**
D3, D4, 215, 931, 933, 941	9/16"	UNF-18	1-5/8"	41,2	**S-1516 C**	4K-7038	**N-916**	**N-916 E**
D3, D4, 931, 933, 941, 215	9/16"	UNF-18	1-15/16"	49,2	**S-1516**	7H-3596	**N-916**	**N-916 E**
D4-5-6-7, 941-51-53-55-77, 561	5/8"	UNF-18	2-1/8"	53,9	**S-0051**	7H-3597	**N-058**	**N-058 E**
D6C, D7	5/8"	UNF-18	2-33/64"	63,9	**S-0064**		**N-058**	**N-058 E**
D6-7-8, 955-63-73-77, 235, 571	3/4"	UNF-16	2-5/32"	54,7	**S-0189**	1S-1859	**N-034**	**N-034 E**
D6-7-8, 955-63-73-77, 235, 571	3/4"	UNF-16	2-3/8"	60,3	**S-0238**	7H-3598	**N-034**	**N-034 E**
D6-7-8, 955-63-73-77, 235, 571	3/4"	UNF-16	2-3/4"	69,8	**S-0234**	7F-8619	**N-034**	**N-034 E**
D8, D8H, 583, 983	7/8"	UNF-14	2-21/32"	67,4	**S-2132**	9M-7444	**N-078**	**N-078 E**
D8L	7/8"	UNF-14	3-1/2"	88,9	**S-0312**	6V-1723	**N-078 S**	**N-078 E**
D9, D9E, D9D, D9G, D9H, 594	1"	UNF-14	2-15/16"	74,6	**S-1278**	9M-7445	**N-254**	**N-254 E**
245	1"	UNF-14	3-5/16"	84,1	**S-3516**	3T-6308	**N-254**	
D9N	1"	UNF-14	3-9/16"	90,5	**S-3916**	6T-2638	**N-254 S**	
D9L	1"	UNF-14	4"	101,6	**S-0400**	6V-1726	**N-254 S**	**N-254 E**
D10	1-1/8"	UNF-12	4-1/4"	107,9	**S-0414**	5P-3868	**N-041 S**	
D10N	1-1/8"	UNF-12	3-25/32"	96,0	**S-2532**	7T-1000	**N-041 S**	

Fiat: Track Chain Bolts

	Ø	Thread	L	L mm.	BYG	OEM		
AD5, FL6, 805C, 45, 50, 655	9/16"	UNF-18	1-15/16"	49,2	**S-1516**	79012420	**N-916**	**N-916 E**
FL8, FL9, FL10, AD7, AD8, AD9, AD10	5/8"	UNF-18	2-1/8"	53,9	**S-0051**	79004489	**N-058**	**N-058 E**

RECOMMENDED TORQUE VALUES FOR UNF BOLTS

Ø	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1-1/8"	1-1/4"
UNF Lb.ft	88	138	195	275	480	770	1.170	1.660	2.200
UNF Kg. m	13	19	27	39	67	107	162	229	300

Most common reference numbers appear in **Bold**

International: Track Chain Bolts

	Ø	Thread	L	L mm.	BYG	OEM		
TD6, T6	7/16"	UNF-20	1-9/16"	39,6	**S-1916**	616182C1	**N-716**	**N-716 E**
TD7, TD8C, TD9B, 125B, 125C, 150	1/2"	UNF-20	1-1/2"	38,1	**S-1250**	330059R1	**N-125**	**N-125 E**
TD7, TD8C, TD9B, 125, 150	1/2"	UNF-20	1-7/8"	47,6	**S-0178**	316843R1	**N-125**	**N-125 E**
TD14A, TD15B, 175B	9/16"	UNF-18	2-3/16"	55,6	**S-0316**	616199C1	**N-916**	**N-916 E**
TD12 C, TD20 B, TD24, TD25 B,TD25 E	3/4"	UNF-16	2-3/4"	69,8	**S-0234**	311348R1	**N-034**	**N-034 E**

Case: Track Chain Bolts

	Ø	Thread	L	L mm.	BYG	OEM		
880 B, 880 C, 750, 1000	9/16"	UNF-18	1-15/16"	49,2	**S-1516**	R15309	**N-916**	**N-916 E**

John Deere: Track Chain Bolts

	Ø	Thread	L	L mm.	BYG	OEM		
350	1/2"	UNF-20	1-7/8"	47,6	**S-0178**		**N-125**	**N-125 E**

Poclain: Track Chain Bolts

	Ø	Thread	L	L mm.	BYG	OEM		
FC30	1/2"	UNF-20	1-7/8"	47,6	**S-0178**	H00300-81	**N-125**	**N-125 E**
60, 60CL, 60CS, 75C, 75CL, 90C, 90CL	9/16"	UNF-18	2-3/16"	55,6	**S-0316**	P00330-41	**N-916**	**N-916 E**
SC150K, 160CK, 220C, RC200, 200CL	3/4"	UNF-16	2-5/32"	54,8	**S-0189**	S02330-06	**N-034**	**N-034 E**
220CK, 300CL	3/4"	UNF-16	2-3/4"	69,8	**S-0234**	K10330-77	**N-034**	**N-034 E**
HC300, 300CK, 350CK, 400CL	7/8"	UNF-14	3-1/8"	79,4	**S-0082**	LIO2330-77	**N-078**	**N-078 E**

Komatsu: Track Chain Bolts

	Ø	Thread	L	L mm.	BYG	OEM		
D60A , D65A, D80A	3/4"	UNF-16	2-3/8"	60,3	**S-0238**	150-32-21320 150-32-21321	**N-034**	**N-034 E**

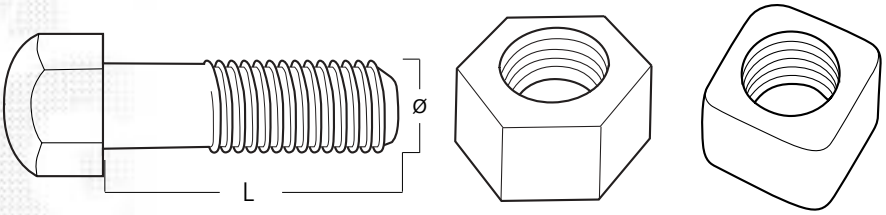
Most common reference numbers appear in **Bold**

Track Chain Bolts and Nuts

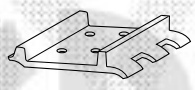
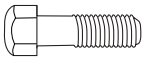
Metric Thread

12.9 Quality

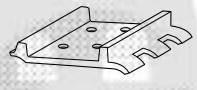
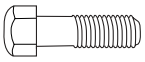
Pretensile Strength
170.000 P.S.I. (120 Kg/mm^2)
Elastic Load Limit
140.000 P.S.I. (100 Kg/mm^2)
Rockwell Hardness
C36-42



Fiat: Track Chain Bolts

	Ø	Thread	L mm.	 BYG	OEM		
25, 311, 312, 351, 352, 355	M-10	1.00	33	**S-0010**	557155	**N-010**	
AD4, FL4, 411C	M-12	1.00	40	**S-1240**	571894	**N-012**	
FL12, FL14, D60K	M-18	1.50	61	**S-0018**	598391	**N-018**	**N-018 E**
AD18, AD20	M-20	1.50	70	**S-0020**	588961	**N-020**	**N-020 E**

Komatsu: Track Chain Bolts

	Ø	Thread	L mm.	 BYG	OEM		
D30, MF450	M-14	1.50	50	**S-0014**	1421301M1	**N-014**	
D55, D65	M-18	1.50	65	**S-0018 K**	135-32-11210	**N-018**	**N-018 E**
D60, D65	M-19	1.50	62	**S-0019 KC**	150-32-21321		**N-019 E**
D60A	M-19	1.50	66	**S-0019 KL**	144-82-07210		**N-019 E**
D75, D80, D85	M-20	1.50	65	**S-0020 KC**	154-32-21321	**N-020**	**N-020 E**
D75S, D80, D85	M-20	1.50	85	**S-0020 KL**	175-71-11452	**N-020**	**N-020 E**
D120, 125, 150, 155	M-22	1.50	76	**S-0023 K**	170-32-11212		**N-022 E**
"Komatsu" Adapter	M-22	1.50	105	**S-0022 K**	145-70-19232		**N-022 E**
D355	M-24	1.50	78	**S-0024 KC**	176-32-11210	**N-024**	
D355	M-24	1.50	100	**S-0024 KL**	175-32-81190	**N-024**	
D355K	M-27	1.50	82	**S-0027 K**	195-32-11210	**N-027**	**N-027 K**
D455	M-30	2.00	97	**S-0030 K**	198-32-11211	**N-030**	

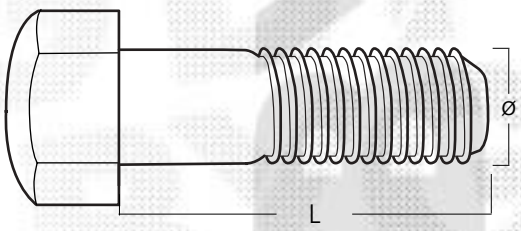
RECOMMENDED TORQUE VALUES FOR METRIC BOLTS

Ø	12x1	14x1.5	16x1.5	18x1.5	20x1.5	22x1.5	24x1.5	27x1.5
Lb.ft	116	190	285	435	580	790	1.010	1.455
Kg. m	16	26	39	60	80	105	139	201

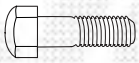
Most common reference numbers appComponentes para maquinas de movimento de terras e mineriaear in **Bold**

Split Master Link Bolts

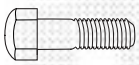
12.9 Quality
Pretensile Strength
170.000 P.S.I. (120 Kg/mm^2)
Elastic Load Limit
140.000 P.S.I. (100 Kg/mm^2)
Rockwell Hardness
C35-38



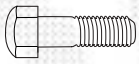
Caterpillar: Split Master Link Bolts

	Ø	Thread	L mm.	 BYG	OEM
D4, D5, D6, 951, 953	5/8"	UNF-18	3-1/2"	**S-2274**	3P-2274
D6C	3/4"	UNF-16	4-5/32"	**S-1838**	9S-1838
D7G	3/4"	UNF-14	4-27/64"	**S-9670**	2P-9670
D8H	7/8"	UNF-14	4-25/32"	**S-0395**	8S-0395
D8L	7/8"	UNF-14	3-3/4"	**S-1724**	6V-1724
D8L	7/8"	UNF-14	5"	**S-1725**	6V-1725
D9G, D9H	1"	UNF-14	5-9/16"	**S-1723**	8S-1723
D9L	1"	UNF-14	4-21/64"	**S-1727**	6V-1727
D9L	1"	UNF-14	5-53/64"	**S-1728**	6V-1728
D10N	1-1/8"	UNF-12	5-9/32"	**S-0999**	7T-0999
D10N	1-1/8"	UNF-12	6-29/64"	**S-0998**	7T-0998
D11	1-3/8"	UNF-12	6"	**S-8521**	6T-8521
D11	1-3/8"	UNF-12	7-1/4"	**S-8520**	6T-8520

Fiat: Split Master Link Bolts

	Ø	Thread	L mm.	 BYG	OEM
FL10C	M-18	1.50	95	**S-18095**	79039444
FL14/625, FD14/625	M-20	1.50	102	**S-20102**	79035815
FL20, FD20	M-22	1.50	115	**S-22115**	76007852

Komatsu: Split Master Link Bolts

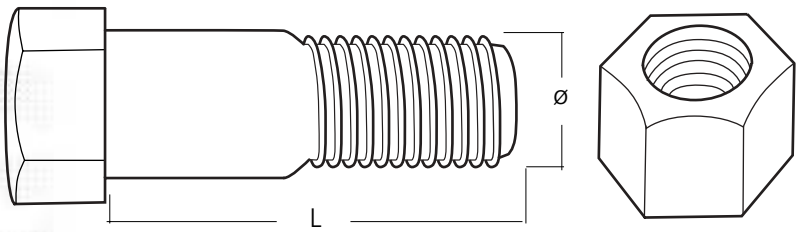
	Ø	Thread	L mm.	 BYG	OEM
D60, D65A, D65E, D65S	M-18	1.50	95	**S-18095**	144-32-21342
D80, D85A, D85E	M-20	1.50	118	**S-20118**	154-32-21260
D150, D155A, D155S	M-24	2.00	127	**S-24127**	175-32-41260
D355A	M-27	2.00	147	**S-27147**	195-32-23140

Most common reference numbers appear in **Bold**

Segment Groups Bolts and Nuts

12.9 Quality

Pretensile Strength
170.000 P.S.I. (120 Kg/mm^2)
Elastic Load Limit
140.000 P.S.I. (100 Kg/mm^2)
Rockwell Hardness
C35-38



Caterpillar: Segment Groups Bolts

	Ø	Thread	L mm.	BYG	OEM	
D5, D6C, 561, 955, 977	5/8"	UNF-18	47.6	**S-8182 C**	3S-8182	**N-058 E**
D7, D7E, 571, 572E, 973, 977H-K	3/4"	UNF-16	60.3	**S-0336 C**	3S-0336	**N-034 E**
D8L	3/4"	UNF-16	66.7	**S-4130 C**	5P-4130	**N-034 E**
D8H, D8K, 983, 583H, 583K	7/8"	UNF-14	65.0	**S-2727 C**	9S-2727	**N-078 E**
D9L	7/8"	UNF-14	76.2	**S-6471 C**	5P-6471	**N-078 E**
D9G, 594	1"	UNF-14	72.2	**S-2728 C**	9S-2728	**N-254 E**
D9H	1"	UNF-14	72.2	**S-0233 C**	5P-0233	**N-254 E**
D10N	1"	UNF-14	92,2	**S-5422 C**	5P-5422	**N-254 E**

Fiat: Segment Groups Bolts

	Ø	Thread	L mm.	BYG	OEM	
FL10-B-C, AD10, BD10, 110C	M-20	1.50	65.0	**S-0010 F**	59884/37	**N-010 F**
FL12, AD12, BD12, FL14, AD14	M-22	1.50	65.0	**S-0014 F**	59927/31	**N-014 F**
AD18, BD18, AD20, BD20, 180C	M-24	2.00	70.0	**S-0020 F**	59973/31	**N-020 F**
FL20, FD20	M-24	2.00	75.0	**S-0021 F**	79018427	**N-020 F**

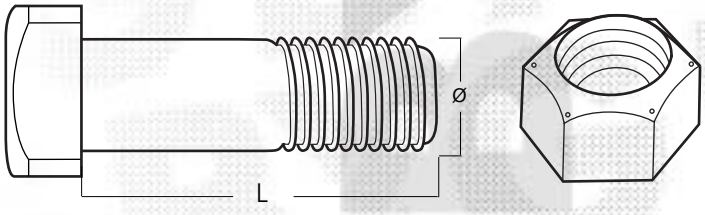
Komatsu: Segment Groups Bolts

	Ø	Thread	L mm.	BYG	OEM	
D60, D65A, D65S, D75S.3	M-22	1.50	70.0	**S-0065 K**	154-27-12320	**N-022 K**
D75S.2, D80, D85A, D85P, D95S	M-22	1.50	71.0	**S-0075 K**	155-27-12181	**N-022 K**
D150, D155A, D155S	M-24	1.50	79.0	**S-0155 K**	178-27-11150	**N-024 K**
D355A.3	M-24	1.50	90.0	**S-0355 K**	195-27-12632	**N-024 K**

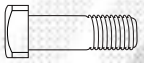
Most common reference numbers appear in **Bold**

Final Drive Gear Bolts

12.9 Quality
Pretensile Strength
170.000 P.S.I. (120 Kg/mm^2)
Elastic Load Limit
140.000 P.S.I. (100 Kg/mm^2)
Rockwell Hardness
C36-42

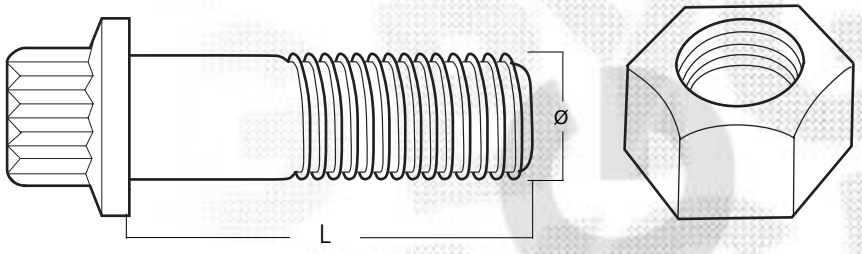


Final Drive Gear Bolts

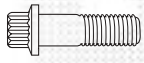
	Ø	Thread	L mm.	 BYG	OEM	
D4, 955, 12A	5/8"	UNF-18	40	**BG-5840**	9F-5227	**NAF-580**
941B, 951B, 955H-K	5/8"	UNF-18	45	**BG-5845**	3K-3815	**NAF-580**
D6, D6C, 977H-K	5/8"	UNF-18	51	**BG-5851**	3B-4990	**NAF-580**
D7E-F, 977H, 983, 20A	3/4"	UNF-16	53	**BG-3453**	6B-4598	**NAF-340**
D8	3/4"	UNF-16	58	**BG-3458**	3B-4580	**NAF-340**

Tamping Foot Bolts and Nuts

12.9 Quality
Pretensile Strength
170.000 P.S.I. (120 Kg/mm^2)
Elastic Load Limit
140.000 P.S.I. (100 Kg/mm^2)
Rockwell Hardness
C35-38



Tamping Foot Bolts and Nuts

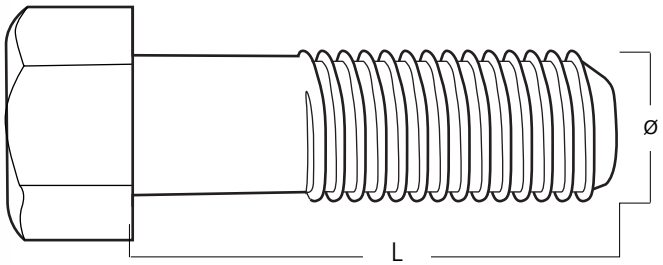
		Ø	Thread	L mm.	 BYG	OEM		
8K-9189	**815**	5/8"	UNF-18	51	**S12-5851**	8K-9163	**N-058 E**	**0-1258**
8K-9171	**825**	7/8"	UNF-14	63	**S12-7863**	8K-9164	**N-078 E**	**0-1278**

Most common reference numbers appear in **Bold**

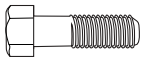
Track Roller Bolts

12.9 Quality

Pretensile Strength
170.000 P.S.I. (120 Kg/mm^2)
Elastic Load Limit
140.000 P.S.I. (100 Kg/mm^2)
Rockwell Hardness
C35-38



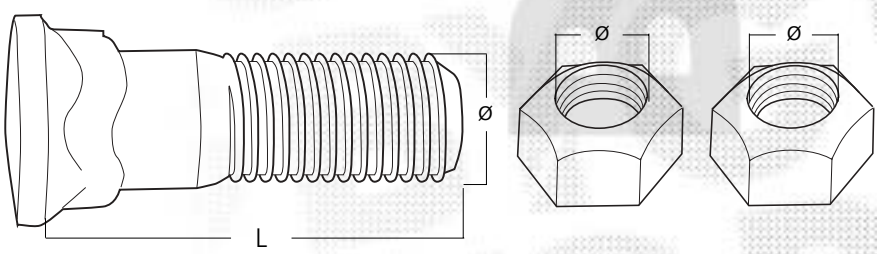
Track Roller Bolts

	Series	Ø	Thread	L	L mm.	 BYG	OEM
933	42A						
955H	45A, 608412						
931	89A	5/8"	UNF-18	2-3/4"	69,85	**S-1601**	0S-1601
D5	All series						
D6	8U, 9U, 37A, 44A						
D4	24A, 39A, 78A, 86A, 88A, 58J, 83J, 84J	5/8"	UNC-11	2"	50,80	**S-1135**	1A-1135
941	80H, 70H						
955H	60A-8413 Up	5/8"	UNC-11	2-3/4"	69,85	**S-8537**	1A-8537
D6C	99J, 10K, 47J						
D6C	76A						
955K	61H, 58J, 64J						
951	79H	5/8"	UNC-11	2-1/2"	63,50	**S-1625**	0S-1625
951B	86J, 69J						
955L	84J						
D7	17A	5/8"	UNF-18	3-1/4"	82,55	**S-2318**	0S-2318
977H	53A						
977KL	46H, 11K, 48J	3/4"	UNC-10	3"	76,20	**S-4609**	1D-4609
D7E	47A, 48A						
D7F	94N	7/8"	UNC-9	3-1/2"	88,90	**S-4629**	1D-4629
983	38K						
D8	13A, 14A, 15A	7/8"	UNF-14	3-3/4"	95,25	**S-2090**	0L-2090
D8H	52A, 35A, 46A	7/8"	UNC-9	2-3/4"	69,85	**S-4626**	1D-4626
D9E	18A, 19A, 34A						
D8H	68A	1"	UNC-8	4-1/4"	107,95	**S-4640**	1D-4640
D9G	66A	7/8"	UNC-9	4"	101,60	**S-4630**	1D-4630

Most common reference numbers appear in **Bold**

Plow Bolts and Nuts for Adapters and Corner Adapters

12.9 Quality
Pretensile Strength
170.000 P.S.I. (120 Kg/mm^2)
Elastic Load Limit
140.000 P.S.I. (100 Kg/mm^2)
Rockwell Hardness
C36-42

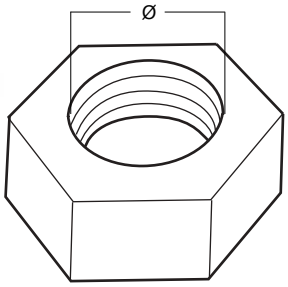


Plow Bolts and Nuts for Adapters and Corner Adapters

				BYG	OEM	Ø	Thread	L	L mm.		
1U-0257 1U-0307				**PB-946**	8J-2928	1"	UNC-8	4"	101,60	**NP-100 B**	
1U-1357				**PB-805**	5P-8361	1-1/4"	UNC-7	5"	127,00	**NP-114 B**	
		1U-2209	1U-2208	**PB-324**	5J-4773	3/4"	UNC-10	2-1/2"	63,50		**NP-190**
	3G-1357			**PB-946**	8J-2928	1"	UNC-8	4"	101,60	**NP-100 B**	
	3G-2357			**PB-948**	1J-3527	1"	UNC-8	4-1/2"	114,30	**NP-100 B**	
3G-3357				**PB-805**	5P-8361	1-1/4"	UNC-7	5"	127,00	**NP-114 B**	
		3G-4259	3G-4258	**PB-942**	4F-4042	1"	UNC-8	3"	76,20	**NP-100 B**	
		3G-4309	3G-4308	**PB-801**	5P-8823	1-1/4"	UNC-7	4"	101,60	**NP-114 B**	
	3G-5307			**PB-946**	8J-2928	1"	UNC-8	4"	101,60	**NP-100 B**	
		3G-5359	3G-5358	**PB-803**	6V-8360	1-1/4"	UNC-7	4-1/2"	114,30	**NP-114 B**	
3G-7357				**PB-805**	5P-8361	1-1/4"	UNC-7	5"	127,00	**NP-114 B**	
		3G-8309	3G-8308	**PB-801**	5P-8823	1-1/4"	UNC-7	4"	101,60	**NP-114 B**	
3G-9307				**PB-805**	5P-8361	1-1/4"	UNC-7	5"	127,00	**NP-114 B**	
4T-4307				**PB-946**	8J-2928	1"	UNC-8	4"	101,60	**NP-100 B**	
				PB-948	1J-3527	1"	UNC-8	4-1/2"	114,30	**NP-100 B**	
4T-8457				**PB-805**	5P-8361	1-1/4"	UNC-7	5"	127,00	**NP-100 B**	
9J-4207				**PB-326**	5J-4771	3/4"	UNC-10	2-3/4"	69,85		**NP-190**
9W-6207				**PB-512**	4F-3656	5/8"	UNC-11	2-1/2"	63,50		**NP-158**

Most common reference numbers appear in **Bold**

"Finished" Hexagonal Nuts
UNC - UNF Thread



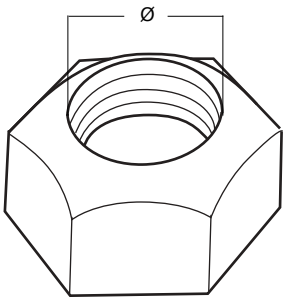
10.9 Quality
Pretensile Strength
150.000 P.S.I. (105 Kg/mm^2)
Elastic Load Limit
120.000 P.S.I. (84 Kg/mm^2)
Rockwell Hardness
C32-36

"Finished" Hexagonal Nuts

Ø	UNC Thread				UNF Thread			
	Thread	BYG	Caterpillar	Komatsu	Thread	BYG	Caterpillar	Fiat
1/4"	UNC-20	**NP-014**	9S-8750		UNF-28	**NC-4201**	9S-8748	
5/16"	UNC-18	**NP-516**	5S-0003		UNF-24	**NC-4202**	9S-8751	
3/8"	UNC-16	**NP-038**	9S-8752		UNF-24	**NC-4203**	3S-2713	
7/16"	UNC-14	**NP-716**	3S-1546		UNF-20	**NC-4204**	9S-8905	
1/2"	UNC-13	**NP-117**	1F-7958	02290-10813	UNF-20	**NC-4205**	6B-6684	
9/16"	UNC-12	**NP-149**	5P-0539		UNF-18	**NC-1940**	5P-0540	573905
5/8"	UNC-11	**NP-158**	4K-0367	02290-11016	UNF-18	**NC-4206**	6B-6683	
3/4"	UNC-10	**NP-190**	2J-3506	02290-11219	UNF-16	**NC-4207**	6B-6682	
7/8"	UNC-9	**NP-222**	2J-3505	02290-11422	UNF-14	**NC-4208**	1A-5666	
1"	UNC-8	**NP-100**	2J-3507	135-70-34130	UNF-14	**NC-4209**	1A-1935	
1-1/8"	UNC-7	**NP-118**	4J-5977		UNF-12	**NC-5753**	3S-1356	
1-1/4"	UNC-7	**NP-114**	3K-9770	02290-12031	UNF-12	**NC-4210**	7H-7539	
1-3/8"	UNC-6	**NP-138**		19871-21910				
1-1/2"	UNC-6	**NP-112**	9S-8216		UNF-12	**NC-7413**	8H-3390	

Conical Taper Nuts: Coarse UNC Thread

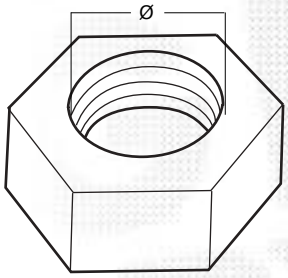
Ø	Thread	BYG	OEM
1"	UNC-8	**NP-100 B**	8J-2933
1-1/4"	UNC-7	**NP-114 B**	5P-8362



Most common reference numbers appear in **Bold**

Hexagonal Nuts DIN 934

Metric Thread



10.9 Quality

Pretensile Strength
150.000 P.S.I. (105 Kg/mm^2)
Elastic Load Limit
120.000 P.S.I. (84 Kg/mm^2)
Rockwell Hardness
C32-36

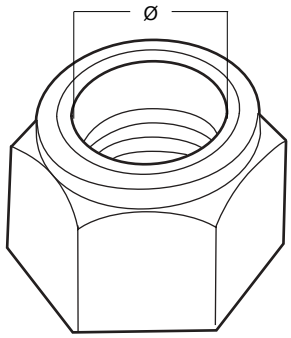
Hexagonal Nuts DIN 934: Metric Thread

Ø	Thread	COARSE Thread		Thread	FINE Thread	
		BYG	Caterpillar		**BYG**	Fiat
M-5	0.80	**TM-005**				
M-6	1.00	**TM-006**	6V-8225			
M-8	1.25	**TM-008**	5P-7970	1.00	**TM-008 F**	
M-10	1.50	**TM-010**	2Y-5829	1.25	**TM-010 F**	12164727
M-10				1.00	**TM-010 E**	
M-12	1.75	**TM-012**	6V-8149	1.25	**TM-012 E**	16101527
M-12				1.50	**TM-012 F**	
M-14	2.00	**TM-014**		1.50	**TM-014 F**	
M-16	2.00	**TM-016**	8T-1757	1.50	**TM-016 F**	12164111
M-18	2.50	**TM-018**		1.50	**TM-018 F**	
M-20	2.50	**TM-020**	6V-7742	1.50	**TM-020 F**	12164327
M-22	2.50	**TM-022**		1.50	**TM-022 F**	
M-24	3.00	**TM-024**	7X-0851	2.00	**TM-024 F**	8287743
M-27	3.00	**TM-027**		2.00	**TM-027 F**	76004796
M-30	3.50	**TM-030**	8T-1583	2.00	**TM-030 F**	
M-33	3.50	**TM-033**				
M-36	4.00	**TM-036**				

Most common reference numbers appear in **Bold**

Nylon Insert Lock Nuts Din 982

UNC - UNF Thread



10.9 Quality

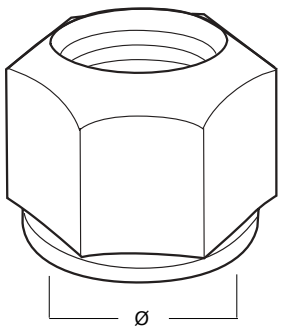
Pretensile Strength
150.000 P.S.I. (105 Kg/mm^2)
Elastic Load Limit
120.000 P.S.I. (84 Kg/mm^2)
Rockwell Hardness
C32-36

UNC - UNF Thread

Ø	Thread	UNC Thread		Thread	UNF Thread	
		BYG	OEM		**BYG**	OEM
1/4"	UNC-20	**TAC-140**	7H-8909	UNF-28	**TAF-140**	3F-7674
5/16"	UNC-18	**TAC-516**	2R-0504	UNF-24	**TAF-516**	3F-2617
3/8"	UNC-16	**TAC-380**	4J-8265	UNF-24	**TAF-380**	2F-8616
7/16"	UNC-14	**TAC-716**	9M-5048	UNF-20	**TAF-716**	616698
1/2"	UNC-13	**TAC-120**	2H-3788	UNF-20	**TAF-120**	2M-2570
9/16"	UNC-12	**TAC-916**		UNF-18	**TAF-916**	
5/8"	UNC-11	**TAC-580**	2H-3789	UNF-18	**TAF-580**	7B-1756
3/4"	UNC-10	**TAC-340**	2H-3790	UNF-16	**TAF-340**	3F-7673
7/8"	UNC-9	**TAC-780**		UNF-14	**TAF-780**	
1"	UNC-8	**TAC-100**		UNF-14	**TAF-100**	
1-1/8"	UNC-7	**TAC-118**		UNF-12	**TAF-118**	
1-1/4"	UNC-7	**TAC-114**		UNF-12	**TAF-114**	
1-1/2"	UNC-6	**TAC-112**		UNF-12	**TAF-112**	

Conical Taper Nylon Insert Lock Nuts: UNC Thread

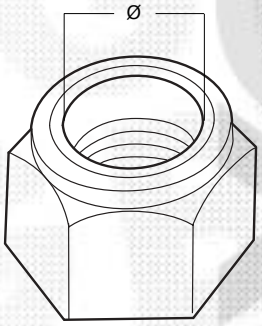
Ø	Thread	
1-1/4"	UNC-7	**TAC-114 B**



Most common reference numbers appear in **Bold**

Nylon Insert Lock Nuts Din 982

Metric Thread

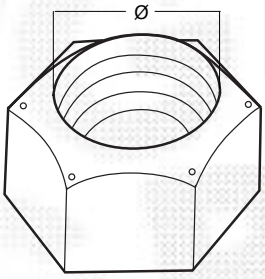


10.9 Quality
Pretensile Strength
150.000 P.S.I. (105 Kg/mm^2)
Elastic Load Limit
120.000 P.S.I. (84 Kg/mm^2)
Rockwell Hardness
C32-36

Metric Thread Nuts

Ø	Thread	COARSE Thread		Thread	FINE Thread	
		BYG	OEM		**BYG**	OEM
M-6	1.00	**TA-006**	01598-00608			
M-8	1.25	**TA-008**	01598-00809	1.00	**TA-008 F**	
M-10	1.50	**TA-010**	01598-01011	1.00	**TA-010 E**	
M-10				1.25	**TA-010 F**	01599-01011
M-12	1.75	**TA-012**	01598-01214	1.25	**TA-012 E**	
M-12				1.50	**TA-012 F**	01599-01214
M-14	2.00	**TA-014**	01598-01415	1.50	**TA-014 F**	01599-01415
M-16	2.25	**TA-016**	01598-01617	1.50	**TA-016 F**	01599-01820
M-18	2.50	**TA-036**	01598-01820	1.50	**TA-018 F**	01599-02021
M-20	2.50	**TA-020**	01598-02021	1.50	**TA-020 F**	01599-02223
M-22	2.50	**TA-022**	01598-02223	1.50	**TA-022 F**	01599-02425
M-24	3.00	**TA-024**	01598-02425	2.00	**TA-024 F**	
M-27	3.00	**TA-027**		2.00	**TA-027 F**	
M-30	3.50	**TA-030**		2.00	**TA-030 F**	
M-33	3.50	**TA-033**				
M-36	4.00	**TA-036**				

Self-Locking Nuts



10.9 Quality
Pretensile Strength
150.000 P.S.I. (105 Kg/mm^2)
Elastic Load Limit
120.000 P.S.I. (84 Kg/mm^2)
Rockwell Hardness
C32-36

Self-Locking Nuts: UNC - UNF Thread

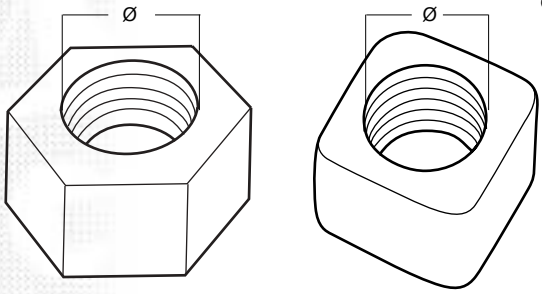
Ø	Thread	UNC Thread		Thread	UNF Thread	
		BYG	OEM		**BYG**	OEM
1/4"	UNC-20	*NAC-140*	2D-6235	UNF-28	*NAF-140*	2L-9038
5/16"	UNC-18	*NAC-516*	314155	UNF-24	*NAF-516*	3D-8752
3/8"	UNC-16	*NAC-380*	2K-4973	UNF-24	*NAF-380*	2L-6267
7/16"	UNC-14	*NAC-716*	6V-5729	UNF-20	*NAF-716*	4D-6432
1/2"	UNC-13	*NAC-120*	1K-6872	UNF-20	*NAF-120*	2K-0564
9/16"	UNC-12	*NAC-916*	349954	UNF-18	*NAF-916*	545448
5/8"	UNC-11	*NAC-580*	3K-2889	UNF-18	**NAF-580**	2K-4821
3/4"	UNC-10	*NAC-340*	1K-6870	UNF-16	**NAF-340**	2K-0337
7/8"	UNC-9	*NAC-780*	6K-0545	UNF-14	*NAF-780*	5D-1986
1"	UNC-8	*NAC-100*	6K-3632	UNF-14	*NAF-100*	2K-7471

Most common reference numbers appear in **Bold**

Track Chain Nuts

12.9 Quality

Pretensile Strength
170.000 P.S.I. (120 Kg/mm^2)
Elastic Load Limit
140.000 P.S.I. (100 Kg/mm^2)
Rockwell Hardness
C35-38



Square and Hexagonal Nuts: Fine UNF Thread

Ø	Thread	BYG	OEM	BYG	OEM
7/16"	UNF-20	**N-716**	7K-1706	**N-716 E**	2B-5483
1/2"	UNF-20	**N-125**	6S-3419	**N-125 E**	8H-5724
9/16"	UNF-18	**N-916**	7K-2017	**N-916 E**	7H-3606
5/8"	UNF-18	**N-058**	1M-1408	**N-058 E**	7H-3607
3/4"	UNF-16	**N-034**	1S-1860	**N-034 E**	7H-3608
7/8"	UNF-14	**N-078**	2S-2140	**N-078 E**	7H-3609
7/8"	UNF-14	**N-078 S**	7G-6442		
1"	UNF-14	**N-254**	1S-6421	**N-254 E**	2M-5656
1"	UNF-14	**N-254 S**	7G-0343		
1-1/8"	UNF-12	**N-041**	70671868		
1-1/8"	UNF-12	**N-041 S**	5P-8221		

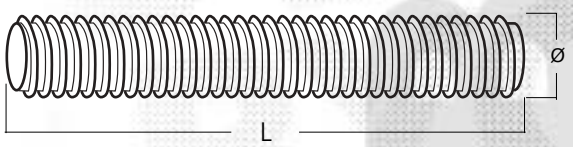
Square and Hexagonal Nuts: Metric Thread

Ø	Thread	BYG	OEM	BYG	OEM
M-10	1.00	**N-010**	577156		
M-12	1.00	**N-012**	79031163		
M-14	1.50	**N-014**	372938396		
M-18	1.50	**N-018**	4982325	**N-018 E**	135-32-11221
M-19	1.50			**N-019 E**	150-32-21331
M-20	1.50	**N-020**	4981731	**N-020 E**	01803-02026
M-22	1.50			**N-022 E**	170-32-11222
M-24	1.50	**N-024**	178-32-11220		
M-27	1.50	**N-027**	195-32-11221	**N-027 K**	195-32-11220
M-30	2.00	**N-030**			

Most common reference numbers appear in **Bold**

Threaded Rods for Caterpillar Machines

10.9 Quality
Pretensile Strength
150.000 P.S.I. (105 Kg/mm^2)
Elastic Load Limit
120.000 P.S.I. (84 Kg/mm^2)
Rockwell Hardness
C32-36

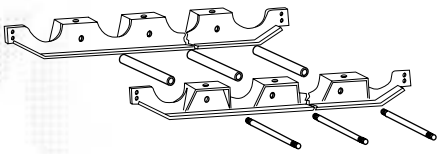


Threaded Rods for Caterpillar Machines

L	ø **3/8"**	ø **1/2"**	ø **5/8"**	ø **3/4"**	L mm.
	Thread UNC - 16	Thread UNC - 13	Thread UNC - 11	Thread UNC - 10	
1-9/16"	**2M-1538**	**8M-8778**			39,7
1-3/4"	**2M-4779**	**2D-8153**			44,4
2"	**1J-8668**	**3D-0490**			50,8
2-3/16"	**4M-2743**	**5M-1932**	**3D-4639**		55,6
2-3/8"	**8M-1871**	**2D-8154**	**2D-8822**		60,3
2-5/8"	**3M-0496**	**4J-6925**	**2D-5238**	**4D-6579**	66,7
2-13/16"	**7S-6719**	**3D-0472**	**4D-4823**	**2D-8369**	71,4
2-15/16"	**9M-3296**	**3D-6627**	**6L-7655**	**4D-6578**	74,6
3-1/8"	**2M-8411**	**2D-8426**	**3J-8154**	**4D-7246**	79,4
3-9/16"	**2M-2488**	**2D-8155**	**3D-5963**	**5J-6796**	90,5
4"	**6L-4428**	**3D-0471**	**5P-3887**	**2P-1303**	101,6

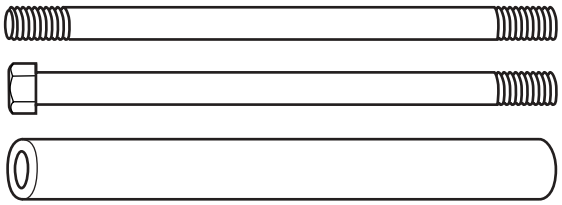
Most common reference numbers appear in **Bold**

Track Guard Rods, Bolts and Pipes



12.9 Quality

Pretensile Strength
170.000 P.S.I. (120 Kg/mm^2)
Elastic Load Limit
140.000 P.S.I. (100 Kg/mm^2)
Rockwell Hardness
C32-36

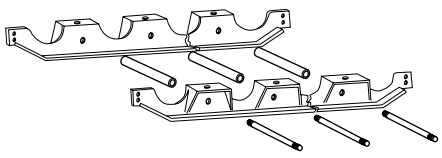


Caterpillar: Track Guard Rods, Bolts and Pipes

D4C, D4D	**8H-1360**		**2F-0027**
D4E, 941		**5K-7144**	**5K-7247**
D5	**8H-1381**		**4S-6559**
D5H	**5P-7971**		**4S-6559**
D5B		**6K-0953**	**3A-2327**
D6B	**8H-1381**		**4S-6559**
D6C, 955L	**7M-2531**		**7M-2530**
D6H	**3W-4144**		**7G-4355**
D7E, D7F, D7G, D7H, 977K	**8H-1383**		**2F-0025**
D8H	**7S-8020**		**7S-8019**
D8K, 983B	**1P-1013**		**1P-1014**
D9G	**5M-4516**		**5M-4514**
D9G, D9H	**8H-2252**		**5M-4514**
943	**5P-4625**		**7P-7201**
951B, 951C		**6K-0953**	**6K-0952**
953	**5P-4624**		**7P-7368**
955K	**8H-4288**		**8H-1205**
963	**7P-4699**		**7P-4695**
973	**8G-2049**		**7P-5952**
977H, 977K	**8H-1383**	**8H-1383**	**2M-8387**
983	**8H-9478**	**8H-9478**	**7S-4710**

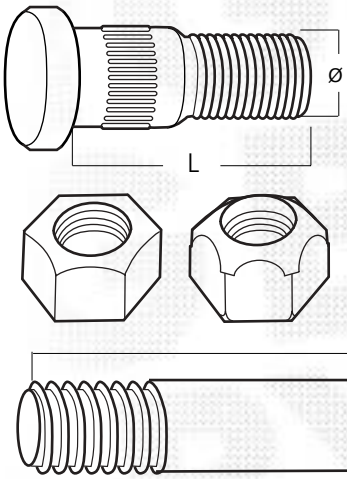
Komatsu: Track Guard Bolts and Pipes

	0920518310	**1413032181**
	1753032162	**1753032151**
	1953012181	**1953012171**



Most common reference numbers appear in **Bold**

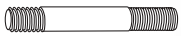
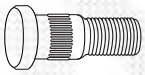
Rim Wheel Loader Bolts, Nuts and Studs



10.9 Quality

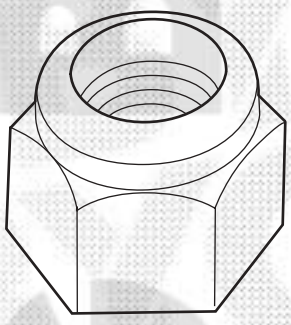
Pretensile Strength
150.000 P.S.I. (105 Kg/mm^2)
Elastic Load Limit
120.000 P.S.I. (84 Kg/mm^2)
Rockwell Hardness
C32-36

Caterpillar: Rim Wheel Studs, Bolts and Nuts

	Ø	Thread	L				
920	3/4"	UNF-16	2-1/8"		**6K-9133**	**6K-9316**	
930 950	3/4"	UNF-16	2-1/2"		**1V-3323**	**6K-9316**	
966C	3/4"	UNF-16	3-1/8"		**4K-6754**		**3K-0453**
980B	3/4"	UNC-UNF	5-1/2"	**7K-3422**			**3K-0453**
988A	1"	UNC-8	4-13/32"	**9M-3948**		*2J-3507*	
988B	1"	UNC-8	4-59/64"	**6D-0419**		*2J-3507*	
769-773	1-5/16"	UNF-12	4"	**4D-8695**		**5D-0765**	

Komatsu: Rim Wheel Studs and Nuts

	Ø	Thread	L mm.		
HD460-465	M-18	2.50	72	*01124-61850*	**01580-11815**
PALAS WA	M-20	2.50	100	**01144-62070**	**423-22-12790**
HD460-465	M-22	1.50 / 2.50	153	**01121-62225**	**569-22-12920**
HD 785	M-27	3.00	175	**562-22-12731**	**562-22-12741**



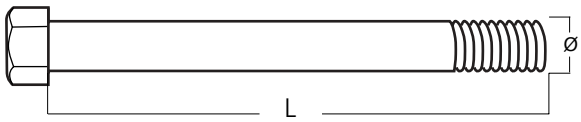
Other Studs

		Ø	Thread	L mm.	
TAMROCK		7/8"		4"	**TMK-78108**
TAMROCK		7/8"		5-1/2"	**TMK-78140**
	WABCO	M-22		150	**WBO-22150**
	PERLINI	M-30	2.50 / 3.00	130	**PD-650 C**
	PERLINI	M-30	2.50 / 3.00	160	**PD-650 L**

Most common reference numbers appear in **Bold**

Other Hexagonal Bolts

12.9 Quality
Pretensile Strength
170.000 P.S.I. (120 Kg/mm^2)
Elastic Load Limit
140.000 P.S.I. (100 Kg/mm^2)
Rockwell Hardness
C35-38

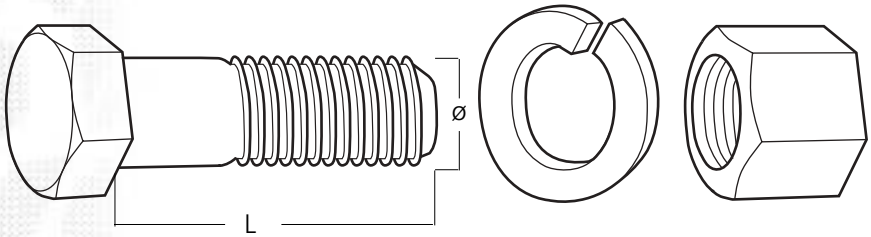


Bolts for Caterpillar Loader 988

Ø	Thread	L	L mm.	
1-1/4"	UNC-7	15"	381	**S-0213**

Agricultural Bolts

12.9 Quality
Pretensile Strength
170.000 P.S.I. (120 Kg/mm^2)
Elastic Load Limit
140.000 P.S.I. (100 Kg/mm^2)
Rockwell Hardness
C35-38

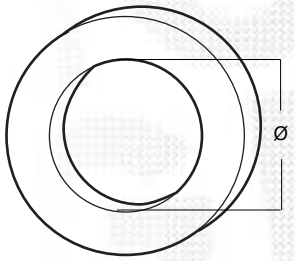


Rotavator Kit for Agricultural Machinery

Ø	Thread	L. mm.	
7/16"	UNF-20	35	**R-716**
1/2"	UNF-20	38	**R-120**
5/8"	UNF-18	45	**R-580**
M-16	1.50	47	**R-016**

Most common reference numbers appear in **Bold**

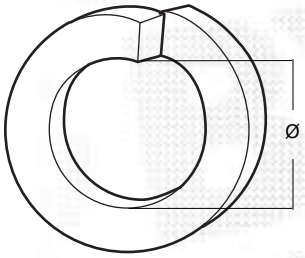
HD Flat Washers



10.9 Quality

Pretensile Strength
150.000 P.S.I. (105 Kg/mm^2)
Elastic Load Limit
120.000 P.S.I. (84 Kg/mm^2)
Rockwell Hardness
C32-36

HD Spring Washers



12.9 Quality

Pretensile Strength
170.000 P.S.I. (120 Kg/mm^2)
Elastic Load Limit
140.000 P.S.I. (100 Kg/mm^2)
Rockwell Hardness
C35-38

Heavy Duty Washers

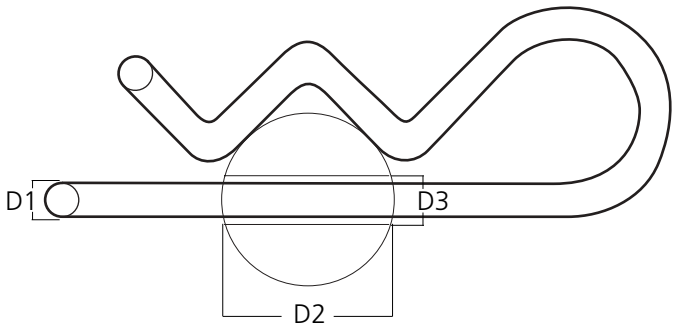
Ø	Ø mm.	BYG	OEM	BYG	OEM
1/4"	7,14	**0-206**	5P-0537	**0-14**	3B-4504
5/16"	8,73	**0-207**	9M-1974	**0-31**	3B-4505
3/8"	9,92	**0-208**	5M-2894	**0-37**	3B-4506
M-10	10,40			**0-10**	
7/16"	11,90	**0-210**	5P-8244	**0-43**	3B-4507
1/2"	13,49	**0-212**	5P-8245	**0-52**	3B-4508
9/16"	15,08	**0-214**	5P-8246	**0-56**	3B-4509
5/8"	16,66	**0-216**	5P-8247	**0-62**	3B-4510
M-18	19,00	**0-218**			
3/4"	19,84	**0-219**	5P-8248	**0-75**	3B-4512
M-20	20,80			**0-20**	
7/8"	23,81	**0-222**	5P-8249	**0-87**	3B-4514
1"	26,98	**0-254**	5P-8250	**0-25**	3B-4516
M-27	29,00	**0-227**			
1-1/8"	30,16	**0-300**	3S-1349	**0-12**	3B-4518
1-1/4"	33,33	**0-320**	4K-0684	**0-11**	3B-4520
M-33	34,10			**0-33**	
1 3/8"	35,93	**0-350**			
1-1/2"	39,68	**0-325**		**0-15**	3B-4524
1-5/8"	43,28	**0-413**			
1-3/4"	47,45	**0-440**			
2"	52,80	**0-508**			
2-1/8"	54,98	**0-540**			
2-1/4"	58,15	**0-572**			

Most common reference numbers appear in **Bold**

Steel Locking Pins

Steel Locking Pins

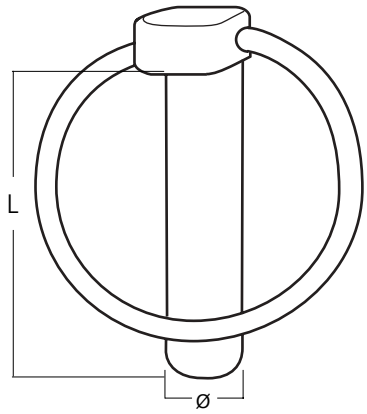
mm.			
D1	D2	D3	
2	14	2,5	**CLA-201**
3	18	3,5	**CLA-202**
3,5	20	4	**CLA-203**
4	26	4,5	**CLA-204**
4,5	27	5,2	**CLA-205**
5	30	6	**CLA-206**
6	32	7	**CLA-207**



Snap Ring Pins

Snap Ring Pins

mm		
Ø	L	
4,5	31	**PA-100**
5,7	37	**PA-101**
7	37	**PA-102**
7,8	46	**PA-103**
8,8	46	**PA-104**
9,8	46	**PA-105**
10,8	46	**PA-106**



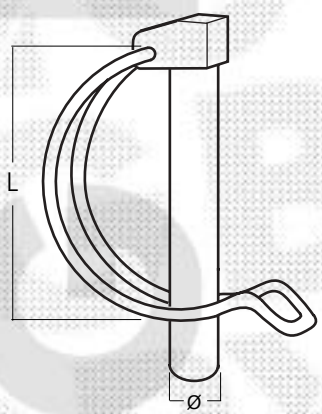
Most common reference numbers appear in **Bold**

22/2/2002

Clip Retainers

Clip Retainers

mm Ø	L	
8	40	**PCE-301**
8	50	**PCE-302**
8	60	**PCE-303**
9	40	**PCE-304**
9	50	**PCE-305**
9	60	**PCE-306**
10	40	**PCE-307**
10	50	**PCE-308**
10	60	**PCE-309**
12	40	**PCE-310**
12	50	**PCE-311**
12	60	**PCE-312**



Most common reference numbers appear in **Bold**

Conversion Inches / Milimeters

Inch Fractions		mm.												
		0"	**1"**	**2"**	**3"**	**4"**	**5"**	**6"**	**7"**	**8"**	**9"**	**10"**	**11"**	**12"**
(0)	0	0,00	25,40	50,80	76,20	101,60	127,00	152,40	177,80	203,20	228,60	254,00	279,40	304,80
1/64	0,015625	0,40	25,80	51,20	76,60	102,00	127,40	152,80	178,20	203,60	229,00	254,40	279,80	305,20
1/32	0,03125	0,79	26,19	51,59	76,99	102,39	127,79	153,19	178,59	203,99	229,39	254,79	280,19	305,59
3/64	0,046875	1,19	26,59	51,99	77,39	102,79	128,19	153,59	178,99	204,39	229,79	255,19	280,59	305,99
1/16	0,0625	1,59	26,99	52,39	77,79	103,19	128,59	153,99	179,39	204,79	230,19	255,59	280,99	306,39
5/64	0,078125	1,98	27,38	52,78	78,18	103,58	128,98	154,38	179,78	205,18	230,58	255,98	281,38	306,78
3/32	0,09375	2,38	27,78	53,18	78,58	103,98	129,38	154,78	180,18	205,58	230,98	256,38	281,78	307,18
7/64	0,109375	2,78	28,18	53,58	78,98	104,38	129,78	155,18	180,58	205,98	231,38	256,78	282,18	307,58
1/8	0,125	3,18	28,58	53,98	79,38	104,78	130,18	155,58	180,98	206,38	231,78	257,18	282,58	307,98
9/64	0,140625	3,57	28,97	54,37	79,77	105,17	130,57	155,97	181,37	206,77	232,17	257,57	282,97	308,37
5/32	0,15625	3,97	29,37	54,77	80,17	105,57	130,97	156,37	181,77	207,17	232,57	257,97	283,37	308,77
11/64	0,171875	4,37	29,77	55,17	80,57	105,97	131,37	156,77	182,17	207,57	232,97	258,37	283,77	309,17
3/16	0,1875	4,76	30,16	55,56	80,96	106,36	131,76	157,16	182,56	207,96	233,36	258,76	284,16	309,56
13/64	0,203125	5,16	30,56	55,96	81,36	106,76	132,16	157,56	182,96	208,36	233,76	259,16	284,56	309,96
7/32	0,21875	5,56	30,96	56,36	81,76	107,16	132,56	157,96	183,36	208,76	234,16	259,56	284,96	310,36
15/64	0,234375	5,95	31,35	56,75	82,15	107,55	132,95	158,35	183,75	209,15	234,55	259,95	285,35	310,75
1/4	0,25	6,35	31,75	57,15	82,55	107,95	133,35	158,75	184,15	209,55	234,95	260,35	285,75	311,15
17/64	0,265625	6,75	32,15	57,55	82,95	108,35	133,75	159,15	184,55	209,95	235,35	260,75	286,15	311,55
9/32	0,28125	7,14	32,54	57,94	83,34	108,74	134,14	159,54	184,94	210,34	235,74	261,14	286,54	311,94
19/64	0,296875	7,54	32,94	58,34	83,74	109,14	134,54	159,94	185,34	210,74	236,14	261,54	286,94	312,34
5/16	0,3125	7,94	33,34	58,74	84,14	109,54	134,94	160,34	185,74	211,14	236,54	261,94	287,34	312,74
21/64	0,328125	8,33	33,73	59,13	84,53	109,93	135,33	160,73	186,13	211,53	236,93	262,33	287,73	313,13
11/32	0,34375	8,73	34,13	59,53	84,93	110,33	135,73	161,13	186,53	211,93	237,33	262,73	288,13	313,53
23/64	0,359375	9,13	34,53	59,93	85,33	110,73	136,13	161,53	186,93	212,33	237,73	263,13	288,53	313,93
3/8	0,375	9,53	34,93	60,33	85,73	111,13	136,53	161,93	187,33	212,73	238,13	263,53	288,93	314,33
25/64	0,390625	9,92	35,32	60,72	86,12	111,52	136,92	162,32	187,72	213,12	238,52	263,92	289,32	314,72
13/32	0,40625	10,32	35,72	61,12	86,52	111,92	137,32	162,72	188,12	213,52	238,92	264,32	289,72	315,12
27/64	0,421875	10,72	36,12	61,52	86,92	112,32	137,72	163,12	188,52	213,92	239,32	264,72	290,12	315,52
7/16	0,4375	11,11	36,51	61,91	87,31	112,71	138,11	163,51	188,91	214,31	239,71	265,11	290,51	315,91
29/64	0,453125	11,51	36,91	62,31	87,71	113,11	138,51	163,91	189,31	214,71	240,11	265,51	290,91	316,31
15/32	0,46875	11,91	37,31	62,71	88,11	113,51	138,91	164,31	189,71	215,11	240,51	265,91	291,31	316,71
31/64	0,484375	12,30	37,70	63,10	88,50	113,90	139,30	164,70	190,10	215,50	240,90	266,30	291,70	317,10
1/2	0,5	12,70	38,10	63,50	88,90	114,30	139,70	165,10	190,50	215,90	241,30	266,70	292,10	317,50
33/64	0,515625	13,10	38,50	63,90	89,30	114,70	140,10	165,50	190,90	216,30	241,70	267,10	292,50	317,90
17/32	0,53125	13,49	38,89	64,29	89,69	115,09	140,49	165,89	191,29	216,69	242,09	267,49	292,89	318,29
35/64	0,546875	13,89	39,29	64,69	90,09	115,49	140,89	166,29	191,69	217,09	242,49	267,89	293,29	318,69
9/16	0,5625	14,29	39,69	65,09	90,49	115,89	141,29	166,69	192,09	217,49	242,89	268,29	293,69	319,09
37/64	0,578125	14,68	40,08	65,48	90,88	116,28	141,68	167,08	192,48	217,88	243,28	268,68	294,08	319,48
19/32	0,59375	15,08	40,48	65,88	91,28	116,68	142,08	167,48	192,88	218,28	243,68	269,08	294,48	319,88
39/64	0,609375	15,48	40,88	66,28	91,68	117,08	142,48	167,88	193,28	218,68	244,08	269,48	294,88	320,28
5/8	0,625	15,88	41,28	66,68	92,08	117,48	142,88	168,28	193,68	219,08	244,48	269,88	295,28	320,68
41/64	0,640625	16,27	41,67	67,07	92,47	117,87	143,27	168,67	194,07	219,47	244,87	270,27	295,67	321,07
21/32	0,65625	16,67	42,07	67,47	92,87	118,27	143,67	169,07	194,47	219,87	245,27	270,67	296,07	321,47
43/64	0,671875	17,07	42,47	67,87	93,27	118,67	144,07	169,47	194,87	220,27	245,67	271,07	296,47	321,87
11/16	0,6875	17,46	42,86	68,26	93,66	119,06	144,46	169,86	195,26	220,66	246,06	271,46	296,86	322,26
45/64	0,703125	17,86	43,26	68,66	94,06	119,46	144,86	170,26	195,66	221,06	246,46	271,86	297,26	322,66
23/32	0,71875	18,26	43,66	69,06	94,46	119,86	145,26	170,66	196,06	221,46	246,86	272,26	297,66	323,06
47/64	0,734375	18,65	44,05	69,45	94,85	120,25	145,65	171,05	196,45	221,85	247,25	272,65	298,05	323,45
3/4	0,75	19,05	44,45	69,85	95,25	120,65	146,05	171,45	196,85	222,25	247,65	273,05	298,45	323,85
49/64	0,765625	19,45	44,85	70,25	95,65	121,05	146,45	171,85	197,25	222,65	248,05	273,45	298,85	324,25
25/32	0,78125	19,84	45,24	70,64	96,04	121,44	146,84	172,24	197,64	223,04	248,44	273,84	299,24	324,64
51/64	0,796875	20,24	45,64	71,04	96,44	121,84	147,24	172,64	198,04	223,44	248,84	274,24	299,64	325,04
13/16	0,8125	20,64	46,04	71,44	96,84	122,24	147,64	173,04	198,44	223,84	249,24	274,64	300,04	325,44
53/64	0,828125	21,03	46,43	71,83	97,23	122,63	148,03	173,43	198,83	224,23	249,63	275,03	300,43	325,83
27/32	0,84375	21,43	46,83	72,23	97,63	123,03	148,43	173,83	199,23	224,63	250,03	275,43	300,83	326,23
55/64	0,859375	21,83	47,23	72,63	98,03	123,43	148,83	174,23	199,63	225,03	250,43	275,83	301,23	326,63
7/8	0,875	22,23	47,63	73,03	98,43	123,83	149,23	174,63	200,03	225,43	250,83	276,23	301,63	327,03
57/64	0,890625	22,62	48,02	73,42	98,82	124,22	149,62	175,02	200,42	225,82	251,22	276,62	302,02	327,42
29/32	0,90625	23,02	48,42	73,82	99,22	124,62	150,02	175,42	200,82	226,22	251,62	277,02	302,42	327,82
59/64	0,921875	23,42	48,82	74,22	99,62	125,02	150,42	175,82	201,22	226,62	252,02	277,42	302,82	328,22
15/16	0,9375	23,81	49,21	74,61	100,01	125,41	150,81	176,21	201,61	227,01	252,41	277,81	303,21	328,61
61/64	0,953125	24,21	49,61	75,01	100,41	125,81	151,21	176,61	202,01	227,41	252,81	278,21	303,61	329,01
31/32	0,96875	24,61	50,01	75,41	100,81	126,21	151,61	177,01	202,41	227,81	253,21	278,61	304,01	329,41
63/64	0,984375	25,00	50,40	75,80	101,20	126,60	152,00	177,40	202,80	228,20	253,60	279,00	304,40	329,80

Wear Parts

Futura®

wear technology

Index

Wear Parts

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- Side Pin Teeth 1.7.1

Warranty

In the unlikely event of any of our products failing during normal operation, we will supply a new replacement free of charge.

Steel Technical Information

	HB	Resilience DVM -40º	Rm Kg / mm2	RE Kg / mm2	A %	E %	Equivalence
Teeth (less than 2 Kg.)	477-514	> 28 J / cm^2	> 160	> 140	> 3	> 7	12M / DH2
Adapters (less than 15 Kg.)	477-514	> 28 J / cm^2	> 160	> 140	> 3	> 7	
Teeth (2 to 12 Kg.)	477-514	> 28 J / cm^2	> 160	> 140	> 3	> 7	12S
Weld-On Adapters	388-440	>40 J / cm^2	> 130	> 100	> 4	> 9	12C
Teeth (more than 12 Kg.)	477-527	> 28 J / cm^2	> 170	> 140	> 3	> 7	12S-7 / DH3
Adapters (more than 30 Kg.)	477-527	> 28 J / cm^2	> 170	> 140	> 3	> 7	

All symbols, names and descriptions are only used for references purposes
and it is not implied that any listed parts are the product of these manufacturers.

Bold ref. number product available

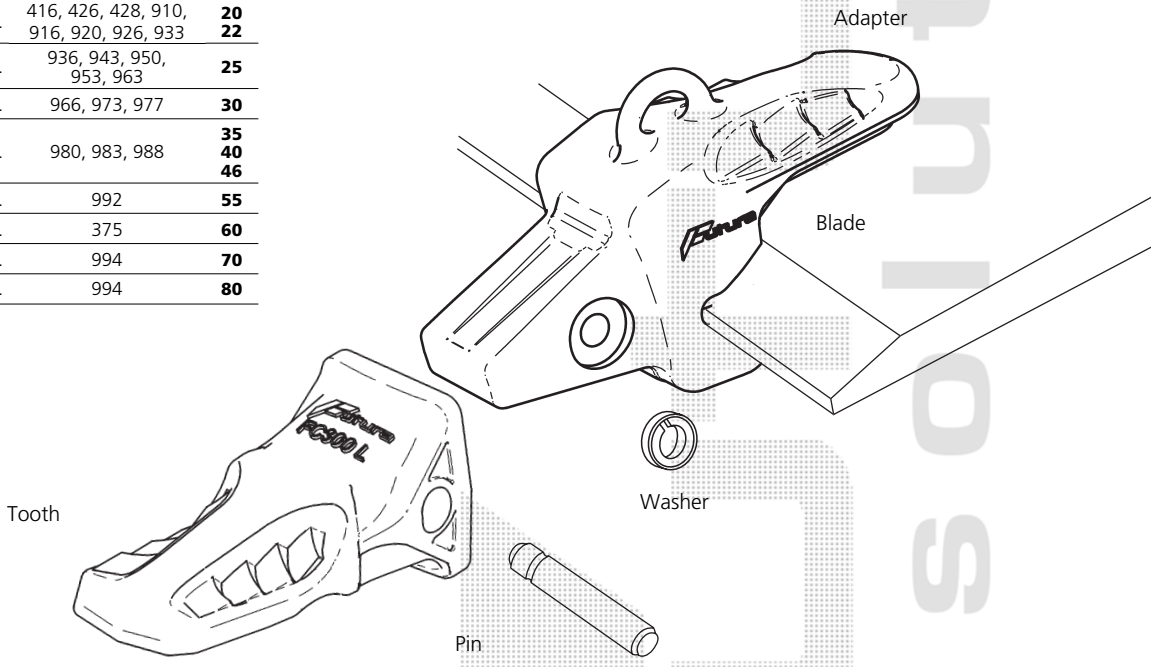
Other ref. numbers please consult

DRP

Caterpillar

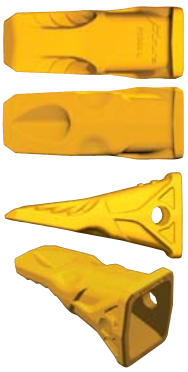
Side Pin Teeth

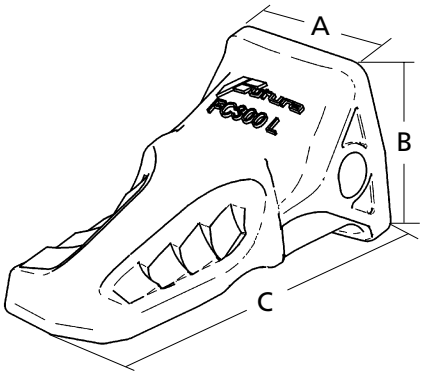
Ton.			
6,500-10,000	20-25 mm.	416, 426, 428, 910, 916, 920, 926, 933	**20 22**
10,000-20,000	25-32 mm.	936, 943, 950, 953, 963	**25**
20,000-23,000	32-40 mm.	966, 973, 977	**30**
25,000-63,500	38-50 mm.	980, 983, 988	**35 40 46**
63,500-90,000	50-64 mm.	992	**55**
90,000-125,000	64-75 mm.	375	**60**
125,000-170,000	64-120 mm.	994	**70**
> 170,000	> 120 mm.	994	**80**



Long	SYL	RP	P	TL	WTL	WT	RC	Adapter	
FC200 L 1U-3202	**FC200 SYL** -	-	-	**FC200 TL** 1U-3202 TL	**FC200 WTL**	-	-	-	**20**
FC220 L 6Y-3222	-	-	-	-	-	-	-	-	**22**
FC250 L 1U-3252	**FC250 SYL** 1U-3252 SYL	**FC250 RP** 4T-2253 RP	**FC250 P** 9J-4259	**FC250 TL** 1U-3252 TL	**FC250 WTL**	-	-	-	**25**
FC300 L 1U-3302	**FC300 SYL** 1U-3302 SYL	**FC300 RP** 4T-2303 RP	**FC300 P** 9J-4309	**FC300 TL** 1U-3302 TL	**FC300 WTL**	-	**FC300 RC** 1U-3302 RC	-	**30**
FC350 L 1U-3352	**FC350 SYL** 1U-3352 SYL	**FC350 RP** 4T-2353 RP	**FC350 P** 9J-4359	**FC350 TL** 1U-3352 TL	**FC350 WTL**	**FC350 WT**	**FC350 RC** 1U-3352 RC	-	**35**
FC400 L 7T-3402	**FC400 SYL** -	**FC400 RP** 4T-3403 RP	**FC400 P** 6Y-7409	**FC400 TL** 7T-3402 TL	**FC400 WTL**	-	**FC400 RC** -	-	**40**
FC450 L 9W-8452	**FC450 SYL** 9W-8452 SYL	**FC450 RP** 9W-1453 RP	**FC450 P** 9W-8459	**FC450 TL** 1U-3452 TL	**FC450 WTL**	-	**FC450 RC** 1U-3452 RC	-	**46**
FC550 L 9W-8552	**FC550 SYL** 9W-8552 SYL	**FC550 RP** -	**FC550 P** 9W-8559	**FC550 TL** 1U-3552 TL	**FC550 WTL**	-	**FC550 RC** 1U-3552 RC	-	**55**
FC600 L 6I-6602	**FC600 SYL** -	**FC600 RP** 6I-6603 RP	**FC600 P** 7I-7609	**FC600 TL** 6I-6602 TL	**FC600 WTL**	-	**FC600 RC** 6I-6602 RC	-	**60**
-	-	**FC700 RP** 4T-4703 RP	**FC700 P** 4T-4709	**FC700 TL** 4T-4702 TL	**FC700 WTL**	-	**FC700 RC** -	**FC700-90 R FC700-90 R RH FC700-90 R LH**	**70**
-	-	**FC800 RP** -	-	-	-	-	-	**FC800 S**	**80**
Pag. 1.1.2	Pag. 1.1.2	Pag. 1.1.3	Pag. 1.1.3	Pag. 1.1.4	Pag. 1.1.4	Pag. 1.1.5	Pag. 1.1.5	Pag. 1.1.6	

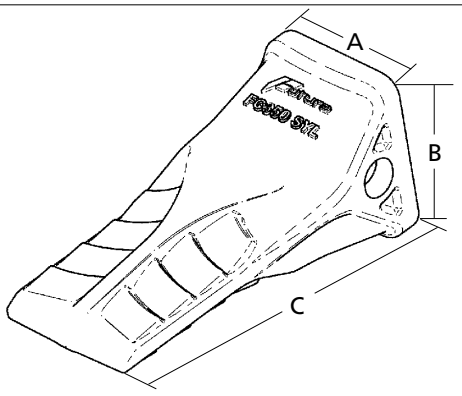
Side Pin Teeth: Long





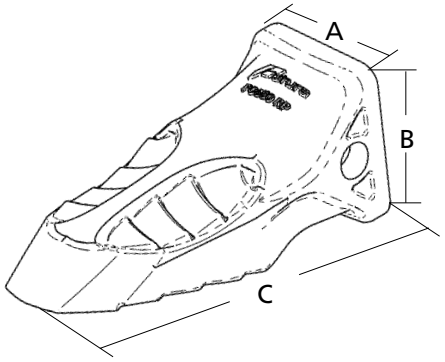
mm. A	B	C	KG lb										
64 2,52"	71 2,80"	155 6,10"	1,55 3,42	**FC200 L** 1U-3202	8E-6208 1U-4208	8E-6209 4T-0001	4T-1204	8J-7525	-	-	9J-4207 8E-2184	-	**20**
75 2,95"	82 3,23"	170 6,69"	2,14 4,72	**FC220 L** 6Y-3222	6Y-3228	8E-6259 3G-9609	-	-	-	6Y-3224	-	-	**22**
80 3,15"	94 3,70"	205 8,07"	3,24 7,14	**FC250 L** 1U-3252	8E-6258 9J-2258	8E-6259 3G-9609	1U-1254	3G-0169	-	6Y-3254	1U-0257	-	**25**
97 3,82"	107 4,21"	221 8,70"	4,31 9,50	**FC300 L** 1U-3302	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
110 4,33"	121 4,76"	251 9,88"	6,65 14,66	**FC350 L** 1U-3352	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	135-9354 /55/56 113-0354 /55/56	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
120 4,72"	131 5,16"	272 10,71"	8,60 18,96	**FC400 L** 9W-8452	7T-3408	8E-8409	-	-	125-8404 /05/06	6I-6404 /05/06	6I-9898	-	**40**
140 5,51"	140 5,51"	304 11,97"	13,00 28,66	**FC450 L** 9W-8452	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	8E-2467	-	**46**
161 6,34"	161 6,34"	350 13,78"	20,15 44,42	**FC550 L** 9W-8552	6Y-8558 1U-1558	8E-5559 3G-9559	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**
181 7,13"	198 7,80"	412 16,22"	29,87 65,85	**FC600 L** 6I-6602	6I-6608	6I-6609	-	-	119-8604/05/06	6I-6604 /05/06 6I-6605 RH/06 LH	-	-	**60**

Side Pin Teeth: SYL



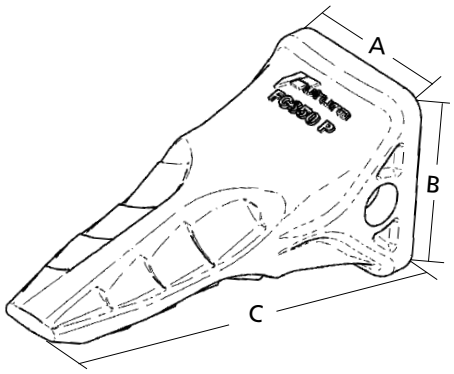
mm. A	B	C	KG lb										
67 2,64"	70 2,76"	155 6,10"	1,95 4,30	**FC200 SYL**	8E-6208 1U-4208	8E-6209 4T-0001	4T-1204	8J-7525	-	-	9J-4207 8E-2184	-	**20**
82 3,23"	103,5 4,07"	210 8,27"	4,10 9,04	**FC250 SYL** 1U-3252 SYL	8E-6258 9J-2258	8E-6259 3G-9609	1U-1254	3G-0169	-	6Y-3254	1U-0257	-	**25**
95 3,74"	110 4,33"	240 9,45"	5,80 12,79	**FC300 SYL** 1U-3302 SYL	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
104 4,09"	120 4,72"	265 10,43"	8,10 17,86	**FC350 SYL** 1U-3352 SYL	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	135-9354 /55/56 113-0354 /55/56	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
132,5 5,22"	139,5 5,49"	307 12,09"	15,35 33,84	**FC400 SYL**	7T-3408	8E-8409	-	-	125-8404 /05/06	6I-6404 /05/06	6I-9898	-	**40**
139 5,47"	146,5 5,77"	322 12,68"	17,00 37,48	**FC450 SYL** 9W-8452 SYL	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	8E-2467	-	**46**
163,5 6,44"	167 6,57"	368 14,49"	26,05 57,43	**FC550 SYL** 9W-8552 SYL	6Y-8558 1U-1558	8E-5559 3G-9559	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**
192 7,56"	195 7,68"	423 16,65"	40,00 88,18	**FC600 SYL**	6I-6608	6I-6609	-	-	119-8604/05/06	6I-6604 /05/06 6I-6605 RH/06 LH	-	-	**60**

Side Pin Teeth: RP



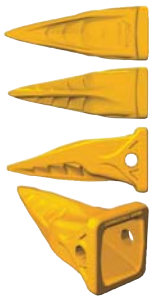
mm. A	B	C	KG lb										
90 *3,54"*	99 *3,90"*	236 *9,29"*	6,10 *13,45*	**FC250 RP** 4T-2253 RP	8E-6258 9J-2258	8E-6259 3G-9609	1U-1254	3G-0169	-	6Y-3254	1U-0257	-	**25**
95 *3,74"*	114 *4,49"*	272 *10,71"*	8,40 *18,52*	**FC300 RP** 4T-2303 RP	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
111 *4,37"*	122 *4,80"*	296 *11,65"*	11,40 *25,13*	**FC350 RP** 4T-2353 RP	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	135-9354 /55/56 113-0354 /55/56	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
125 *4,92"*	136 *5,35"*	326 *12,83"*	16,10 *35,49*	**FC400 RP** 4T-3403 RP	7T-3408	8E-8409	-	-	125-8404 /05/06	6I-6404 /05/06	6I-9898	-	**40**
139,5 *5,49"*	153 *6,02"*	366 *14,41"*	23,60 *52,03*	**FC450 RP** 9W-1453 RP	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	8E-2467	-	**46**
160 *6,30"*	160 *6,30"*	382 *15,04"*	28,50 *62,83*	**FC550 RP** -	6Y-8558 1U-1558	8E-5559 3G-9559	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**
205 *8,07"*	190 *7,48"*	454 *17,87"*	50,40 *111,11*	**FC600 RP** 6I-6603 RP	6I-6608	6I-6609	-	-	119-8604/05/06	6I-6604 /05/06 6I-6605 RH/06 LH	-	-	**60**
216 *8,50"*	209 *8,23"*	499 *19,65"*	61,02 *134,52*	**FC700 RP** 4T-4703 RP	4T-4708	4T-4707	-	-	133-0704 /05/06 100-7416 /RH/LH	-	-	-	**70**
248 *9,76"*	240 *9,45"*	574 *22,60"*	95,62 *210,80*	**FC800 RP** -	134-1808	134-1809	-	-	6I-8804	-	-	-	**80**

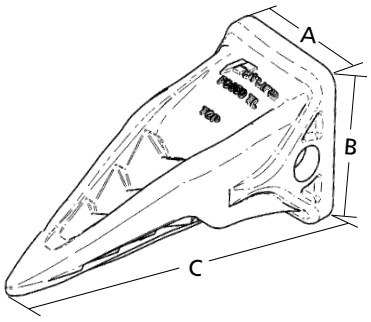
Side Pin Teeth: P



mm. A	B	C	KG lb										
81 *3,19"*	26 *1,02"*	205 *8,07"*	2,88 *6,35*	**FC250 P** 9J-4259	8E-6258 9J-2258	8E-6259 3G-9609	1U-1254	3G-0169	-	6Y-3254	1U-0257	-	**25**
93 *3,66"*	109 *4,29"*	230 *9,06"*	4,20 *9,26*	**FC300 P** 9J-4309	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
104 *4,09"*	122 *4,80"*	256 *10,08"*	6,00 *13,23*	**FC350 P** 9J-4359	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	135-9354 /55/56 113-0354 /55/56	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
120 *4,72"*	137 *5,39"*	289 *11,38"*	9,10 *20,06*	**FC400 P** 6Y-7409	7T-3408	8E-8409	-	-	125-8404 /05/06	6I-6404 /05/06	6I-9898	-	**40**
134 *5,28"*	149 *5,87"*	315 *12,40"*	13,00 *28,66*	**FC450 P** 9W-8459	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	8E-2467	-	**46**
159 *6,26"*	164 *6,46"*	345 *13,58"*	18,80 *41,45*	**FC550 P** 9W-8559	6Y-8558 1U-1558	8E-5559 3G-9559	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**
191 *7,52"*	186 *7,32"*	393 *15,47"*	28,40 *62,61*	**FC600 P** 7I-7609	6I-6608	6I-6609	-	-	119-8604/05/06	6I-6604 /05/06 6I-6605 RH/06 LH	-	-	**60**
208 *8,19"*	203 *7,99"*	428 *16,85"*	38,20 *84,22*	**FC700 P** 4T-4709	4T-4708	4T4707	-	-	133-0704 /05/06 100-7416 /RH/LH	-	-	-	**70**

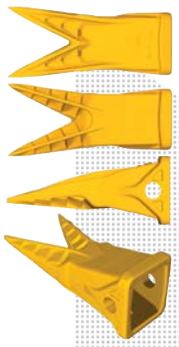
Side Pin Teeth: TL

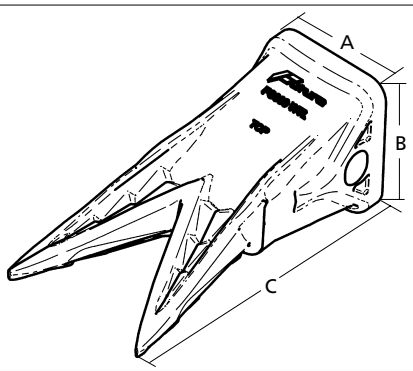




mm. A	B	C	KG lb										
61 *2,40"*	70 *2,76"*	165 *6,50"*	1,30 *2,87*	**FC200 TL** 1U-3202 TL	8E-6208 1U-4208	8E-6209 4T-0001	4T-1204	8J-7525	-	-	9J-4207 8E-2184	-	**20**
81 *3,19"*	93 *3,66"*	220 *8,66"*	3,00 *6,61*	**FC250 TL** 1U-3252 TL	8E-6258 9J-2258	8E-6259 3G-9609	1U-1254	3G-0169	-	6Y-3254	1U-0257	-	**25**
92 *3,62"*	105 *4,13"*	248 *9,76"*	3,60 *7,94*	**FC300 TL** 1U-3302 TL	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
105 *4,13"*	121 *4,76"*	285 *11,22"*	6,00 *13,23*	**FC350 TL** 1U-3352 TL	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	135-9354 /55/56 113-0354 /55/56	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
123 *4,84"*	141 *5,55"*	333 *13,11"*	10,30 *22,71*	**FC400 TL** 7T-3402 TL	7T-3408	8E-8409	-	-	125-8404 /05/06	6I-6404 /05/06	6I-9898	-	**40**
132 *5,20"*	151 *5,94"*	356 *14,02"*	12,10 *26,68*	**FC450 TL** 1U-3452 TL	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	8E-2467	-	**46**
156 *6,14"*	164 *6,46"*	390 *15,35"*	17,50 *38,58*	**FC550 TL** 1U-3552 TL	6Y-8558 1U-1558	8E-5559 3G-9559	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**
186 *7,32"*	195 *7,68"*	463 *18,23"*	27,80 *61,29*	**FC600 TL** 6I-6602 TL	6I-6608	6I-6609	-	-	119-8604/05/06	6I-6604 /05/06 6I-6605 RH/06 LH	-	-	**60**
206 *8,11"*	216 *8,50"*	511 *20,12"*	41,10 *90,61*	**FC700 TL** 4T-4702 TL	4T-4708	4T4707	-	-	133-0704 /05/06 100-7416 /RH/LH	-	-	-	**70**

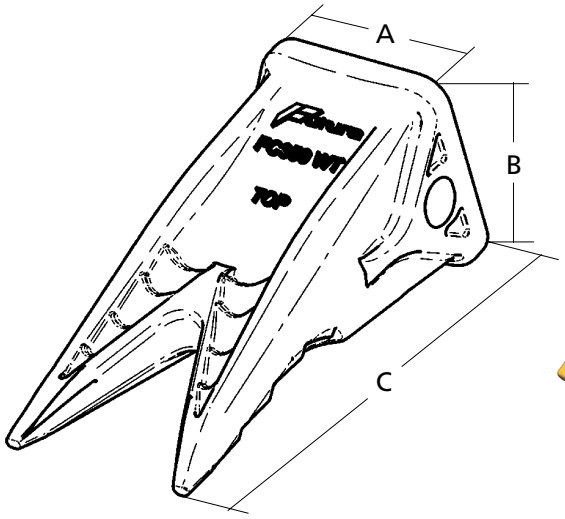
Side Pin Teeth: WTL

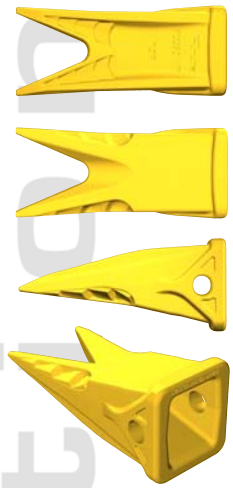




mm. A	B	C	KG lb										
61 *2,40"*	70 *2,76"*	165 *6,50"*	1,51 *3,33*	**FC200 WTL**	8E-6208 1U-4208	8E-6209 4T-0001	4T-1204	8J-7525	-	-	9J-4207 8E-2184	-	**20**
82 *3,23"*	94 *3,70"*	220 *8,66"*	3,52 *7,76*	**FC250 WTL**	8E-6258 9J-2258	8E-6259 3G-9609	1U-1254	3G-0169	-	6Y-3254	1U-0257	-	**25**
92 *3,62"*	106 *4,17"*	249 *9,80"*	4,73 *10,43*	**FC300 WTL**	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
105 *4,13"*	120 *4,72"*	284 *11,18"*	7,56 *16,67*	**FC350 WTL**	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	135-9354 /55/56 113-0354 /55/56	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
124 *4,88"*	142 *5,59"*	335 *13,19"*	13,20 *29,10*	**FC400 WTL**	7T-3408	8E-8409	-	-	125-8404 /05/06	6I-6404 /05/06	6I-9898	-	**40**
132 *5,20"*	151 *5,94"*	355 *13,98"*	15,10 *33,29*	**FC450 WTL**	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	8E-2467	-	**46**
155 *6,10"*	164 *6,46"*	388 *15,28"*	20,78 *45,81*	**FC550 WTL**	6Y-8558 1U-1558	8E-5559 3G-9559	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**
185 *7,28"*	195 *7,68"*	462 *18,19"*	35,09 *77,36*	**FC600 WTL**	6I-6608	6I-6609	-	-	119-8604/05/06	6I-6604 /05/06 6I-6605 RH/06 LH	-	-	**60**
204 *8,03"*	216 *8,50"*	510 *20,08"*	50,30 *110,89*	**FC700 WTL**	4T-4708	4T4707	-	-	133-0704 /05/06 100-7416 /RH/LH	-	-	-	**70**

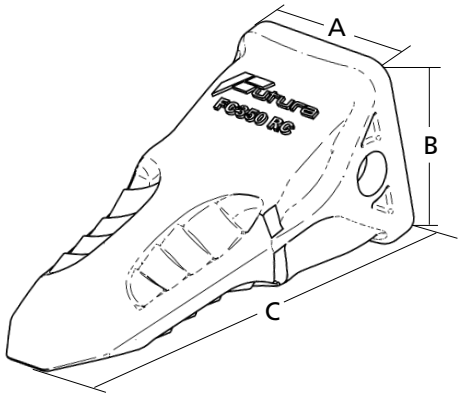
Side Pin Teeth: WT





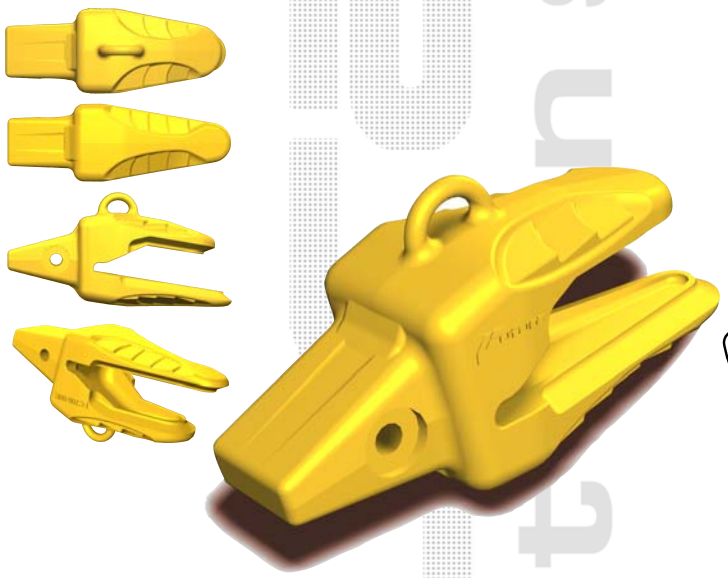
mm. A	B	C	KG lb										
114 *4,49"*	121 *4,76"*	271 *10,67"*	8,34 *18,39*	**FC350 WT**	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	135-9354 /55/56 113-0354 /55/56	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**

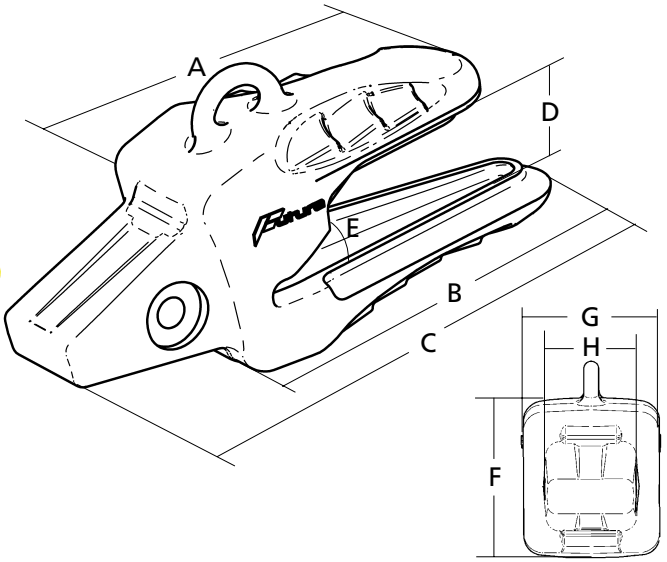
Side Pin Teeth: RC



mm. A	B	C	KG lb										
93 *3,66"*	108 *4,25"*	248 *9,76"*	5,90 *13,01*	**FC300 RC** 1U-3302 RC	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
104 *4,09"*	122 *4,80"*	281 *11,06"*	8,80 *19,40*	**FC350 RC** 1U-3352 RC	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	135-9354 /55/56 113-0354 /55/56	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
115 *4,53"*	134 *5,28"*	309 *12,17"*	11,60 *25,57*	**FC400 RC** 7T-3402 RC	7T-3408	8E-8409	-	-	125-8404 /05/06	6I-6404 /05/06	6I-9898	-	**40**
140 *5,51"*	143 *5,63"*	330 *12,99"*	17,30 *38,14*	**FC450 RC** 1U-3452 RC	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	8E-2467	-	**46**
170 *6,69"*	168 *6,61"*	384 *15,12"*	30,30 *66,80*	**FC550 RC** 1U-3552 RC	6Y-8558 1U-1558	8E-5559 3G-9559	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**
204 *8,03"*	201 *7,91"*	463 *18,23"*	52,70 *116,18*	**FC600 RC** 6I-6602 RC	6I-6608	6I-6609	-	-	119-8604/05/06	6I-6604 /05/06 6I-6605 RH/06 LH	-	-	**60**
212 *8,35"*	209 *8,23"*	481 *18,94"*	56,50 *124,56*	**FC700 RC** -	4T-4708	4T4707	-	-	133-0704 /05/06 100-7416 /RH/LH	-	-	-	**70**

Weld-On Excavator Adapters

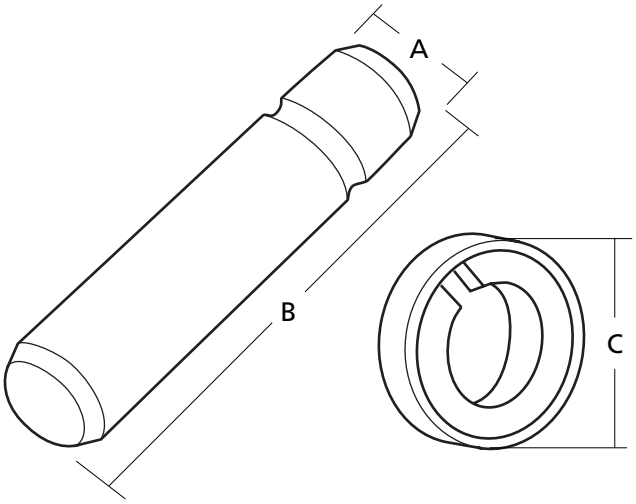




mm. A	B	C	D	E	F	G	H		KG lb		Cen	Right	Left	Right	Left		
384 *846,56*	424 *934,74*	627 *1382,28*	94 *207,23*		136 *299,82*	212 *467,37*	247 *544,53*		79,00 *174,16*	**FC700-90 R**	●	-	-	-	-		
384 *846,56*	424 *934,74*	627 *1382,28*	94 *207,23*	31°	136 *299,82*	212 *467,37*	246 *542,33*	90 *198,41*	80,00 *176,37*	**FC700-90 R RH**	-	-	-	●	-		**70**
384 *846,56*	424 *934,74*	628 *1384,48*	94 *207,23*		136 *299,82*	213 *469,58*	249 *548,94*		80,00 *176,37*	**FC700-90 R LH**	-	-	-	-	●		
519 *1144,18*	360 *793,65*	699 *1541,01*	105 *231,48*	23°	148 *326,28*	240 *529,10*	265 *584,22*	100 *220,46*	107,00 *235,89*	**FC800 S**	●						**80**

Wear Parts

Pin & Washers



mm. A	B	C			
11 *0,43"*	61 *2,40"*	22 *0,87"*	**8E-6208** 1U-4208	**8E-6209** 4T-0001	**20** J200
14 *0,55"*	69 *2,72"*	30 *1,18"*	*6Y-3228*	**8E-6259** 3G-9609	**22** J225
14 *0,55"*	78 *3,07"*	30 *1,18"*	**8E-6258** 9J-2258	**8E-6259** 3G-9609	**25** J250
14 *0,55"*	92 *3,62"*	30 *1,18"*	**107-3308** 9J-2308	**8E-6259** 3G-9609	**30** J300
19 *0,75"*	108 *4,25"*	40 *1,57"*	**8E-6358** 9J-2358	**8E-6359** 3G-9549	**35** J350
22 *0,87"*	119 *4,69"*	42 *1,65"*	**7T-3408**	**8E-8409**	**40** J400
19 *0,75"*	135 *5,31"*	40 *1,57"*	**9W-8296** 4T-1458	**8E-6359** 3G-9549	**45** J450
24 *0,94"*	141 *5,55"*	44 *1,73"*	**8E-0468**	**8E-8469**	**46** J460
25 *0,98"*	162 *6,38"*	53 *2,09"*	**6Y-8558** 1U-1558	**8E-5559** 3G-9559	**55** J550
30 *1,18"*	195 *7,68"*	59 *2,32"*	**6I-6608**	**6I-6609**	**60** J600
32 *1,26"*	200 *7,87"*	70 *2,76"*	**4T-4708**	**4T-4707**	**70** J700
- -	- -	- -	*102-0101*	*101-2874*	**80** J800

Heavy Duty Pin & Washers

Fig. 1

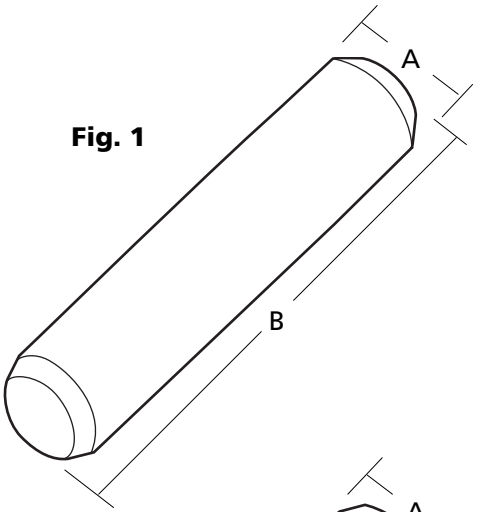
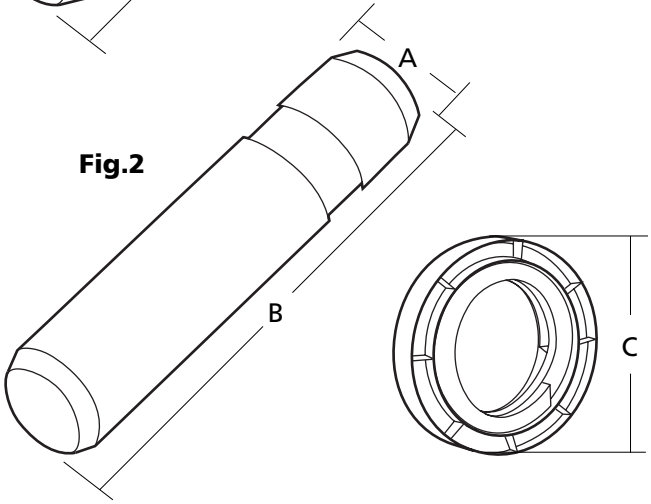


Fig.2



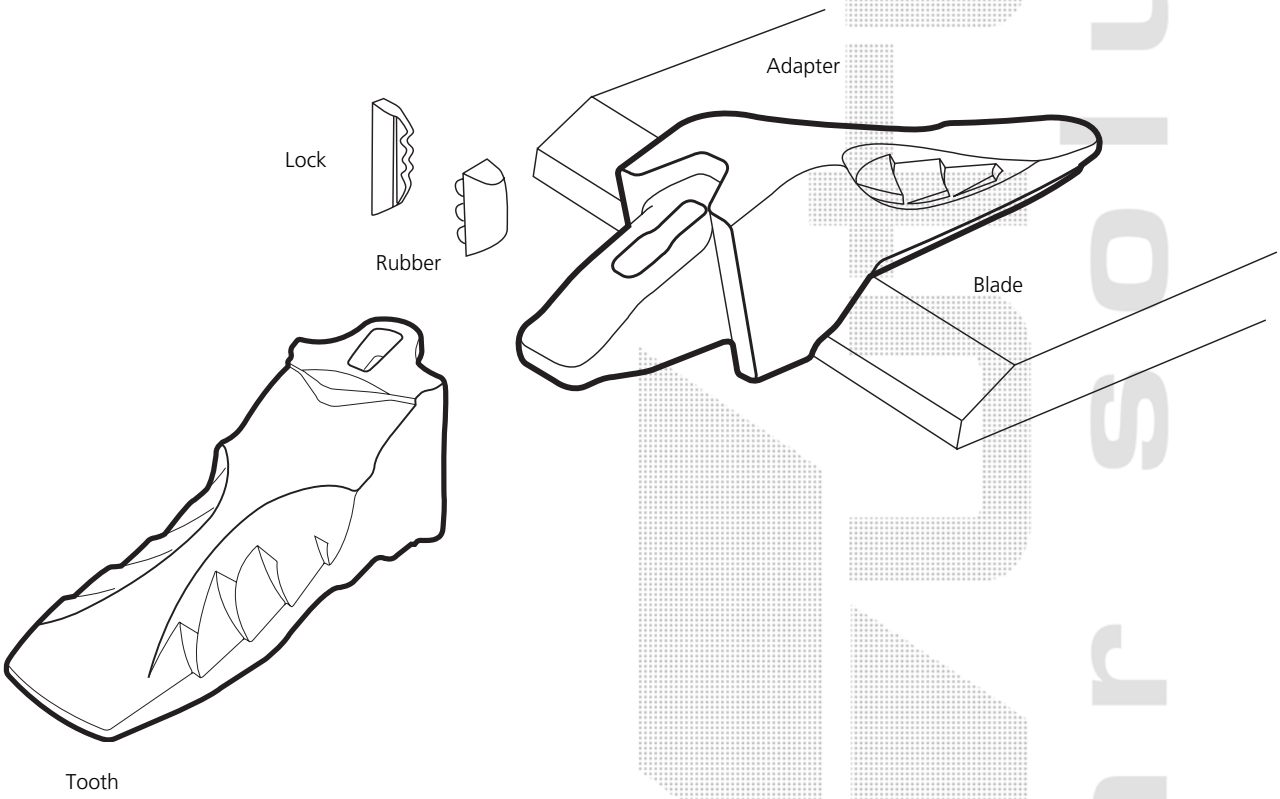
mm. A	B	C	Fig. 1	Fig. 2		
14 *0,55"*	69 *2,72"*	30 *1,18"*	**132-4762**	-	**133-0699**	**22** J225
14 *0,55"*	78 *3,07"*	30 *1,18"*	**132-4763**	-	**133-0699**	**25** J250
14 *0,55"*	92 *3,62"*	30 *1,18"*	**132-4766**	-	**133-0699**	**30** J300
19 *0,75"*	108 *4,25"*	40 *1,57"*	-	**114-0358**	**114-0359**	**35** J350
22 *0,87"*	119 *4,69"*	42 *1,65"*	-	**116-7408**	**116-7409**	**40** J400
24 *0,94"*	135 *5,31"*	44 *1,73"*	-	**114-0468**	**107-3469**	**46** J460
25 *0,98"*	162 *6,38"*	53 *2,09"*	-	**107-3378**	**107-8559**	**55** J550
30 *1,18"*	195 *7,68"*	59 *2,32"*	-	**113-9608**	**113-9609**	**60** J600
32 *1,26"*	200 *7,87"*	70 *2,76"*	-	**4T-4708**	**113-4709**	**70** J700
35 *1,38"*	240 *9,45"*	70 *2,76"*	-	**134-1808**	**134-1809**	**80** J800

Bold ref. number product available
Other ref. number please consult

DRP

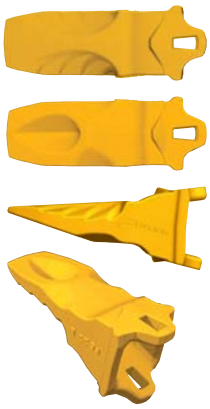
Caterpillar

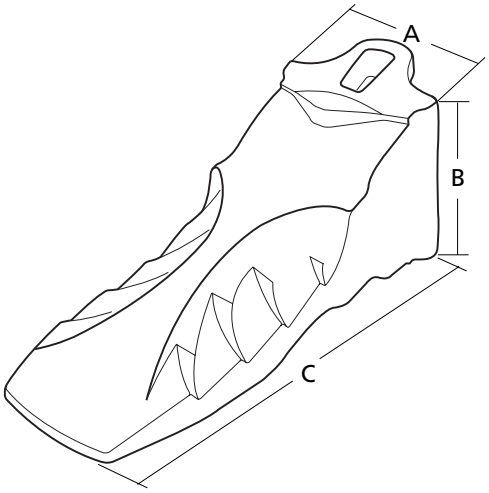
Teeth and Adapters
Vertical Pin System



Long	Vip	Two Strap Loader	Flush	Two strap Excavator	
FC23 L 4K-6936	**FC23 P**	**FC23**	**FC23 F**	**FC23 R** P-23	910, 920, 922, 931, 933, 941
FC34 L 4K-0034	-	-	-	-	930, 944, 950, 951, 955, 966,
Pag. 1.1.10	Pag. 1.1.10	Pag. 1.1.11	Pag. 1.1.11	Pag. 1.1.12	

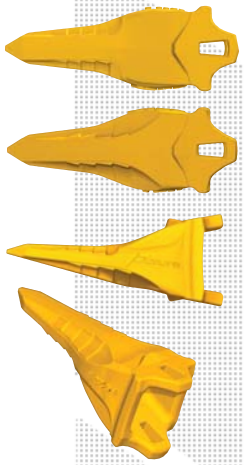
Vertical Pin Teeth: Long

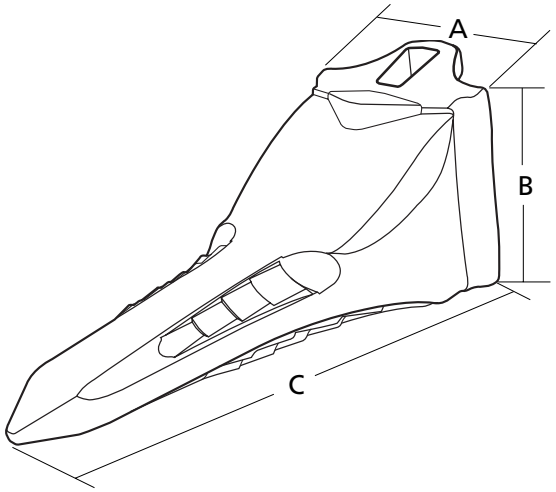




mm. A	B	C	KG lb							
60 *2,36"*	78 *3,07"*	180 *7,09"*	1,45 *3,20*	**FC23 L** 4K-6936	4K-0043	4K-0041	FC23	FC23 F	FC23 R	910, 920, 922, 931, 933, 941
72 *2,83"*	77 *3,03"*	189 *7,44"*	2,10 *6,50*	**FC34 L** 4K-0034	4K-0043	4K-0041	-	-	-	930, 944, 950, 951, 955, 966

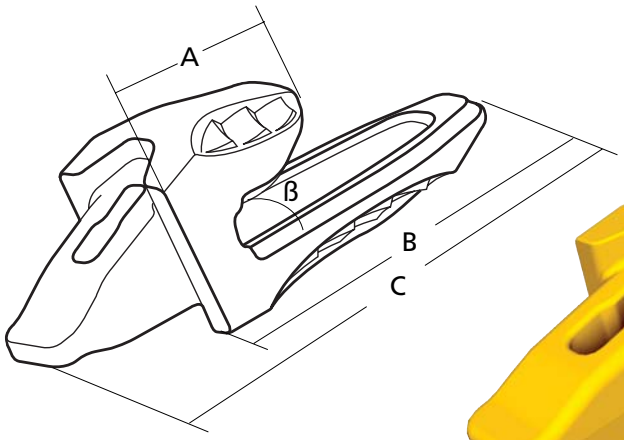
Vertical Pin Teeth: Vip

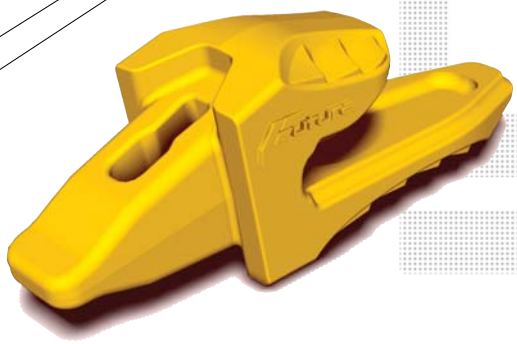




mm. A	B	C	KG lb							
60 *2,36"*	75 *2,95"*	180 *7,09"*	1,20 *2,65*	**FC23 P**	4K-0043	4K-0041	FC23	FC23 F	FC23 R	910, 920, 922, 931, 933, 941

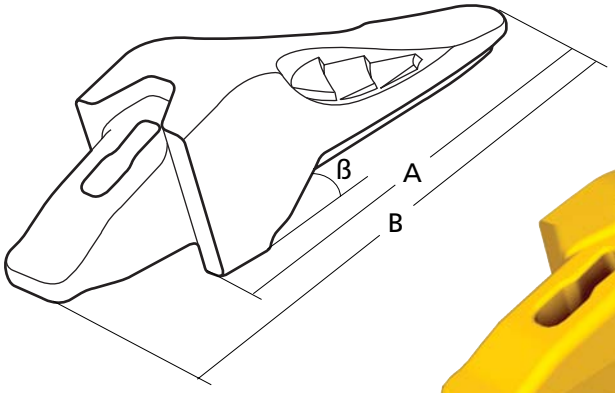
Bottom Strap Weld-On Adapters

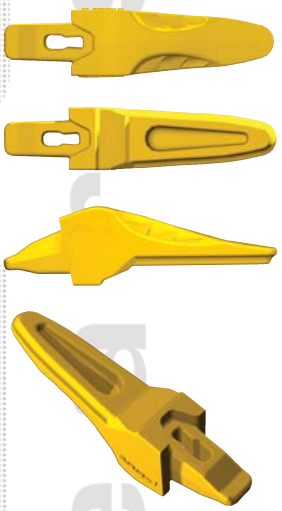




mm. A	B	C	ß			KG lb						
85 *3,35"*	160 *6,30"*	230 *9,06"*	25°	13 *0,51"*	20 *0,79"*	2,50 *5,51*	**FC23** P-23	4K-0043	4K-0041	FC23 L	FC23 P	910, 920, 922, 931, 933, 941

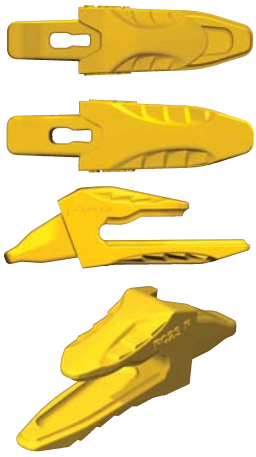
Weld-On Flush Mount Adapters

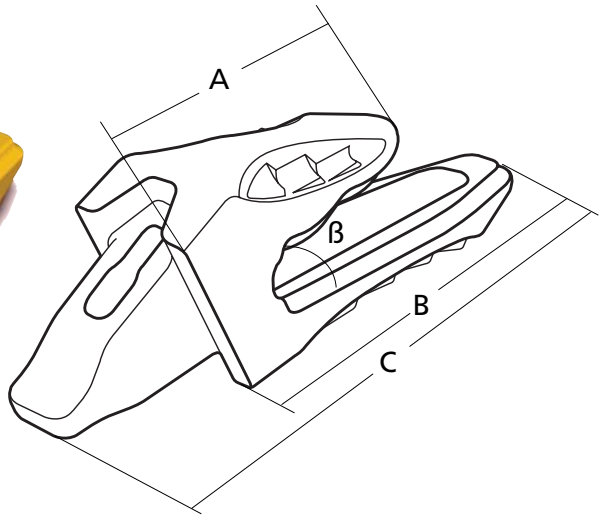




mm. A	B	ß			KG lb						
202 *7,95"*	273 *10,75"*	25°	13 *0,51"*	20 *0,79"*	3,55 *7,83*	**FC23 F**	4K-0043	4K-0041	FC23 L	FC23 P	910, 920, 922, 931, 933, 941

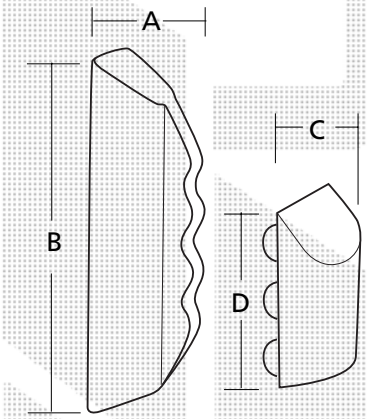
Weld-On Excavator Adapters





mm. A	B	C	ß		KG lb						
125 *4,92"*	158 *6,22"*	232 *9,13"*	25°	13 *0,51"*	20 *0,79"*	2,85 *6,28*	**FC23 R**	4K-0043	4K-0041	FC23 L	FC23 P	910, 920, 922, 931, 933, 941

Lock & Rubber



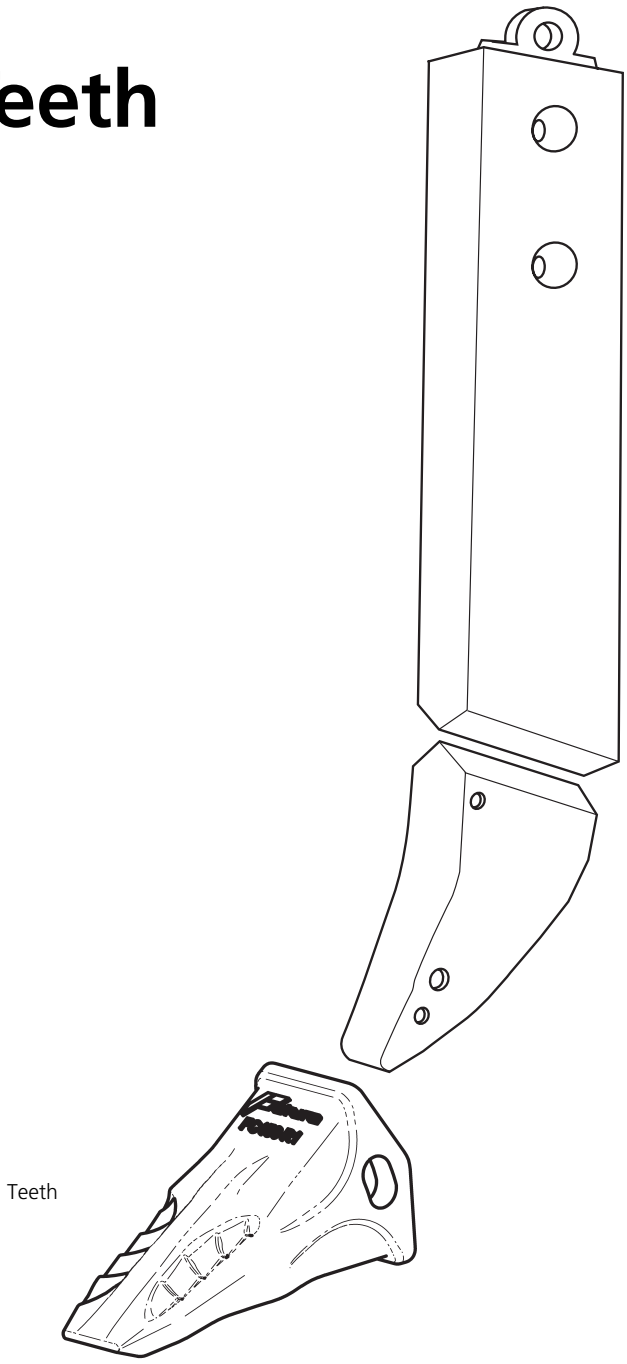
mm. A	B	C	D		
18	68	20,5	44	**4K-0043**	**4K-0041**

wear solutions

Bold ref. number product available
Other ref. number please consult.

DRP
Rippers Caterpillar

Teeth

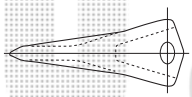


Teeth

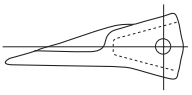
Ripper shank Components

R1	R2		
-	**FC300 R2** 4T-4302 6Y-0309	D4 963, 14, 12	**R300**
	FC350 R2 6Y-0352 6Y-0359	D5, D6, 973, 16, 977, D7	**R350**
FC450 R1 9W-2451 4T-5451	-	D8, D8 L, D9, D8 K, D8C, D8 N, D9 H, D9 N	**R450**
-	**FC450 R2** 9W-2452 4T-5452		
FC500 R1 4T-4501 4T-5501	-	D10 N	**R500**
-	**FC500 R2** 4T-4502 4T-5502		
FC550 R1 9W-4551	-	D10 N, D11SS	**R550**
-	**FC550 R2** 9W-4552 6Y-3552		
Pag. 1.1.14	Pag. 1.1.14		

Ripper Teeth



Symmetric teeth: more wear material



Penetration teeth: good penetration

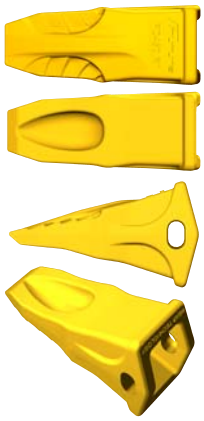
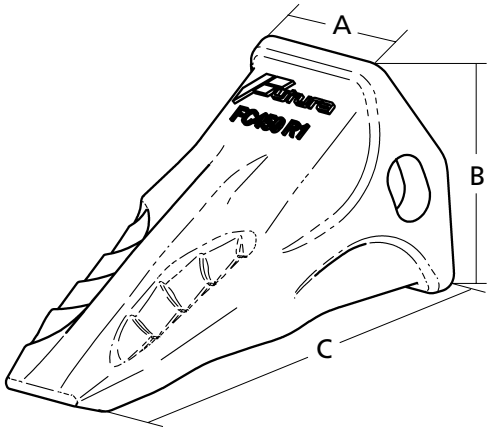


Fig. 1



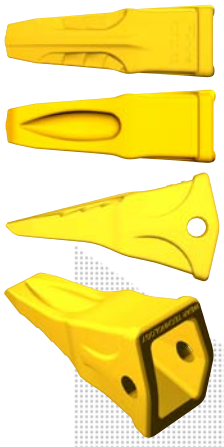
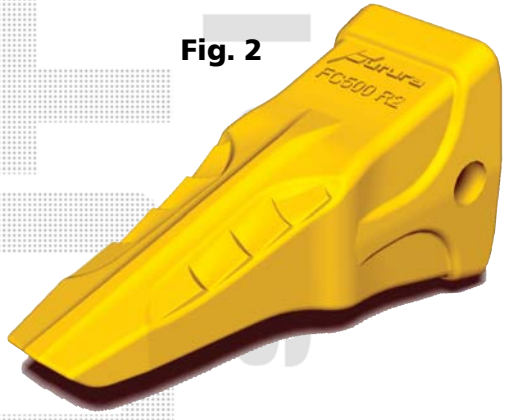
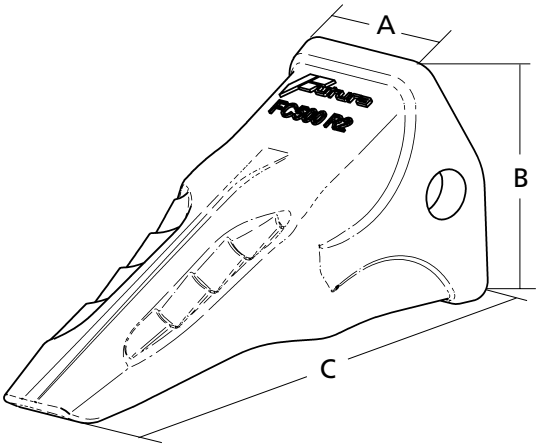


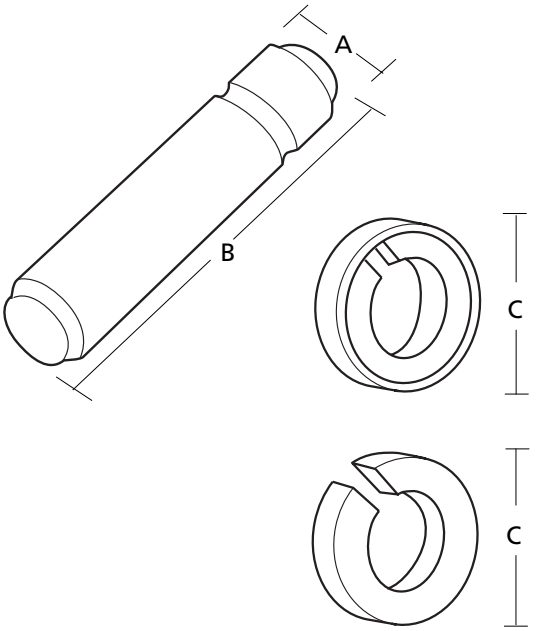
Fig. 2

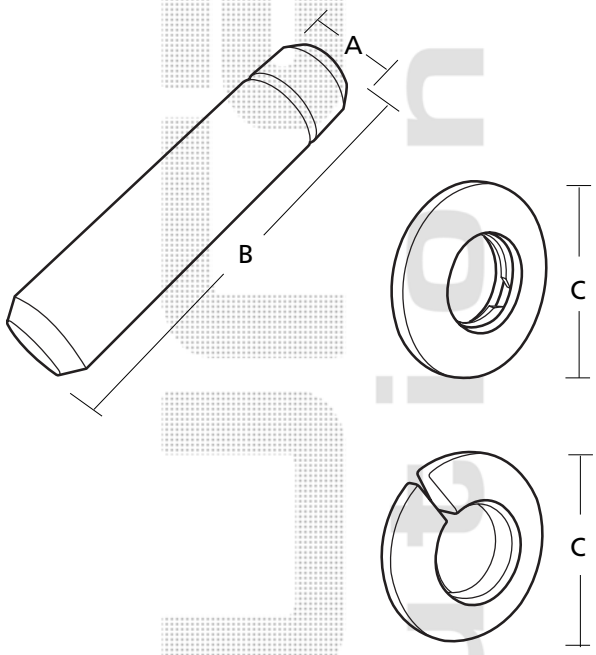




mm. A	B	C	KG lb		Fig	Classic Cross References					
94 *3,70"*	114 *4,49"*	295 *11,61"*	6,32 *13,93*	**FC300 R2**	**2**	4T-4302	6Y-0309	9J-6583	1U-2405	D4 963, 14, 12	**R300**
123 *4,84"*	164 *6,46"*	342 *13,46"*	14,00 *30,86*	**FC350 R2**	**2**	6Y-0352	6Y-0359	8E-6358	1U-2405	D5, D6, 973, 16, 977, D7	**R350**
139 *5,47"*	186 *7,32"*	344 *13,54"*	18,88 *41,62*	**FC450 R1**	**1**	9W-2451	4T-5451	6Y-3394	8E-4743	D8, D8 L, D9, D8 K, D8C, D8 N, D9 H, D9 N	**R450**
139 *5,47"*	186 *7,32"*	388 *15,28"*	20,58 *45,37*	**FC450 R2**	**2**	9W-2452	4T-5452				
156 *6,14"*	219 *8,62"*	414 *16,30"*	31,78 *70,06*	**FC500 R1**	**1**	4T-4501	4T-5501	6Y-3909	4T-4707	D10 N	**R500**
157 *6,18"*	219 *8,62"*	454 *17,87"*	31,00 *68,34*	**FC500 R2**	**2**	4T-4502	4T-5502				
176 *6,93"*	254 *10,00"*	480 *18,90"*	42,60 *93,92*	**FC550 R1**	**1**	9W-4551	-	8E-2229	8E-2230	D10 N, D11SS	**R550**
182 *7,17"*	250 *9,84"*	535 *21,06"*	45,76 *100,88*	**FC550 R2**	**2**	9W-4552	6Y-3552				

Ripper Fasteners





mm. A	B	C							
19 *0,75"*	88 *3,46"*	38 *1,50"*	**9J-6583**	**1U-2405**	-	-	-	-	**R300**
19 *0,75"*	108 *4,25"*	38 *1,50"*	**8E-6358**	**1U-2405**	-	-	-	-	**R350**
25,4 *1,00"*	128 *5,04"*	48 *1,89"*	**6Y-3394**	**8E-4743**	-	-	-	-	**R450**
31,75 *1,25"*	153 *6,02"*	64 *2,52"*	-	-	**6Y-1204**	**6Y-1202**	**6Y-3909**	**4T-4707**	**R500**
34,93 *1,38"*	170 *6,69"*	70 *2,76"*	-	-	**9N-4245**	**6Y-1205**	**8E-2229**	**8E-2230**	**R550**

Cross Ref.
Not reusable system > reusable system

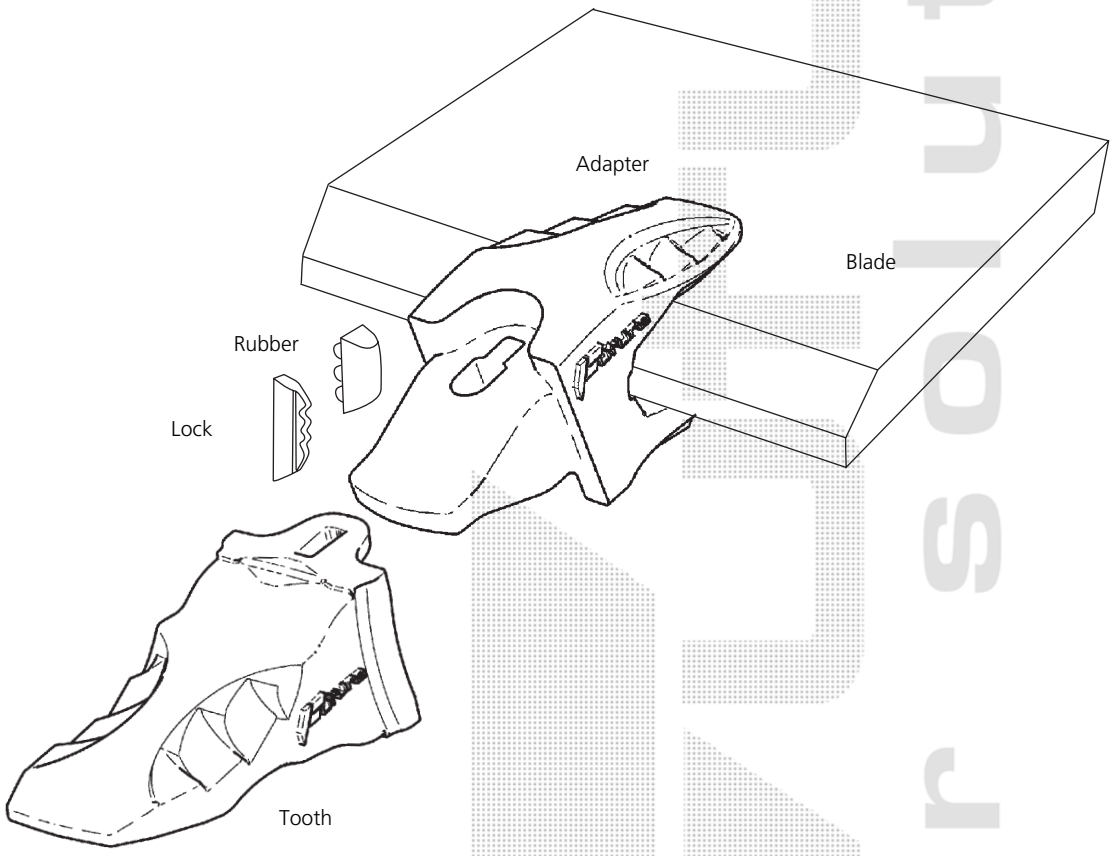
Not reusable		Reusable	Not reusable		Reusable	
6Y-1204	>	**6Y-3909**	*6Y-1202*	>	**4T-4707**	**R500**
9N-4245	>	**8E-2229**	*6Y-1205*	>	**8E-2230**	**R550**

DRP

Esco

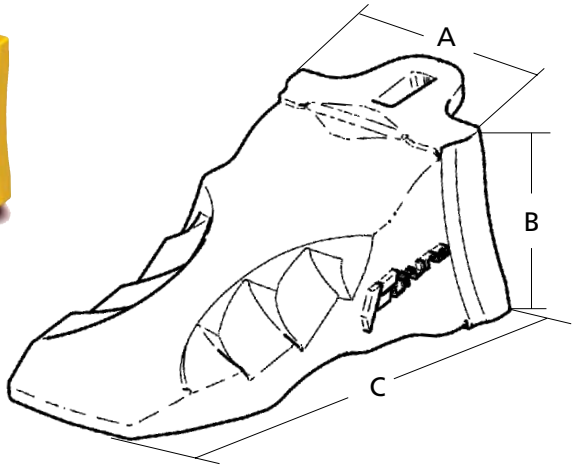
Teeth and Adapters
Vertical Pin System

Bold ref. number product available
Other ref. number please consult.



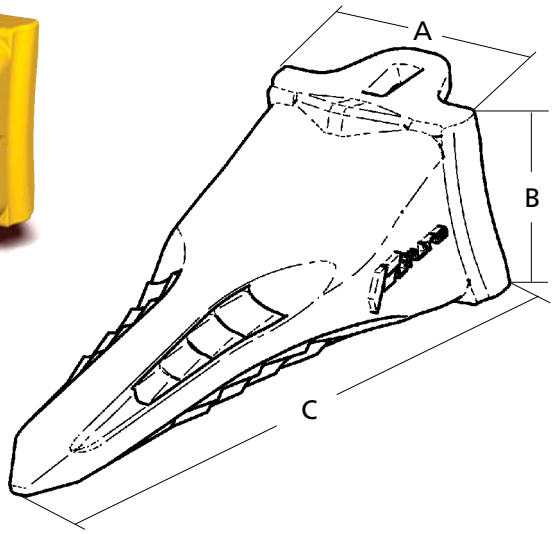
Long	Vip	Symmetric	Two Strap Loader	
FE15 L	-	-	**FE15 R**	**18**
FE18 L 18-TL	**FE18 P** 18-VIP	-	**FE18 R** 833-18	**18**
-	-	**FE25 S** 25-S	**FE25 R** 855-25	**25**
-	-	**FE30 S** 30-S	-	**30**
-	-	**FE35 S** 35-S	-	**35**
-	-	**FE40 S** 40-S	-	**40**
Pag. 1.2.2	Pag. 1.2.2	Pag. 1.2.3	Pag. 1.2.3	

Vertical Pin Teeth: Long



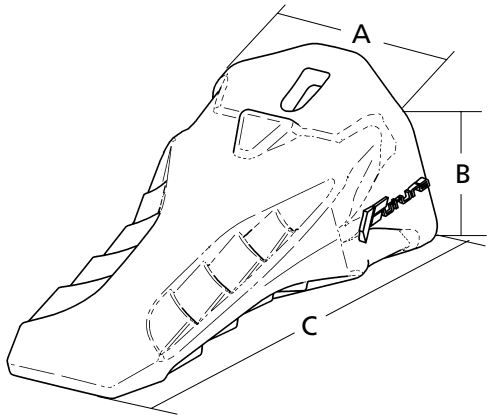
mm. A	B	C	KG lb					
52 *2,05"*	51 *2,01"*	122 *4,80"*	0,70 *1,54*	**FE15 L** -	18-PN 18-PNR	18-LK 18-LKR	FE15 R	**15**
61 *2,40"*	54 *2,13"*	127 *5,00"*	1,12 *2,47*	**FE18 L** 18-TL	18-PN 18-PNR	18-LK 18-LKR	FE18 R	**18**

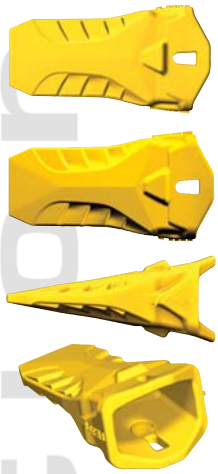
Vertical Pin Teeth: Vip



mm. A	B	C	KG lb					
62 *2,44"*	53 *2,09"*	160 *6,30"*	1,15 *2,54*	**FE18 P** 18-VIP	18-PN 18-PNR	18-LK 18-LKR	FE18 R	**18**

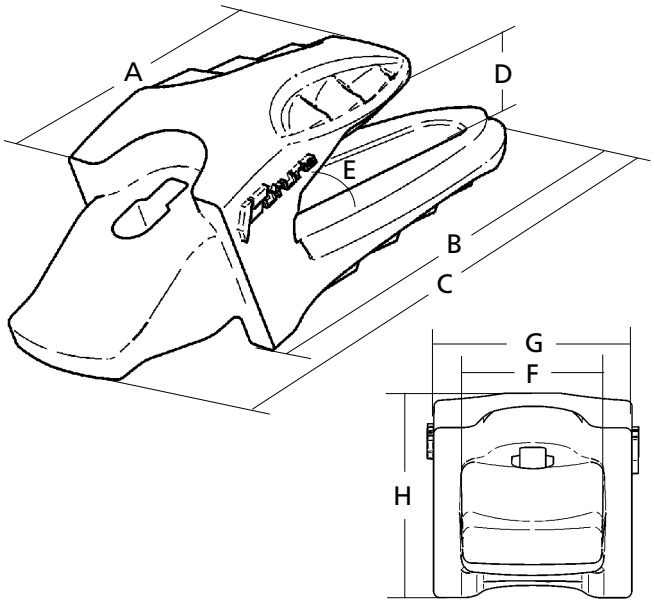
Vertical Pin Teeth: Symmetric

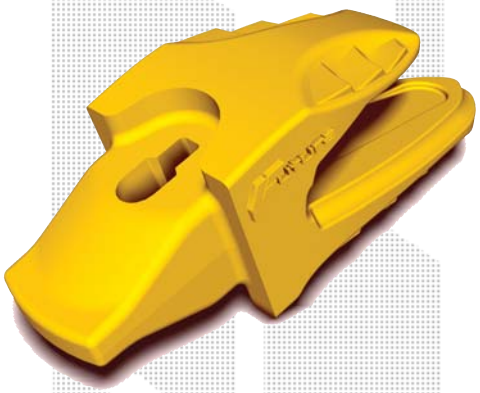




mm. A	B	C	KG lb					
87 *3,43"*	79 *3,11"*	190 *7,48"*	2,33 *5,14*	**FE25 S** 25-S	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	FE25 R	**25**
96 *3,78"*	80 *3,15"*	188 *7,40"*	2,88 *6,35*	**FE30 S** 30-S	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	-	**30**
111 *4,37"*	90 *3,54"*	217 *8,54"*	4,14 *9,13*	**FE35 S** 35-S	35-PN 35-PNR	35-40-LK 35-40-LKR	-	**35**
128 *5,04"*	104 *4,09"*	249 *9,80"*	6,84 *15,08*	**FE40 S** 40-S	40-PN 40-PNR	35-40-LK 35-40-LKR	-	**40**

Vertical Pin Weld-On Adapter

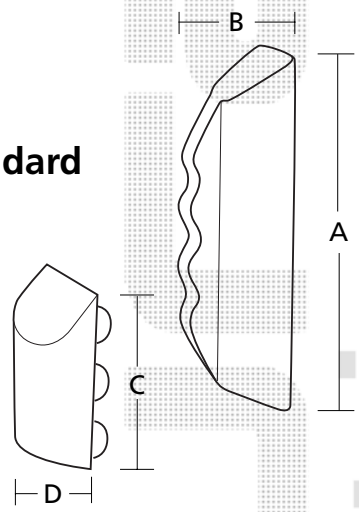




mm. A	B	C	D	E	F	G	H		KG lb						
83 *3,27"*	101 *3,98"*	150 *5,91"*	18 *0,71"*	24 °	36 *1,42"*	51 *2,01"*	58 *2,28"*	16 *0,63"*	1,03 *2,27*	**FE15 R** -	18-PN 18-PNR	18-LK 18-LKR	FE15 L	-	-	**15**
98 *3,86"*	119 *4,69"*	176 *6,93"*	22 *0,87"*	28 °	42 *1,65"*	61 *2,40"*	99 *3,90"*	20 *0,79"*	1,62 *3,57*	**FE18 R** 833-18	18-PN 18-PNR	18-LK 18-LKR	FE18 L	FE18 P	-	**18**
119 *4,69"*	147 *5,79"*	226 *8,90"*	27 *1,06"*	23 °	51 *2,01"*	85 *3,35"*	84 *3,31"*	25 *0,98"*	3,72 *8,20*	**FE25 R** 855-25	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	-	-	FE25 S	**25**

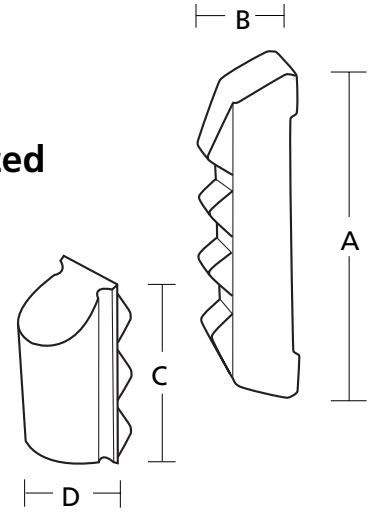
Lock & Rubber

Standard



mm. A	B	C	D			
52 *2,05"*	13 *0,51"*	35 *1,38"*	14,3 *0,56"*	**18-PN**	**18-LK**	**18**

Reinforced



mm. A	B	C	D			
52 *2,05"*	13 *0,51"*	35 *1,38"*	14,3 *0,56"*	*18-PNR*	*18-LKR*	**18**

Wear solutions

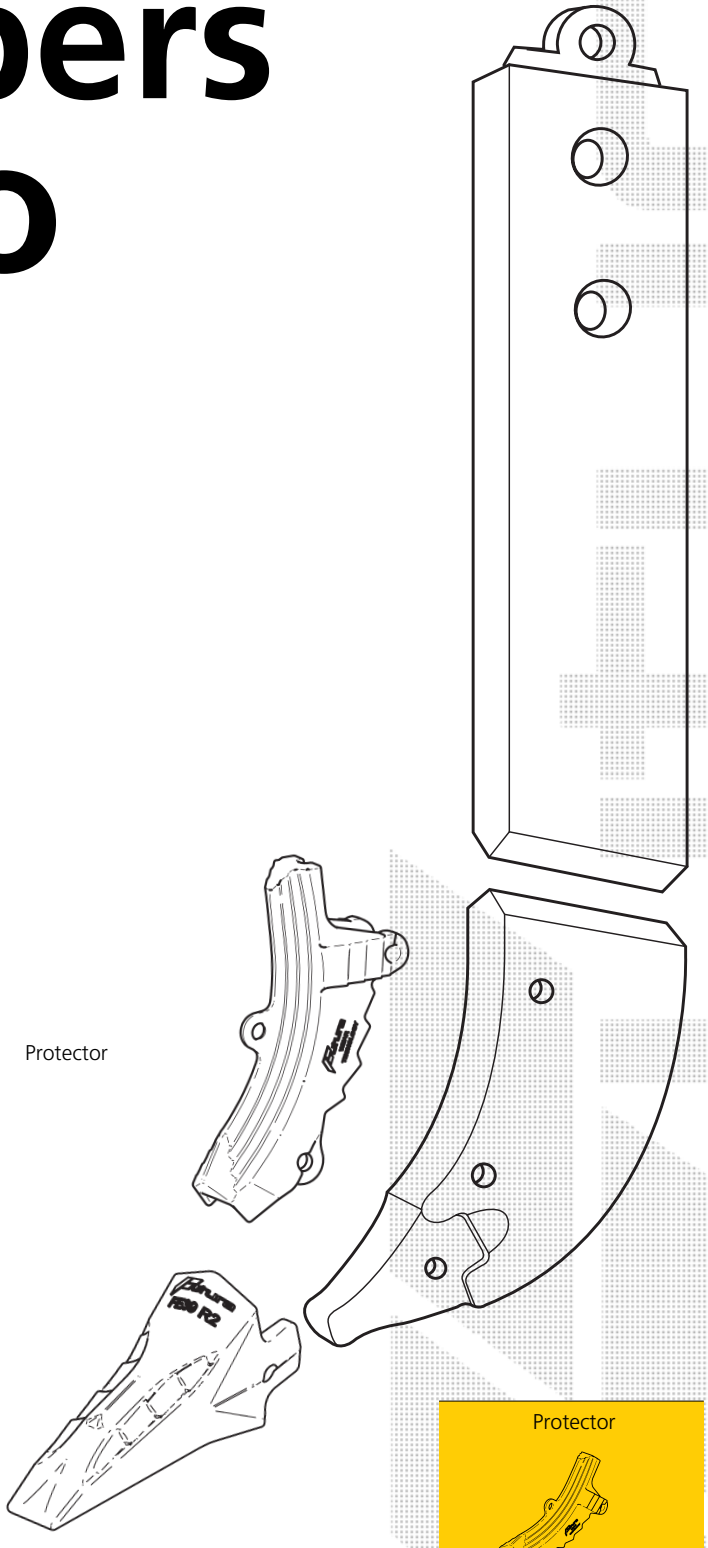
DRP

Rippers Esco

Bold ref. number product available

Other ref. number please consult.

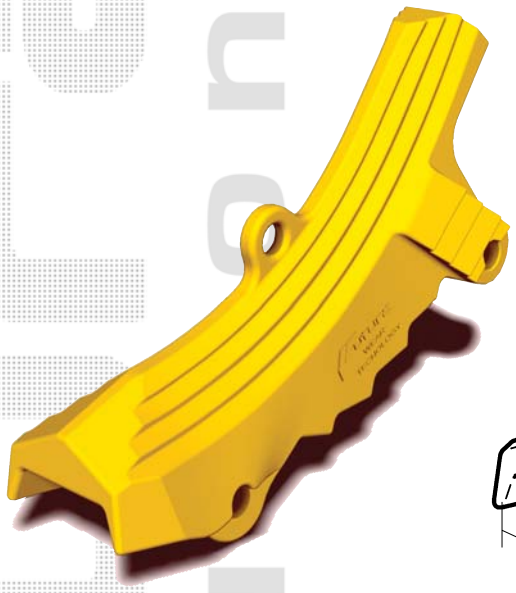
Ripper Shank Components

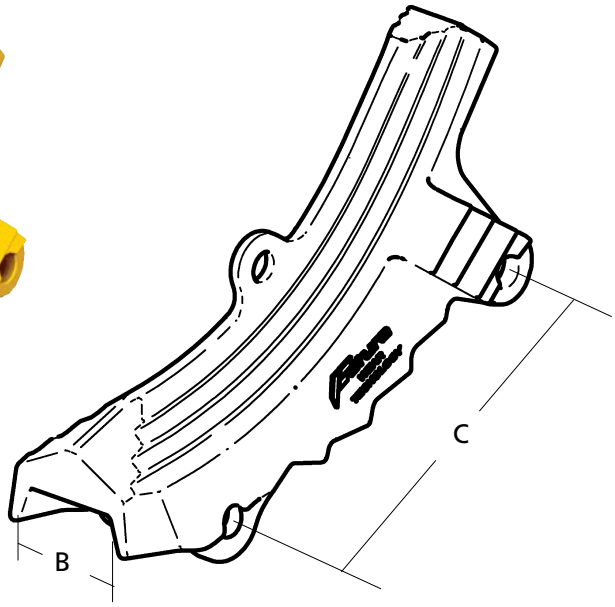


Protector	Tooth	
FE39 RPT 39-RHSL	**FE39 R2** 39-R17E 39-RH17E 39-RH18A	**39**
Pag. 1.2.6	Pag. 1.2.6	

Earthmoving solutions

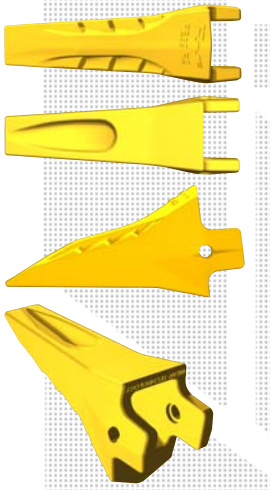
Ripper Protectors

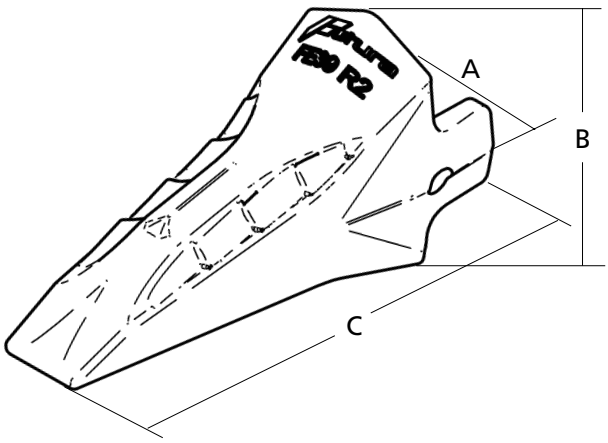




mm. B	C	KG lb					Power HP
90 *3,54"*	88 *3,46"*	392 *15,43"*	43,22 *95,28*	**FE39 RPT** 39-RHSL	39-SPH 39-SRH	39-SPH 39-SRH	39-RWNS1A	300-500

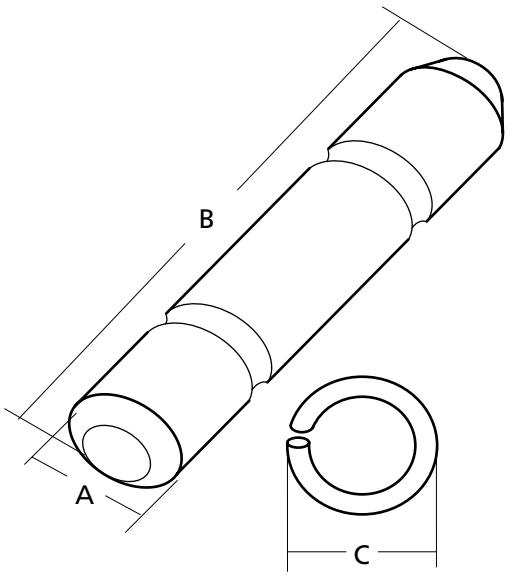
Ripper Tooth





mm. A	B	C	KG lb				Power HP	
154 *6,06"*	214 *8,43"*	458 *18,03"*	25,39 *55,97*	**FE39 R2** 39-R17E 39-RH17E 39-RH18A	49RP-39RPH	49-SR	300-500	**39**

Pins & Washers



mm. A	B	C			
22,2 *0,87"*	151 *5,94"*	32,6 *1,28"*	**49RP-39RPH**	**49-SR**	**39**
30 *1,18"*	133 *5,24"*	40,5 *1,59"*	**39-SPH**	**39-SRH**	

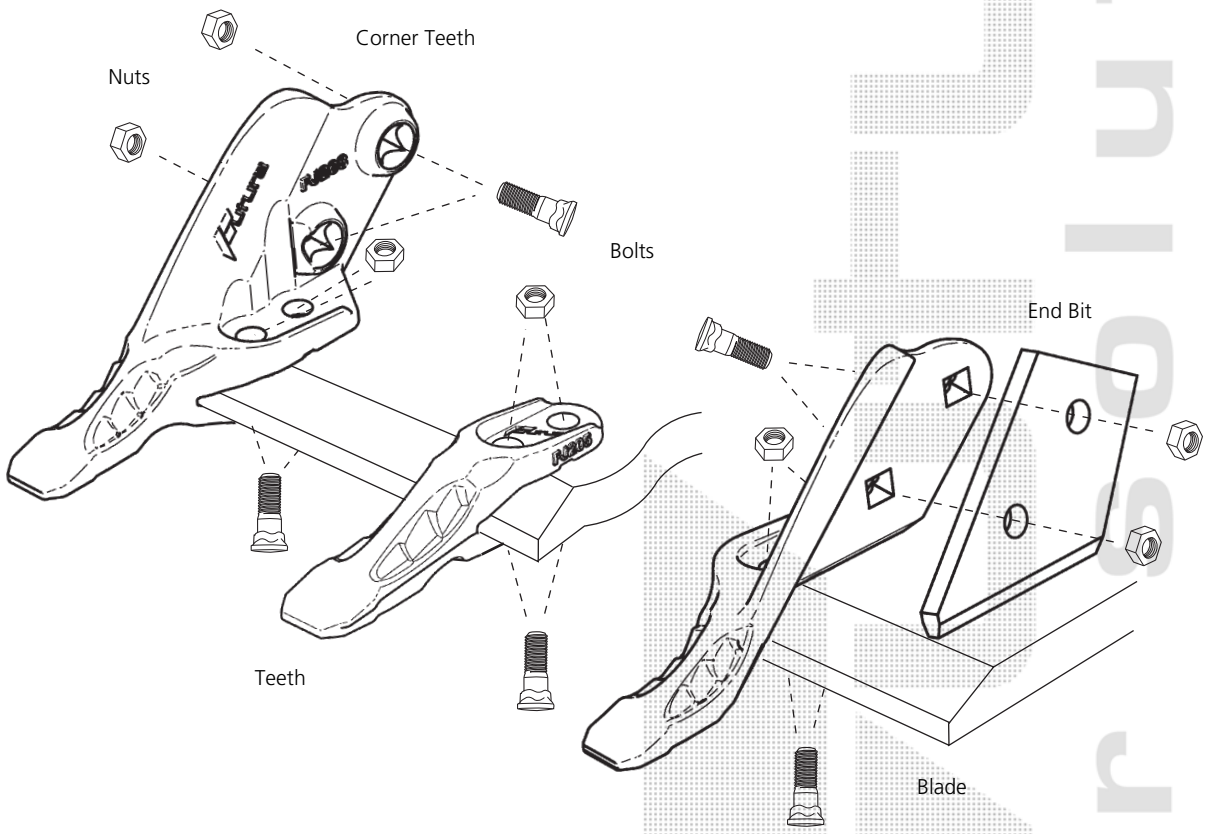
Wear solutions

Bold ref. number
product available
Other ref. number
please consult.

DRP

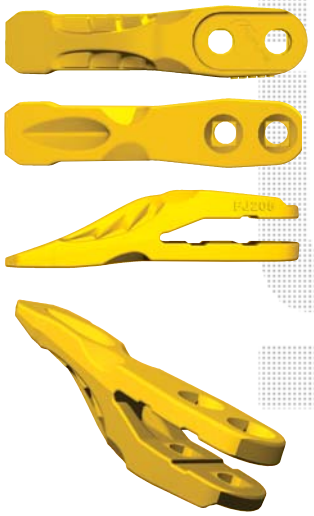
JCB

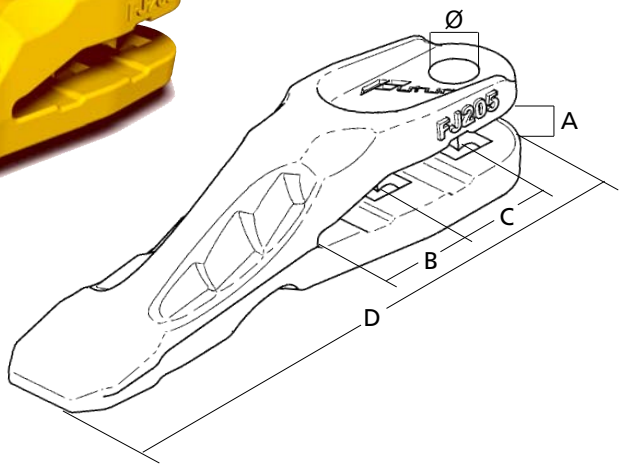
Teeth



Teeth	Corner Teeth		
FJ205 53103305	**FJ208** 53103208	**FJ209** 53103209	JCB-3CX
Pag. 1.3.2	Pag. 1.3.2	Pag. 1.3.2	

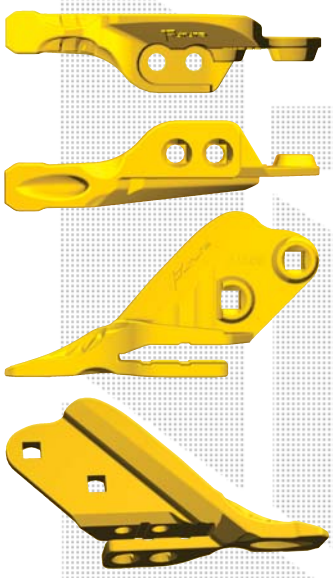
Bolt-On Monoblock Teeth

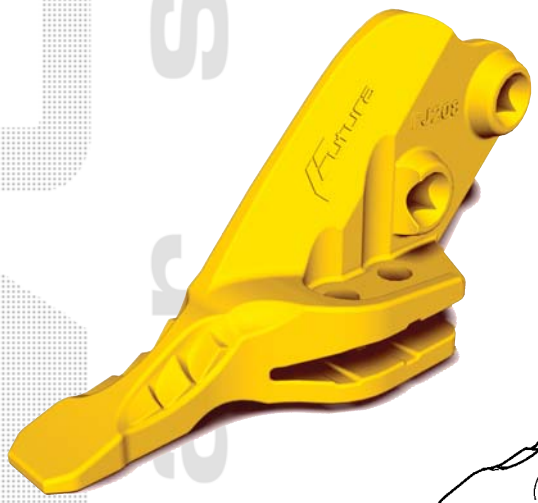


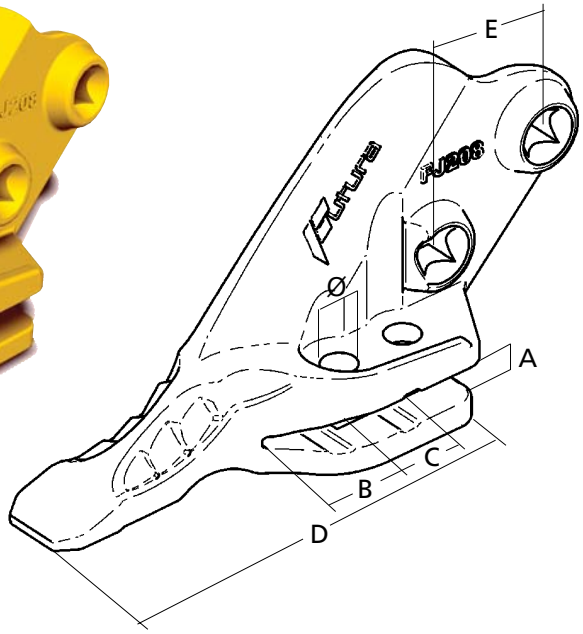


mm. A	B	C	D	Ø	KG lb						
21 *0,83"*	57 *2,24"*	45 *1,77"*	260 *10,24"*	20,5 *0,81"*	2,70 *5,95*	**FJ205** 53103205	FJ208	FJ209	PB-324	NP-190	JCB-3CX

Bolt-On Corner Teeth

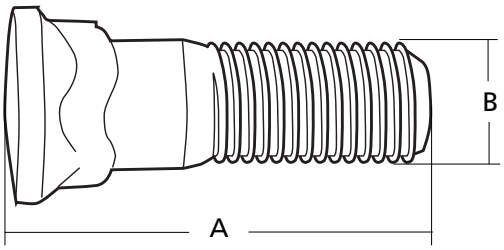


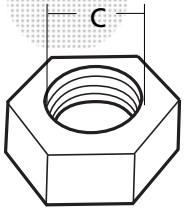


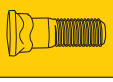


mm. A	B	C	D	E	Ø	KG lb							
21 *0,83"*	57 *2,24"*	45 *1,77"*	262 *10,31"*	74 *2,91"*	20,5 *0,81"*	6,19 *13,65*	**FJ208** 53103208	**FJ209** 53103209	CB-208/9	PB-322	PB-324	NP-190	JCB-3CX

Bolts & Nuts





mm.				OEM	BYG ref.	OEM	BYG ref.
A	B	C	Thread				
2-1/4"	3/4"	3/4"	10	**4F-7827**	**PB-322**	**2J-3506**	**NP-190**
2-1/2"				**5J-4773**	**PB-324**		

Wear solutions

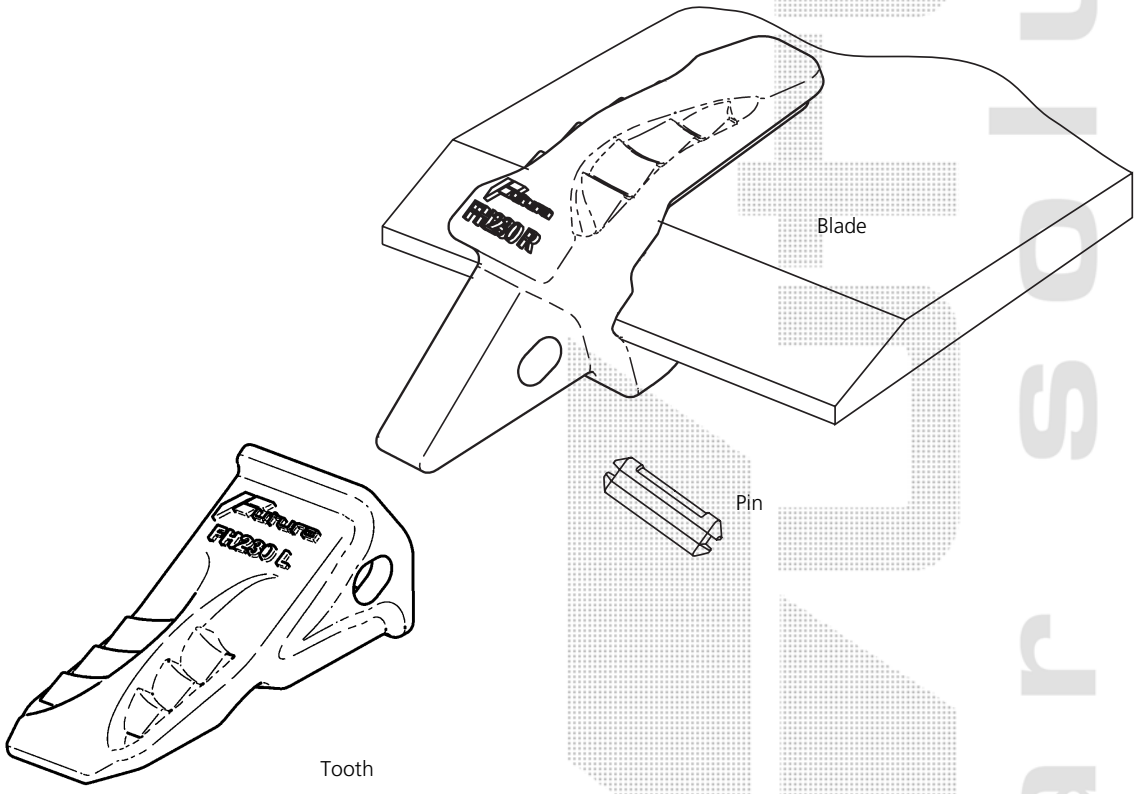
DRP

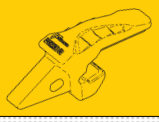
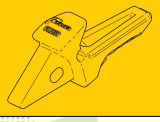
H&L

Bold ref. number product available

Other ref. number please consult.

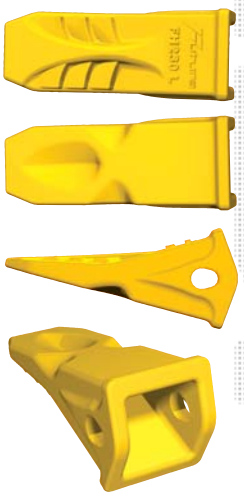
Side Pin Teeth and Adapters

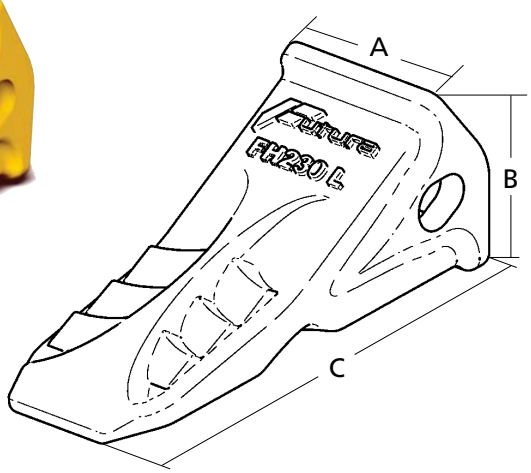


L	TL	WTL	Adapter	Adapter	
					
FH230 L 23HXL	**FH230 TL** -	**FH230 WTL** -	**FH230 R** 2740-23	**FH230** 53103209	**23**
Pag. 1.4.2	Pag. 1.4.2	Pag. 1.4.3	Pag. 1.4.3	Pag. 1.4.4	

wear solutions

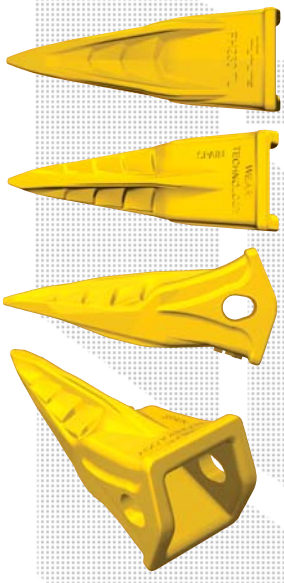
Side Pin Teeth

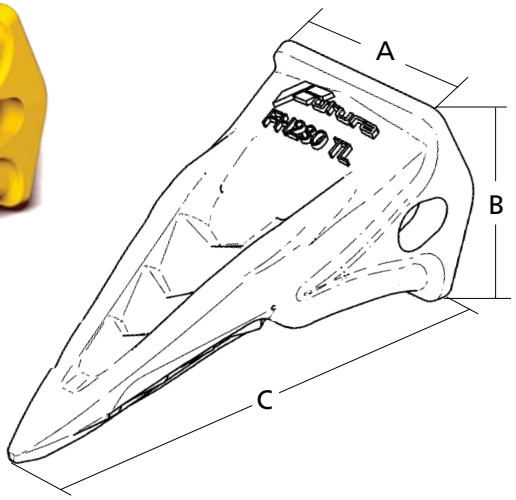




mm. A	B	C	KG lb					
59 *2,32"*	62 *2,44"*	152 *5,98"*	1,10 *2,43*	**FH230 L** 23-HXL	23-PN	834-23	2740-23	**23**

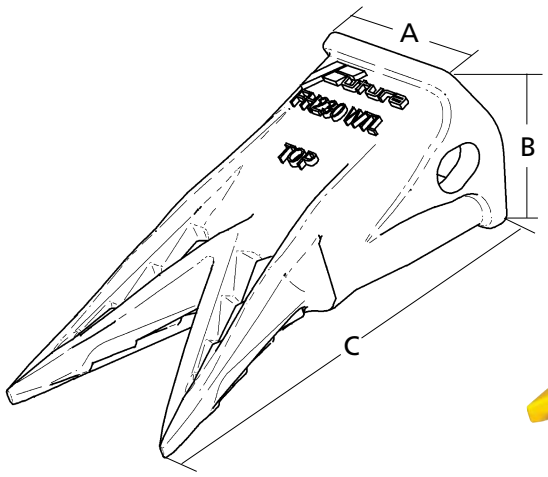
Side Pin Teeth: TL

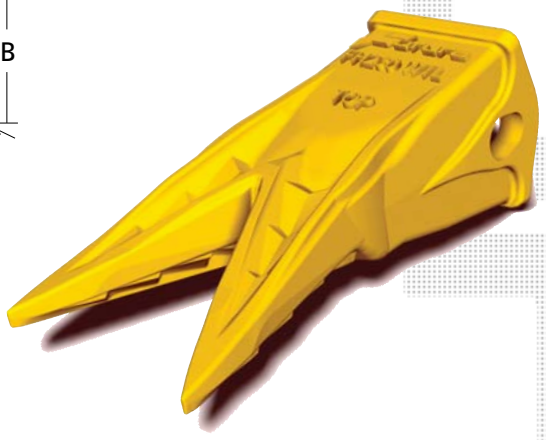




mm. A	B	C	KG lb					
60 *2,36"*	65 *2,56"*	162 *6,38"*	1,25 *2,76*	**FH230 TL** -	23-PN	834-23	2740-23	**23**

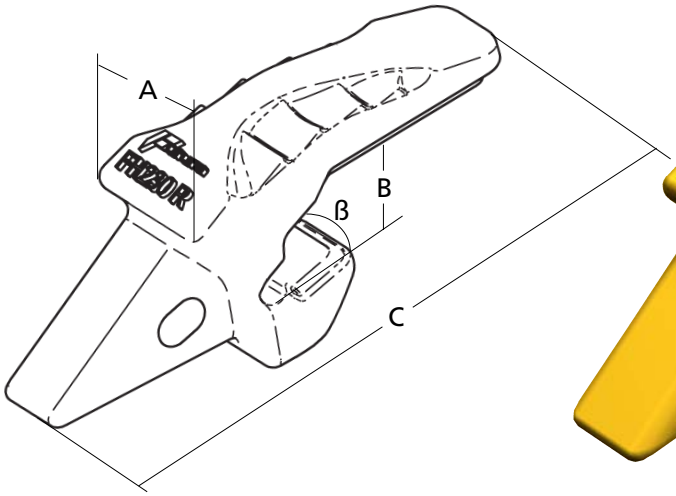
Side Pin Teeth: WTL

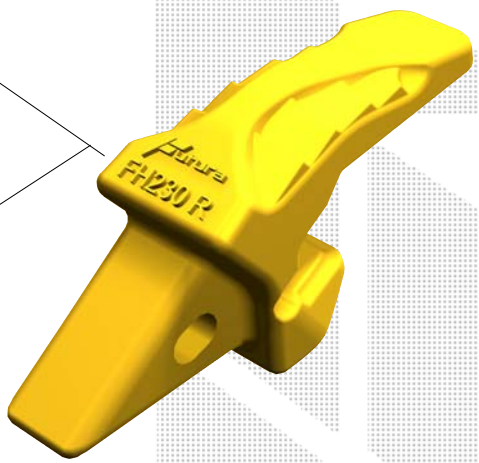


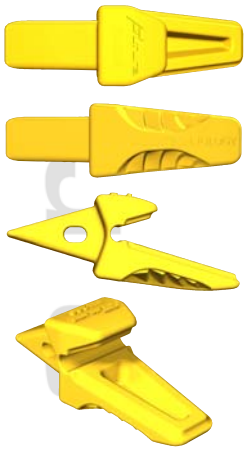


mm. A	B	C	KG lb					
59 *2,32"*	64 *2,52"*	165 *6,50"*	1,42 *3,13*	**FH230 WTL** -	23-PN	834-23	2740-23	**23**

Adapter R

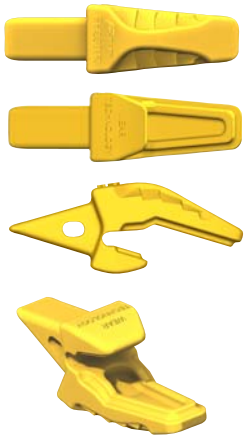


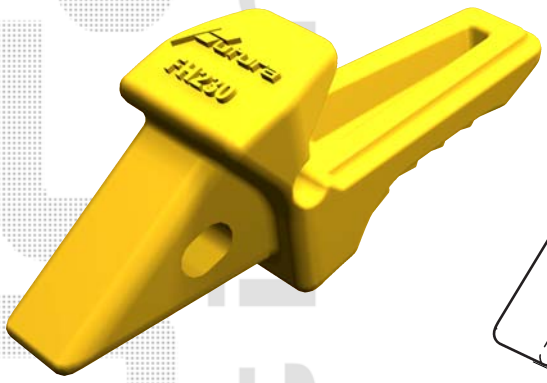


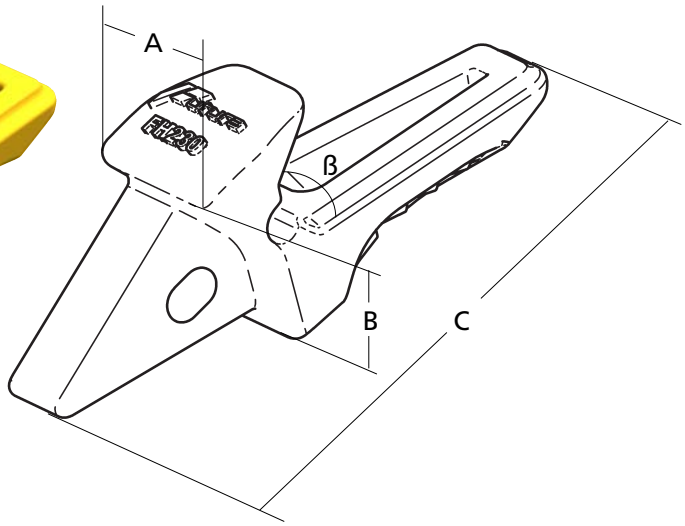


mm. A	B	C	ß	KG lb						
59 *2,32"*	27 *1,06"*	193 *7,60"*	21 °	2,04 *4,50*	**FH230 R** 2740-23	23-PN	**FH230 L** 23-HXL	**FH230 TL**	**FH230 WTL**	**23**

Adapter

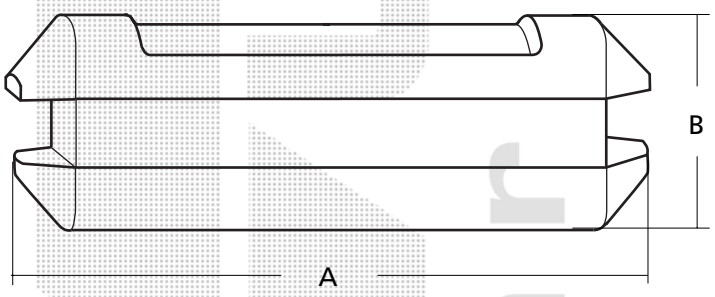






mm. A	B	C	ß	KG							
59 *2,32"*	71 *2,80"*	194 *7,64"*	33 °	1,80 *3,97*	**FH230** 53103209	23-PN	**FH230 L** 23-HXL	**FH230 TL**	**FH230 WTL**	**23**

Pin



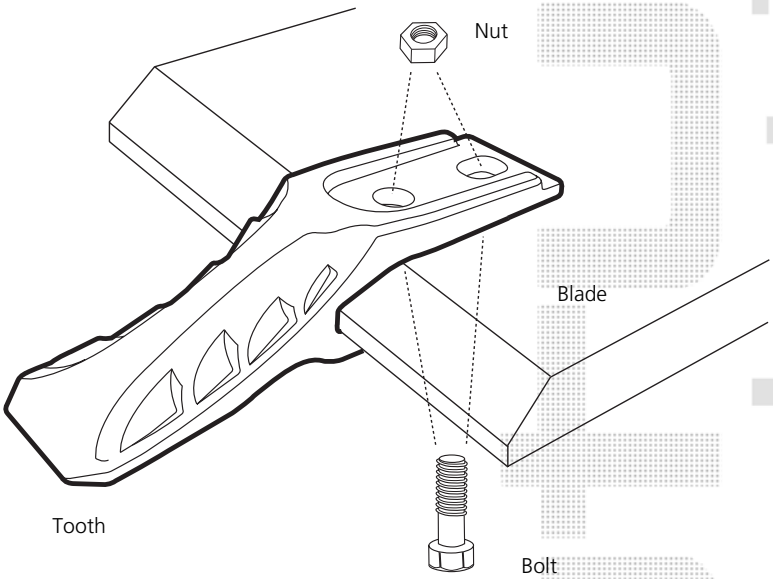
mm. A	B		
69 *2,72"*	-	**23-PN**	**23**

Bold ref. number product available
Other ref. number please consult.

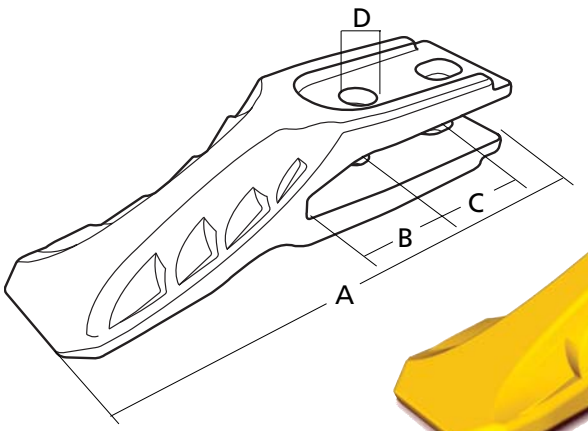
DRP

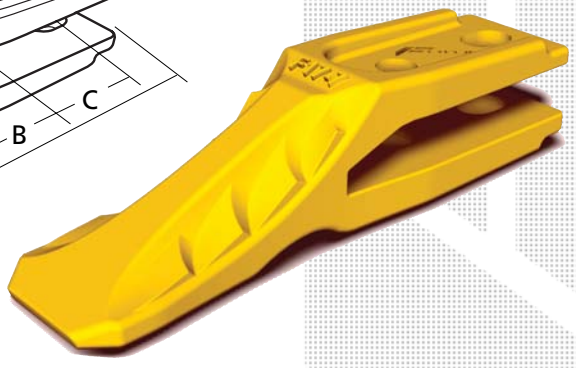
Mini Excavator

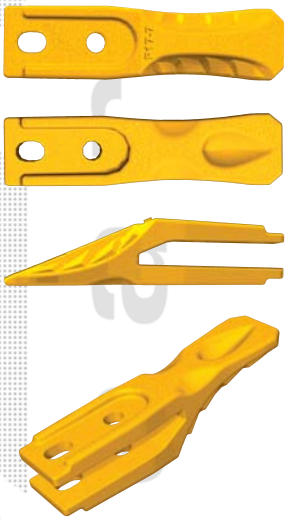
Teeth



Bolt-On Mini Excavator Teeth

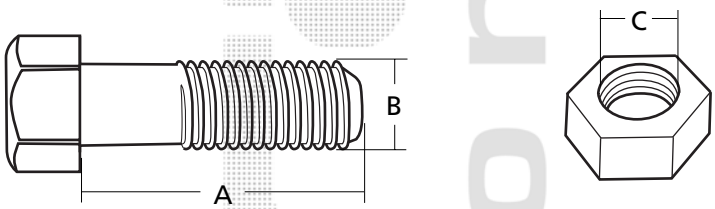






mm. A	B	C	D		KG lb			
193 *7,60"*	40 *1,57"*	40 *1,57"*	45 *1,77"*	14 *0,55"*	16 *0,63"*	1,28 *2,82*	**F17-7** 17-7	M-12040	TM-012

Bolts & Nuts

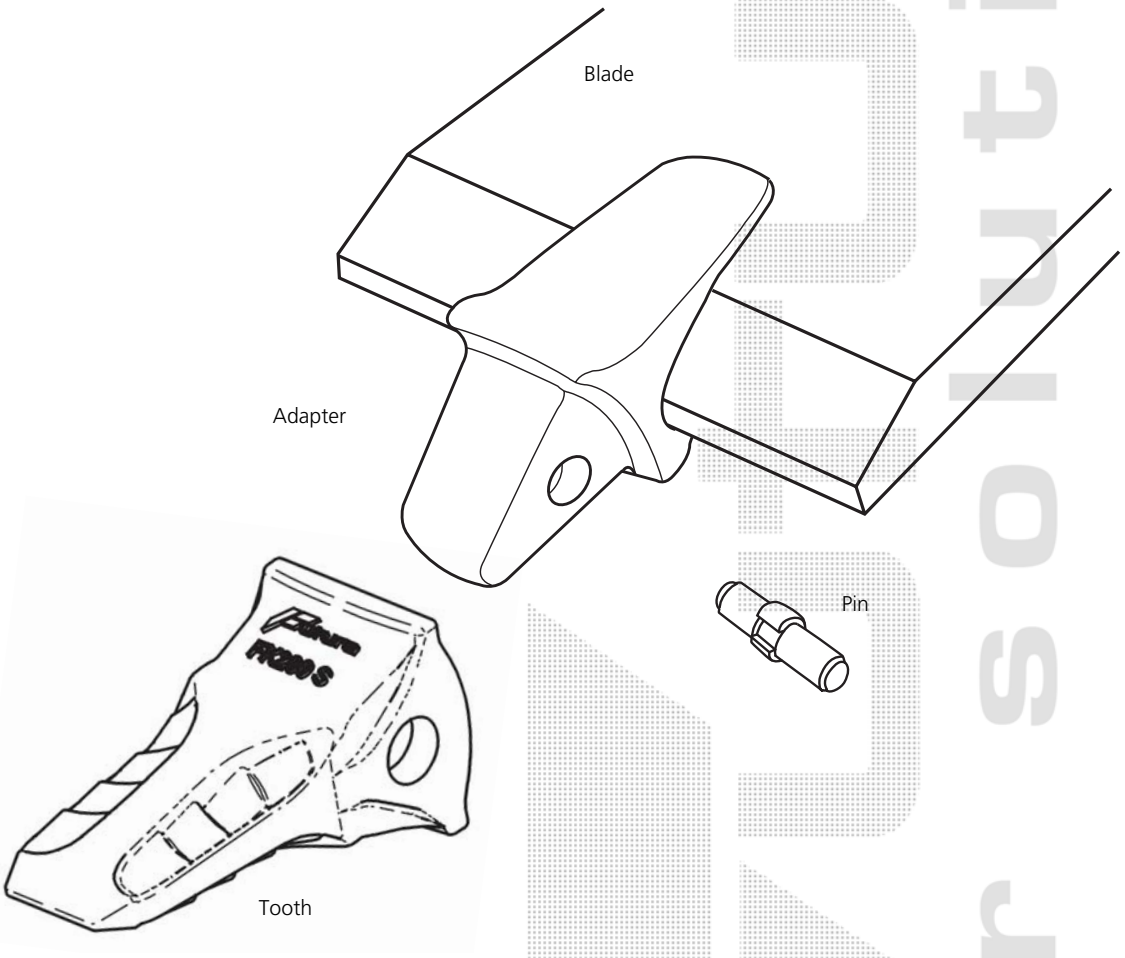


mm. A	mm. B	Thread	OEM	BYG ref.	C	OEM	BYG ref.
40 *1,57"*	12 *0,47"*	1,75 *0,07"*	**6V-8197**	**M-12040**	M-12	**6V-8149**	**TM-012**

Wear solutions

Bold ref. number: product available
Other ref. number: please consult.

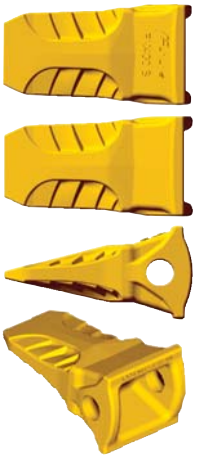
DRP
Komatsu
Teeth

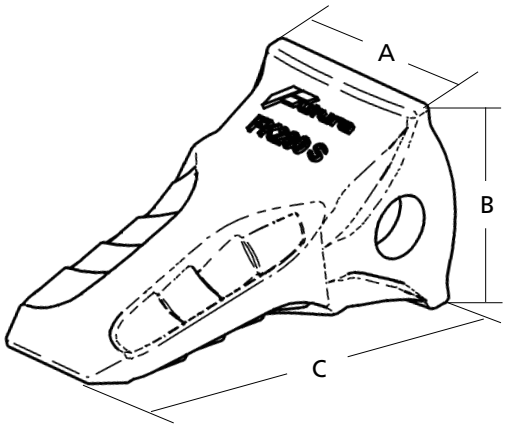


Standard S	Rock Chisel	
FK200 S 205-70-19570	-	**200**
FK300 S 207-70-14151	-	**300**
FK400 S 208-70-14152	**FK400 RC** 208-70-14152 RE	**400**
-	**FK750 RC** 209-70-54720	**650** **750**
-	**FK1100 RC** 21N-72-14290 RE	**1000** **1100**

Pag. 1.6.2 Pag. 1.6.2

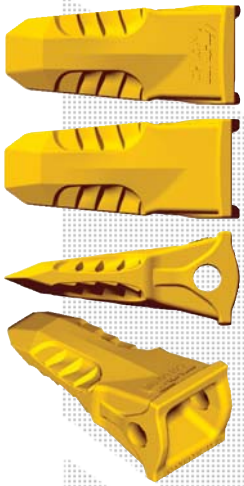
Standard Teeth, S

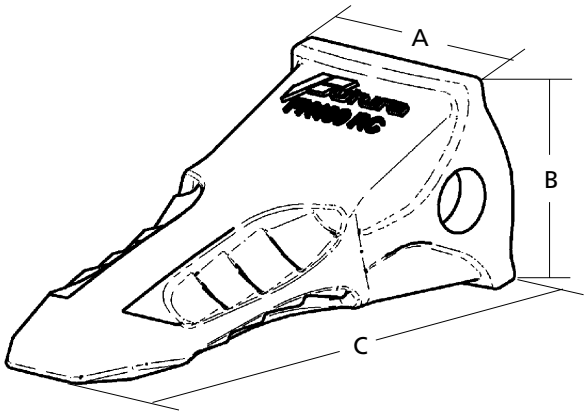




mm. A	B	C	KG lb				
102 *4,02"*	112 *4,41"*	225 *8,86"*	5,10 *11,24*	**FK200 S** 205-70-19570	09244-02496	205-70-68141 205-939-7120	**200**
124 *4,88"*	121 *4,76"*	248 *9,76"*	7,88 *17,37*	**FK300 S** 207-70-14151	09244-02516	207-70-14142 207-939-3120	**300**
146 *5,75"*	135 *5,31"*	276 *10,87"*	11,20 *24,69*	**FK400 S** 208-70-14152	09244-03036	208-70-14143	**400**

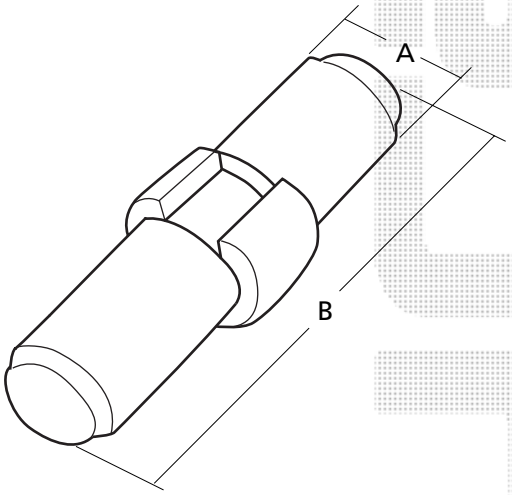
Rock chisel teeth, RC





mm. A	B	C	KG lb				
146 *5,75"*	136 *5,35"*	345 *13,58"*	15,50 *34,17*	**FK400 RC** 208-70-14152 RE	09244-03036	208-70--14143	**400**
185 *7,28"*	191 *7,52"*	438 *17,24"*	35,30 *77,82*	**FK750 RC** 209-70-54720 RE	209-70-54240	209-70-74140	**650** **750**
188 *7,40"*	310 *12,20"*	518 *20,39"*	54,80 *120,81*	**FK1100 RC** 21N-72-14290 RE	21N-72-14330	21N-70-74140	**1000** **1100**

Pin



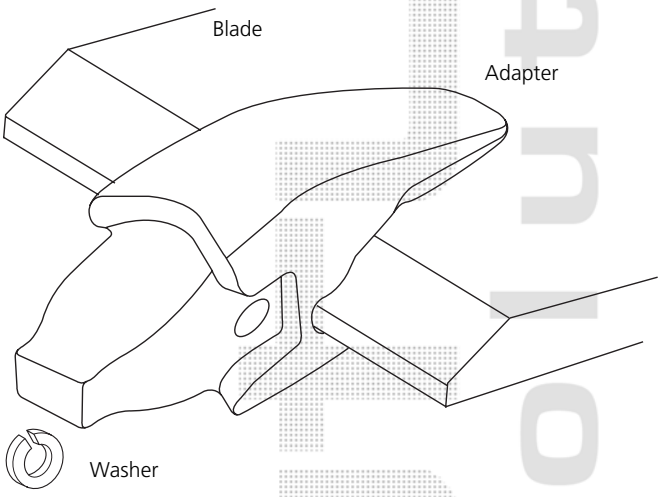
mm. A	mm. B	BYG Ref.	OEM	
25 *0,98"*	97 *3,82"*	**09244-02496**	205-70-19610 205-70-69130	PC100, PC100L-5, PC120-5, PC130, PC200LC-5, PW210-1
25 *0,98"*	119 *4,69"*	**09244-02516**	175-78-21810	PC220, PC220LC-5, PC240LC-NLC, PC280LC-3, PC290 LC/NLC, PC300, PC300LC-5, PC340 LC/NLC PC360LC-3, PC-380 LC
25 *0,98"*	145 *5,71"*	**09244-03036**	198-79-11320 A09-78-11730 426-847-1130	PC400, PC400LC-5, PC450, PC450LC
36 *1,42"*	165 *6,50"*	**209-70-54240**	209-70-54240	PC650, PC650LC-3, PC650SE, PC750, PC750SE
40 *1,57"*	165 *6,50"*	**21N-72-14330**	21N-70-00060	PC-1000LC-1 PC1000SE-1, PC-1100SP, PC-1200

Bold ref. number: product available
Other ref. number: please consult.

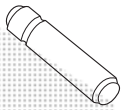
DRP

Fiat Hitachi

Teeth



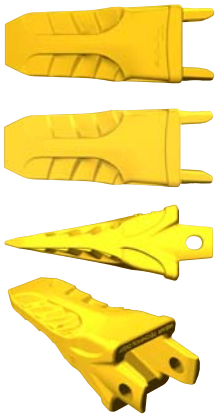
Tooth

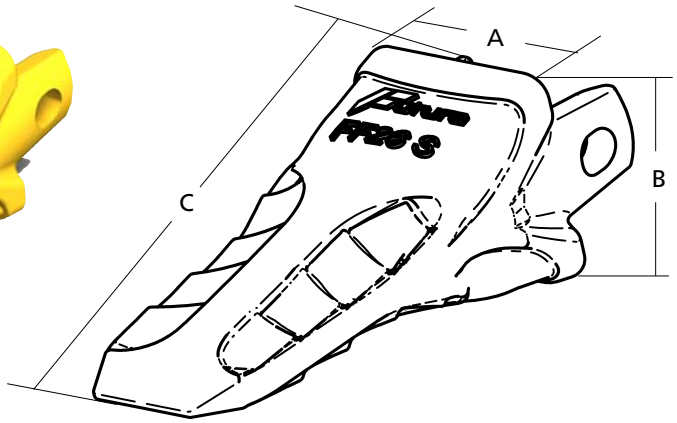


Pin

Standard S	Rock Chisel	
FF22 S X290	**FF22 RC** 71407828 RE	**22**
FF24 S X330	**FF24 RC** 71407992 RE	**24**
FF26 S X370	**FF26 RC** 71421565 RE	**26**
FF28 S X410	**FF28 RC** 71432195 RE	**28**
FF32 S X450	-	**32**
Pag. 1.7.2	Pag. 1.7.2	

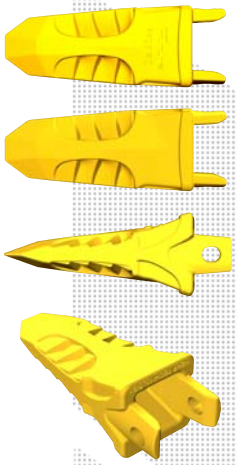
Standard Teeth, S

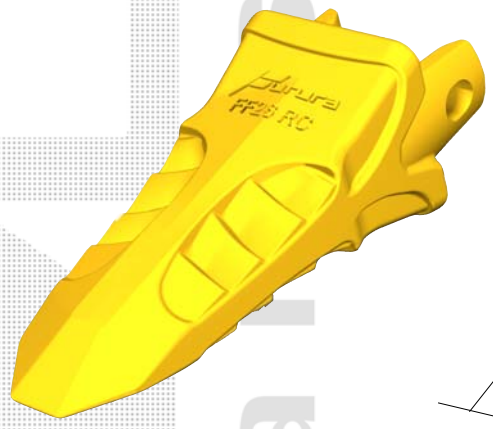


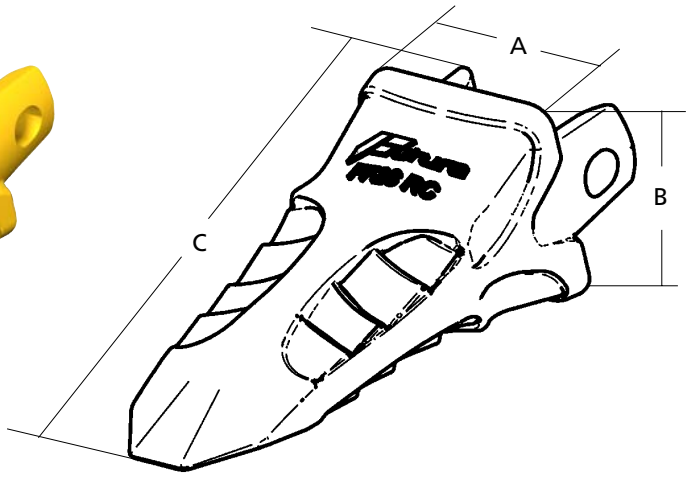


mm. A	B	C	KG lb					Break Out Force Kn Tons lbf		Break Out Force Kn Tons lbf		
80 *3,15"*	90 *3,54"*	218 *8,58"*	3,50 *7,72*	**FF22 S** -	2MF-22P	2MF-21/22R	*	113 - 225	9 - 23	70 - 140	8 - 15	**22**
102 *4,02"*	106 *4,17"*	282 *11,10"*	6,86 *15,12*	**FF24 S** -	2MF-24P	2MF-24R	*	225 - 314	23 - 32	140 - 245	15 - 25	**24**
120 *4,72"*	117 *4,61"*	330 *12,99"*	10,65 *23,48*	**FF26 S** -	2MF-26P	2MF-26/28R	*	314 - 490	32 - 50	245 - 340	25 - 35	**26**
138 *5,43"*	130 *5,12"*	401 *15,79"*	16,00 *35,27*	**FF28 S** -	2MF-28P	2MF-26/28R	*	490 - 735	50 - 75	340 - 490	35 - 50	**28**
163 *6,42"*	155 *6,10"*	422 *16,61"*	24,19 *53,33*	**FF32 S** -	2MF-32P	2MF-32R	*	735 - 930	75 - 95	490 - 635	50 - 65	**32**

Rock Chisel Teeth, RC



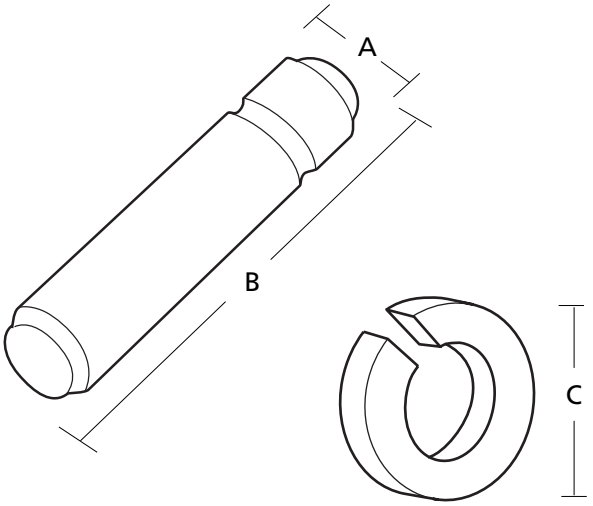




mm. A	B	C	KG lb					Break Out Force Kn Tons lbf		Break Out Force Kn Tons lbf		
80 *3,15"*	90 *3,54"*	244 *9,61"*	3,80 *8,38*	**FF22 RC** 71407828 RE	2MF-22P	2MF-21/22R	*	113 - 225	9 - 23	70 - 140	8 - 15	**22**
102 *4,02"*	106 *4,17"*	286 *11,26"*	6,58 *14,51*	**FF24 RC** 71407992 RE	2MF-24P	2MF-24R	*	225 - 314	23 - 32	140 - 245	15 - 25	**24**
120 *4,72"*	117 *4,61"*	334 *13,15"*	10,17 *22,42*	**FF26 RC** 71421565 RE	2MF-26P	2MF-26/28R	*	314 - 490	32 - 50	245 - 340	25 - 35	**26**
138 *5,43"*	127 *5,00"*	407 *16,02"*	15,07 *33,22*	**FF28 RC** 71432195 RE	2MF-28P	2MF-26/28R	*	490 - 735	50 - 75	340 - 490	35 - 50	**28**

* To see table of equivalences, page 1.7.4

Pin and Washer



A	B	C			
10 *0,39"*	85 *3,35"*	18 *0,71"*	**2MF-22P**	**2MF-21/22R**	**22**
14 *0,55"*	102 *4,02"*	27 *1,06"*	**2MF-24P**	**2MF-24R**	**24**
19 *0,75"*	122 *4,80"*	32 *1,26"*	**2MF-26P**	**2MF-26/28R**	**26**
19 *0,75"*	135 *5,31"*	32 *1,26"*	**2MF-28P**	**2MF-26/28R**	**28**
25 *0,98"*	155 *6,10"*	45 *1,77"*	**2MF-32P**	**2MF-32R**	**32**

Cross References Between Brands: Teeth, Adapters, Pins and Washers

Teeth Futura	Teeth BYG Ref.	Fiat	Fixmet®	Feurst®	Esco	
FF22 S	*71407828*	*71467241 / 71407828*	*MF22 S*	*222LTR*	*022SL*	**22**
FF24 S	*71417992*	*71465120 / 71419992*	*MF24 S*	*24LTR*	*024SL*	**24**
FF26 S	**71421565**	*71464186 / 71421565*	*MF26 S*	*26LTR*	*026SL*	**26**
FF28 S	*71432195*	*71468101 / 17432195*	*MF28 S*	*28LTR*	*028SL*	**28**
FF32 S	-	-	*MF32 S*	*32LTR*	-	**32**

Teeth Futura	Teeth BYG Ref.	Fiat	Fixmet®	Feurst®	Esco	
FF22 RC	**71407828 RE**	*71467241 / 71407828*	*MF22 E*	*222 PR*	*22*	**22**
FF24 RC	**71417992 RE**	*71465120 / 71419992*	*MF24 E*	*24 PR*	*24*	**24**
FF26 RC	**71421565 RE**	*71464186 / 71421565*	*MF26 E*	*26 PR*	*26*	**26**
FF28 RC	*71432195 RE*	*71468101 / 17432195*	*MF28 E*	*28 PR*	*28*	**28**
FF32 RC	-	-	*MF32 E*	*32 PR*	-	**32**

Adapters Futura	Adapters BYG Ref.	Fiat	Fixmet®	Feurst®	Esco	
-	-	71407829	1MF22FC / 1MF22OA 1MF22UC / 1MF22WC 1MF22WL / 1MF22WR	1530-222 1530-2220° 1230-222 1030-222	-	**22**
-	-	71417993	1MF24FC / 1MF24OA 1MF24UC / 1MF24WC 1MF24WL / 1MF24WR	1535-24 1535-240° 1035-24	-	**24**
-	-	71421566	1MF26FC / 1MF26OA 1MF26UC / 1MF26WC 1MF26WL / 1MF26WR	1540-26 1540-260° 1040-26	-	**26**
-	-	71432196	1MF28FC / 1MF28OA 1MF28WC / 1MF28WL 1MF28WR	1545-28 1550-28 1045-28	-	**28**
-	-	-	1MF32WC / 1MF32WL 1MF32WR	1560-32	-	**32**

Pins BYG Ref.	Pins Fiat Ref.	Fixmet®	Feurst®	Esco	
2MF-22P	71467242 / 71407832	2MF22P	22CL	022PN	**22**
2MF-24P	71465124 / 71417996	2MF24P	24CL	024PN	**24**
2MF-26P	71464190 / 71421569	2MF26P	26CL	026PN	**26**
2MF-28P	71468105 / 71432199	2MF28P	28CL	028PN	**28**
2MF-32P	- / -	2MF32P	32CL	032PN	**32**

Washers BYG Ref.	Washers Fiat Ref.	Fixmet®	Feurst®	Esco	
2MF-21 / 22R	71467243 / 71407833	2MF21 / 22R	22RD	022LK	**22**
2MF-24R	71465125 / 71417997	2MF24R	24RD	024LK	**24**
2MF-26 / 28R	71464191 / 71421570	2MF26 / 28R	26RD	026-28LK	**26**
2MF-26 / 28R	71464191 / 71432200	2MF26 / 28R	28RD	026-28LK	**28**
2MF-32R	- / -	2MF32R	32RD	032LK	**32**

® All symbols, names and descriptions are only used for references purposes and it is not implied that any listed parts is the product of these manufacturers

Wear Parts

BYG Classic

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Warranty

In the unlikely event of any of our products failing during normal operation, we will supply a new replacement free of charge.

Steel Technical Information

	HB	Resilience DVM -40º	Rm Kg / mm^2	RE Kg / mm^2	A %	E %	Equivalence
Teeth (less than 2 Kg.)	477-514	> 28 J / cm^2	> 160	> 140	> 3	> 7	12M / DH2
Adapters (less than 15 Kg.)	477-514	> 28 J / cm^2	> 160	> 140	> 3	> 7	
Teeth (2 to 12 Kg.)	477-514	>28 J / cm^2	> 160	> 140	> 3	> 7	12S
Weld-On Adapters	388-440	>40 J / cm^2	> 130	> 100	> 4	> 9	12C
Teeth (more than 12 Kg.)	477-527	>28 J / cm^2	> 170	> 140	> 3	> 7	12S-7 / DH3
Adapters (more than 30 Kg.)	477-527	>28 J / cm^2	> 170	> 140	> 3	> 7	

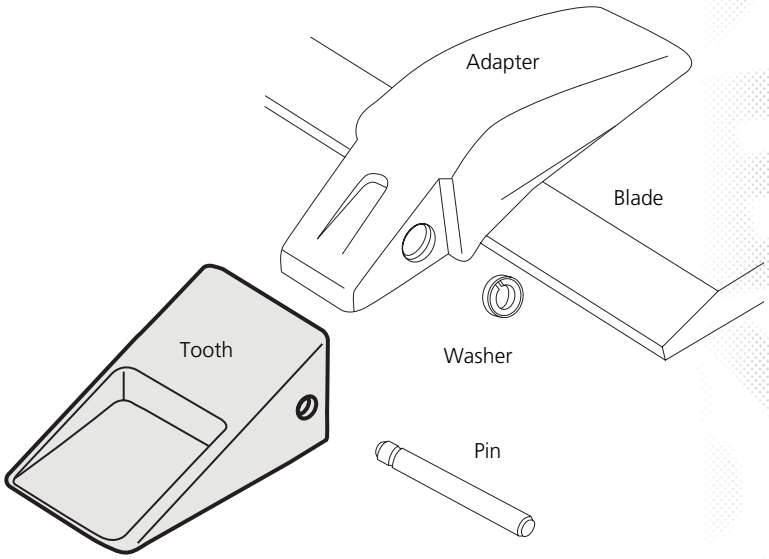
All symbols, names and descriptions are only used for references purposes
and it is not implied that any listed parts are the product of these manufacturers.

DRP

Caterpillar

Bold ref. number, product available
Other ref. number please consult.

Side Pin Teeth



EXCAVATOR / LOADER

Short	Short Self Sharpening	Long	Long Self Sharpening	Wide	
1U-3201	-	**1U-3202**	**1U-3202 P**	-	**20**
-	-	**6Y-3222**	-	-	**22**
1U-3251	-	**1U-3252**	**1U-3252 P**	**3G-8250**	**25**
1U-3301	**1U-3301 P**	**1U-3302**	**1U-3302 P**	*4T-1300*	**30**
1U-3351	**1U-3351 P**	**1U-3352**	**1U-3352 P**	*8J-3350*	**35**
7T-3401	-	**7T-3402**	-	*7T-3400*	**40**
9W-8451	-	**9W-8452**	**9W-8452 P**	**8J-1450**	**46**
9W-8551	-	**9W-8552**	-	*7J-9550*	**55**
-	-	**6I-6602**	-	-	**60**
-	-	**4T-4702**	-	-	**70**
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LOADER

Abrasion	Abrasion HD	Abrasion Rock Penetration	Long HD	Long ARM	
4T-2203	-	-	-	-	**20**
4T-2253	**9N-4253**	**4T-2253 RP**	**9N-4252**	-	**25**
4T-2303	**9N-4303**	**4T-2303 RP**	**9N-4302**	*125-8302*	**30**
4T-2353	**9N-4353**	**4T-2353 RP**	**9N-4352**	*135-9352*	**35**
-	-	**7T-3403 RP**	-	*116-7402*	**40**
9W-1453	**9N-4453**	**9W-1453 RP**	**9N-4452**	**101-9054**	**46**
9W-1553	**6Y-2553**	**9W-1553 RP**	**9N-4552**	**101-9055**	**55**
-	*6I-6603*	**6I-6603 RP**	**7Y-0602**	*107-8602*	**60**
4T-4703	-	**4T-4703 RP**	-	*107-2001*	**70**
-	**6I-8803**	-	-	-	**80**
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Ton.			
6,500-10,000	20-25 mm.	416, 426, 428, 910, 916, 920, 926, 933	**20**
6,500-10,000	20-25 mm.		**22**
10,000-20,000	25-32 mm.	936, 943, 950, 953, 963	**25**
20,000-23,000	32-40 mm.	966, 973, 977	**30**
25,000-63,500	38-50 mm.	980, 983, 988	**35** **40** **46**
63,500-90,000	50-64 mm.	992	**55**
90000-125000	64-75 mm.	375	**60**
125,000-170,000	64-120 mm.	994	**70**
> 170,000	> 102 mm.	994	**80**

EXCAVATOR

Long SYL	Penetracion	Penetracion Tiger	Penetracion Twin Tiger	Rock chisel RC	Penetracion ARM	
-	**1U-3209**	**1U-3202 TL**	**1U-3202 WTL**	-	-	**20**
-	*6Y-8229*	-	-	-	-	**22**
1U-3252 SYL	**9J-4259**	**1U-3252 TL**	**1U-3252 WTL**	-	-	**25**
1U-3302 SYL	**9J-4309**	**1U-3302 TL**	**1U-3302 WTL**	**1U-3302 RC**	-	**30**
1U-3352 SYL	**9J-4359**	**1U-3352 TL**	**1U-3352 WTL**	**1U-3352 RC**	**119-9359**	**35**
8E-4402 SYL	**6Y-7409**	**7T-3402 TL**	**7T-3402 WTL**	-	**124-7409**	**40**
9W-8452 SYL	**9W-8459**	**1U-3452 TL**	**1U-3452 WTL**	**1U-3452 RC**	**116-7459**	**46**
9W-8552 SYL	**9W-8559**	**1U-3552 TL**	**1U-3552 WTL**	**1U-3552 RC**	**113-0559**	**55**
-	**7I-7609**	**6I-6602 TL**	**6I-6602 WTL**	**6I-6602 RC**	**119-9609**	**60**
-	**4T-4709**	**4T-4702 TL**	-	-	-	**70**
-	**117-6809**	-	-	-	-	**80**
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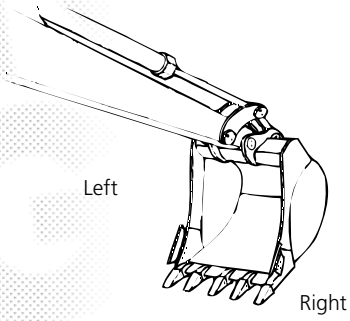
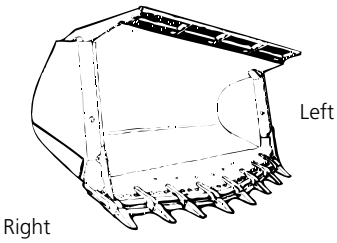
Teeth

What you need to know

Buckets for excavators

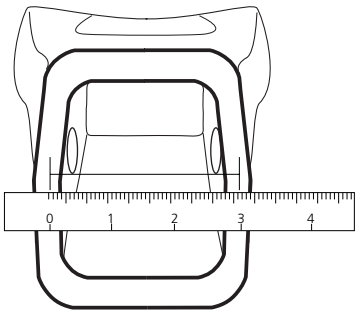
Right and left hand are named from the **perspective of the cabin**.





How to find the size or family belonging to a tooth

With a tape meter measure the width of the tooth on the backside (including the walls)
Example
3" (76 mm) Corresponds to **family 300**
3,5" (89 mm) Corresponds to **family 350**
5,5" (140 mm) Corresponds to **family 550**



How to find the size or family belonging to a worn tooth

With a tape meter take any of the measures shown on *fig. 1*, compare the results on table *fig. 2*

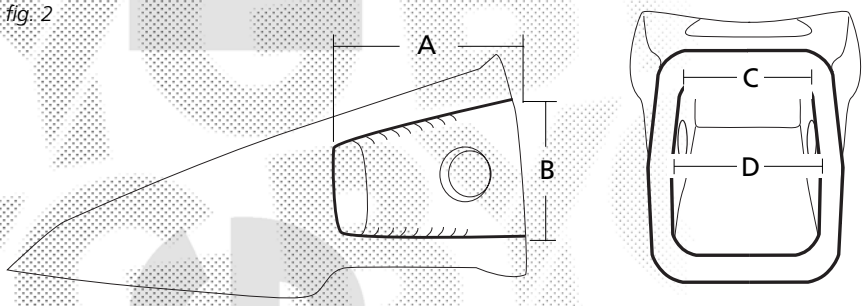


fig. 1

mm.				
A	B	C	D	Size
62	47	36	40	**J200**
71	60	44	49	**J220**
79	68	49	55	**J250**
89	77	60	67	**J300**
102	84	68	75	**J350**
113	93	80	88	**J400**
121	99	90	98	**J450 / J460**
142	110	110	119	**J550**
170	130	131	143	**J600**
180	155	144	155	**J700**
195	170	157	171	**J800**

fig. 2

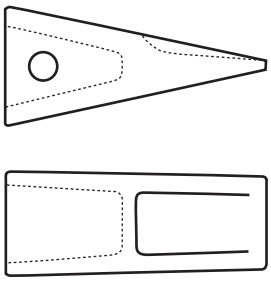
What an original reference tells us

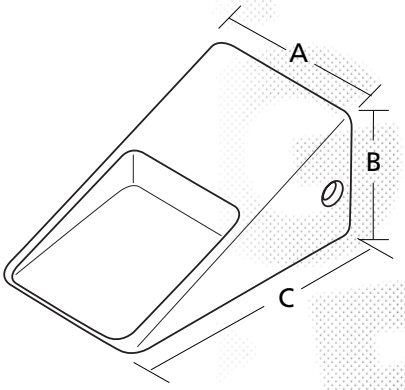
The fourth and fifth digit describe the size of the tooth.
The last digit of the reference describes the shape of the tooth.
The most frequent shapes are:

1 = Short
2 = Long
3 = Abrasion
9 = Penetration

			Size	Shape
1	U	3	**25**	1
9	J	4	**30**	9
4	T	2	**35**	3
6	Y	7	**40**	9
9	N	4	**46**	9
9	N	4	**55**	2
7	I	7	**60**	9
4	T	4	**70**	9

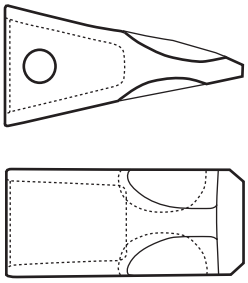
Side Pin Teeth: Short

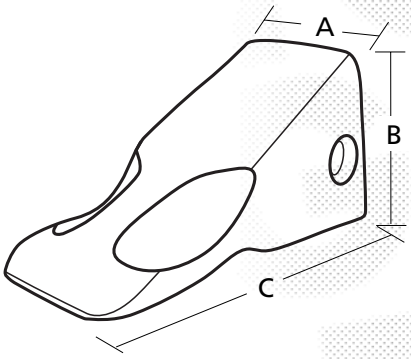




mm. A	B	C	KG lb										
60 *2,36"*	64 *2,52"*	134 *5,28"*	1,30 *2,87*	**1U-3201**	8E-6208 1U-4208	8E-6209 4T-0001	4T-1204	8J-7525	-	-	9J-4207	-	**20**
65 *2,56"*	73 *2,87"*	164 *6,46"*	2,29 *5,05*	**1U-3251**	8E-6258 9J-2258	8E-6259 3G-9609	1U-1254	3G-0169	-	6Y-3254	1U-0257	-	**25**
88 *3,46"*	100 *3,94"*	189 *7,44"*	4,09 *9,02*	**1U-3301**	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
97 *3,82"*	105 *4,13"*	203 *7,99"*	5,60 *12,35*	**1U-3351**	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	-	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
- -	- -	- -	- -	*7T-3401*	7T-3408	8E-8409	-	-	-	6I-6404 /05/06	-	-	**40**
132 *5,20"*	126 *4,96"*	266 *10,47"*	11,50 *25,35*	**9W-8451** 1U-3451	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	-	-	**46**
153 *6,02"*	146 *5,75"*	290 *11,42"*	18,05 *39,79*	**9W-8551** 1U-3551	6Y-8558 1U-1558	8E-5559 3G-9559	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**

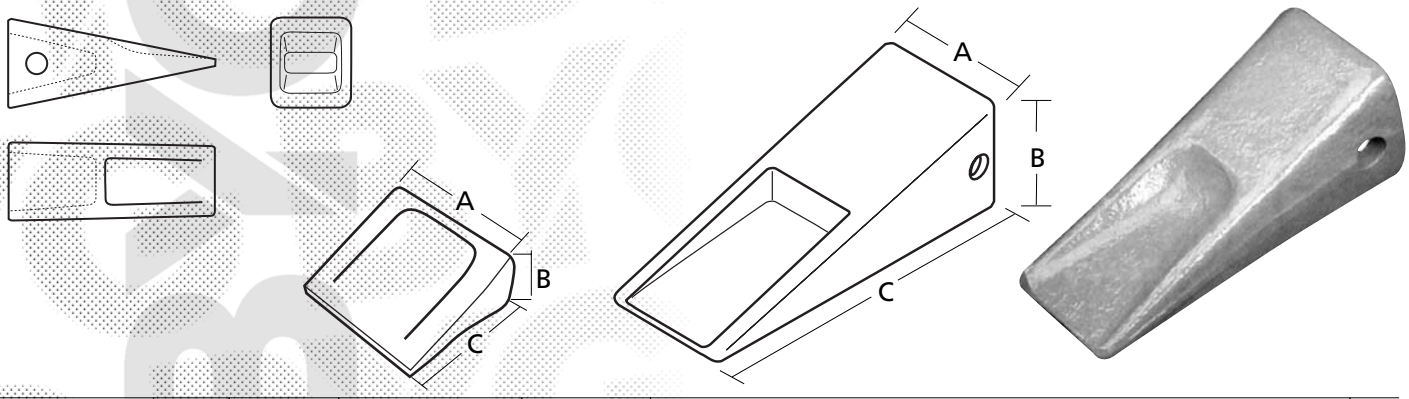
Side Pin Teeth: Self Sharpening Short





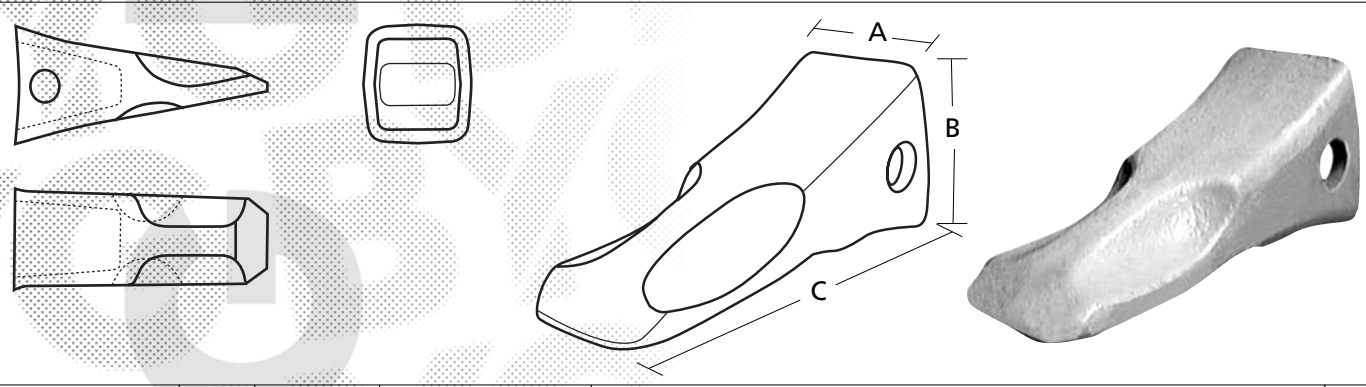
mm. A	B	C	KG lb										
85 *3,35"*	101 *3,98"*	185 *7,28"*	3,35 *7,39*	**1U-3301 P**	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	8E-9490 /95/96 3G-6304 /05/06	4T-4307 1U-0307 3G-9307	3G-5307	**30**
96 *3,78"*	107 *4,21"*	203 *7,99"*	4,50 *9,92*	**1U-3351 P**	9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	-	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**

Side Pin Teeth: Long



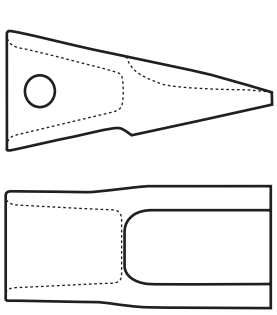
mm. A	B	C	KG lb											
61 *2,40"*	64 *2,52"*	145 *5,71"*	1,40 *3,09*	**1U-3202**	8E-6208 1U-4208	8E-6209 4T-0001	-	4T-1204	8J-7525	-	-	9J-4207	-	**20**
61 *2,40"*	74 *2,91"*	168 *6,61"*	2,10 *4,63*	**6Y-3222**	6Y-3228	8E-6259 3G-9609	-	-	-	-	6Y-3224	-	-	**22**
73 *2,87"*	89 *3,50"*	198 *7,80"*	2,90 *6,39*	**1U-3252**	8E-6258 9J-2258	8E-6259 3G-9609	-	1U-1254	3G-0169	-	6Y-3254	1U-0257	-	**25**
84 *3,31"*	100 *3,94"*	215 *8,46"*	4,10 *9,04*	**1U-3302**	107-3308 9J-2308	8E-6259 3G-9609	-	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
100 *3,94"*	108 *4,25"*	240 *9,45"*	6,40 *14,11*	**1U-3352**	8E-6358 9J-2358	8E-6359 3G-9549	-	1U-1354	1U-1350	-	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
116 *4,57"*	124 *4,88"*	263 *10,35"*	9,50 *20,94*	**7T-3402**	7T-3408	8E-8409	-	-	-	-	6I-6404 /05/06	-	-	**40**
124 *4,88"*	130 *5,12"*	293 *11,54"*	12,30 *27,12*	**9W-8452** 1U-3452	8E-0468	8E-8469	-	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	-	-	**46**
146 *5,75"*	148 *5,83"*	338 *13,31"*	19,00 *41,89*	**9W-8552** 1U-3552	6Y-8558 1U-1558	8E-5559 3G-9559	-	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**
142 *5,59"*	70 *2,76"*	142 *5,59"*	5,24 *11,55*	-			**9W-8552 PS**							
180 *7,09"*	190 *7,48"*	410 *16,14"*	30,40 *67,02*	**6I-6602**	6I-6608	6I-6609	-	-	-	119-8604/05/06	6I-6604 /05/06 6I-6605 RH/06 LH	-	-	**60**
180 *7,09"*	200 *7,87"*	415 *16,34"*	37,30 *82,23*	**4T-4702**	4T-4708	4T-4707	-	-	-	133-0704 /05/06 100-7416 /RH/LH	-	-	-	**70**

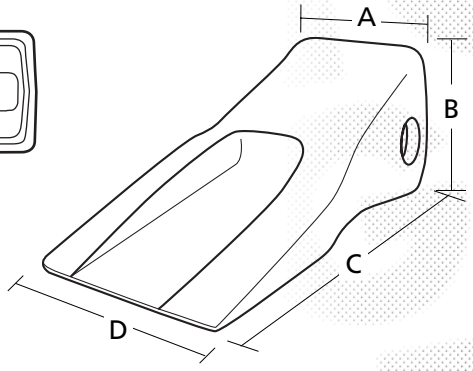
Side Pin Teeth: Self Sharpening Long

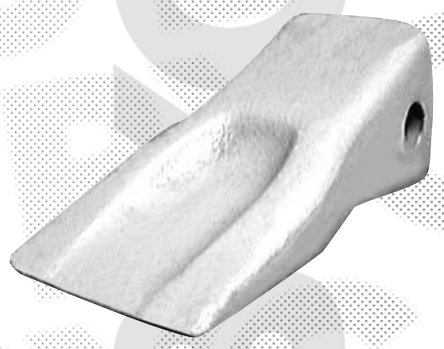


mm. A	B	C	KG lb										
60 *2,36"*	68 *2,68"*	141 *5,55"*	1,43 *3,15*	**1U-3202 P**	8E-6208 1U-4208	8E-6209 4T-0001	4T-1204	8J-7525	-	-	9J-4207	-	**20**
74 *2,91"*	88 *3,46"*	192 *7,56"*	3,15 *6,94*	**1U-3252 P**	8E-6258 9J-2258	8E-6259 3G-9609	1U-1254	3G-0169	-	6Y-3254	1U-0257	-	**25**
85 *3,35"*	101 *3,98"*	215 *8,46"*	3,80 *8,38*	**1U-3302 P**	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
95 *3,74"*	106 *4,17"*	235 *9,25"*	5,00 *11,02*	**1U-3352 P**	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	-	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
125 *4,92"*	133 *5,24"*	288 *11,34"*	11,20 *24,69*	**9W-8452 P** 1U-3452 P	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	-	-	**46**

Side Pin Teeth: Abrasion

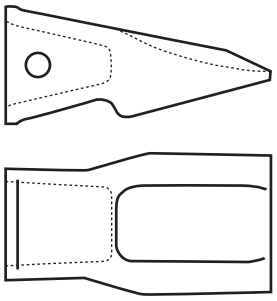


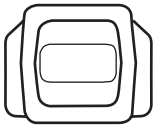


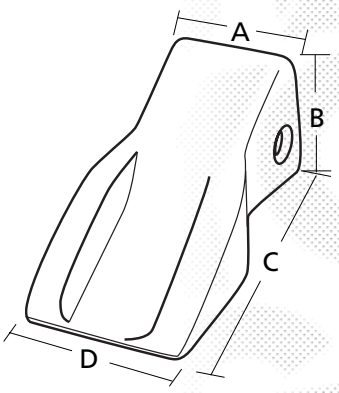


mm. A	B	C	D	KG lb										
61 *2,40"*	64 *2,52"*	146 *5,75"*	64 *2,52"*	1,23 *2,71*	**4T-2203**	8E-6208 1U-4208	8E-6209 4T-0001	4T-1204	8J-7525	-	-	9J-4207	-	**20**
75 *2,95"*	86 *3,39"*	194 *7,64"*	83 *3,27"*	4,20 *9,26*	**4T-2253**	8E-6258 9J-2258	8E-6259 3G-9609	1U-1254	3G-0169	-	6Y-3254	1U-0257	-	**25**
90 *3,54"*	99 *3,90"*	221 *8,70"*	101 *3,98"*	5,20 *11,46*	**4T-2303**	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
98 *3,86"*	108 *4,25"*	236 *9,29"*	109 *4,29"*	8,00 *17,64*	**4T-2353**	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	-	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
126 *4,96"*	130 *5,12"*	293 *11,54"*	137 *5,39"*	15,40 *33,95*	**9W-1453**	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	-	-	**46**
155 *6,10"*	153 *6,02"*	334 *13,15"*	176 *6,93"*	22,40 *49,38*	**9W-1553**	6Y-8558 1U-1558	8E-5559 3G-9559	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**
203 *7,99"*	215 *8,46"*	417 *16,42"*	228 *8,98"*	49,00 *108,02*	**4T-4703**	4T-4708	4T4707	-	-	133-0704 /05/06 100-7416 /RH/LH	-	-	-	**70**

Side Pin Teeth: Heavy Duty Abrasion

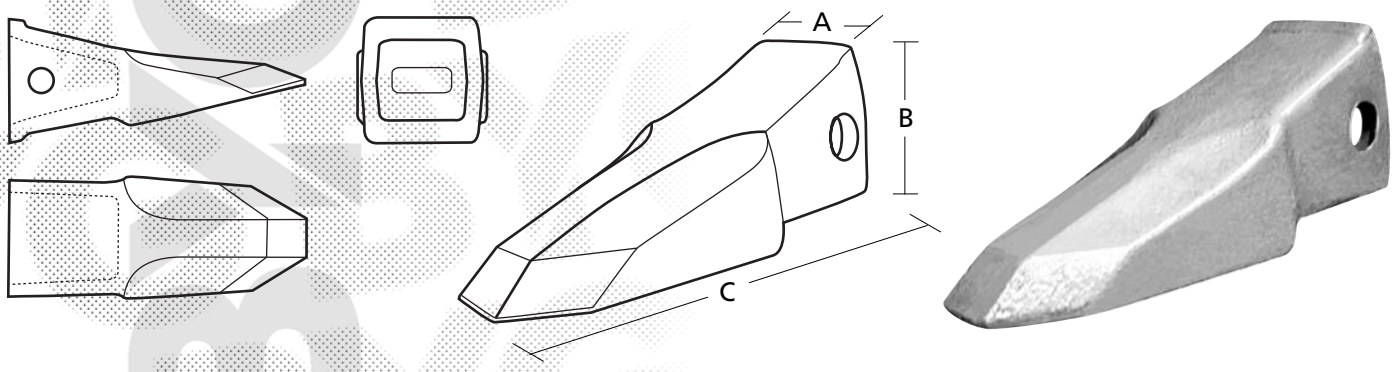






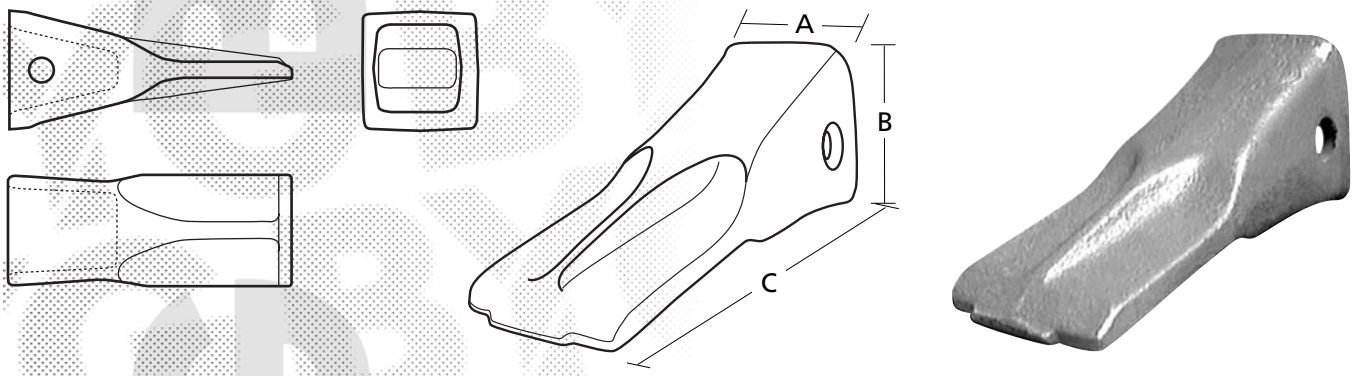
mm. A	B	C	D	KG lb										
79 *3,11"*	94 *3,70"*	201 *7,91"*	91 *3,58"*	5,10 *11,24*	**9N-4253**	8E-6258 9J-2258	8E-6259 3G-9609	1U-1254	3G-0169	-	6Y-3254	1U-0257	-	**25**
84 *3,31"*	102 *4,02"*	226 *8,90"*	107 *4,21"*	7,68 *16,93*	**9N-4303**	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
102 *4,02"*	115 *4,53"*	254 *10,00"*	122 *4,80"*	11,80 *26,01*	**9N-4353**	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	-	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
133 *5,24"*	142 *5,59"*	310 *12,20"*	166 *6,54"*	21,80 *48,06*	**9N-4453**	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	-	-	**46**
160 *6,30"*	160 *6,30"*	346 *13,62"*	190 *7,48"*	31,20 *68,78*	**6Y-2553**	6Y-8558 1U-1558	8E-5559 3G-9559	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**
- -	- -	- -	- -	- -	*6I-6603*	6I-6608	6I-6609	-	-	119-8604/05/06	6I-6604 /05/06 6I-6605 RH/06 LH	-	-	**60**
244 *9,61"*	240 *9,45"*	474 *18,66"*	292 *11,50"*	102,50 *225,97*	**6I-8803**	134-1808	134-1809	-	-	6I-8804	-	-	-	**80**

Side Pin Teeth: Rock Penetration



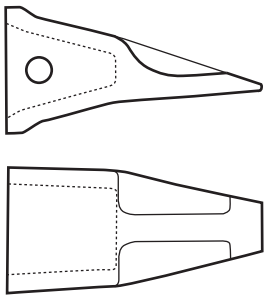
mm. A	B	C	KG lb										
76 *2,99"*	93 *3,66"*	231 *9,09"*	5,20 *11,46*	**4T-2253 RP**	8E-6258 9J-2258	8E-6259 3G-9609	1U-1254	3G-0169	-	6Y-3254	1U-0257	-	**25**
89 *3,50"*	110 *4,33"*	258 *10,16"*	7,80 *17,20*	**4T-2303 RP**	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
102 *4,02"*	108 *4,25"*	290 *11,42"*	10,70 *23,59*	**4T-2353 RP**	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	-	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
119 *4,69"*	129 *5,08"*	320 *12,60"*	13,60 *29,98*	**7T-3403 RP**	7T-3408	8E-8409	-	-	-	6I-6404 /05/06	-	-	**40**
137 *5,39"*	148 *5,83"*	354 *13,94"*	21,70 *47,84*	**9W-1453 RP**	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	-	-	**46**
160 *6,30"*	156 *6,14"*	367 *14,45"*	26,33 *58,05*	**9W-1553 RP**	6Y-8558 1U-1558	8E-5559 3G-9559	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**
197 *7,76"*	186 *7,32"*	451 *17,76"*	44,00 *97,00*	**6I-6603 RP**	6I-6608	6I-6609	-	-	119-8604/05/06	6I-6604 /05/06 6I-6605 RH/06 LH	-	-	**60**
200 *7,87"*	214 *8,43"*	496 *19,53"*	56,00 *123,46*	**4T-4703 RP**	4T-4708	4T4707	-	-	133-0704 /05/06 100-7416 /RH/LH	-	-	-	**70**

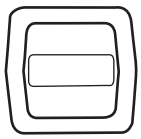
Side Pin Teeth: Esco SYL Style

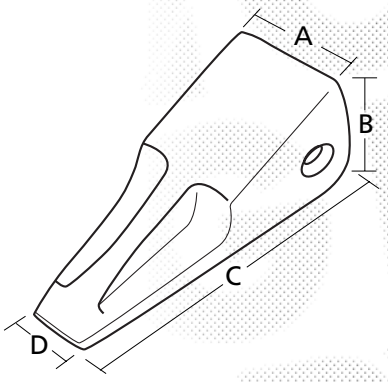


mm. A	B	C	KG lb										
74 *2,91"*	90 *3,54"*	210 *8,27"*	3,25 *7,16*	**1U-3252 SYL**	8E-6258 9J-2258	8E-6259 3G-9609	1U-1254	3G-0169	-	6Y-3254	1U-0257	-	**25**
92 *3,62"*	104 *4,09"*	230 *9,06"*	4,40 *9,70*	**1U-3302 SYL**	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
100 *3,94"*	115 *4,53"*	265 *10,43"*	6,70 *14,77*	**1U-3352 SYL**	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	-	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
125 *4,92"*	134 *5,28"*	306 *12,05"*	13,00 *28,66*	**8E-4402 SYL**	7T-3408	8E-8409	-	-	-	6I-6404 /05/06	-	-	**40**
130 *5,12"*	143 *5,63"*	321 *12,64"*	13,50 *29,76*	**9W-8452 SYL**	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	-	-	**46**
157 *6,18"*	154 *6,06"*	368 *14,49"*	21,20 *46,74*	**9W-8552 SYL**	6Y-8558 1U-1558	8E-5559 3G-9559	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**

Side Pin Teeth: Penetration

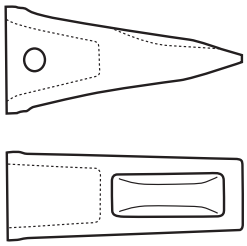


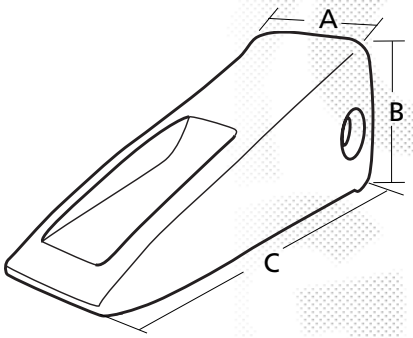




mm. A	B	C	D	KG lb										
56 *2,20"*	61 *2,40"*	146 *5,75"*	26 *1,02"*	1,00 *2,20*	**1U-3209**	8E-6208 1U-4208	8E-6209 4T-0001	4T-1204	8J-7525	-	-	9J-4207	-	**20**
62 *2,44"*	75 *2,95"*	168 *6,61"*	29 *1,14"*	2,10 *4,63*	*6Y-8229*	6Y-3228	8E-6259 3G-9609	-	-	-	6Y-3224	-	-	**22**
76 *2,99"*	87 *3,43"*	195 *7,68"*	32 *1,26"*	2,40 *5,29*	**9J-4259**	8E-6258 9J-2258	8E-6259 3G-9609	1U-1254	3G-0169	-	6Y-3254	1U-0257	-	**25**
89 *3,50"*	104 *4,09"*	219 *8,62"*	37 *1,46"*	3,60 *7,94*	**9J-4309**	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
102 *4,02"*	112 *4,41"*	245 *9,65"*	46 *1,81"*	5,50 *12,13*	**9J-4359**	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	-	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
118 *4,65"*	127 *5,00"*	267 *10,51"*	54 *2,13"*	8,40 *18,52*	**6Y-7409**	7T-3408	8E-8409	-	-	-	6I-6404 /05/06	-	-	**40**
128 *5,04"*	137 *5,39"*	292 *11,50"*	51 *2,01"*	10,50 *23,15*	**9W-8459** 9J4459	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	-	-	**46**
150 *5,91"*	142 *5,59"*	333 *13,11"*	61 *2,40"*	14,60 *32,19*	**9W-8559** 9J4559	6Y-8558 1U-1558	8E-5559 3G-9559	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**
190 *7,48"*	183 *7,20"*	380 *14,96"*	84 *3,31"*	26,70 *58,86*	**7I-7609**	6I-6608	6I-6609	-	-	119-8604/05/06	6I-6604 /05/06 6I-6605 RH/06 LH	-	-	**60**
209 *8,23"*	216 *8,50"*	317 *12,48"*	83 *3,27"*	39,00 *85,98*	**4T-4709**	4T-4708	4T4707	-	-	133-0704 /05/06 100-7416 /RH/LH	-	-	-	**70**
236 *9,29"*	239 *9,41"*	456 *17,95"*	105 *4,13"*	52,00 *114,64*	**117-6809**	134-1808	134-1809	-	-	6I-8804	-	-	-	**80**

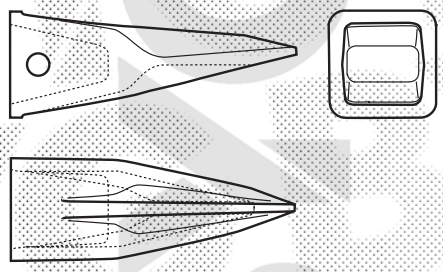
Side Pin Teeth: Heavy Duty Long

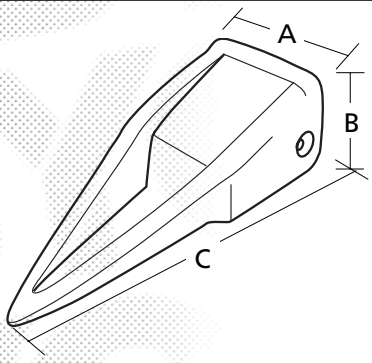




mm. A	B	C	KG lb										
76 *2,99"*	93 *3,66"*	202 *7,95"*	3,90 *8,60*	**9N-4252**	8E-6258 9J-2258	8E-6259 3G-9609	1U-1254	3G-0169	-	6Y-3254	1U-0257	-	**25**
91 *3,58"*	105 *4,13"*	221 *8,70"*	5,90 *13,01*	**9N-4302**	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
100 *3,94"*	117 *4,61"*	255 *10,04"*	8,80 *19,40*	**9N-4352**	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	-	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
278 *10,94"*	130 *5,12"*	119 *4,69"*	12,00 *26,46*	**8E-4402**	7T-3408	8E-8409	-	-	-	6I-6404 /05/06	-	-	**40**
134 *5,28"*	141 *5,55"*	316 *12,44"*	16,37 *36,09*	**9N-4452**	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	-	-	**46**
159 *6,26"*	160 *6,30"*	370 *14,57"*	24,60 *54,23*	**9N-4552**	6Y-8558 1U-1558	8E-5559 3G-9559	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**
195 *7,68"*	189 *7,44"*	410 *16,14"*	40,80 *89,95*	**7Y-0602**	6I-6608	6I-6609	-	-	119-8604 /05/06	6I-6604 /05/06 6I-6605 RH/06 LH	-	-	**60**

Side Pin Teeth: Tiger Long

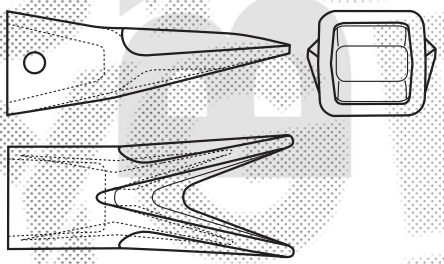


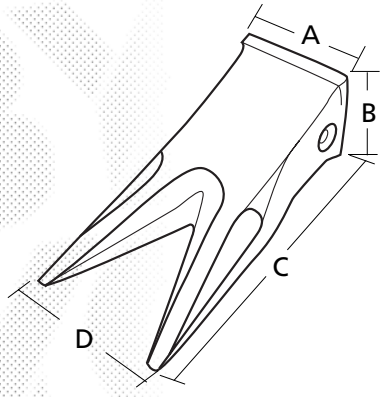


Back View

mm. A	B	C	KG lb										
55 *2,17"*	58 *2,28"*	160 *6,30"*	1,20 *2,65*	**1U-3202 TL**	8E-6208 1U-4208	8E-6209 4T-0001	4T-1204	8J-7525	-	-	9J-4207	-	**20**
76 *2,99"*	89 *3,50"*	215 *8,46"*	2,60 *5,73*	**1U-3252 TL** 9W-8259	8E-6258 9J-2258	8E-6259 3G-9609	1U-1254	3G-0169	-	6Y-3254	1U-0257	-	**25**
86 *3,39"*	105 *4,13"*	241 *9,49"*	4,40 *9,70*	**1U-3302 TL** 9W-8309	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
99 *3,90"*	108 *4,25"*	286 *11,26"*	6,20 *13,67*	**1U-3352 TL** 9W-8359	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	-	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
115 *4,53"*	129 *5,08"*	325 *12,80"*	10,00 *22,05*	**7T-3402 TL** 6Y-5409	7T-3408	8E-8409	-	-	-	6I-6404 /05/06	-	-	**40**
134 *5,28"*	134 *5,28"*	353 *13,90"*	13,40 *29,54*	**1U-3452 TL** 7T-8459	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	-	-	**46**
154 *6,06"*	149 *5,87"*	380 *14,96"*	16,60 *36,60*	**1U-3552 TL** 9W-6559	6Y-8558 1U-1558	8E-5559 3G-9559	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**
170 *6,69"*	184 *7,24"*	457 *17,99"*	33,90 *74,74*	**6I-6602 TL** 107-8609	6I-6608	6I-6609	-	-	119-8604/05/06	6I-6604 /05/06 6I-6605 RH/06 LH	-	-	**60**
200 *7,87"*	215 *8,46"*	505 *19,88"*	37,20 *82,01*	**4T-4702 TL**	4T-4708	4T4707	-	-	133-0704 /05/06 100-7416 /RH/LH	-	-	-	**70**

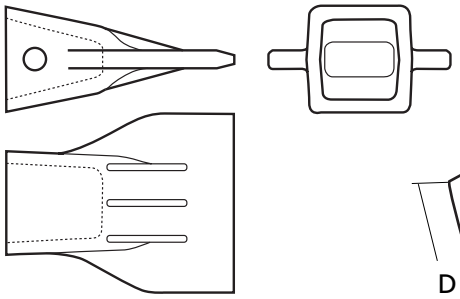
Side Pin Teeth: Twin Tiger

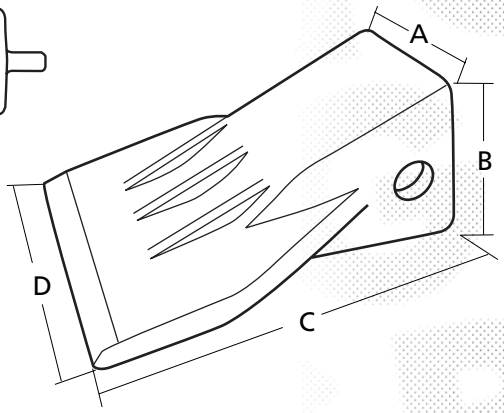




mm. A	B	C	D	KG lb										
55 *2,17"*	58 *2,28"*	155 *6,10"*	75 *2,95"*	1,30 *2,87*	**1U-3202 WTL**	8E-6208 1U-4208	8E-6209 4T-0001	4T-1204	8J-7525	-	-	9J-4207	-	**20**
79 *3,11"*	90,5 *3,56"*	215 *8,46"*	90 *3,54"*	2,60 *5,73*	**1U-3252 TL** 135-8258	8E-6258 9J-2258	8E-6259 3G-9609	1U-1254	3G-0169	-	6Y-3254	1U-0257	-	**25**
85 *3,35"*	104 *4,09"*	242 *9,53"*	104 *4,09"*	4,40 *9,70*	**1U-3302 TL** 135-9308	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
100 *3,94"*	108 *4,25"*	287 *11,30"*	122 *4,80"*	6,20 *13,67*	**1U-3352 TL** 135-9357	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	-	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
115 *4,53"*	129 *5,08"*	320 *12,60"*	141 *5,55"*	10,00 *22,05*	**7T-3402 TL**	7T-3408	8E-8409	-	-	-	6I-6404 /05/06	-	-	**40**
133 *5,24"*	134 *5,28"*	354 *13,94"*	158 *6,22"*	13,40 *29,54*	**1U-3452 TL** 138-6458	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	-	-	**46**
154 *6,06"*	148 *5,83"*	377 *14,84"*	183 *7,20"*	16,60 *36,60*	**1U-3552 TL** 138-6558	6Y-8558 1U-1558	8E-5559 3G-9559	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**
196 *7,72"*	185 *7,28"*	462 *18,19"*	235 *9,25"*	33,90 *74,74*	**6I-6602 TL**	6I-6608	6I-6609	-	-	119-8604 /05/06	6I-6604 /05/06 6I-6605 RH/06 LH	-	-	**60**

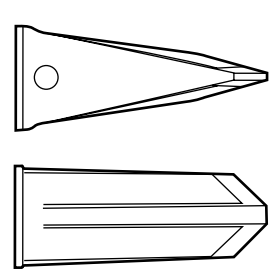
Side Pin Teeth: Wide

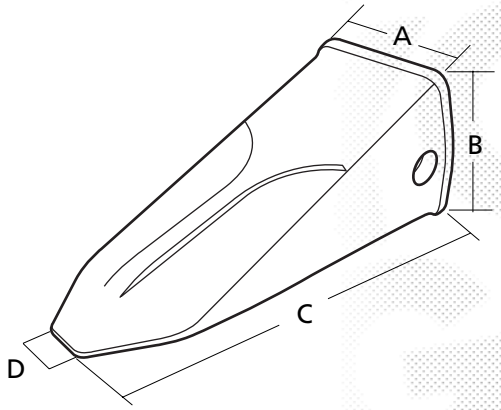




mm. A	B	C	D	KG lb										
73 *2,87"*	86 *3,39"*	196 *7,72"*	113 *4,45"*	3,20 *7,05*	**3G-8250**	8E-6258 9J-2258	8E-6259 3G-9609	1U-1254	3G-0169	-	6Y-3254	1U-0257	-	**25**
- -	- -	- -	- -	- -	*4T-1300*	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
- -	- -	- -	- -	- -	*8J-3350*	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	-	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
- -	- -	- -	- -	- -	*7T-3400*	7T-3408	8E-8409	-	-	-	6I-6404 /05/06	-	-	**40**
134 *5,28"*	134 *5,28"*	285 *11,22"*	230 *9,06"*	14,60 *32,19*	**8J-1450**	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	-	-	**46**
- -	- -	- -	- -	- -	*7J-9550*	6Y-8558 1U-1558	8E-5559 3G-9559	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**

Side Pin Teeth: Rock Chisel RC





mm. A	B	C	D	KG lb										
85 *3,35"*	101 *3,98"*	150 *5,91"*	30 *1,18"*	5,18 *11,42*	**1U-3302 RC**	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
95 *3,74"*	105 *4,13"*	280 *11,02"*	35 *1,38"*	7,90 *17,42*	**1U-3352 RC**	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	-	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
130 *5,12"*	135 *5,31"*	345 *13,58"*	35 *1,38"*	14,20 *31,31*	**1U-3452 RC**	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	-	-	**46**
150 *5,91"*	150 *5,91"*	390 *15,35"*	50 *1,97"*	23,30 *51,37*	**1U-3552 RC**	6Y-8558 1U-1558	8E-5559 3G-9559	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**
190 *7,48"*	160 *6,30"*	480 *18,90"*	75 *2,95"*	39,50 *87,08*	**6I-6602 RC**	6I-6608	6I-6609	-	-	119-8604/05/06	6I-6604 /05/06 6I-6605 RH/06 LH	-	-	**60**

ARM

Abrasion Resistant Material

What is ARM?

ARM (Abrasion Resistant Material) is a coating made of **extremely hard Tungsten particles** (note that Tungsten is harder than Quartz and Topaz).

The ARM coating forms a **protective shield over key wearing surfaces**. ARM coating is bondable to practically any tip, blade or wear part manufactured by BYG. The ARM coating is recommended for applications where sand, gravel and other abrasive materials severely disminish wear parts life.

Economy

ARM protects components from wear in critical areas. Compared with non-ARM components, **ARM protected parts can last up to 3-5 times longer** in hight abrasion/low to moderate impact conditions. This represents a substancial saving on total operating costs. ARM delivers dramaticaly lower costs per hour in appropiate applications.

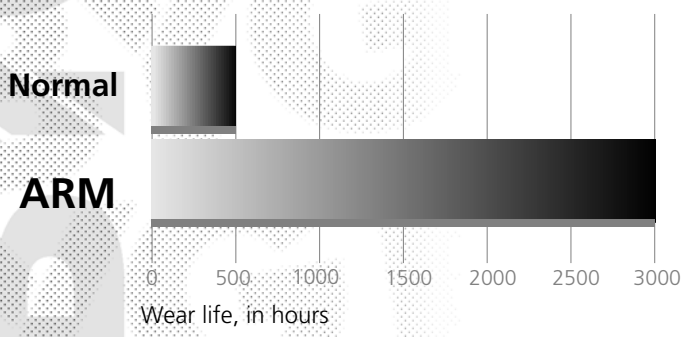
Price of ARM coated components is less than twice the price of a non coated component. ARM enhanced wear patterns improve penetration and help your machines do more work each hour, which increases your productivity and therefore your profitability.

Long wear life means you'll spend less time replacing wear parts, which help reduce total operating costs.

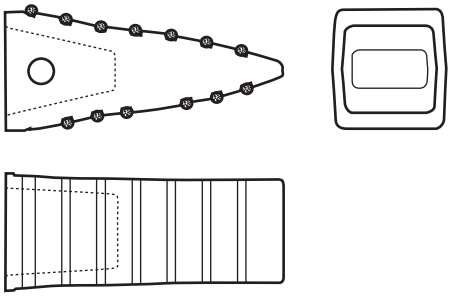
Applications

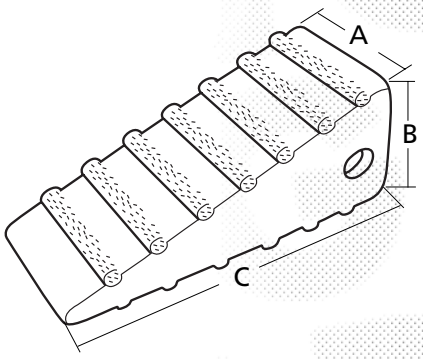
ARM cutting edges work best in high abrasion/low to moderate impact applications. Please do ask us for advise on the use of ARM components on your environmment.

Field Performance



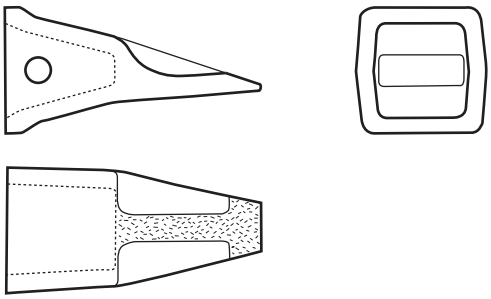
Side Pin Teeth: Heavy Duty ARM

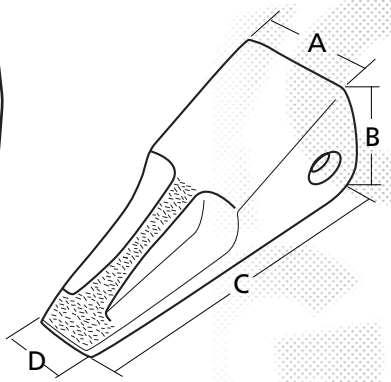




mm. A	B	C	KG lb										
- -	- -	- -	- -	*125-8302*	107-3308 9J-2308	8E-6259 3G-9609	1U-1304	9J-8929	-	3G-6304 /05/06 8E-9490 /95/96	4T-4307 1U-0307 3G-9307	3G-5307	**30**
- -	- -	- -	- -	*135-9352*	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	-	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
- -	- -	- -	- -	*116-7402*	7T-3408	8E-8409	-	-	-	6I-6404 /05/06	-	-	**40**
134 *5,28"*	141 *5,55"*	316 *12,44"*	19,40 *42,77*	**101-9054**	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	-	-	**46**
159 *6,26"*	160 *6,30"*	370 *14,57"*	24,00 *52,91*	**101-9055**	6Y-8558 1U-1558	8E-5559 3G-9559	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**
- -	- -	- -	- -	*107-8602*	6I-6608	6I-6609	-	-	119-8604/05/06	6I-6604 /05/06 6I-6605 RH/06 LH	-	-	**60**
- -	- -	- -	- -	*107-2001*	4T-4708	4T4707	-	-	133-0704 /05/06 100-7416 /RH/LH	-	-	-	**70**

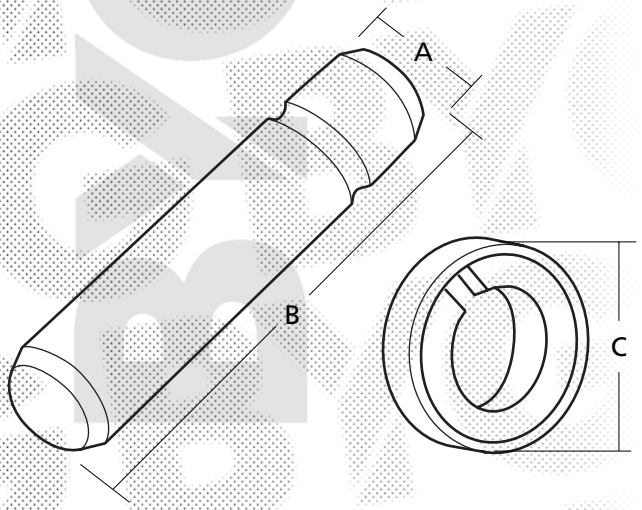
Side Pin Teeth: Penetration ARM





mm. A	B	C	D	KG lb									
102 *4,02"*	112 *4,41"*	245 *9,65"*	46 *1,81"*	5,50 *12,13*	**119-9359**	8E-6358 9J-2358	8E-6359 3G-9549	1U-1354	1U-1350	-	6I-6354 /55/56	3G-3357 1U-1357	3G-1357 3G-2357	**35**
118 *4,65"*	127 *5,00"*	267 *10,51"*	54 *2,13"*	8,40 *18,52*	**124-7409**	7T-3408	8E-8409	-	-	-	6I-6404 /05/06	-	-	**40**
128 *5,04"*	137 *5,39"*	292 *11,50"*	51 *2,01"*	11,30 *24,91*	**116-7459**	8E-0468	8E-8469	8E-0464	-	114-0464 /65/66	6I-6464 /65/66 6I-6465 RH/66 LH	-	-	**46**
150 *5,91"*	142 *5,59"*	333 *13,11"*	61 *2,40"*	14,60 *32,19*	**113-0559**	6Y-8558 1U-1558	8E-5559 3G-9559	7J-9554	-	107-3554 /55/56	6I-6554 /55/56 6I-6555 RH/56 LH	-	-	**55**
190 *7,48"*	183 *7,20"*	380 *14,96"*	84 *3,31"*	28,50 *62,83*	**119-9609**	6I-6608	6I-6609	-	-	119-8604/05/06	6I-6604 /05/06 6I-6605 RH/06 LH	-	-	**60**

Pin & Washers



mm. A	B	C			
11 *0,43"*	61 *2,40"*	22 *0,87"*	**8E-6208** 1U-4208	**8E-6209** 4T-0001	**20** J200
14 *0,55"*	69 *2,72"*	30 *1,18"*	*6Y-3228*	**8E-6259** 3G-9609	**22** J225
14 *0,55"*	78 *3,07"*	30 *1,18"*	**8E-6258** 9J-2258	**8E-6259** 3G-9609	**25** J250
14 *0,55"*	92 *3,62"*	30 *1,18"*	**107-3308** 9J-2308	**8E-6259** 3G-9609	**30** J300
19 *0,75"*	108 *4,25"*	40 *1,57"*	**8E-6358** 9J-2358	**8E-6359** 3G-9549	**35** J350
22 *0,87"*	119 *4,69"*	42 *1,65"*	**7T-3408**	**8E-8409**	**40** J400
19 *0,75"*	135 *5,31"*	40 *1,57"*	**9W-8296** 4T-1458	**8E-6359** 3G-9549	**45** J450
24 *0,94"*	141 *5,55"*	44 *1,73"*	**8E-0468**	**8E-8469**	**46** J460
25 *0,98"*	162 *6,38"*	53 *2,09"*	**6Y-8558** 1U-1558	**8E-5559** 3G-9559	**55** J550
30 *1,18"*	195 *7,68"*	59 *2,32"*	**6I-6608**	**6I-6609**	**60** J600
32 *1,26"*	200 *7,87"*	70 *2,76"*	**4T-4708**	**4T-4707**	**70** J700
- -	- -	- -	*102-0101*	*101-2874*	**80** J800

Heavy Duty Pin & Washers

Fig. 1

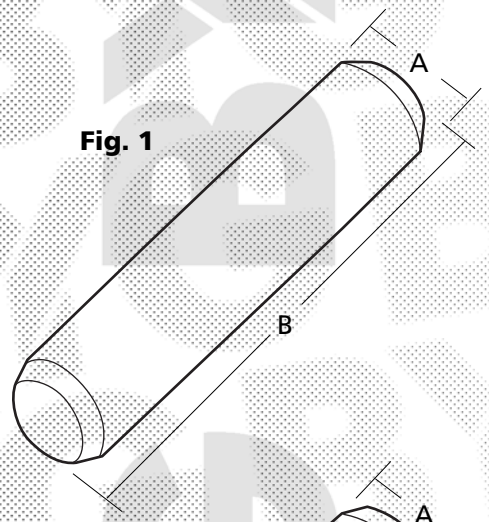
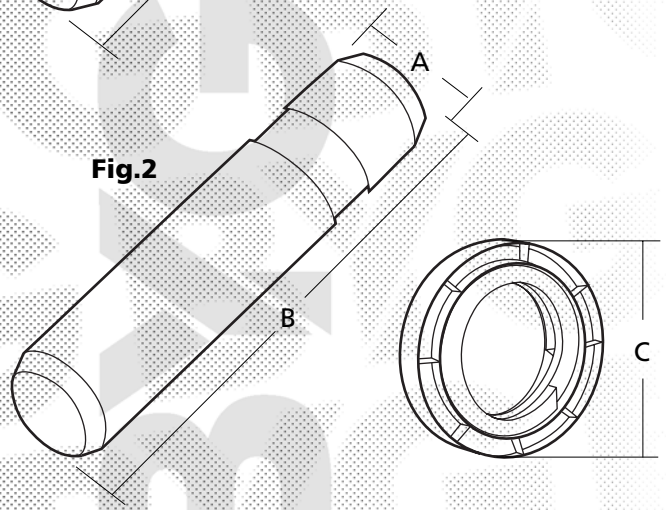


Fig.2



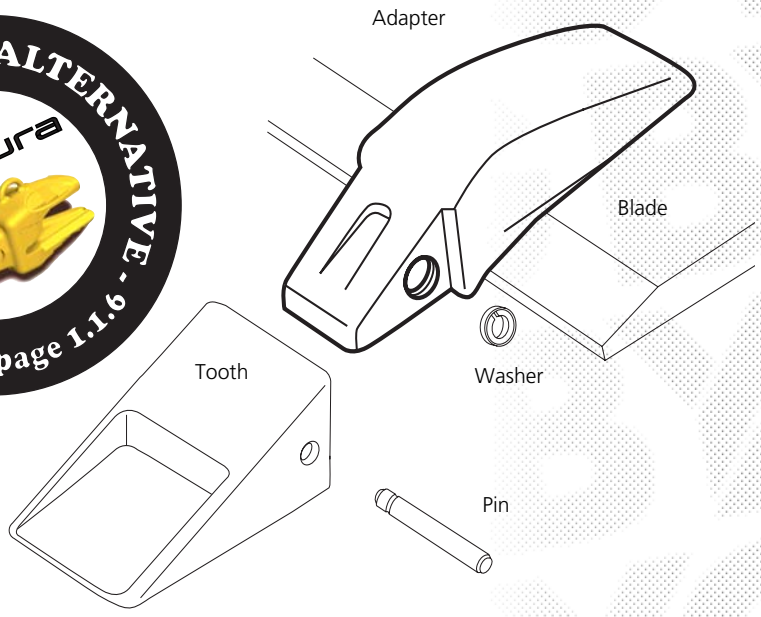
mm. A	B	C	Fig. 1	Fig. 2		
14 *0,55"*	69 *2,72"*	30 *1,18"*	**132-4762**	-	**133-0699**	**22** J225
14 *0,55"*	78 *3,07"*	30 *1,18"*	**132-4763**	-	**133-0699**	**25** J250
14 *0,55"*	92 *3,62"*	30 *1,18"*	**132-4766**	-	**133-0699**	**30** J300
19 *0,75"*	108 *4,25"*	40 *1,57"*	-	**114-0358**	**114-0359**	**35** J350
22 *0,87"*	119 *4,69"*	42 *1,65"*	-	**116-7408**	**116-7409**	**40** J400
24 *0,94"*	135 *5,31"*	44 *1,73"*	-	**114-0468**	**107-3469**	**46** J460
25 *0,98"*	162 *6,38"*	53 *2,09"*	-	**107-3378**	**107-8559**	**55** J550
30 *1,18"*	195 *7,68"*	59 *2,32"*	-	**113-9608**	**113-9609**	**60** J600
32 *1,26"*	200 *7,87"*	70 *2,76"*	-	**4T-4708**	**113-4709**	**70** J700
35 *1,38"*	240 *9,45"*	70 *2,76"*	-	**134-1808**	**134-1809**	**80** J800

DRP

Caterpillar

Side Pin Adapters

Bold ref. number, product available
Other ref. number please consult.

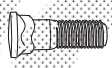


Ton			
6,500-10,000	20-25	416, 426, 428, 910, 916, 920, 926, 933	**20**
6,500-10,000	20-25		**22**
10,000-20,000	25-32	936, 943, 950, 953, 963	**25**
20,000-23,000	32-40	966, 973, 977	**30**
25,000-63,500	38-50	980, 983, 988	**35** **40** **46**
63,500-90,000	50-64	992	**55**
90000-125000	64-75	375	**60**
125,000-170,000	64-120	994	**70**
> 170,000	> 120	994	**80**

Flush	Bottom Strap	Two Strap HD	Two Strap ARM	Excavator	Bolt-on 2 Holes	Adapter Scraper	Bolt-on 3 Holes	Corner Adapter	Corner Adapter 2 Holes	
4T-1204	**8J-7525**	-	-	**119-3205** **119-3204**	**9J-4207** **8E-2184**	-	-	**1U-2208** **1U-2209**	**6I-9250** **6I-9251**	**20**
	-	-	-	**6Y-3224**	-	-	-	-	-	**22**
1U-1254	**3G-0169**	-	-	**6Y-3254**	**1U-0257**	-	-	**3G-4258** **3G-4259**	**6I-9250** **6I-9251**	**25**
1U-1304	**9J-8929**	-	-	**3G-6304 HD / 8E-9490** **3G-6305 HD / 8E-9495** **3G-6306 HD / 8E-9496**	**1U-0307** **4T-4307** **3G-9307**	**9J-2307**	**3G-5307**	**3G-4308** **3G-4309** **3G-8308** **3G-8309**	**8E-5308** **8E-5309**	**30**
1U-1354	**1U-1350**	**135-9354** *135-9355* *135-9356* *113-0354* *113-0355* *113-0356*	- - - *113-9354E* *113-9355E* *113-9356E*	**6I-6354** **6I-6355** **6I-6356**	*3G-7357* **3G-3357** **1U-1357**	-	**3G-1357** **3G-2357**	**3G-5358** **3G-5359** *1U-1358* *1U-1359*	**8E-5358** **8E-5359**	**35**
-	-	**125-8404** *125-8405* *125-8406*	*125-8407* *125-8408* *125-8409*	**6I-6404** **6I-6405** **6I-6406**	**6I-9898**	-	-	*1U-1358* *1U-1359*	**6I-8243** **6I-8244**	**40**
8E-0464 **8E-0465** **8E-0466**	-	**114-0464** **114-0465** **114-0466**	*116-7464* *116-7465* *116-7466*	**6I-6464** **6I-6465 / 6I-6465 RH** **6I-6466 / 6I-6466 LH**	*8E-3467* **8E-2467**	-	-	*8E-3468* *8E-3469* *8E-2468* *8E-2469*	-	**46**
7J-9554	-	**107-3554** **107-3555** **107-3556**	*112-2554* *112-2555* *112-2556*	**6I-6554** **6I-6555 / 6I-6555 RH** **6I-6556 / 6I-6556 LH**	-	-	-	-	-	**55**
-	-	**119-8604** **119-8605** **119-8606**	*119-8607* *119-8609* *119-8608*	**6I-6604** **6I-6605 / 6I-6605 RH** **6I-6606 / 6I-6606 LH**	-	-	-	-	-	**60**
-	-	**133-0704** **133-0705** **133-0706** **100-7416** **100-7416 RH** **100-7416 LH**	*133-0707* *133-0709* *133-0708* - - -	- FC700-90 R - FC700-90 R LH - FC700-90 R RH	-	-	-	-	-	**70**
-	-	**6I-8804**	-	-	-	-	-	-	-	**80**
Pag 2.17	Pag 2.17	Pag 2.18 - 19	Pag 2.18 - 19	Pag 2.20 - 21	Pag 2.22	Pag 2.22	Pag 2.23	Pag 2.23	Pag 2.24	

Adapters

What you need to know



Bolts

Ref. **Original**	Ref. **BYG**
CAT 5J-4771	**PB-326**
CAT 8J-2928	**PB-946**
CAT1J-3527	**PB-948**
CAT 5P-8361	**PB-805**
CAT 6F-0196	**PB-734**
CAT 4J-9058	**PB-943**
CAT 5P-8823	**PB-801**
CAT 4F-3656	**PB-512**

Nuts

Ref. **Original**	Ref. **BYG**
CAT 2J-3506	**NP-190**
CAT 8J-2933	**NP-100B**
CAT 5P-8362	**NP-114B**
CAT 2J-3505	**NP-222**
CAT 4K-0367	**NP-158**

Procedure for welding bucket tip adapters to the base cutting edge:

- **flush mount**
- **bottom strap**
- **two strap adapters**

Introduction

This instruction gives the procedure for welding bucket tip adapters to the base cutting edge used on Loader and Excavator Buckets.

Weld preparation

Use basic electrodes with a low contents of hydrogen **E7018** weld rod or **E70T-5** (do not use E70T-1) cored wire with CO_2 gas shielding. Store weld rod in 120°C (250°F) oven. Recondition exposed supply of weld rod by reheating for two hours at 260°C (500°F). Remove only enough weld rod for one hour of use. The moisture (water content in the air) level of exposed low hydrogen electrodes can be too high and can cause weld cracking.

Warning

Do not weld on painted areas.
The effect of gases from burned paint is a danger to the person doing the welding.

Do not perform any procedure, outlined in this publication, or order any parts until you read and understand the information contained within

Before you start welding

1 Grind all weld points smooth on the base edge and on the adapter.

2 Remove all paint, rust, grease and dirt from the surfaces to be welded using a wire brush.

> **NOTE**: Weld on painted or dirty areas can cause welds of poor quality. The result is weld embrittle ment from hydrogen, porosity or lack of fusion.

High speed disc sanders are preferred over grinders as grinding on a cold, heat treated steel with a grinding wheel can generate hot spots, as indicated by a blue/black or brown color. Rapid cooling after grinding creates small surface cracks.

3 Do not weld, flame cut, gouge, or do any heavy grinding on the base edge, adapters or welds until the area to be worked on is preheated to 204°C to 260°C (400°F to 500°F).

4 Do not use gas shielded welding in windy areas or where fans are present. Poor welds can occur due to excessive cooling.

Preheating process

It is not necessary to preheat the adapters or the base edge when the base cutting edge is 25mm. (1in) thick or less.
Do not preheat the entire length of the blade edge already welded to a bucket. Expansion of the base edge can cause cracks in the rear edge weld.
Do not preheat any portion of the base edge or adapters until all components are at room temperature.
Verify position of corner adapters to the bucket and then equally space the adapters across the base edge.
Preheat the entire adapter and an area of the base edge extending 100mm (4in) beyond the weld area from the side opposite to be welded. Heat to 260°C (500°F) and check the temperatures of both pieces on the side to be welded

> **NOTE**: To prevent losing hardness, do not exceed temperatures 315°C (600°F). Reheat if tempera tures drop below 175°C (350°

General weld procedure

1 The ground cable should be firmly attached to the base edge, not the adapters.

2 Position the work so that the weld can be applied horizonally, allowing for higher amperage and deposition rates along with a puddle of molten metal that is easier to control.

3 Good weld fusion with the adapters and base edge is extremely critical. Incomplete fusion with the adapter or base edge surfaces will result in an underbead crack. This unseen crack, with time, will propagate to the surface at the edge of the weld, leading to strap or base edge cracking and finally to breakage.

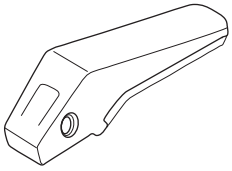
4 BYG adapters have either a 30° or 45° bevel along the sides of the straps which makes it difficult to obtain the proper electrode angle and to maintain puddle control unless the base edge is positioned on end.Ideally, the bevel welds are best controlled with the base edge vertical and the adapter sides horizontal, and the fillet welds with the edge moved off from vertical as shown.

5 In most cases, it will be impossible to adjust the weld area into this position, but whatever angle the edge or bucket can be placed, it will be helpful in preventing the molten puddle from pulling away from the beveled surface. More numerous, but smaller, weld passes will help to compensate for lack of proper position.

Adapters

What you need to know

Installation of flush adapters



1 Place the adapter on the lip so that the corner adapters are well placed on the corners. Make sure that they sit well on the bevel of the blade.

2 Preheat and start welding a few points to maintain the adapters in place. See general welding instructions.

3 It is convenient to start welding at points X and Y as indicated in *fig. 1* in order to make sure that the defects of the welding that is produced at the beginning of the strings can be eliminated.

4 Start welding in the center of the strap of the adapter welding around it until reaching the same point on the opposite side (area B *fig. 2*). Continue welding strings on each side from the initial points at 25 mm from the border of the lip until meeting the first string again (area A *fig. 2*). Repeat the indicated operations until completing the welding with the required thickness.

5 Weld the remaining part between the adapter and the border of the lip. Maintain the same thickness of the string than for the rest of the weldings.

6 Use a grindstone to eliminate the irregularities to obtain a smooth finish, specially in the lower front part.

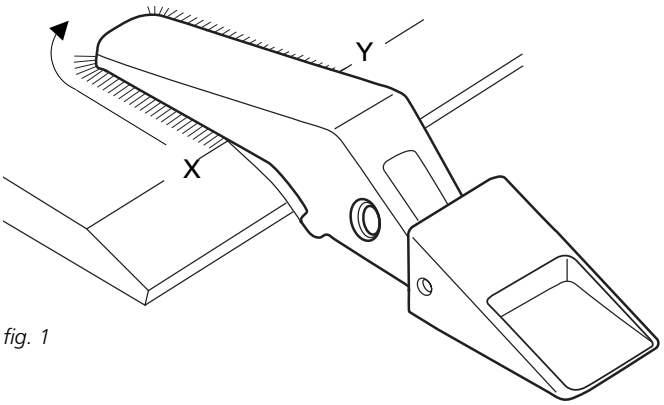


fig. 1

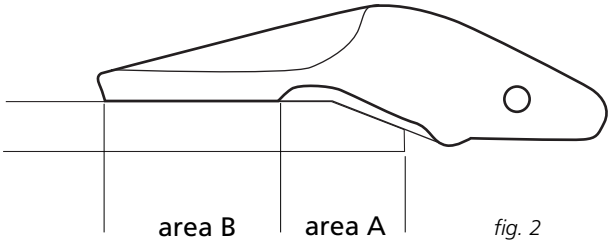
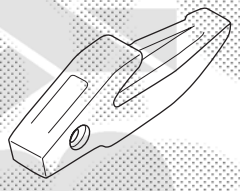


fig. 2

Installation of Bottom Strap adapters



1 Place the adapters on the blade and make sure they settle well on the bevel.

2 Preheat and weld the adapters in place with a few welding points. See general welding instructions.

3 Start with initial welding points as shown on fig. 1 taking into account that 25 mm of the frontal part will have to remain without welding.

4 Weld the lower part of the strap starting with a string of 100 mm from the border of the lip (area B, fig. 3), welding around it until reaching the same point on the opposite side. Continue welding from X to Y until joining the ends of the first string (fig. 1). Repeat the process various times until the welding has reached the dimension specified in the table below (fig. 4) for area B. Continue welding in area A gradually extending to area B to reach a gradual transition until area A has reached the sized specified in the table (fig. 4).

5 Polish the welding surface with a grindstone trying to maintain the grooves caused by the grindstone parallel to the border of the lip (fig. 5).

6 Now start welding the short (upper) strap beginning the welding string at an initial point of approx. 25 mm from the border of the lip continuing the border of the loader blade until finishing at 25 mm from the border of the other side (fig. 2). Repear the passes until reaching the welding thickness indicated in the table (fig. 4) for area A (fig. 3).

7 Use a grindstone to eliminate the irregularities to obtain a smooth finish

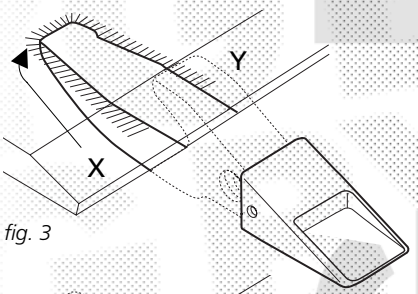


fig. 3

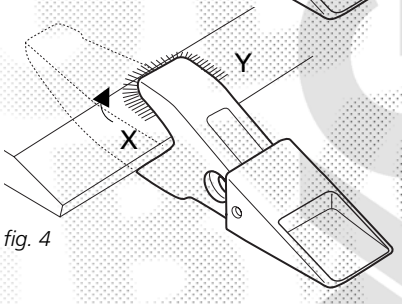


fig. 4

Area **A**	Area **B**	
12mm.	6mm.	**25**
15mm.	7mm.	**30**
18mm.	9mm.	**35-40**
25mm.	12mm.	**45-50**
30mm.	17mm.	**55-60**

fig. 6

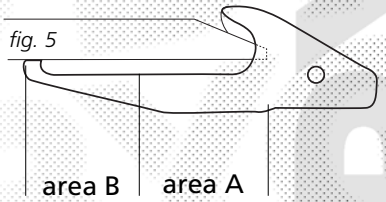


fig. 5

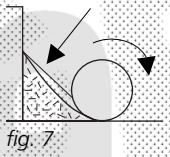


fig. 7

Adapters

What you need to know

Installation of two strap adapters

1 Place the adapters on the blade and be sure that they settle well on the bevel.

2 Preheat and weld the adapters in place. Follow the general welding instructions.

3 Start welding in the center of the above strap of the adapter welding around it until reaching the same point on the opposite side (area A, figure 2). Continue with welding strings on each side from the initial points at 25 mm from the border of the lip until meeting the first string again. Repeat the indicated operations until completing the welding.

4 Polish the welding surface with a grindstone.

5 Turn the bucket upside down.

6 Weld the lower part of the adapter (short strap) starting at 25 mm from the border of the lip until the center of the backside, welding alternative strings on each sdie which will meet on the backside until they reach the specified welding thickness.

7 Use a grindstone to eliminate the irregularities to obtain a smooth finish.

fig. 1

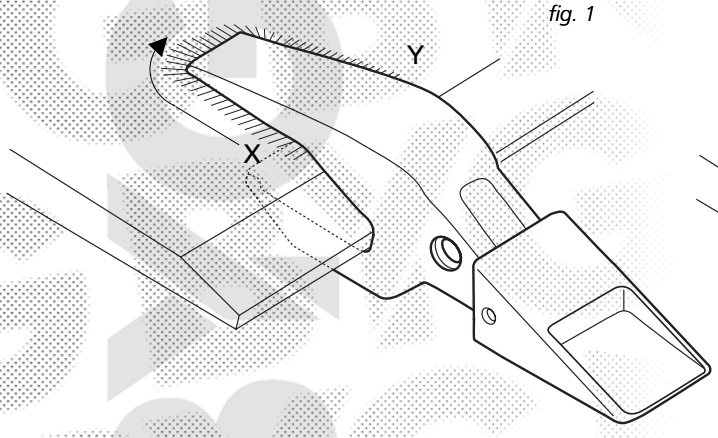
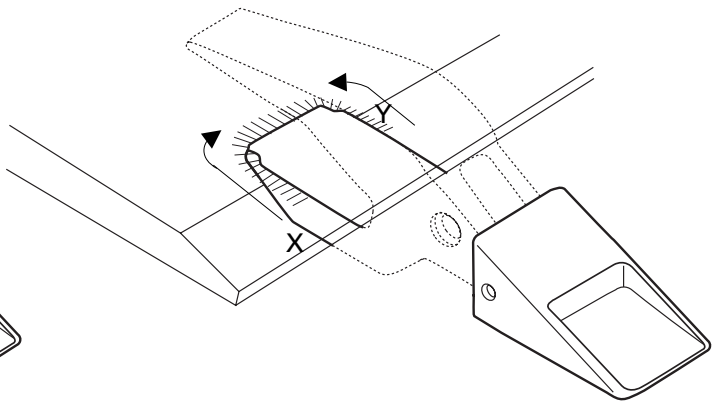
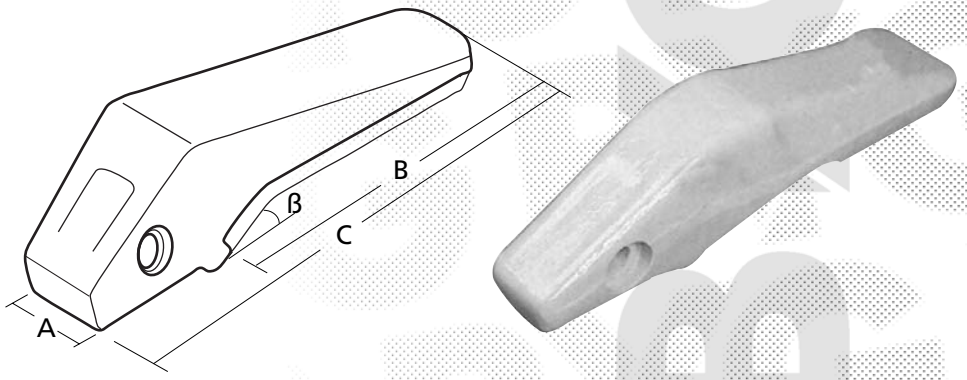


fig. 2



Weld-On Flush Mount Adapters

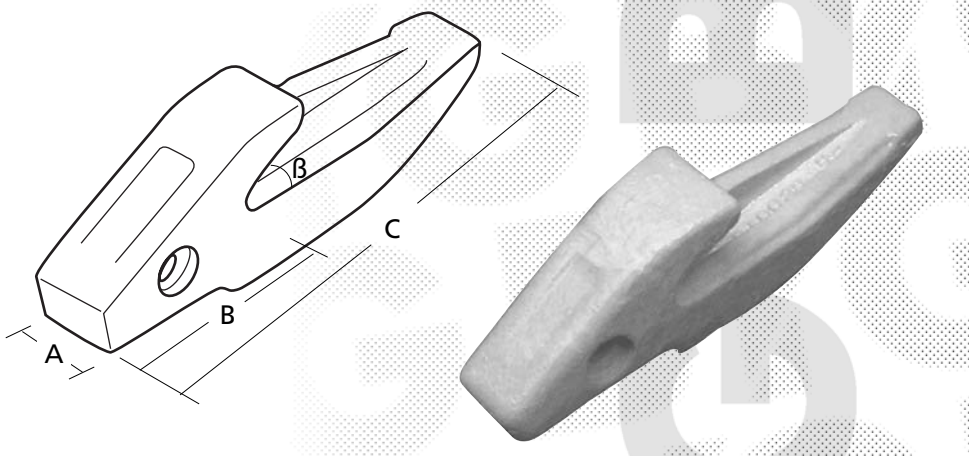
Features
- Recommended where a good penetration of teeth is required.
- Maintain the lower part of the bucket flat for a good finish.
- The number of adapters to be welded is unlimited.
- Easy to clean.
- Versatile, adaptable to the majority of buckets.



mm. A	B	C	ß		KG lb		Right	Left		
35 *1,38"*	185 *7,28"*	250 *9,84"*	22 º	13 - 25 *0,51" - 0,98"*	2,10 *4,63*	**4T-1204**	-	-	935, 931, 910 ,IT12, 428, 426, 416	**20**
47 *1,85"*	232 *9,13"*	340 *13,39"*	22 º	19 - 32 *0,75" - 1,26"*	5,70 *12,57*	**1U-1254**	-	-	953, 951, 943, 941, 936, 930, 926, 920, 916, IT28, IT18	**25**
56 *2,20"*	235 *9,25"*	355 *13,98"*	22 º	25 - 38 *0,98" - 1,50"*	9,60 *21,16*	**1U-1304**	-	-	966C, 963, 955, 950, 944	**30**
65 *2,56"*	285 *11,22"*	425 *16,73"*	22 º	32 - 45 *1,26" - 1,77"*	15,20 *33,51*	**1U-1354**	-	-	980, 977, 973, 966D	**35**
85 *3,35"*	320 *12,60"*	472 *18,58"*	22 º	45 - 51 *1,77" - 2,01"*	17,56 *38,71*	**8E-0464** 7T-8454	**8E-0465**	**8E-0466**	988, 983, 980, 973, 966D	**46** 45
108 *4,25"*	290 *11,42"*	472 *18,58"*	23 º	51 - 64 *2,01" - 2,52"*	34,12 *75,22*	**7J-9554** 3G-4554	-	-	988, 992B, 992C	**55**

Bottom Strap Weld-On Adapters

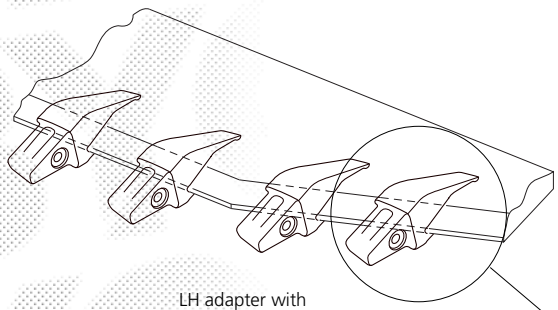
Features
- Recommended where the protection of the blade is important. It is not necesary that the surface to be worked on is even
- Improves loading and unloading since neither the teeth nor the adapters hinder the entry of material
- Good excavation. Unlimited number of weld-on adapters



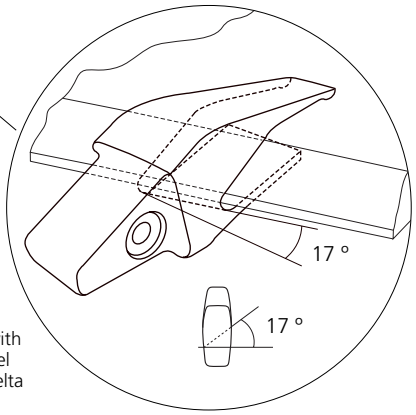
mm. A	B	C	ß		KG lb			
35 *1,38"*	75 *2,95"*	175 *6,89"*	21 º	13 - 25 *0,51" - 0,98"*	1,75 *3,86*	**8J-7525**	935, 931, 910 , IT12, 428, 426, 416	**20**
47 *1,85"*	105 *4,13"*	285 *11,22"*	21 º	19 - 32 *0,75" - 1,26"*	4,30 *9,48*	**3G-0169**	953, 951, 943, 941, 936, 930, 926, 920, 916, IT28, IT18	**25**
56 *2,20"*	115 *4,53"*	315 *12,40"*	22 º	25 - 38 *0,98" - 1,50"*	6,35 *14,00*	**9J-8929**	966C, 963, 955, 950, 944	**30**
65 *2,56"*	125 *4,92"*	385 *15,16"*	22 º	32 - 45 *1,26" - 1,77"*	9,60 *21,16*	**1U-1350**	980, 977, 973, 966D	**35**

Two Strap for Loader

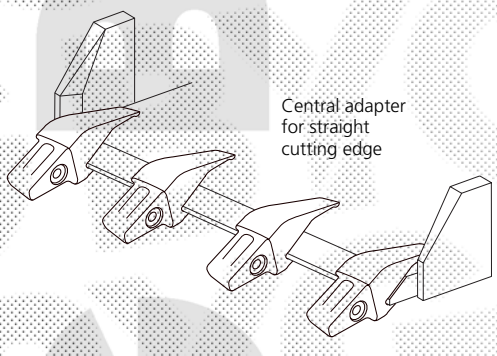
Features
- The use of two strap weld on adapters is recommended for heavy duty applications
- Only available for big sized equipment
- Should be used for loading activities where the life of the tyres is not of vital importance
- Excellent protection of the blade



LH adapter with internal bevel for delta cutting edge.



The adapters with an internal bevel adjust to the delta cutting edge.

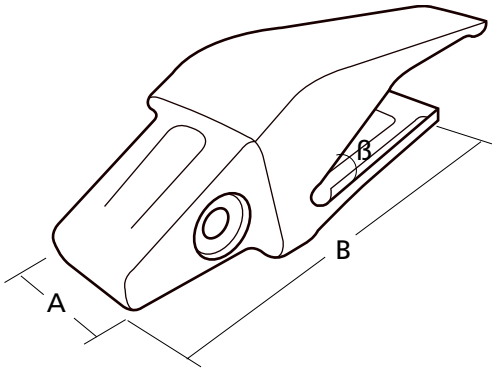


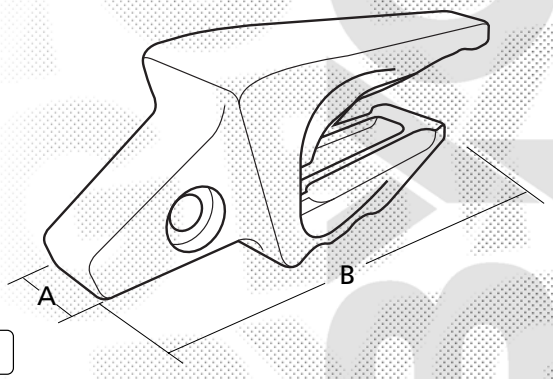
Central adapter for straight cutting edge

mm. A	B	β	↕	KG lb	HD	ARM	Cen	Right	Left		
60 *2,36"*	320 *12,60"*	22 °	40 *1,57"*	14,20 *31,31*	# **135-9354**	-	●				
-	-	-		-	*135-9355*	-		●		966	
-	-	-		-	*135-9356*	-			●		
-	-	-		-	*113-0354*	-	●				
-	-	-		-	*113-0355*	-		●			**35**
-	-	-	45	-	*113-0356*	-			●		
-	-	-	*1,77"*	-	-	**113-9354E**	●			980	
-	-	-		-	-	*113-9355E*		●			
-	-	-		-	-	*113-9356E*			●		
63 *2,48"*	335 *13,19"*	22 °		18,70 *41,23*	# **125-8404**	-	●				
-	-	-		-	*125-8405*	-		●			
-	-	-	45	-	*125-8406*	-			●		
-	-	-	*1,77"*	-	-	**125-8407**	●			980	**40**
-	-	-		-	-	*125-8408*		●			
-	-	-		-	-	*125-8409*			●		
				20,60 *45,41*	**114-0464** 8E-3464	-	●				
85 *3,35"*	345 *13,58"*			21,60 *47,62*	**114-0465** 8E-3465	-		●			
		22 °	50 *1,97"*	21,60 *47,62*	**114-0466** 8E-3466	-			●	983, 988	**46**
-	-			-	-	*116-7464*	●				
-	-			-	-	*116-7465*		●			
-	-			-	-	*116-7466*			●		

These adapters are heavy duty, applying a recharge of tungsten carbide they are converted into Heavy Duty ARM Adapters.

Two Strap for Loader





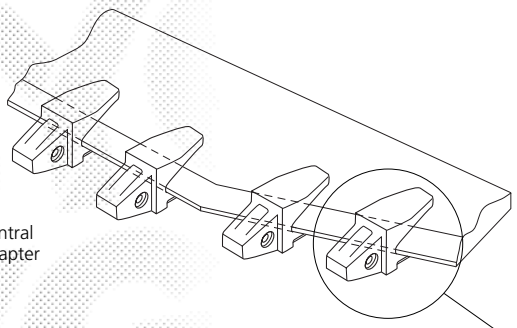
ARM

A	B	ß	mm.	KG lb	HD	ARM	Cen	Right	Left		
65 *2,56"*	385 *15,16"*	22°	60 - 63 *2,36" - 2,48"*	34,50 *76,06*	**107-3554** 3G-9494	-	●			992C, 992B, 245 Frontal, 990	**55**
				34,50 *76,06*	**107-3555** 3G-9495	-		●			
				34,50 *76,06*	**107-3556** 3G-9496	-			●		
					-	*112-2554*	●				
					-	*112-2555*		●			
					-	*112-2556*			●		
120 *4,72"*	580 *22,83"*	22°	70 *2,76"*	70,50 *155,42*	**119-8604** 6I-8604	-	●			375, 992	**60**
				71,00 *156,53*	**119-8605** 6I-8605	-		●			
				71,00 *156,53*	**119-8606** 6I-8606	-			●		
					-	*119-8607*	●				
					-	*119-8609*		●			
					-	*119-8608*			●		
130 *5,12"*	690 *27,17"*	22°	70 - 75 *2,76" 2,95"*	73,10 *161,16*	**133-0704** 4T-4704	-	●			992C, 994	**70**
				73,30 *161,60*	**133-0705** 4T-4705	-		●			
				73,30 *161,60*	**133-0706** 4T-4706	-			●		
					-	*133-0707*	●				
					-	*133-0709*		●			
					-	*133-0708*			●		
130 *5,12"*	690 *27,17"*	22°	90 - 100 *3,54" 3,94"*	70,50 *155,42*	***100-7416** 4T-4704E	-	●				
				70,50 *155,42*	***100-7416 RH** 4T-4705E	-		●			
				70,50 *155,42*	***100-7416 LH** 4T-4706E	-			●		
154 *6,06"*	600 *23,62"*	23°	100 *3,94"*	108,50 *239,20*	**6I-8804**	-	●			994	**80**

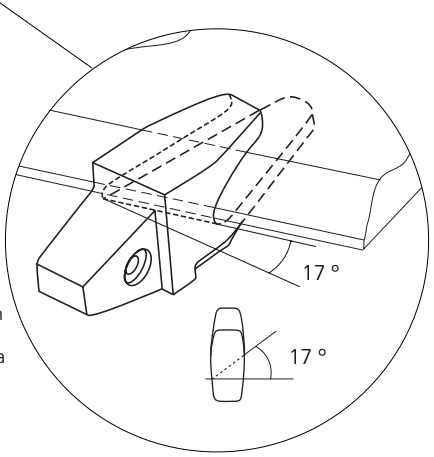
***** Special part with the same dimensions as the original according to reference, however, its inside dimensions are for another blade thickness

Weld-On Excavator Adapters

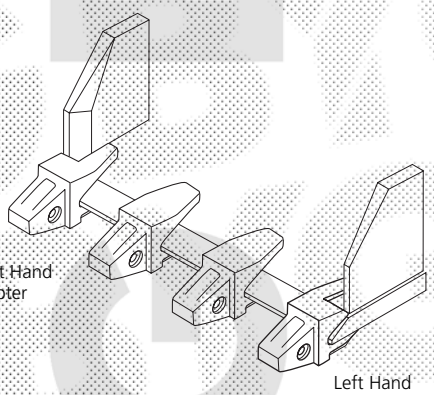
Features
- Excellent hold of the adapters
- Good protection of the blade
- Easy and quick change of teeth
- Specially designed to adapt to the corners without having to carry out modifications



LH adapter with internal bevel for delta cutting edge.

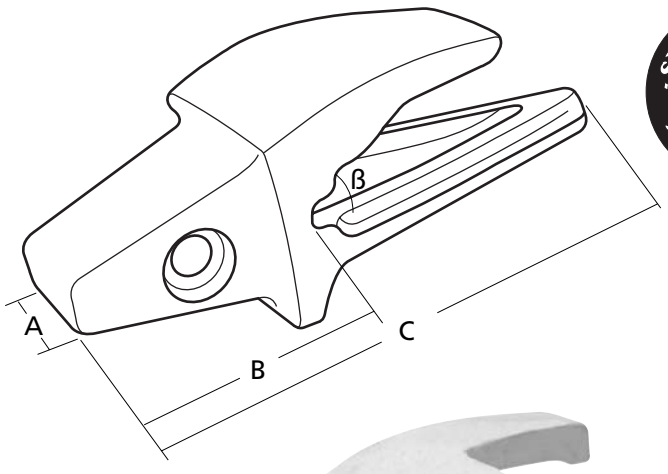


The adapters with an internal bevel adjust to the delta cutting edge.



mm. A	B	C	ß		KG lb		Cen	Right	Left	Right	Left		
34 *1,34"*	74 *2,91"*	185 *7,28"*	22°	20 *0,79"*	1,75 *3,86*	**119-3205**	●					416, 446	**20**
34 *1,34"*	74 *2,91"*	185 *7,28"*	22°	25 *0,98"*	1,65 *3,64*	**119-3204**	●					416, 426	
35 *1,38"*	88 *3,46"*	225 *8,86"*	22°	20 - 22 *0,79" - 0,87"*	3,00 *6,61*	**6Y-3224**	●					E70B, 307, 446	**22**
45 *1,77"*	98 *3,86"*	250 *9,84"*	22°	25	4,40 *9,70*	**6Y-3254**	●					E200, 205, 214, 206, 213, 311, 312	**25**
56 *2,20"*	130 *5,12"*	330 *12,99"*	22°	30 - 32 *1,18" - 1,26"*	7,00 *15,43*	**3G-6304 HD** 9W-1304	●					E-180, E-200, 215, 219, 311, 312, 315, 320, 325	**30**
					6,80 *14,99*	**3G-6305 HD** 7T-3305		●					
					6,80 *14,99*	**3G-6306 HD** 7T-3306			●				
56 *2,20"*	130 *5,12"*	330 *12,99"*	22°	35	7,10 *15,65*	**8E-9490**	●						
					6,80 *14,99*	**8E-9495**		●					
					6,80 *14,99*	**8E-9496**			●				
65 *2,56"*	137 *5,39"*	346 *13,62"*	35°	40	9,50 *20,94*	**6I-6354** 3G-8354	●					225, 219, 215, 320, E200, E240, B/C/S	**35**
					9,75 *21,49*	**6I-6355** 3G-8355		●					
					9,75 *21,49*	**6I-6356** 3G-8356			●				
70 *2,76"*	140 *5,51"*	390 *15,35"*	22°	45	13,40 *29,54*	**6I-6404** 7T-3404	●					235FS, 231SD, Series 300, 231D, C/D/S	**40**
					13,40 *29,54*	**6I-6405** 7T-3405		●					
					13,40 *29,54*	**6I-6406** 7T-3406			●				

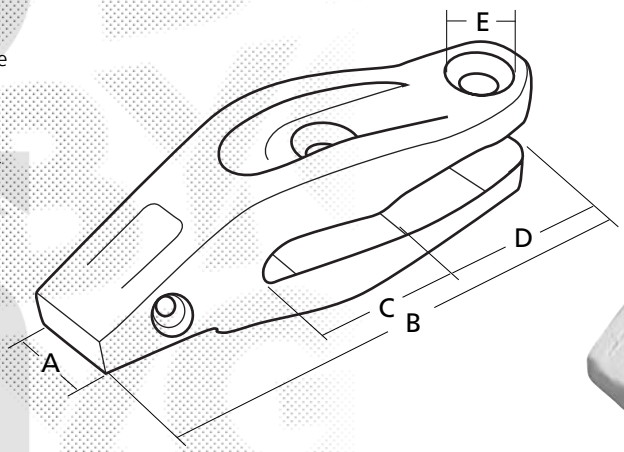
Weld-On Excavator Adapters



mm. A	B	C	ß	↕	KG / lb		Cen	Right	Left	Right	Left		
85 *3,35"*	160 *6,30"*	420 *16,54"*	22°	50	20,00 *44,09*	**6I-6464** 8E-6464	●					225, 235, 245, 320, 325, 330, E300 D/E/F	**46** 45
					20,50 *45,19*	**6I-6465** 8E-6465		●					
					20,50 *45,19*	**6I-6466** 8E-6466			●				
					20,50 *45,19*	**6I-6465 RH**				●			
					20,50 *45,19*	**6I-6466 LH**					●		
108 *4,25"*	183 *7,20"*	520 *20,47"*	22°	60	32,00 *70,55*	**6I-6554** 1U-1553	●					245, E/F/G/H, 330	**55**
					31,50 *69,44*	**6I-6555** 1U-1555		●					
					31,50 *69,44*	**6I-6556** 1U-1556			●				
					31,50 *69,44*	**6I-6555 RH** 105-6270				●			
					31,50 *69,44*	**6I-6556 LH** 105-6269					●		
120 *4,72"*	210 *8,27"*	580 *22,83"*	22°	70 - 75	57,00 *125,66*	**6I-6604**	●					375 H/J	**60**
					60,50 *133,38*	**6I-6605**		●					
					60,50 *133,38*	**6I-6606**			●				
					60,50 *133,38*	**6I-6605 RH**				●			
					60,50 *133,38*	**6I-6606 LH**					●		
- -	- -	- -	31°	90	-	- FC700 90R	●					-	**70**
					-	- FC700 90R RH				●			
					-	- FC700 90R LH					●		

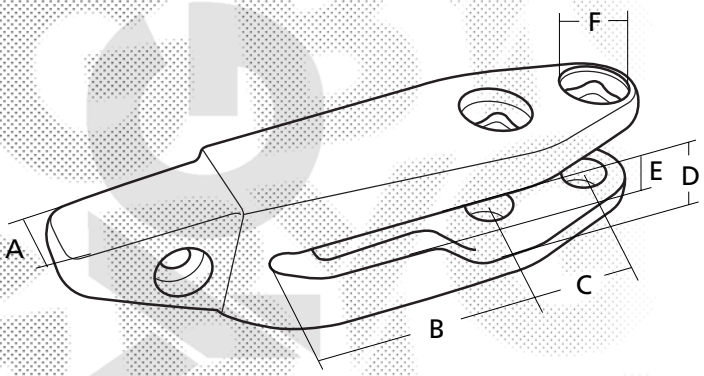
Bolt-On Adapters: 2 Holes

Features
- Used for loading in general where no smooth finish is required
- Good protection of blade
- Easy mounting and changing
- Minimizes the risk of breakage or loss



A	B	C	D	E	mm ↕	KG lb							
35 1,38"	262 10,31"	67 2,64"	89 3,50"	19,05 0,75"	19 0,75"	3,20 7,05	**9J-4207**	5J-4771	2J-3506	1U-2208/9	6I-9250/51	910, 914, 931, 933, 935, IT12	**20**
	260 10,24"	50 1,97"	75 2,95"	18 0,71"	20 0,79"	2,50 5,51	**8E-2184**	4F-3656	4K-0367			416, 426, 428, 436	
47 1,85"	341 13,43"	70 2,76"	123 4,84"	25,4 1,00"	25 0,98"	9,27 20,44	**1U-0257**	8J-2928	8J-2933	3G-4258/9	6I-9250/51	916, 920, 924, 926, 928, 930, 931, 933, 935, 936, 939, 941,943, 951, 953	**25**
56 2,20"	355 13,98"	70 2,76"	123 4,84"	25,4 1,00"	25 0,98"	11,67 25,73	**1U-0307**	8J-2928	8J-2933	3G-4308/9	8E-5308/9	955, 950	**30**
	400 15,75"	81 3,19"	165 6,50"		32 1,26"	14,20 31,31	**4T-4307**	8J-2928 1J-3527				950, 955, 960, 963	
	403 15,87"	86 3,39"	160 6,30"	32 1,26"	- -	11,94 26,32	**3G-9307**	5P-8361	5P-8362	3G-8308/9		966 C	
- -	- -	86 3,39"	160 6,30"		32 1,26"	- -	*3G-7357*			3G-5358/9	8E-5358/9	966C, 963B	**35**
65 2,56"	419 16,50"	100 3,94"	150 5,91"	32 1,26"	38 1,50"	18,30 40,34	**3G-3357**					960, 966, 970, 973, 977, 972G, 966G	
	430 16,93"	104 4,09"	156 6,14"		45 1,77"	13,00 28,66	**1U-1357**			1U-1358/9		980	
70 2,76"	460 18,11"	104 4,09"	156 6,14"	32 1,26"	45 1,77"	29,00 63,93	**6I-9898**			1U-1358/9	6I-8243 /4	980, 980C, F	**40**
- -	- -	100 3,94"	150 5,91"	32 1,26"	38 1,50"	- -	*8E-3467*			8E-3468/9	-	977, 973, 966D, 970F	**45**
85 3,35"	455 17,91"	104 4,09"	156 6,14"	- -	45 1,77"	25,30 55,78	**8E-2467**			8E-2468/9		988, 988B, 980C, F	

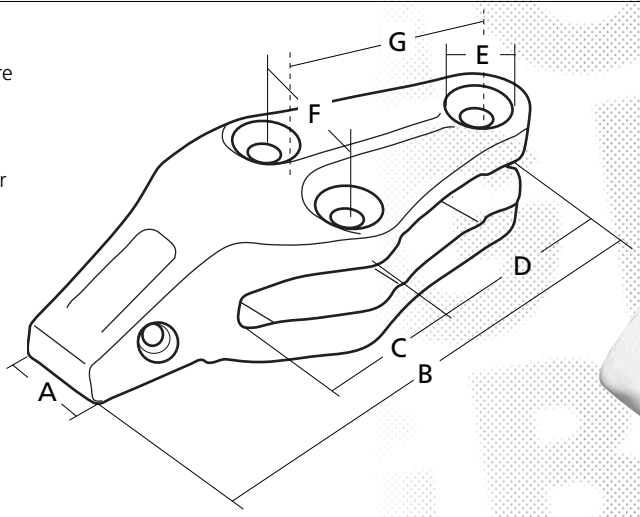
Adapters for Scrapers



A	B	C	D	E	F	mm. ↕	KG lb					
56 2,20"	170,5 6,71"	76 2,99"	50,5 1,99"	24 0,94"	25,4 1,00"	22 0,87"	12,24 26,98	**9J-2307**	PB-948	NP-100 B	619, 621, 623	**30**

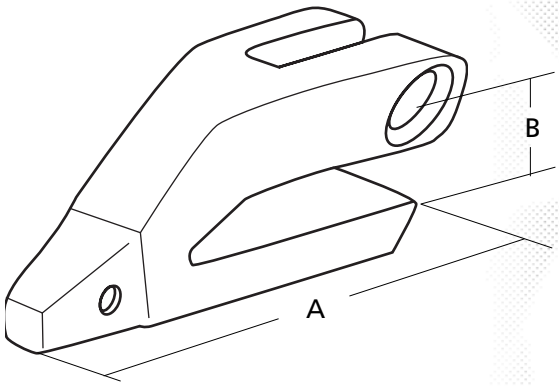
Bolt-On Adapters: 3 Holes

Features
- Used for loading in general where no smooth finish is required
- Good protection of blade
- Easy mounting and changing
- Minimizes the risk of breakage or loss



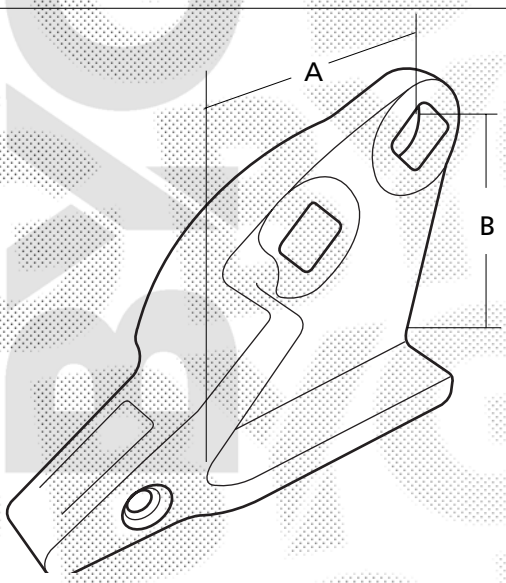
mm. A	B	C	D	E	F	G		KG lb					
146 *5,75"*	395 *15,55"*	86 *3,39"*	146 *5,75"*	25,4 *1,00"*	82,6 *3,25"*	146 *5,75"*	32 *1,26"*	13,85 *30,53*	**3G-5307**	8J-2928	8J-2933	966C	**30**
158 *6,22"*	410 *16,14"*							16,46 *36,29*	**3G-1357**	8J-2928	8J-2933	977	**35**
	440 *17,32"*	105 *4,13"*	155 *6,10"*		45 *1,77"*	155 *6,10"*	45 *1,77"*	21,35 *47,07*	**3G-2357**	1J-3527		980B	

Bolt-On Corner Adapters



mm. A	B		KG lb	Right	Left			Right	Left		
230 *9,06"*	110 *4,33"*	20 *0,79"*	3,90 *8,60*	**1U-2209**	**1U-2208**	6F-0196	2J-3505	5G-2807	5G-2806	910, 914, 931, 933, 935, IT12,416, 426, 428, 436	**20**
- -	- -	- -	- -	*6Y-6229*	*6Y-6228*	-	-				
296 *11,65"*	105 *4,13"*	25 *0,98"*	10,40 *22,93*	**3G-4259**	**3G-4258**	4J-9058	8J-2933	4V-1544	4V-1545	916, 920, 924, 926, 928, 930, 931, 933, 935, 936, 939, 941, 943, 951, 95	**25**
322 *12,68"*	118 *4,65"*	25 - 32 *0,98" 1,26"*	17,10 *37,70*	**3G-4309**	**3G-4308**	5P-8823	5P-8362	5V-7396 5V-1783	5V-7395 5V-1784	950, 955, 960, 963	**30**
315 *12,40"*	140 *5,51"*	32 *1,26"*	17,10 *37,70*	**3G-8309**	**3G-8308**			5V-2772	5V-2773	966 C	
365 *14,37"*	140 *5,51"*	32 - 38 *1,26" 1,50"*	24,50 *54,01*	**3G-5359**	**3G-5358**	5P-8823	5P-8362	5V-2772 4V-7175	5V-2773 4V-7174	960, 963B 966, 966C, 966G, 970, 972G, 973, 977	**35**
- -	- -	45 *1,77"*	- -	*1U-1359*	*1U-1358*	5P-8823	5P-8362	7V-4181	7V-4180	980, 980C, F	**40**
- -	140 *5,51"*	38 *1,50"*	- -	*8E-3469*	*8E-3468*	5P-8823	5P-8362	4V-7175	4V-7174	977, 973, 966D, 970F	**46**
- -	145 *5,71"*	45 *1,77"*	- -	8E-2469	8E-2468			7V-4181	7V-4180	980C, F, 988, 980	

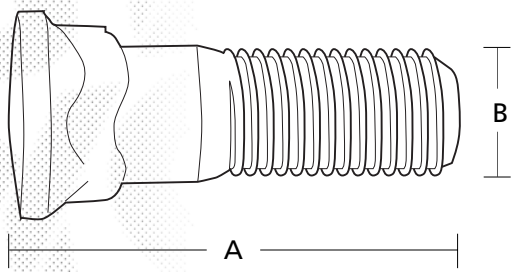
Bolt-On Corner Adapters: 2 holes

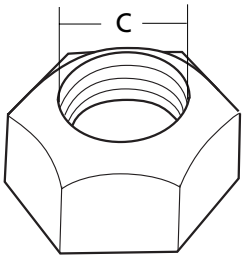


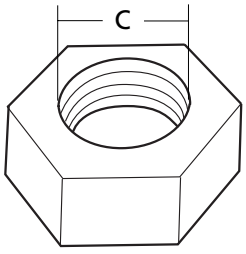
mm. A	mm. B		Right	Left			Right	Left		
190 *7,48"*	168 *6,61"*	19 - 20 - 25 *0,75" 0,79" 0,98"*	13,01 *28,68*	**6I-9251**	**6I-9250**	4F-4042	2J-3507	6I-8310	6I-8311	910, 914, 931, 933, 935, IT12,416, 426, 428, 436	**20**
										916, 920, 924, 926, 928, 930, 931, 933, 935, 936, 939, 941, 943, 951, 953	**25**
200 *7,87"*	163 *6,42"*	25 - 32 *0,98" 1,26"*	17,56 *38,71*	**8E-5309**	**8E-5308**	8T-9079	3K-9770	8E-5302 8E-5300	8E-5303 8E-5301	950, 955, 960, 963, 966C	**30**
245 *9,65"*	180 *7,09"*	32 - 38 *1,26" 1,50"*	24,50 *54,01*	**8E-5359**	**8E-5358**	6V-6535	3K-9770	8E-5320 8E-5310	8E-5321 8E-5311	960, 963B 966, 966C, 966G, 970, 972G, 973, 977, 980	**35**
273 *10,75"*	207 *8,15"*	44 *1,73"*	37,80 *83,33*	**6I-8243**	**6I-8244**	5P-8361 6V-6535	3K-9770	6I-8249	6I-8250	980, 980C, F	**40**

Bolt & Nuts

Features
- 12.9 Quality (Grade 8)
- Pretensile Strength 170.00 PSI
- 120 Kg/mm2
- Elastic Load Limit 140.000 PSI
- 100 Kg/mm2
- Rockwell Hardeness C36-42





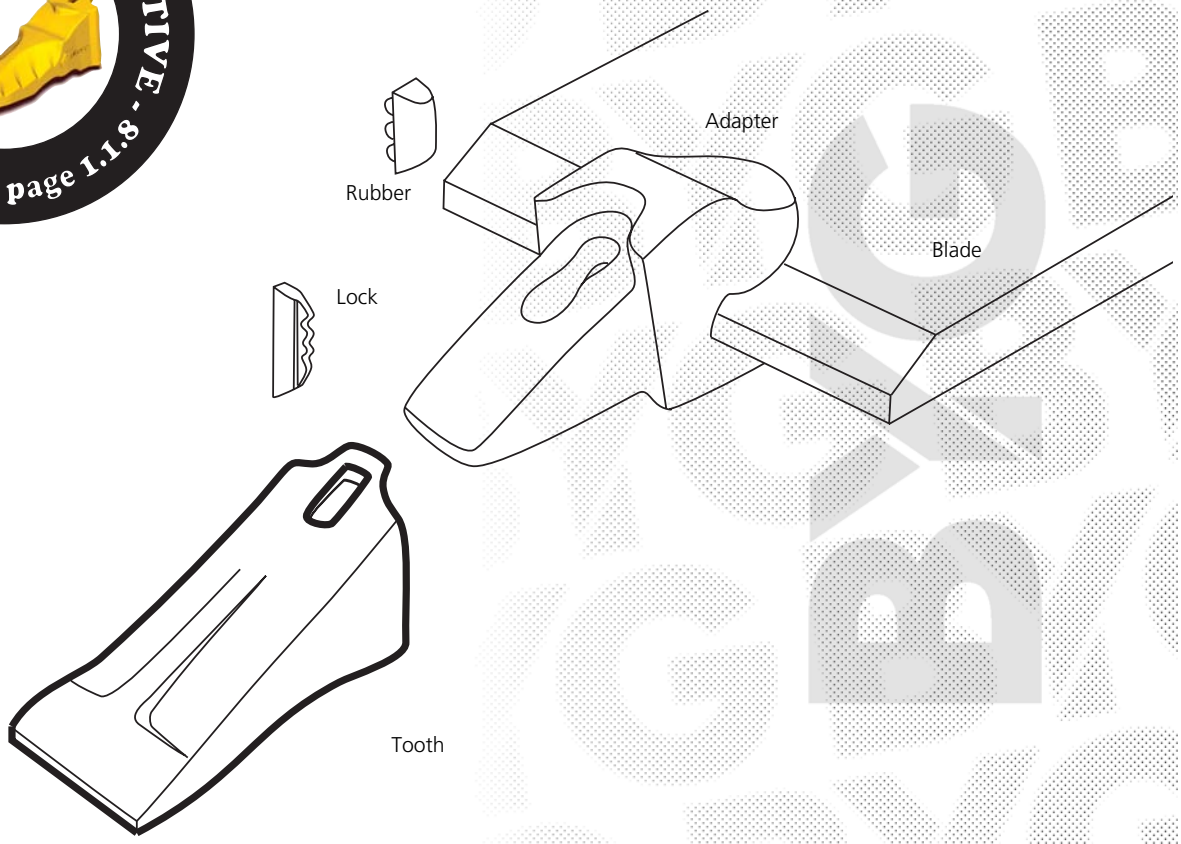


A	B	Thread	Original	BYG ref	C	Original	BYG ref	Original	BYG ref
2-1/2"	5/8"	11	**4F-3656**	**PB-512**	5/8"	**4K-0367**	**NP-158**		
2-3/4"	3/4"	10	**5J-4771**	**PB-326**	3/4"	**2J-3506**	**NP-190**		
2-3/4"	7/8"	9	**6F-0196**	**PB-734**	7/8"	**2J-3505**	**NP-222**		
3"	1"	8	**4F-4042**	**PB-942**	1"				
3-1/4"	1"	8	**4J-9058**	**PB-943**	1"	**2J-3507**	**NP-100**	**8J-2933**	**NP-100B**
3-3/4"	1"	8	**8J-2928**	**PB-946**	1"				
4-1/2"	1"	8	**1J-3527**	**PB-948**	1"				
4"	1-1/4"	7	**5P-8823**	**PB-801**	1-1/4"				
5"	1-1/4"	7	**5P-8361**	**PB-805**	1-1/4"				
3-3/8"	1-1/4"	7	**8T-9079**	**PB-801**	1-1/4"	**3K-9770**	**NP-114**	**5P-8362**	**NP-114B**
3-3/4"	1-1/4"	7	**6V-6535**		1-1/4"				

DRP Caterpillar

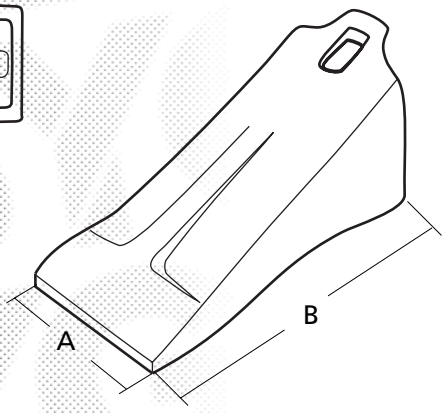
Bold ref. number, product available
Other ref. number please consult.
Futura Alternative

Vertical Pin System



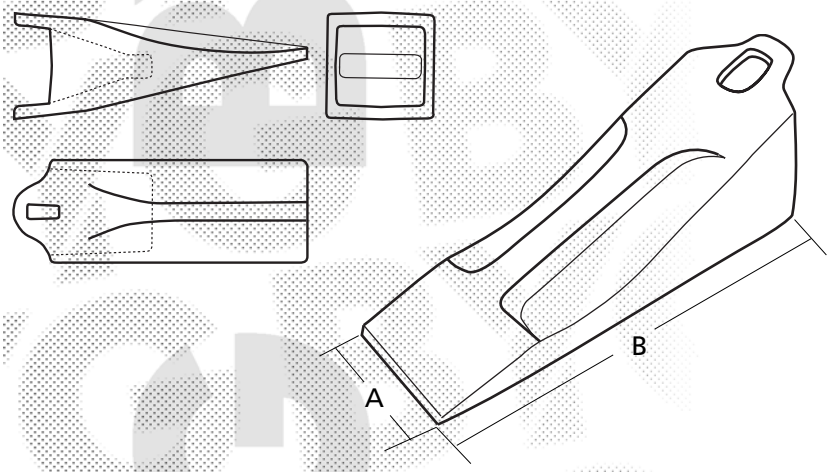
Short	Long	Adapter	Bolt-On Adapter	
5K-2924	**4K-6936** FC23 L	**P-23** FC23 R	8J-2930 6K-3125	910, 920, 922, 931, 933, 941
5K-2925	**4K-0034** FC34 L	**P-18**	*8J-2929* 6K-2563 *5K-8287* **6K-1965**	930, 944, 950, 951, 955, 966
5K-2926	**4K-6148**	**P-24**	5K-9024 **6K-1964**	955, 966, 977, 980
5K-4997	**4K-4962**	*6K-2853*	6K-7850	
-	-	-	*6K-7850*	988, 983
Pag 2.26	Pag 2.26	Pag 2.27	Pag 2.27	

Vertical Pin Teeth: Short



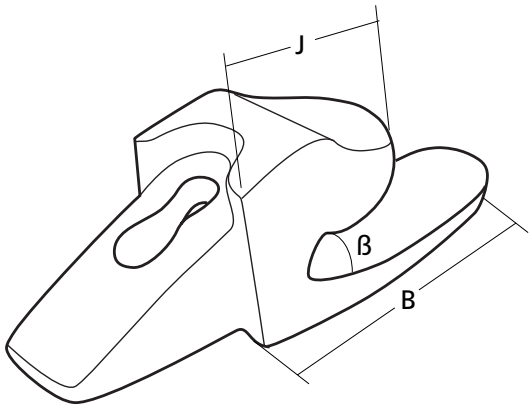
mm. A	B	KG. lb						
52 *2,05"*	163 *6,42"*	1,15 *2,54*	**5K-2924**	4K-0043	4K-0041	P-23	8J-2930 6K-3125	910, 920, 922, 931, 933, 941
66 *2,60"*	170 *6,69"*	1,47 *3,24*	**5K-2925**	4K-0043	4K-0041	P-18	8J-2929 6K-2563 5K-8287 6K-1965	930, 944, 950, 951, 955, 966
77 *3,03"*	190 *7,48"*	2,66 *5,86*	**5K-2926**	4K-0032	4K-0008	P-24	5K-9024 6K-1964	955, 966, 977, 980
-	-	-	*5K-4997*	4K-0033	4K-0006	6K-2853	6K-7850	

Vertical Pin Teeth: Long



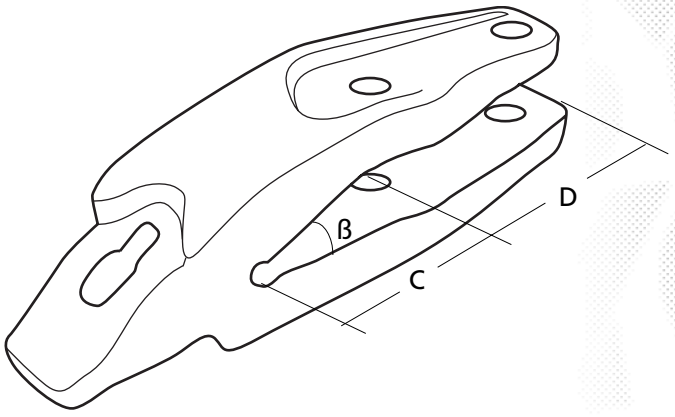
mm. A	B	KG. lb						
67 *2,64"*	130 *5,12"*	1,55 *3,42*	**4K-6936** FC23 L	4K-0043	4K-0041	P-23	8J-2930 6K-3125	910, 920, 922, 931, 933, 941
73 *2,87"*	130 *5,12"*	2,10 *4,63*	**4K-0034** FC34 L	4K-0043	4K-0041	P-18	8J-2929 6K-2563 5K-8287 6K-1965	930, 944, 950, 951, 955, 966
86 *3,39"*	156 *6,14"*	3,20 *7,05*	**4K-6148**	4K-0032	4K-0008	P-24	5K-9024 6K-1964	955, 966, 977, 980
90 *3,54"*	215 *8,46"*	4,30 *9,48*	**4K-4962**	4K-0033	4K-0006	6K-2853	6K-7850	

Vertical Pin Weld-On Adapter



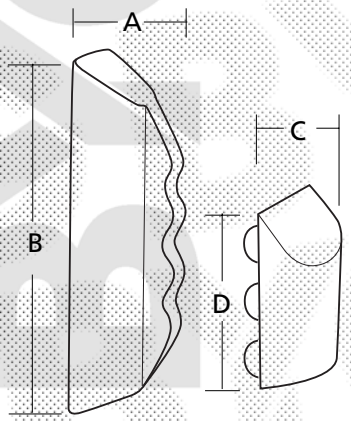
B	J	ß	mm.	KG lb						
142 *5,59"*	55 *2,17"*	25°	13 - 20 *0,51" - 0,79"*	2,40 *5,29*	**P-23** FC23 R	4K-0043	4K-0041	5K-2924	4K-6936	910, 920, 922, 931, 933, 941
170 *6,69"*	55 *2,17"*	25°	20 - 30 *0,79" - 1,18"*	3,10 *6,83*	**P-18**	4K-0043	4K-0041	5K-2925	4K-0034	930, 944, 950, 951, 955, 966
230 *9,06"*	45 *1,77"*	23°	25 - 35 *0,98" - 1,38"*	6,15 *13,56*	**P-24**	4K-0032	4K-0008	5K-2926	4K-6148	955, 966, 977, 980
-	-	-	34 - 40 *1,34" - 1,57"*	-	*6K-2853*	4K-0033	4K-0006	5K-4997	4K-4962	

Vertical Pin Bolt-On Adapter

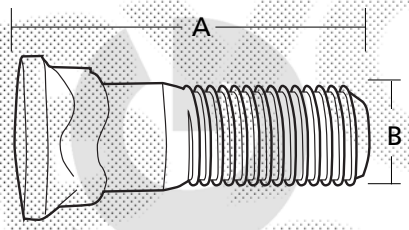


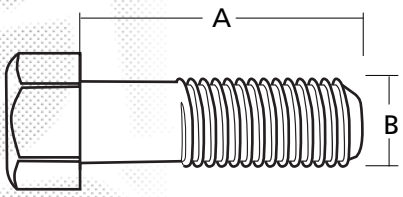
C	D	ß	mm.	KG lb								
-	-	-	25	-	*8J-2930*				5K-2924	4K-6936	4K-0043 4K-0041	941, 930, 920
-	-	-	20	-	*6K-3125*						4K-0043 4K-0041	941, 933, 922 920, 910
70	124	25°	25	-	*8J-2929*	1J-4948	-	2J-3507	5K-2925	4K-0034	4K-0043 4K-0041	955, 951,950
-	-	-	25	-	*6K-2563*						4K-0043 4K-0041	951B, 950, 944, 941, 930
86	111	25°	25	-	*5K-8287*	-	1D-4608	2J-3506			4K-0043 4K-0041	955
102 *4,02"*	108 *4,25"*	25°	30 *1,18"*	6,60 *14,55*	**6K-1965**	-	3B-2968	2J-3506			4K-0043 4K-0041	966
-	-	-	30	-	*5K-9024*				5K-2926	4K-6148	4K-0032 4K-0008	977
127 *5,00"*	133 *5,24"*	25°	35 *1,38"*	11,60 *25,57*	**6K-1964**	-	1D-4639	2J-3507			4K-0032 4K-0008	980
127	133	21°	35	-	*6K-7850*	-	1D-4640	2J-3507	5K-4997	4K-4962	4K-0006 4K-0033	988, 983

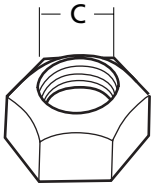
Fasteners

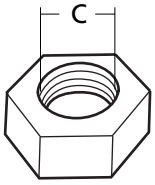


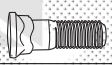
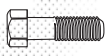
mm.					
A	B	C	D		
18	68	20,5	44	**4K-0043**	**4K-0041**
20,5	79	14	50	**4K-0032**	**4K-0008**
23,5	94	16	56	**4K-0033**	**4K-0006**







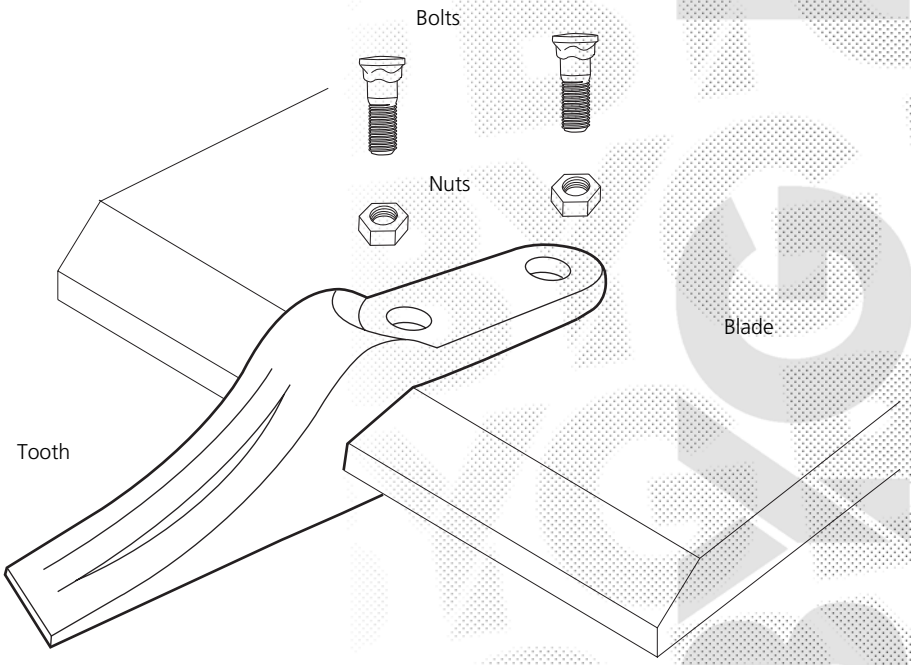


A	B	Thread	Original 	BYG ref	Original 	BYG ref	C	Original	BYG ref	Original	BYG ref
3 3/4"	1"	8	**1J-4948**	**PB-945**	-	-	1"	**2J-3507**	**NP-100**	-	-
2 1/2"	5/8"	11	**4F-3656**	**PB-512**	-	-	5/8"	**4K-0367**	**NP-158**	-	-
2 3/4"	3/4"	10	**5J-4771**	**PB-326**	-	-	3/4"	**2J-3506**	**NP-190**	-	-
4"	1"	8	**8J-2928**	**PB-946**	-	-	1"	-	-	**8J-2933**	**NP-100 B**
2 3/4"	3/4"	10	-	-	**1D-4608**	**S-4608**	3/4"	**2J-3506**	**NP-190**	-	-
3 1/2"	3/4"	10	-	-	**3B-2968**	**S-2968**				-	-
4 1/4"	1"	8	-	-	**1D-4640**	**S-4640**	1"	**2J-3507**	**NP-100**	-	-
4"	1"	8	-	-	**1D-4639**	**S-4639B**				-	-

DRP Caterpillar

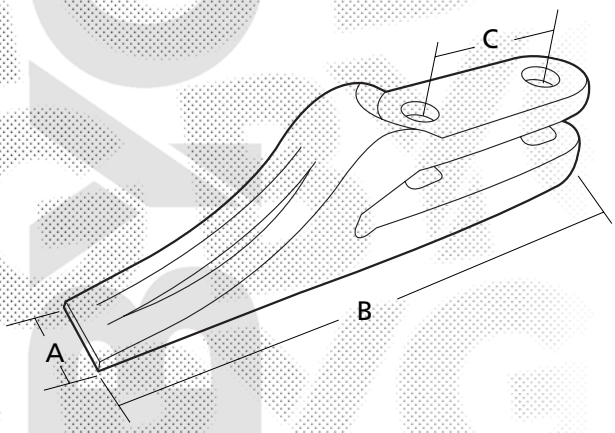
Bold ref. number, product available
Other ref. number please consult.

Bolt-On Monoblock Teeth



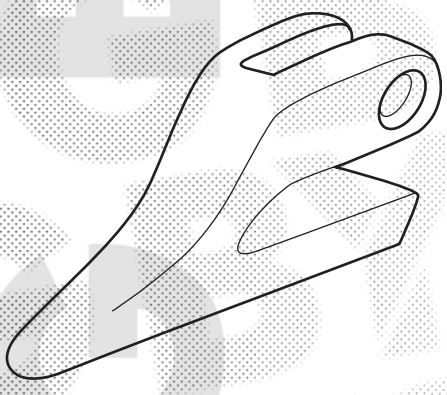
-	-	-	-	-	**132-4720**	-	-	-	-	216, 226, 236, 246	
135-9390	-	-	-	-	-	-	-	-	302.5	-	**20**
6Y-6335	*1U-1869*	*1U-1868*	-	-	-	-	-	416, 426, 428	-	-	
8J-6207			-	-	-	910	931	-	-	-	
1U-1857	*1U-1859*	*1U-1858*	*6I-8389*	*6I-8388*	-	916, 920, 924, 926. 930	936, 941, 943, 951, 953	-	-	-	**25**
1U-1877	*1U-1879*	*1U-1878*	*8E-8609*	*8E-8608*	-	950	955	-	-	-	
8E-1637	*1U-1879*	*1U-1878*			-	950B	955, 963	-	-	-	**30**
1U-1887	*1U-1889*	*1U-1888*	*8E-5319*	*8E-5318*	-	-	966C	-	-	-	
6Y-0649	*1U-1889*	*1U-1888*	*8E-5319*	*8E-5318*	-	973, 977	966D	-	-	-	**35**
Pag 2.30	Pag 2.30	Pag 2.30			Pag 2.31						

Monoblock Teeth



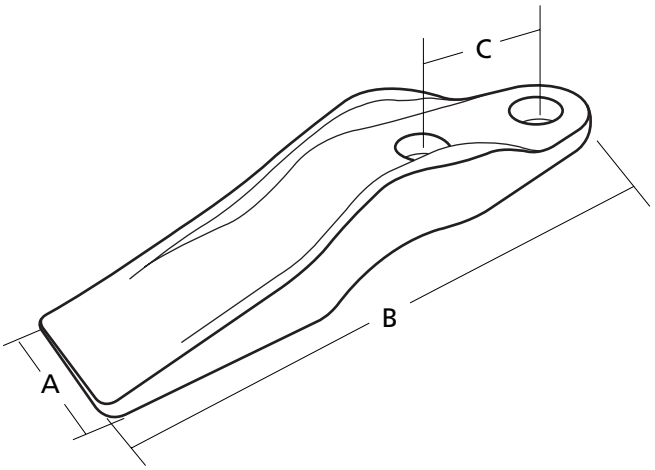
A	B	C	mm.	KG lb										
44	235	49	16	-	*135-9390*	PB-510	NP-158	-	-	302.5	-	-	-	
47 *1,85"*	277 *10,91"*	75 *2,95"*	19 *0,75"*	3,33 *7,34*	**6Y-6335** 9W-1879	4F-3656	4K-0367	1U-1869	1U-1868	-	-	-	416, 426, 428	**20**
60 *2,36"*	337 *13,27"*	89 *3,50"*	20 *0,79"*	4,60 *10,14*	**8J-6207**	5J-4771	2J-3506			-	910	931	-	
70 *2,76"*	395 *15,55"*	125 *4,92"*	25 *0,98"*	11,80 *26,01*	**1U-1857**	8J-2928	2J-3507	1U-1859	1U-1858	-	916, 920, 924, 926, 930	936, 941, 943, 951, 953	-	**25**
100 *3,94"*	410 *16,14"*	124 *4,88"*	25 *0,98"*	12,30 *27,12*	**1U-1877**	8J-2928	8J-2933	1U-1879	1U-1878	-	950	955	-	
72 *2,83"*	470 *18,50"*	165 *6,50"*	32 *1,26"*	16,40 *36,16*	**8E-1637**	1J-3527	8J-2928			-	950B	955, 963	-	**30**
90 *3,54"*	555 *21,85"*	160 *6,30"*	32 *1,26"*	22,00 *48,50*	**1U-1887**	5P-8361	5P-8362	1U-1889	1U-1888	-	-	966C	-	
-	-	-	38	-	*6Y-0649*	5P-8361				-	973, 977	966D	-	**35**

Monoblock Corner Adapter



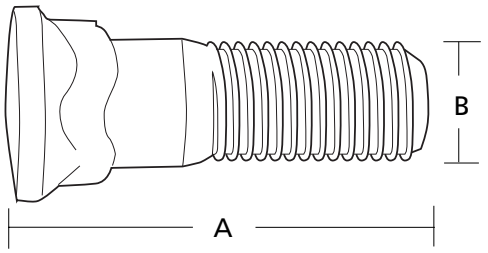
A	B	D	mm.	KG lb							
-	-	-	19	-	*1U-1869*	*1U-1868*	6F-0196	2J-3505	416, 426, 428		**20**
-	-	-	20	-	*1U-1869*	*1U-1868*			910, 931		
-	-	-	25	-	*1U-1859*	*1U-1858*	4J-9058 4J-9059	8J-2933	916, 920, 924, 926, 930, 936, 941, 943, 951, 953		**25**
-	-	-	25	-	*1U-1879*	*1U-1878*	5P-8823	5P-8362	955, 950		
-	-	-	32	-	*1U-1879*	*1U-1878*			955, 950B, 963		**30**
-	-	-	32	-	*1U-1889*	*1U-1888*			966C		
-	-	-	38	-	*1U-1889*	*1U-1888*			966D, 973, 977		**35**

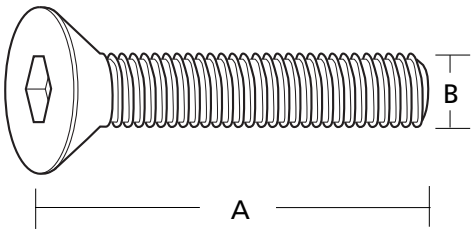
Monoblock Teeth

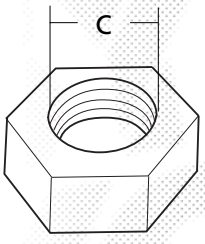


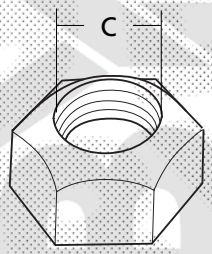
mm. A	B	C							
59 *2,32"*	235 *9,25"*	60 *2,36"*	20 *0,79"*	1,85 *4,08*	**132-4720**	V-16060	TA-016	216, 226, 236, 246	**20**

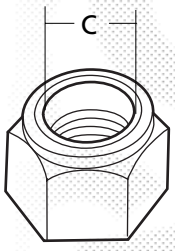
Fasteners





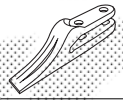






A	B	Thread	Thread	Original	BYG Ref.	Original	BYG Ref.	C	Original	BYG Ref.	Original	BYG Ref.	Original	BYG Ref.
2 1/4"	5/8"	11	-	**3F-5108**	**PB-510**	-	-	5/8"	**4K-0367**	**NP-158**	-	-	-	-
2 1/2"	5/8"	11	-	**4F-3656**	**PB-512**	-	-				-	-	-	-
2 1/2"	3/4"	10	-	**5J-4771**	**PB-326**	-	-	3/4"	**2J-3506**	**NP-190**	-	-	-	-
2-3/4"	7/8"	9	-	**6F-0196**	**PB-734**	-	-	7/8"	**2J-3505**	**NP-222**	-	-	-	-
3-1/4"	1"	8	-	**4J-9058**	**PB-943**	-	-	1"					-	-
4-1/2	1"	8	-	**1J-3527**	**PB-948**	-	-	1"	**2J-3507**	**NP-100**	**8J-2933**	**NP-100B**	-	-
4"	1"	8	-	**8J-2928**	**PB-946**	-	-	1"					-	-
4"	1-1/4"	7	-	**5P-8823**	**PB-801**	-	-	1-1/4"	-	-			-	-
5"	1-1/4"	7	-	**5P-8361**	**PB-805**	-	-	1-1/4"	-	-	**5P-8362**	**NP-114B**	-	-
60	M-16	-	2.00	-	-	159-2953	**V-16060**	M-16	-	-	-	-	8T-4778	**TA-016**

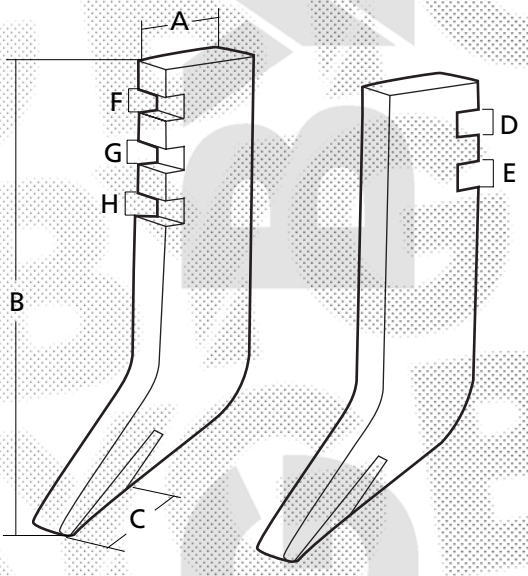
Replacement of the Tooth and the Adapter to Monoblock System

										
6I-6335	9W-6207	*1U-1869*	**1U-2209**	*1U-1868*	**1U-2208**	-	-	-	-	**20**
8J-6207	9J-4207					-	-	-	-	
1U-1857	1U-0257	*1U-1859*	**3G-4259**	*1U-1858*	**3G-4258**	*6I-8389*	**6I-9251**	*6I-8388*	**6I-9250**	**25**
1U-1877	1U-0307	*1U-1879*	**3G-4309**	*1U-1878*	**3G-4308**	*8E-8609*	**8E-5309**	*8E-8608*	**8E-5308**	**30**
8E-1637	4T-5416									
1U-1887	3G-9307	*1U-1889*	**3G-8309**	*1U-1888*	**3G-8308**	*8E-5319*	*8E-5359*	*8E-5318*	*8E-5358*	
6Y-0649	7I-7697	*1U-1889*	**3G-5359**	*1U-1888*	**3G-5358**	*8E-5319*	*8E-5359*	*8E-5318*	*8E-5358*	**35**

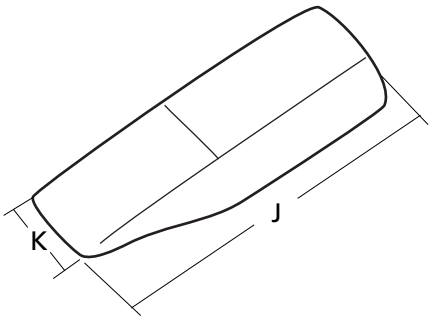
DRP

Caterpillar

Motor Graders
Components

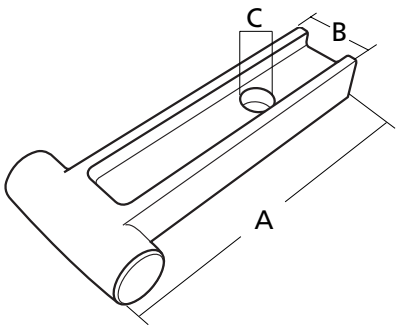


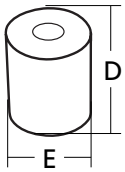
mm. A	B	C	D / E	F / G / H	KG lb						
76 *2,99"*	438 *17,24"*	25 *0,98"*	20 *0,79"*	-	-	*5B-6251*	-	6Y-5230 2D-5572	5K-1459	5K-1458	12, 14, 112, 130, 140
			-	20 *0,79"*	5,70 *12,57*	-	**9F-5124**				
63 *2,48"*	392 *15,43"*	25 *0,98"*	- -	20 *0,79"*	4,00 *8,82*	**195-7219**	-				



mm. J	K	KG lb						
181 *7,13"*	44 *1,73"*	1,40 *3,09*	**6Y-5230** 2D-5572	5B-0947	9F-5124 5B-6251	5K-1459	5K-1458	12, 14, 112, 130, 140

Fasteners





mm. A	B	C	D	E		
116 *4,57"*	25 *0,98"*	6 *0,24"*	15 *0,59"*	6 *0,24"*	**5K-1459**	**5K-1458**

DRP

Caterpillar

Tamping Feet

Tamping Feet

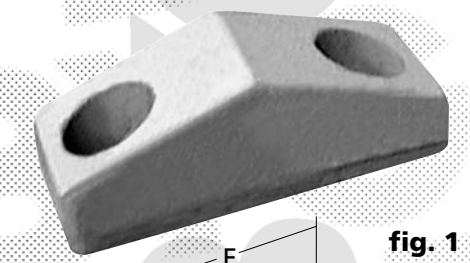


fig. 1

fig. 2

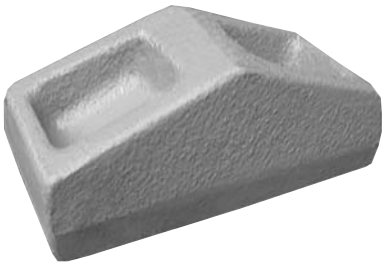
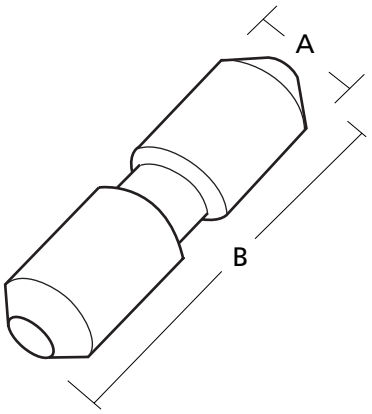


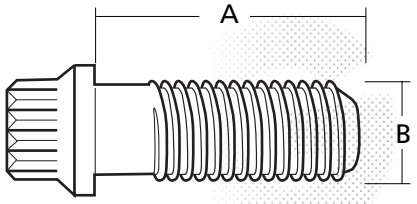
fig. 3

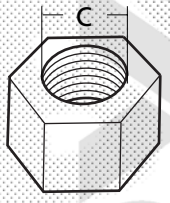
A	B	C	D	E	F	KG lb	Type	Fig.	Ref.	Mounting System	Qty per set					Base	
mm.																	
170 *6,69"*	70 *2,76"*	64 *2,52"*	33 *1,30"*	114 *4,49"*	17 *0,67"*	3,55 *7,83*	Std.	**1**	**8K-9189**	Bolt-On	-	8K-9163	7H-3607	5S-0581	-	7K-6957	**815**
170 *6,69"*	81 *3,19"*	71 *2,80"*	41 *1,61"*	-	-	3,70 *8,16*	HD	**2**	**4V-3851**	Weld-On	-	-	-	-	-	7K-6957	**815** **815B**
168 *6,61"*	81 *3,19"*	71 *2,80"*	41 *1,61"*	-	-	4,10 *9,04*	Std.	**3**	**2V-7053**	Weld-On	-	-	-	-	-	7K-6957	**815B**
154 *6,06"*	25 *0,98"*	165 *6,50"*	-	-	-	10,15 *22,38*	Std.	**5**	**6W-0754**	Weld-On	24	-	-	-	-	-	**816B**
285 *11,22"*	108 *4,25"*	170 *6,69"*	-	-	-	8,20 *18,08*	Std.	**6**	**6W-0755**	Weld-On	16	-	-	-	-	-	

Fasteners



mm. A	mm. B	
19 *0,75"*	96 *3,78"*	**7K-9535**





mm. A	mm. B	Thread	Original	BYG ref	C	Original	BYG ref	Original	BYG ref
2"	5/8"	18	**8K-9163**	**S12-5851**	5/8"	**7H-3607**	**N-058E**	**5S-0581**	**0-1258**
2-1/2"	7/8"	14	**8K-9164**	**S12-7863**	7/8"	**7H-3609**	**N-078E**	**4D-6419**	**0-1278**

Tamping Feet

Fig. 4

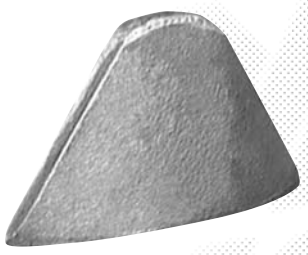


Fig. 5

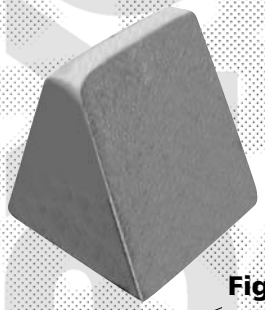
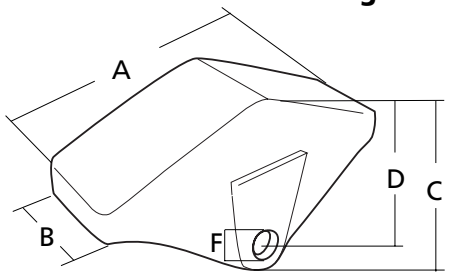
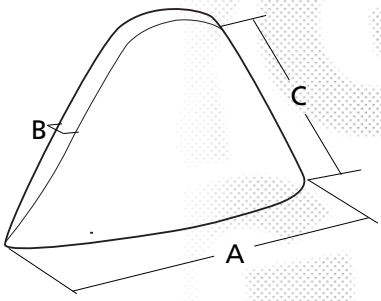
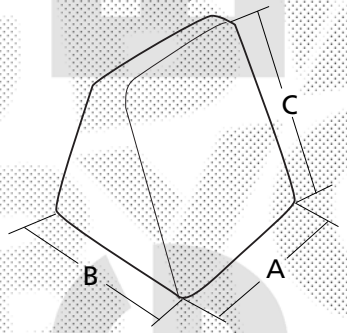


Fig. 6

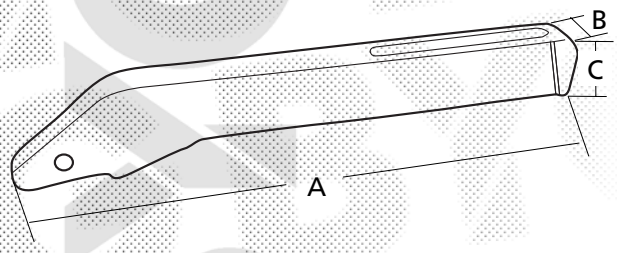






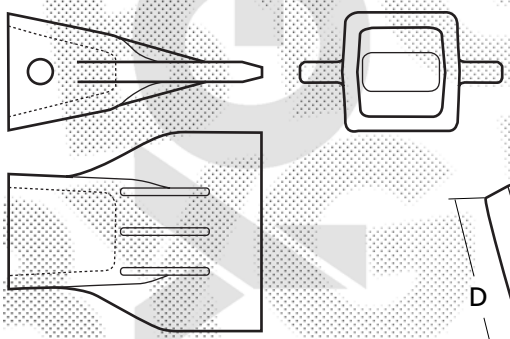
mm. A	B	C	D	E	F	KG lb	Type	Fig.	Ref.	Mounting System	Qty per set				Base	
226 *8,90"*	95 *3,74"*	124 *4,88"*	103 *4,06"*	-	19 *0,75"*	6,50 *14,33*	Std.	**4**	**7K-2939**	Pin	-	-	-	-	7K-9535	9S-1645	**824B 825B 834**
225 *8,86"*	89 *3,50"*	89 *3,50"*	50 *1,97"*	- -	- -	6,25 *13,78*	Std.	**3**	**2V-6628**	Weld-On	-	-	-	-	-	7K-7071	**825C**
214 *8,43"*	-	-	-	-	-	6,85 *15,10*	HD	**2**	**4V-0668**	Weld-On	-	-	-	-	-		
230 *9,06"*	78 *3,07"*	81 *3,19"*	40 *1,57"*	146 *5,75"*	24 *0,94"*	5,50 *12,13*	Std.	**1**	**8K-9171**	Bolt-On	65	8K-9164	7H-3609	4D-6419	-	7K-7071	**825C 835**

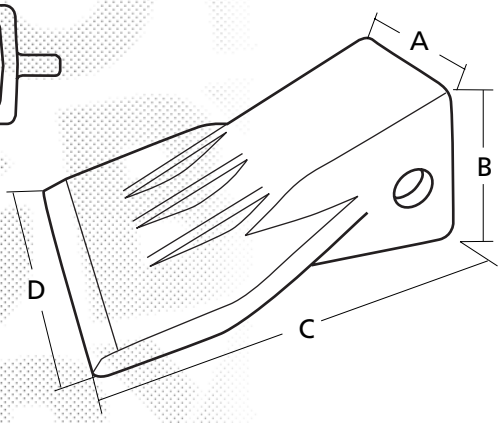
Cleaning Bar



mm. A	B	C	KG lb					
550 *21,65"*	50 *1,97"*	60 *2,36"*	10,00 *22,05*	**5V-4311**	3G-8250	8E-6258	8E-6259	**815B**

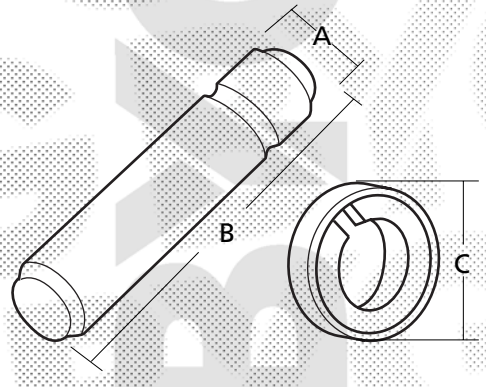
Cleaning Bar Tooth





mm. A	B	C	D	KG lb					
73 *2,87"*	86 *3,39"*	196 *7,72"*	113 *4,45"*	3,20 *7,05*	**3G-8250**	5V-4311	8E-6258	8E-6259	**815B**

Fasteners



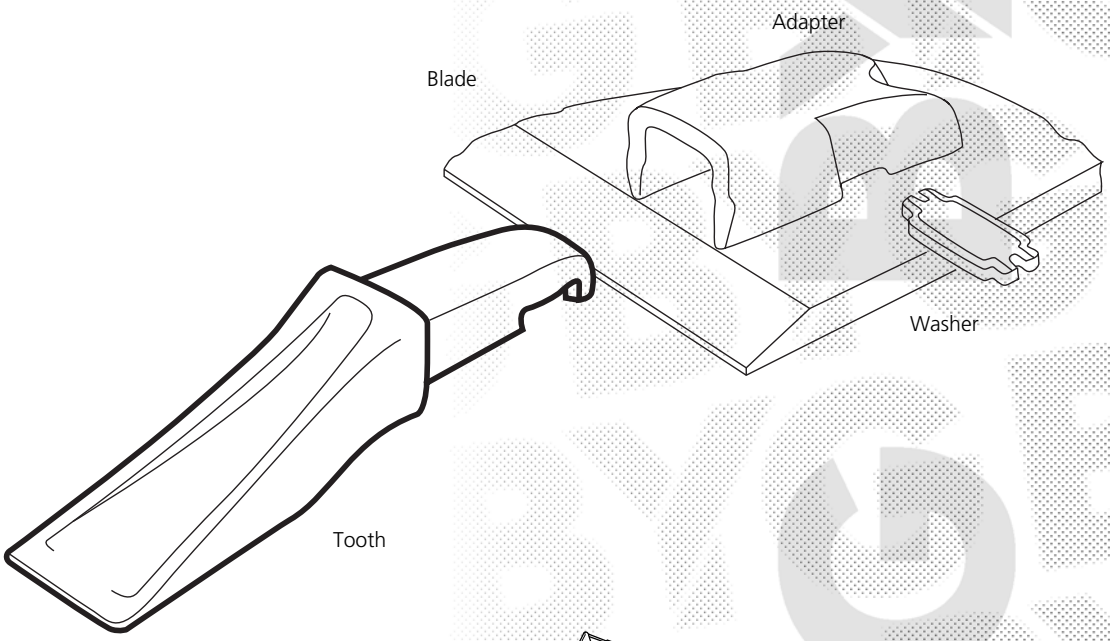
mm. A	B	C		
14 *0,55"*	81 *3,19"*	30 *1,18"*	**8E-6258**	**8E-6259**

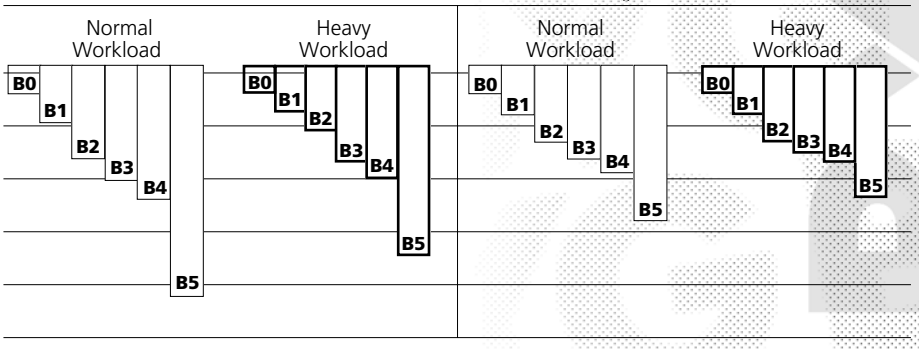
DRP

Bofors

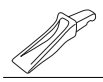
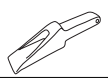
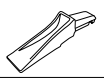
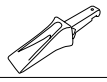
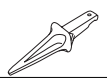
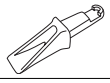
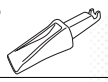
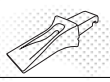
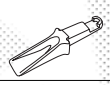
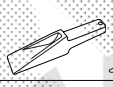
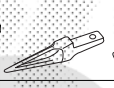
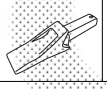
Bold ref. number, product available
Other ref. number please consult.

Teeth





B0	16-22 mm
B1	25-30 mm
B2	30-35 mm
B3	40-45 mm
B4	50-60 mm
B5	60-90 mm

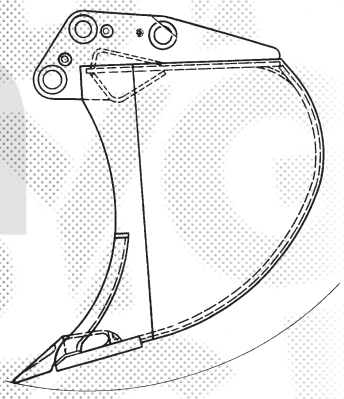
Loader			Excavator					Clamshell		Excavator Round Washer			
													
4047166 30101	*4038279*	**3000-FN**	-	-	**4046818** 30104	**3000-BT**		**4044291** 30103	-	-	-	-	**B0**
-	-	**7014**	-	-	-	-	**7015**	-	-	-	-	-	
4047167 31102 **4047168** 31106	**4038208**	**4000-FN** *5000-FN*	**4044336** 31101	-	**4046799** 31104 *4046961* 31105	**4000-BT**		**4044388** 31103	-	**4037988**	-	-	**B1**
3031537 32101 *3031538* 32104	**3027580**	**7500-FN** **8000-FN**	**4044428** 32102	**4046911** 32103	**3032682** 32105	-	-	**3031362**	**1040-15**	**4046729**	**330-14**	-	**B2**
3031539 33102	-	**10000-FN**	**3031334** 33101	**3031364** 33103	**3031354** 33104	*7500-BT*	-	-	-	**4046663** **4038261** 38111 **4038207** *4038257* *4038205*	**4046746** *4046746E*	-	**B3**
3031542 34102	-	-	**3031335** 34101	-	-	-	-	-	-	**3027689** 38104	*340-20*	*3027538*	**B4**
3031386 35102	-	-	**3031336** 35101	-	-	-	-	-	-	**3027512** 38101	*3452038*	**3027524** 38102	**B5**
pag 3.3	pag 3.3	pag 3.4	pag 3.5	pag 3.5	pag 3.6	pag 3.6	pag 3.4	pag 3.7	pag 3.7	pag 3.8	pag 3.8	pag 3.9	

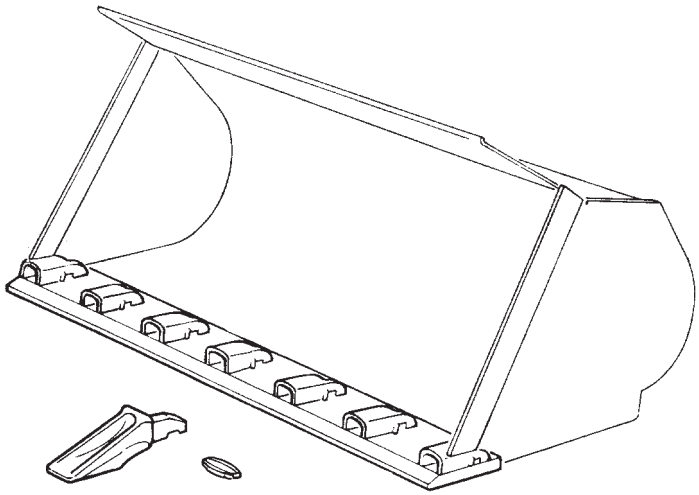
Teeth

What you need to Know

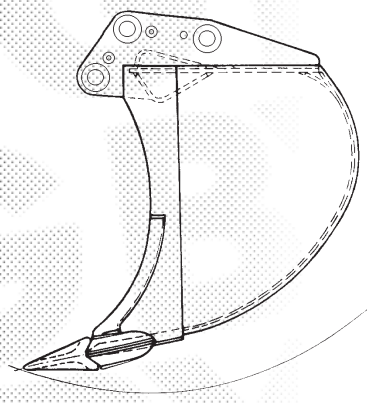
Depending on the adapter system, Bofors presents the following applications:

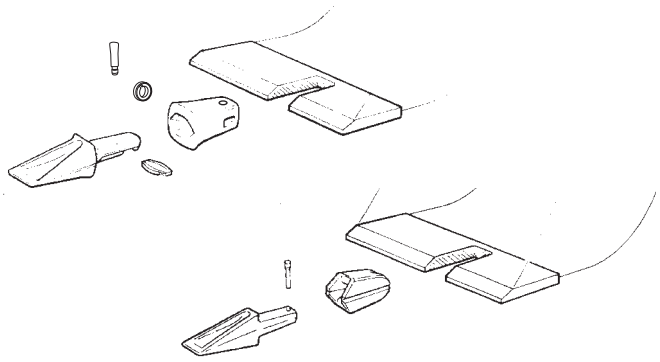
1 Loader flush system adapter for loaders



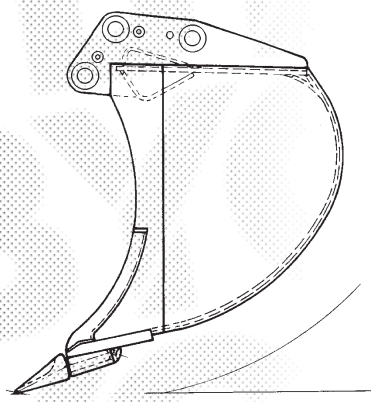


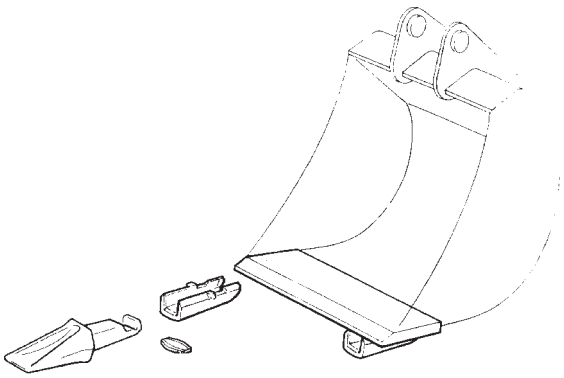
2 Clamshell adapter system for Excavators



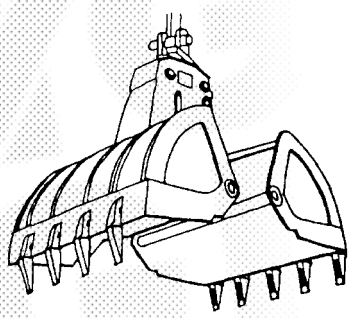


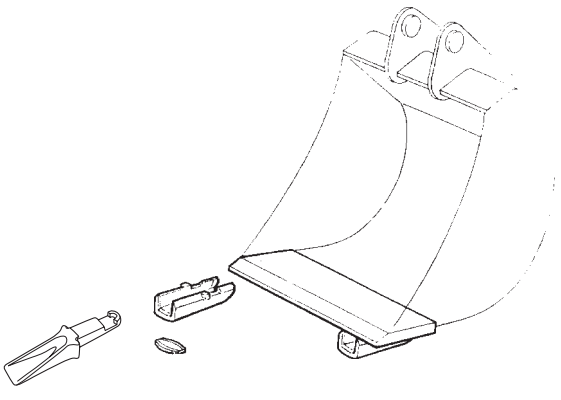
3 Loader flush adapter system for Excavators



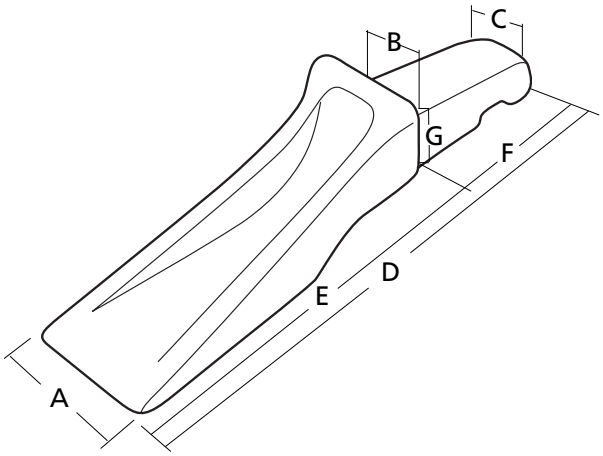


4 Clamshell flush adapter system



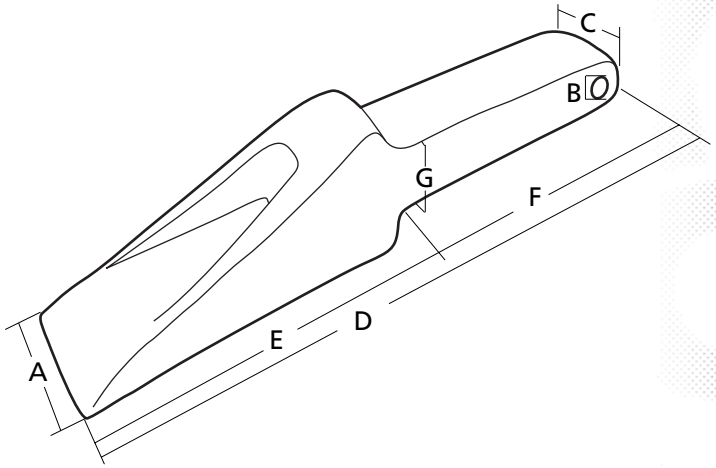


Bofors Loader Teeth



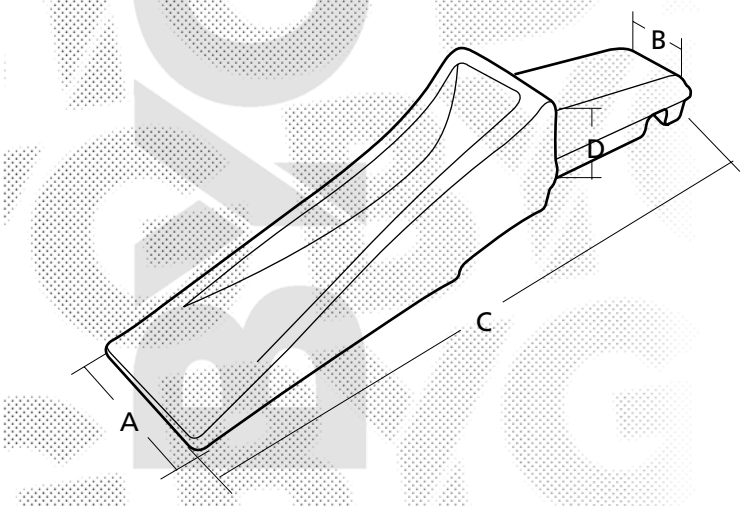
mm. A	B	C	D	E	F	G		KG lb				
62 *7,00"*	36 *1,42"*	32 *1,26"*	260 *10,24"*	160 *6,30"*	100 *3,94"*	36 *1,42"*	16 - 22 *0,63" - 0,87"*	2,50 *5,51*	**4047166** 30101	4046816	6254673	**B0**
70 *2,76"*	42 *1,65"*	37 *1,46"*	308 *12,13"*	190 *7,48"*	118 *4,65"*	44 *1,73"*	25 - 30 *0,98" - 1,18"*	4,60 *10,14*	**4047167** 31102	4046797	6254675	**B1**
70 *2,76"*	42 *1,65"*	37 *1,46"*	308 *12,13"*	190 *7,48"*	118 *4,65"*	44 *1,73"*	30 - 35 *1,18" - 1,38"*	4,57 *10,07*	**4047168** 31106			
85 *3,35"*	54 *2,13"*	48 *1,89"*	380 *14,96"*	230 *9,06"*	150 *5,91"*	54 *2,13"*	30 - 35 *1,18" - 1,38"*	8,20 *18,08*	**3031537** 32101	4046819	6254677	**B2**
85 *3,35"*	54 *2,13"*	48 *1,89"*	380 *14,96"*	230 *9,06"*	150 *5,91"*	54 *2,13"*	35 - 40 *1,38" - 1,57"*	- -	*3031538* 32104			
110 *4,33"*	59 *2,32"*	53 *2,09"*	420 *16,54"*	255 *10,04"*	165 *6,50"*	59 *2,32"*	40 *1,57"*	8,20 *18,08*	**3031539** 33102	4046862	6254682	**B3**
125 *4,92"*	115 *4,53"*	47 *1,85"*	525 *20,67"*	328 *12,91"*	197 *7,76"*	70 *2,76"*	50 - 60 *1,97" - 2,36"*	22,00 *48,50*	**3031542** 34102	4044339	6254682	**B4**
150 *5,91"*	100 *3,94"*	54 *2,13"*	660 *25,98"*	400 *15,75"*	260 *10,24"*	80 *3,15"*	80 - 90 *3,15" - 3,54"*	38,00 *83,77*	**3031386** 35102	3031387	6254679	**B5**

Bofors Loader Teeth



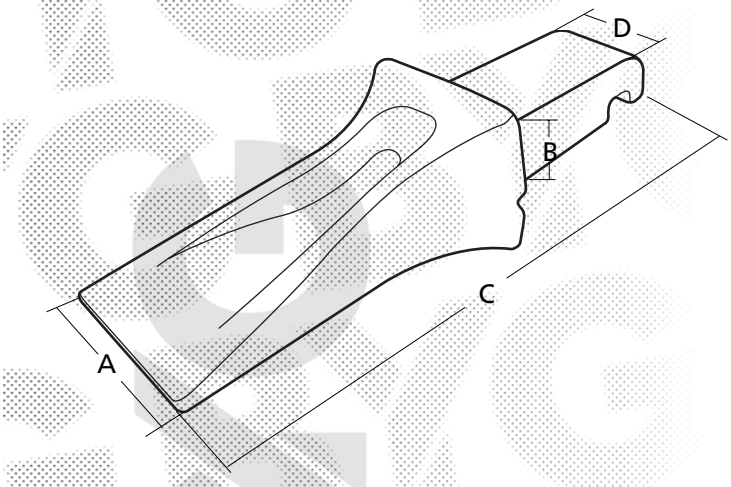
mm. A	B	C	D	E	F	G		KG lb					
59 *2,32"*	13 *0,51"*	34 *1,34"*	230 *9,06"*	135 *5,31"*	95 *3,74"*	34 *1,34"*	16 - 22 *0,63" - 0,87"*	-	*4038279*	4038219	M-10090	TM-010	**B0**
59 *2,32"*	14 *0,55"*	40 *1,57"*	290 *11,42"*	157 *6,18"*	133 *5,24"*	40 *1,57"*	25 *0,98"*	3,50 *7,72*	**4038208**	4038223	M-10090	TM-010	**B1**
80 *3,15"*	14 *0,55"*	50 *1,97"*	360 *14,17"*	205 *8,07"*	155 *6,10"*	50 *1,97"*	30 *1,18"*	6,10 *13,45*	**3027580**	4038210	M-10090	TM-010	**B2**

Bofors Loader Teeth



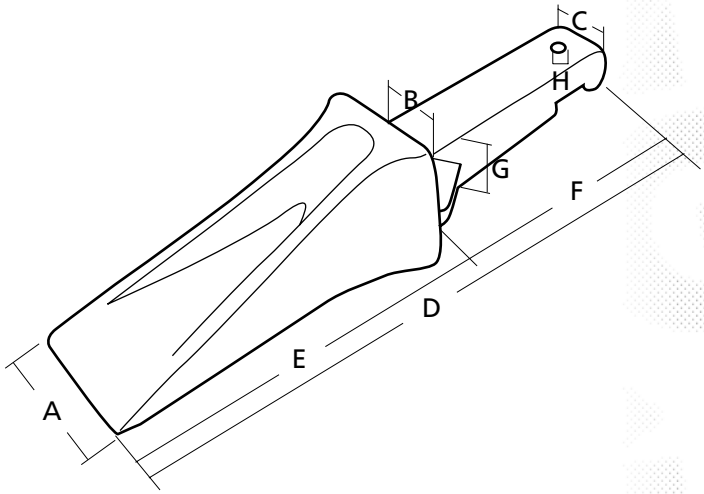
mm. A	B	C	D		KG lb				
65 *2,56"*	34 *1,34"*	241 *9,49"*	34 *1,34"*	16 - 20 *0,63" - 0,79"*	2,27 *5,00*	**3000-FN**	H-300	5-ST	**B0**
70 *2,76"*	44 *1,73"*	291 *11,46"*	32 *1,26"*	20 - 25 *0,79" - 0,98"*	3,60 *7,94*	**7014**	-	5-STE	**-**
75 *2,95"*	40 *1,57"*	291 *11,46"*	40 *1,57"*	25 - 30 *0,98" - 1,18"*	4,00 *8,82*	**4000-FN**	H-400	10-ST	**B1**
80 *3,15"*	45 *1,77"*	320 *12,60"*	42 *1,65"*	30 - 35 *1,18" - 1,38"*	- -	*5000-FN*	H-500		
90 *3,54"*	50 *1,97"*	372 *14,65"*	50 *1,97"*	30 - 35 *1,18" - 1,38"*	7,15 *15,76*	**7500-FN**	H-750	15-ST	**B2**
90 *3,54"*	50 *1,97"*	372 *14,65"*	55 *2,17"*	35 - 40 *1,38" - 1,57"*	8,10 *17,86*	**8000-FN**	H-800		
95 *3,74"*	60 *2,36"*	410 *16,14"*	57 *2,24"*	40 - 45 *1,57" - 1,77"*	10,50 *23,15*	**10000-FN**	H-1000	20-ST	**B3**

Bofors Excavator Teeth



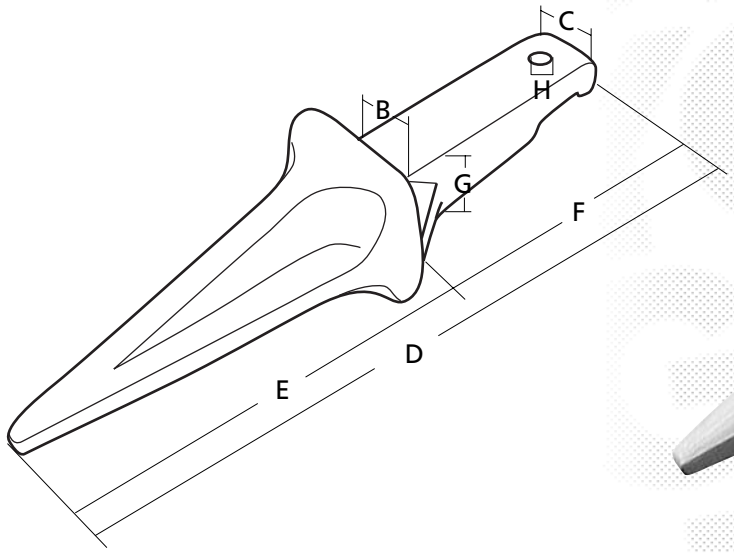
mm. A	B	C	D		KG lb				
75 *2,95"*	44 *1,73"*	240 *9,45"*	32 *1,26"*	16 - 20 *0,63" - 0,79"*	2,50 *5,51*	**7015**	-	5-STE	**-**

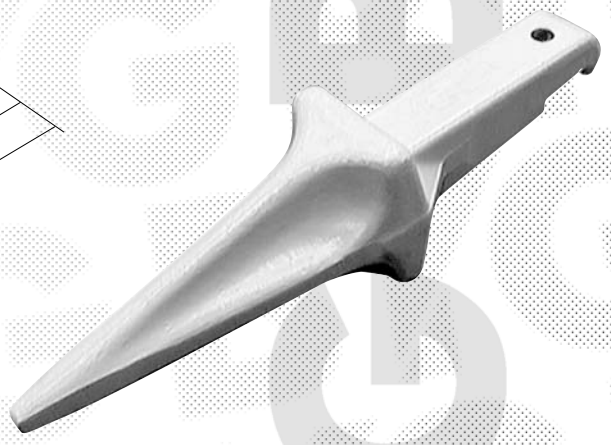
Bofors Excavator Teeth



mm. A	B	C	D	E	F	G	H		KG lb			Bofors	O&K		
80 *3,15"*	44 *1,73"*	41 *1,61"*	340 *13,39"*	190 *7,48"*	150 *5,91"*	44 *1,73"*	15 *0,59"*	16 - 20 *0,63" - 0,79"*	6,00 *13,23*	**4044336*** 31101	3031434	6254675	BF-2073	8E-6259	**B1**
90 *3,54"*	52 *2,05"*	49 *1,93"*	408 *16,06"*	230 *9,06"*	178 *7,01"*	52 *2,05"*	15 *0,59"*	25 - 30 *0,98" - 1,18"*	9,70 *21,38*	**4044428*** 32102	3031394	6254677	BF-2073	8E-6259	**B2**
100 *3,94"*	58 *2,28"*	55 *2,17"*	485 *19,09"*	270 *10,63"*	215 *8,46"*	58 *2,28"*	24 *0,94"*	35 - 40 *1,38" - 1,57"*	14,00 *30,86*	**3031334*** 33101	3031395	6254682	BF-2886	8E-6359	**B3**
110 *4,33"*	64 *2,52"*	62 *2,44"*	545 *21,46"*	305 *12,01"*	240 *9,45"*	64 *2,52"*	24 *0,94"*	40 - 50 *1,57" - 1,97"*	20,50 *45,19*	**3031335*** 34101	3031396	6254682	BF-2886	8E-6359	**B4**
125 *4,92"*	75 *2,95"*	72 *2,83"*	595 *23,43"*	340 *13,39"*	255 *10,04"*	75 *2,95"*	26 *1,02"*	50 - 60 *1,97" - 2,36"*	29,00 *63,93*	**3031336*** 35101	3031397	6254679	BF-3097	8E-8469	**B5**

Bofors Excavator Teeth VIP

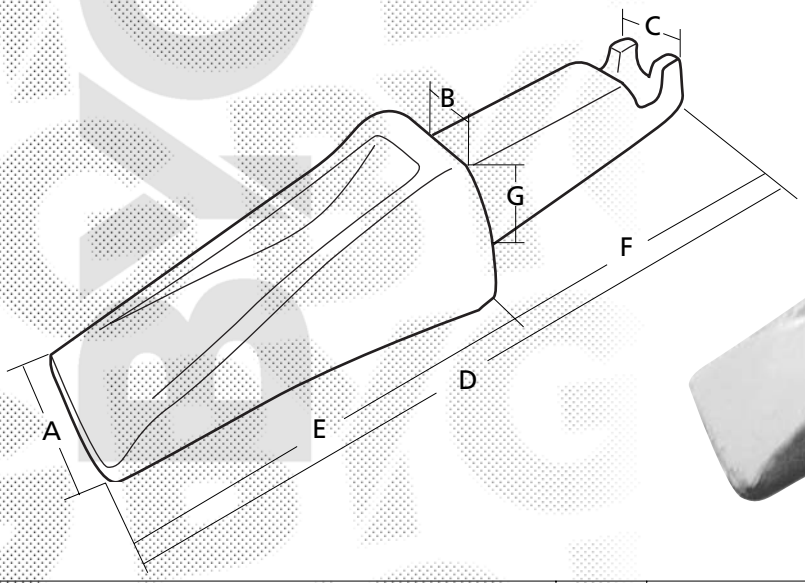


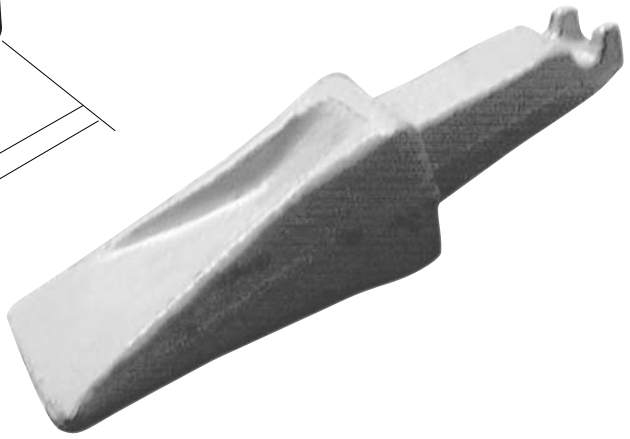


mm. B	C	D	E	F	G	H		KG lb				Bofors	O&K		
52 *2,05"*	49 *1,93"*	435 *17,13"*	247 *9,72"*	188 *7,40"*	52 *2,05"*	15 *0,59"*	25 - 30 *0,98" - 1,18"*	8,70 *19,18*	**4046911*** 32103	3031394	6254677	BF-2073	8E-6259	**B2**
58 *2,28"*	55 *2,17"*	505 *19,88"*	290 *11,42"*	215 *8,46"*	58 *2,28"*	24 *0,94"*	35 - 40 *1,38" - 1,57"*	12,50 *27,56*	**4046911*** 32103	3031395	6254682	BF-2886	8E-6359	**B2**

* Our teeth are prepared to be mounted with both systems, **Bofors** side pin and **O&K** vertical pin system

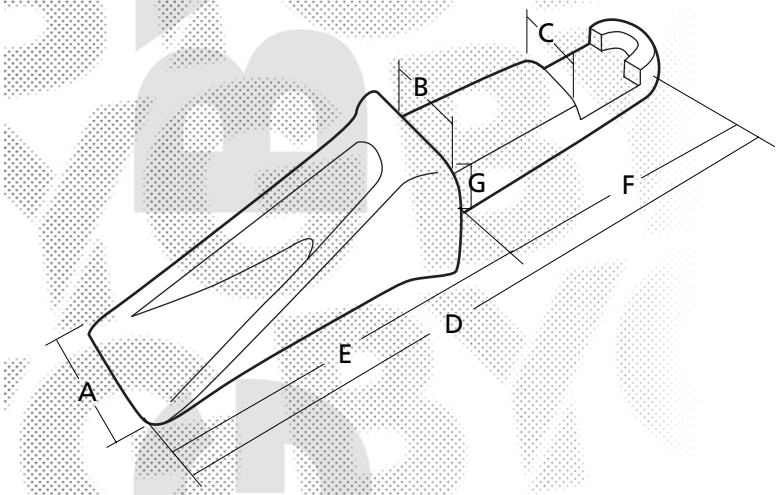
Bofors Excavator Teeth





mm. A	B	C	D	E	F	G		KG lb				
62 *2,44"*	- -	34 *1,34"*	228 *8,98"*	136 *5,35"*	92 *3,62"*	34 *1,34"*	16 - 20 *0,63" - 0,79"*	2,12 *4,67*	**3000-BT**	H-300	5-ST	**B0**
70 *2,76"*	- -	40 *1,57"*	268 *10,55"*	163 *6,42"*	105 *4,13"*	40 *1,57"*	25 - 30 *0,98" - 1,18"*	3,30 *7,28*	**4000-BT**	H-400	10-ST	**B1**
80 *3,15"*	- -	50 *1,97"*	340 *13,39"*	- -	- -	50 *1,97"*	40 *1,57"*	- -	*7500-BT*	H-750	15-ST	**B3**

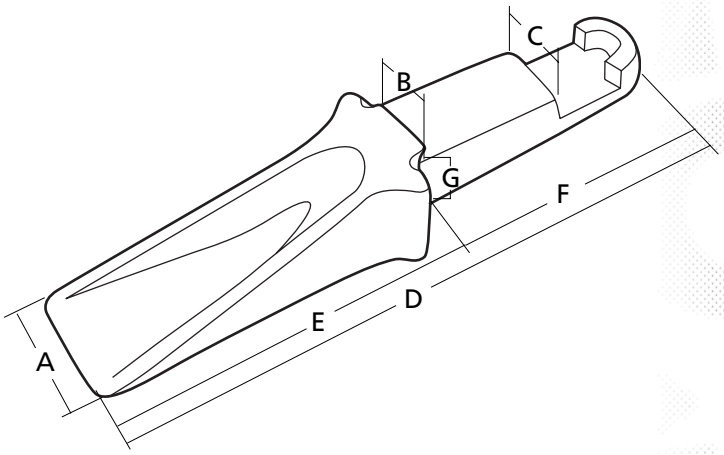
Bofors Excavator Teeth



mm. A	B	C	D	E	F	G		KG lb				
62 *2,44"*	36 *1,42"*	32 *1,26"*	228 *8,98"*	135 *5,31"*	102 *4,02"*	36 *1,42"*	16 - 22 *0,63" - 0,87"*	2,20 *4,85*	**4046818** 30104	4046816	6254673	**B0**
65 *2,56"*	42 *1,65"*	37 *1,46"*	279 *10,98"*	162 *6,38"*	117 *4,61"*	44 *1,73"*	25 *0,98"*	3,70 *8,16*	**4046799** 31104	4046797	6254675	**B1**
80 *3,15"*	42 *1,65"*	37 *1,46"*	310 *12,20"*	184 *7,24"*	126 *4,96"*	44 *1,73"*	25 *0,98"*	- -	*4046961* 31105	4046797	6254675	
80 *3,15"*	54 *2,13"*	48 *1,89"*	345 *13,58"*	202 *7,95"*	143 *5,63"*	54 *2,13"*	30 *1,18"*	7,40 *16,31*	**3032682** 32105	4046819	6254677	**B2**
110 *4,33"*	59 *2,32"*	52 *2,05"*	397 *15,63"*	235 *9,25"*	162 *6,38"*	59 *2,32"*	40 *1,57"*	11,20 *24,69*	**3031354** 33104	4046862	6254682	**B3**

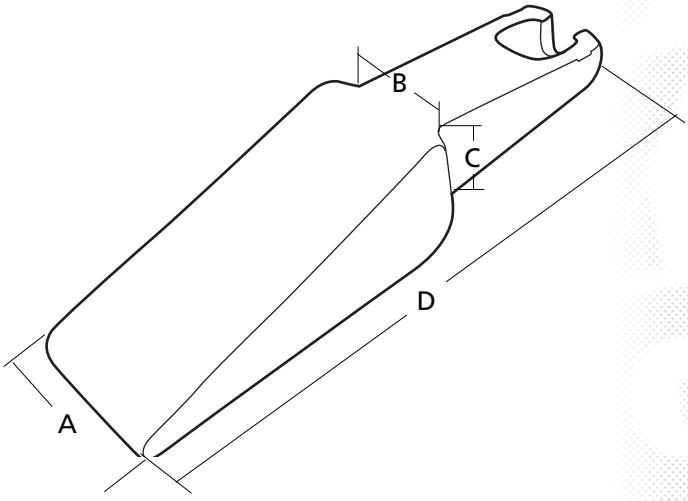
14/9/06

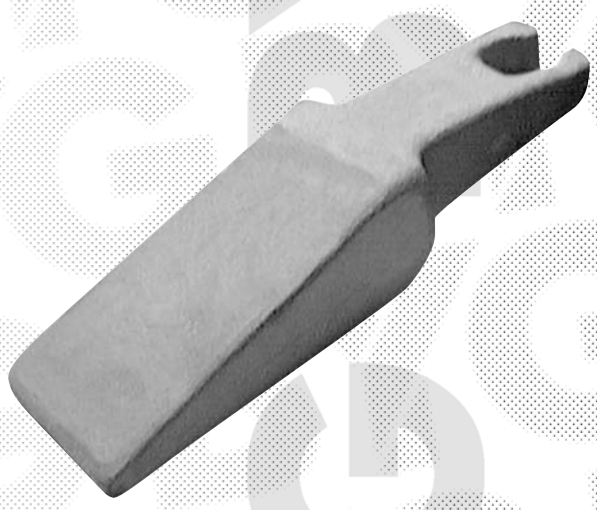
Bofors Clamshell Teeth



mm. A	B	C	D	E	F	G		KG lb				
62 *2,44"*	62 *2,44"*	36 *1,42"*	247 *9,72"*	145 *5,71"*	102 *4,02"*	52 *2,05"*	16 - 22 *0,63" - 0,87"*	2,10 *4,63*	**4044291** 30103	4046816	6254673	**B0**
70 *2,76"*	70 *2,76"*	42 *1,65"*	292 *11,50"*	167 *6,57"*	125 *4,92"*	64 *2,52"*	25 *0,98"*	3,30 *7,28*	**4044388** 31103	4046797	6254675	**B1**
85 *3,35"*	91 *3,58"*	54 *2,13"*	410 *16,14"*	255 *10,04"*	155 *6,10"*	77 *3,03"*	30 *1,18"*	6,00 *13,23*	**3031362**	4046819	6254677	**B2**

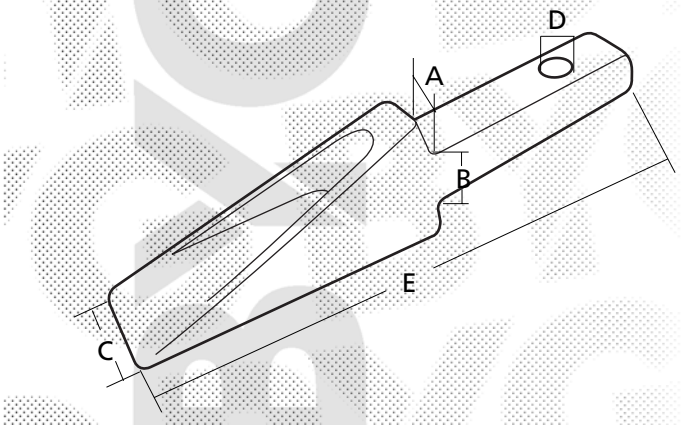
Bofors Clamshell Teeth for Poclain

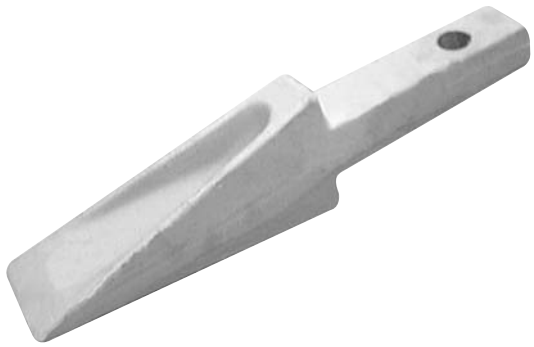




mm. A	B	C	D	KG lb						
75 *2,95"*	52 *2,05"*	50 *1,97"*	247 *9,72"*	5,30 *11,68*	**1040-15**	1040-78	M-14060	TM-014	0-214	**B2**

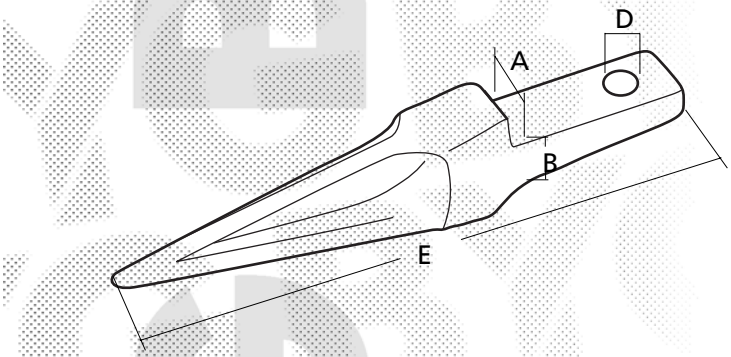
Bofors Clamshell Teeth





mm. A	B	C	D	E		KG lb				
45 *1,77"*	45 *1,77"*	76 *2,99"*	14 *0,55"*	333 *13,11"*	25 *0,98"*	5,00 *11,02*	**4037988**	4043608	200-14-OL	**B1**
50 *1,97"*	50 *1,97"*	80 *3,15"*	14 *0,55"* 24 *0,94"*	345 *13,58"*	30 *1,18"*	7,3 *16,09*	**4046729***	130-02	200-14-OL	**B2**
		90 *3,54"*	20 *0,79"*	400 *15,75"*		10,00 *22,05*	**4046663**			
		92 *3,62"*	20 *0,79"*	485 *19,09"*	30 *1,18"*	12,00 *26,46*	**4038261** 38111			
57 *2,24"*	58 *2,28"*	92 *3,62"*	28 *1,10"*	485 *19,09"*		12,00 *26,46*	**4038207**	3031112	200-18-OL	**B3**
		92 *3,62"*	20 *0,79"*	450 *17,72"*	40 *1,57"*	-	*4038257*			
		92 *3,62"*	28 *1,10"*	450 *17,72"*		-	*4038205*			
64 *2,52"*	64 *2,52"*	95 *3,74"*	20 *0,79"*	510 *20,08"*	40 *1,57"*	16,00 *35,27*	**3027689** 38104	3031113	200-18-OL	**B4**
75 *2,95"*	75 *2,95"*	105 *4,13"*	20 *0,79"*	580 *22,83"*	60 *2,36"*	24,00 *52,91*	**3027512** 38101	3031265	200-18-OL	**B5**

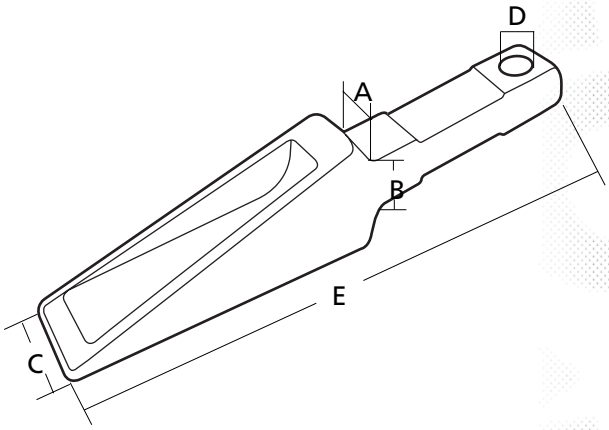
Bofors Clamshell Teeth



mm. A	B	D	E		KG lb				
50 *1,97"*	50 *1,97"*	14 *0,55"* 24 *0,94"*	404 *15,91"*	30 *1,18"*	7,00 *15,43*	**330-14***	130-02	200-14-OL	**B2**
57 *2,24"*	58 *2,28"*	20 *0,79"*	460 *18,11"*	40 *1,57"*	11,00 *24,25*	**4046746**	3031112	200-18-OL	**B3**
		28 *1,10"*			- -	*4046746E*			
64 *2,52"*	64 *2,52"*	20 *0,79"*	550 *21,65"*	50 *1,97"*	- -	*340-20*	3031113	200-18-OL	**B4**
75 *2,95"*	75 *2,95"*	20 *0,79"*	630 *24,80"*	60 *2,36"*	- -	*3452038*	3031265	200-18-OL	**B5**

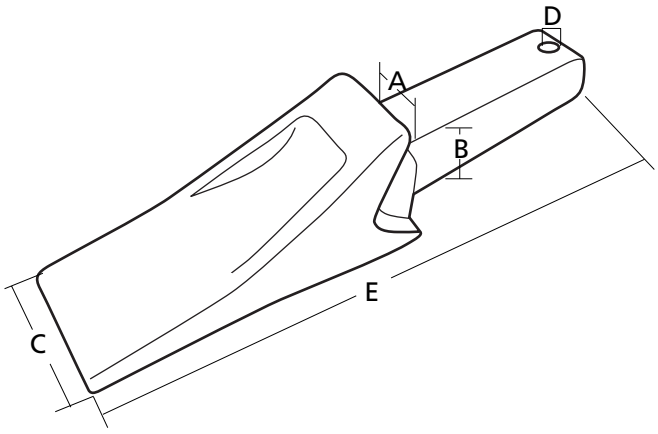
***Component manufactured with two holes of 14 mm. and 24 mm.

Bofors Excavator Teeth



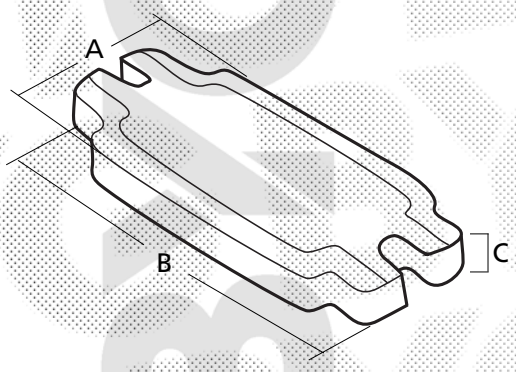
mm.						
A	B	C	D	E	KG lb	
102 *4,02"*	88 *3,46"*	140 *5,51"*	26 *1,02"*	620 *24,41"*	39,20 *86,42*	**231665**

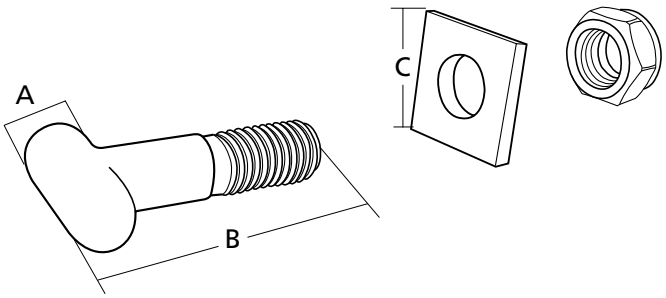
Bofors Excavator Teeth



mm.										
A	B	C	D	E	↕	KG lb				
64 *2,52"*	64 *2,52"*	120 *4,72"*	20 *0,79"*	510 *20,08"*	50 *1,97"*	-	*3027538*	3031113	200-18-OL	**B4**
75 *2,95"*	75 *2,95"*	150 *5,91"*	20 *0,79"*	590 *23,23"*	60 *2,36"*	32,00 *70,55*	**3027524** 38102	3031265	200-18-OL	**B5**

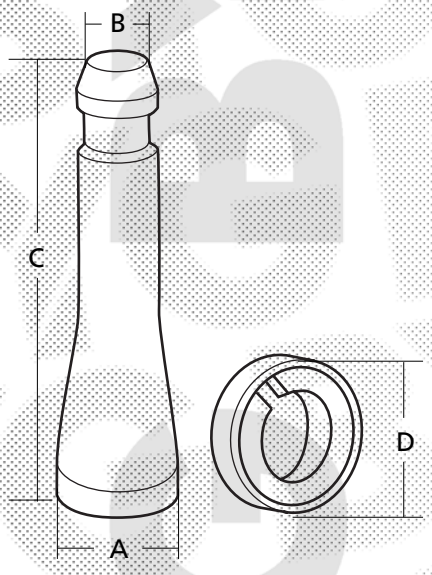
Fasteners

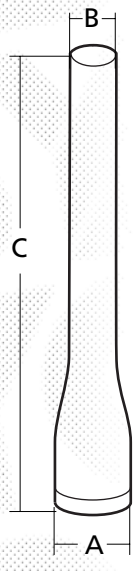


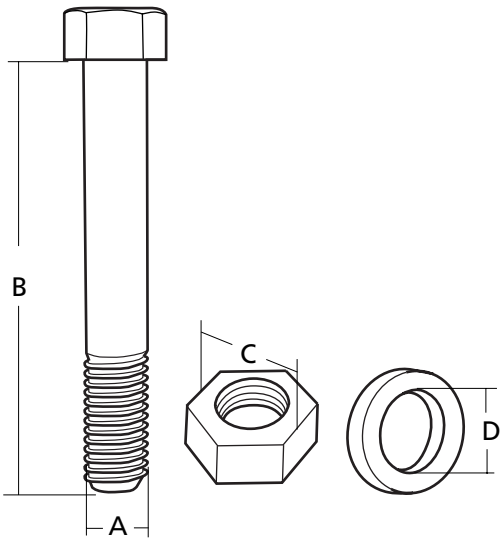


mm. A	B	C	KG lb		
27 *1,06"*	59 *2,32"*	8 *0,31"*	0,05 *0,11*	**6254673**	30201
32 *1,26"*	73 *2,87"*	10 *0,39"*	0,09 *0,20*	**6254675**	31201
34 *1,34"*	86 *3,39"*	10 *0,39"*	0,12 *0,26*	**6254677**	32201
39 *1,54"*	96 *3,78"*	11 *0,43"*	0,18 *0,40*	**6254682**	33201
50 *1,97"*	120 *4,72"*	13 *0,51"*	0,32 *0,71*	**6254679**	35201
55 *2,17"*	120 *4,72"*	13 *0,51"*	0,37 *0,82*	**6220086**	36203

mm. A	B	C		
10 *0,39"*	63 *2,48"*	25 *0,98"*	**5-ST**	TA-010
12 *0,47"*	57 *2,24"*	25 *0,98"*	**5-STE**	TA-012
12 *0,47"*	74 *2,91"*	40 *1,57"*	**10-ST**	TA-012
12 *0,47"*	84 *3,31"*	40 *1,57"*	**15-ST**	TA-012
14 *0,55"*	96 *3,78"*	50 *1,97"*	**20-ST**	TA-014







mm. A	B	C	D		
20 *0,79"*	14 *0,55"*	73 *2,87"*	30 *1,18"*	**BF-2073**	**8E-6259**
28 *1,10"*	19 *0,75"*	97 *3,82"*	40 *1,57"*	**BF-2886**	**8E-6359**
30 *1,18"*	25 *0,98"*	97 *3,82"*	44 *1,73"*	**BF-3097**	**8E-8469**

mm. A	B	C	
19 *0,75"*	13 *0,51"*	120 *4,72"*	**200-14-OL**
28 *1,10"*	18 *0,71"*	150 *5,91"*	**200-18-OL**

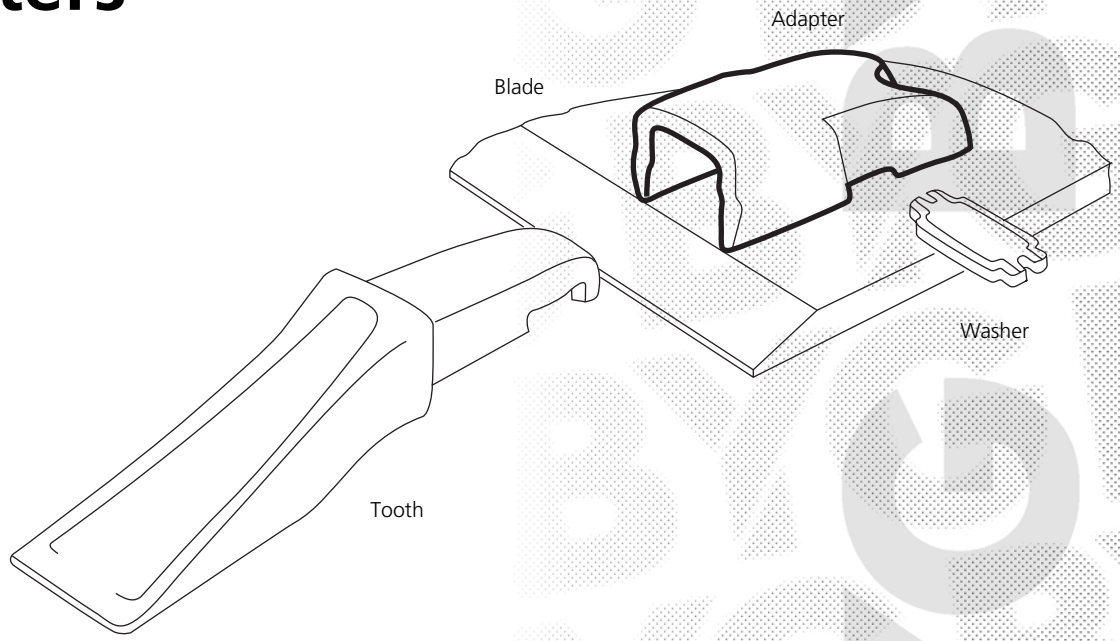
mm. A	B	C	D			
10 *0,39"*	90 *3,54"*	17 *0,67"*	- -	**M-10090**	**TM-010**	-
14 *0,55"*	60 *2,36"*	22 *0,87"*	16 *0,63"*	**M-14060**	**TM-014**	**O-214**

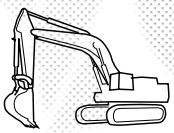
DRP

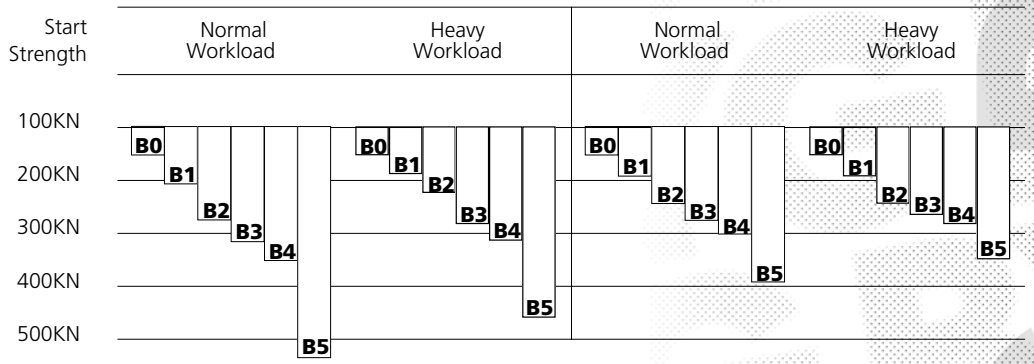
Bofors

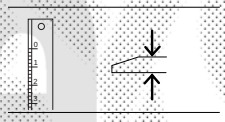
Bold ref. number, product available
Other ref. number please consult.

Adapters

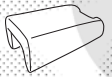
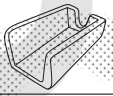
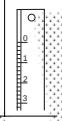




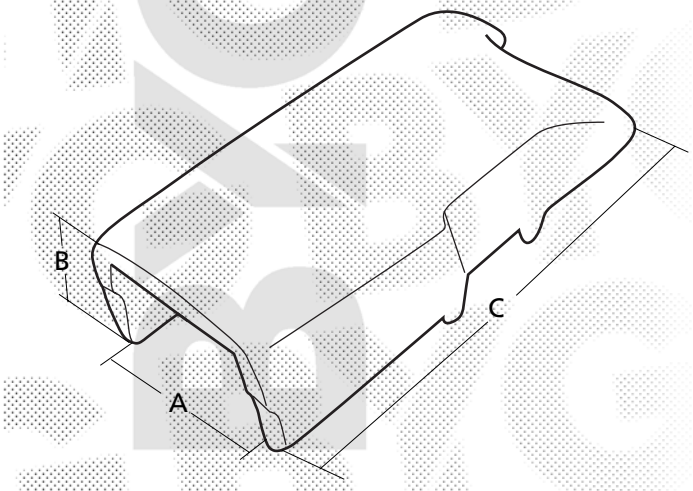




B0	16-22 mm
B1	25-30 mm
B2	30-35 mm
B3	40-45 mm
B4	50-60 mm
B5	60-90 mm

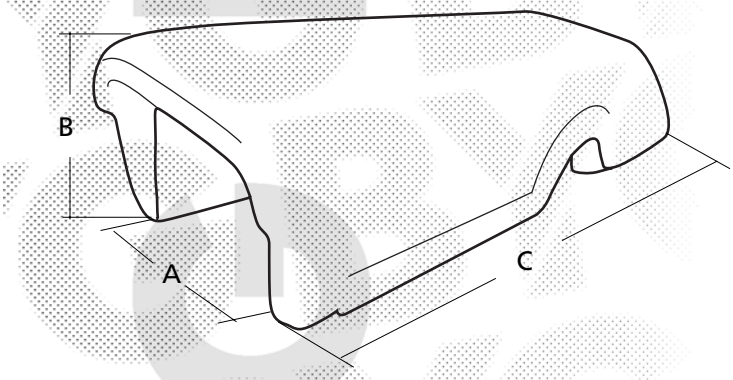
B-Lock	Side Pin	Clamshell	Clamshell	B-Lock	Bolt-On	
						
4046816 31006	*4038219*	-	-	**300-H**	-	**B0**
4046797 31004	**4038223**	**4043608**	**3031434** 31003E	**400-H**	-	**B1**
4046819 32004	**4038210**	**130-02**	**3031394** 32003	*500-H*	**1040-78**	**B2**
4046862 33004	-	**3031112**	**3031395** 33003	-	-	**B3**
4044339 34004	-	**3031113**	**3031396** 34003	*750-H*	-	**B4**
3031387 35003	-	**3031265**	**3031397** 35004	-	-	**B5**
pag 3.12	pag 3.12	pag 3.13	pag 3.13	pag 3.14	pag 3.14	

Bofors B-Lock Adapter



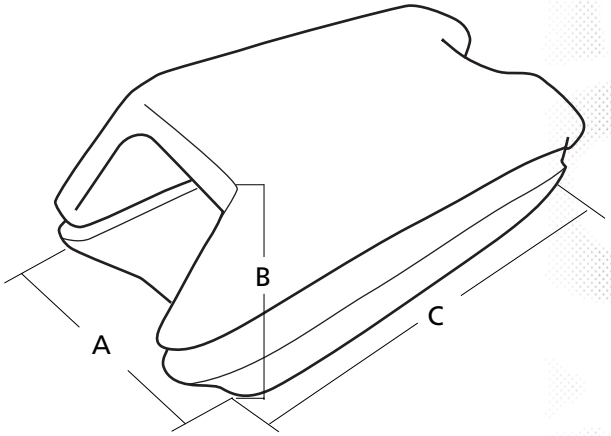
mm. A	B	C	KG. lb						
64 *2,52"*	50 *1,97"*	121 *4,76"*	1,00 *2,20*	**4046816** 31006	4047166	4046818	4044291	6254673	**B0**
77 *3,03"*	61 *2,40"*	160 *6,30"*	1,90 *4,19*	**4046797** 31004	4047167	4046799 4046961	4044388	6254675	**B1**
94 *3,70"*	74 *2,91"*	209 *8,23"*	3,80 *8,38*	**4046819** 32004	3031537	3032682	3031362	6254677	**B2**
105 *4,13"*	83 *3,27"*	216 *8,50"*	5,10 *11,24*	**4046862** 33004	3031539	3031354	-	6254682	**B3**
134 *5,28"*	106 *4,17"*	238 *9,37"*	8,20 *18,08*	**4044339** 34004	3031542	-	-	6254682	**B4**
167 *6,57"*	123 *4,84"*	300 *11,81"*	18,50 *40,78*	**3031387** 35003	3031386	-	-	6254679	**B5**

Side Pin Adapter



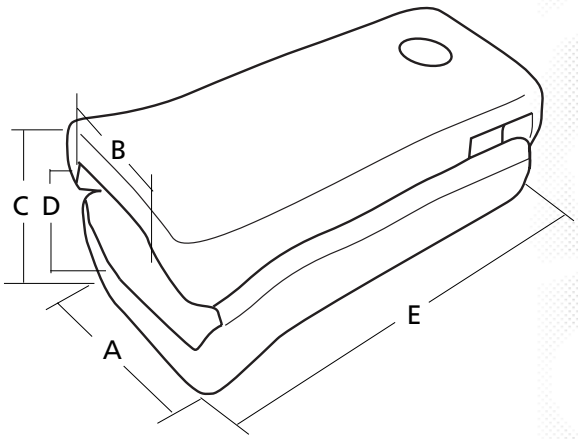
mm. A	B	C	KG lb					
60 *2,36"*	46 *1,81"*	145 *5,71"*	- -	*4038219*	4038279	M-10090	TM-010	**B0**
70 *2,76"*	52 *2,05"*	180 *7,09"*	2,50 *5,51*	**4038223**	4038208	M-10090	TM-010	**B1**
90 *3,54"*	71 *2,80"*	228 *8,98"*	3,30 *7,28*	**4038210**	3027580	M-10090	TM-010	**B2**

Bofors B-Lock Adapter Vertical Pin System



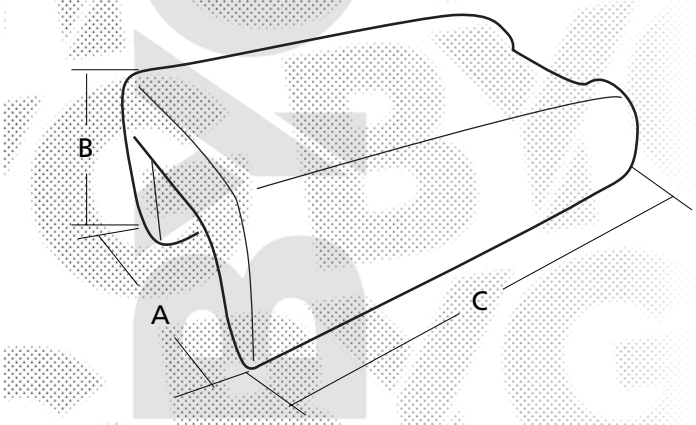
mm. A	B	C	KG lb						
80 *3,15"*	90 *3,54"*	200 *7,87"*	5,20 *11,46*	**4043608**	4037988	-	-	200-14-OL	**B1**
82 *3,23"*	106 *4,17"*	220 *8,66"*	5,20 *11,46*	**130-02**	4046729	330-14	-	200-14-OL	**B2**
116 *4,57"*	116 *4,57"*	240 *9,45"*	11,00 *24,25*	**3031112**	4046663 4038261 4038207 4038257 4038205	4046746 4046746E	-	200-18-OL	**B3**
116 *4,57"*	134 *5,28"*	300 *11,81"*	15,40 *33,95*	**3031113**	3027689	340-20	3027538	200-18-OL	**B4**
121 *4,76"*	145 *5,71"*	330 *12,99"*	19,10 *42,11*	**3031265**	3027512	3452038	3027524	200-18-OL	**B5**

Bofors B-Lock Adapter / O&K Vertical Pin System Adapter



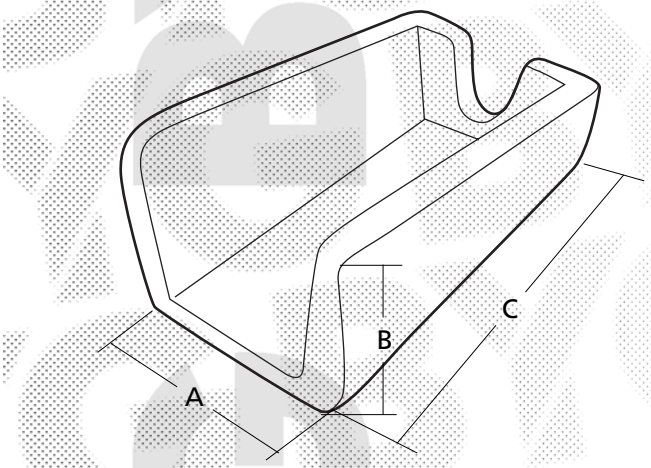
mm. A	B	C	D	E	KG lb				Bofors	O&K		
100 *3,94"*	45 *1,77"*	95 *3,74"*	45 *1,77"*	195 *7,68"*	7,00 *15,43*	**3031434** 31003E	4044336	-	6254675	BF-2073	8E-6259	**B1**
116 *4,57"*	53 *2,09"*	104 *4,09"*	53 *2,09"*	230 *9,06"*	9,50 *20,94*	**3031394** 32003	4044428	4046911	6254677	BF-2886	8E-6359	**B2**
125 *4,92"*	59 *2,32"*	110 *4,33"*	59 *2,32"*	268 *10,55"*	12,50 *27,56*	**3031395** 33003	3031334	3031364	6254682	BF-2886	8E-6359	**B3**
140 *5,51"*	66 *2,60"*	126 *4,96"*	64 *2,52"*	300 *11,81"*	18,00 *39,68*	**3031396** 34003	3031335	-	6254682	BF-3097	8E-8469	**B4**
155 *6,10"*	77 *3,03"*	140 *5,51"*	75 *2,95"*	318 *12,52"*	27,00 *59,52*	**3031397** 35004	3031336	-	6254679	BF-3097	8E-8469	**B5**

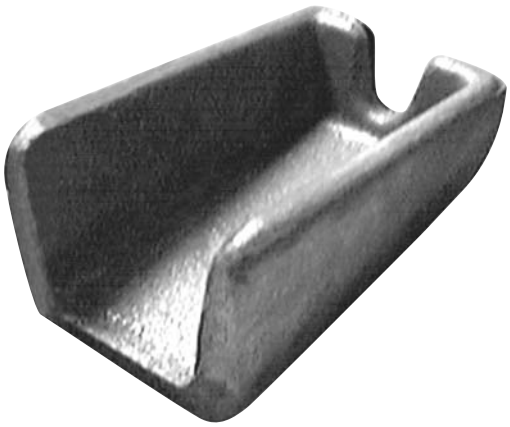
Bofors Rear Lock Adapter



mm. A	B	C	KG lb					
65 *2,56"*	48 *1,89"*	120 *4,72"*	1,20 *2,65*	**300-H**	3000-BT	3000-FN	5-ST	**B0**
74 *2,91"*	57 *2,24"*	150 *5,91"*	1,80 *3,97*	**400-H**	4000-BT	4000-FN	10-ST	**B1**
81 *3,19"*	68 *2,68"*	160 *6,30"*	- -	*500-H*	-	5000-FN	10-ST	**B2**
86 *3,39"*	70 *2,76"*	185 *7,28"*	- -	*750-H*	7500-BT	7500-FN	15-ST	**B4**

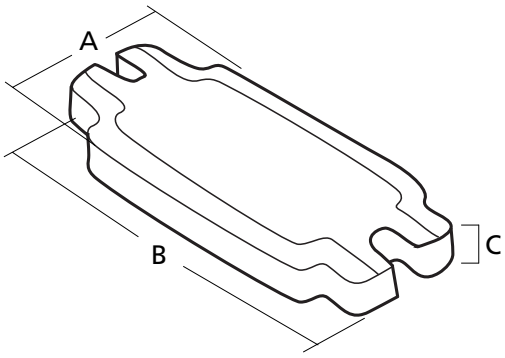
Bolt-On Adapter



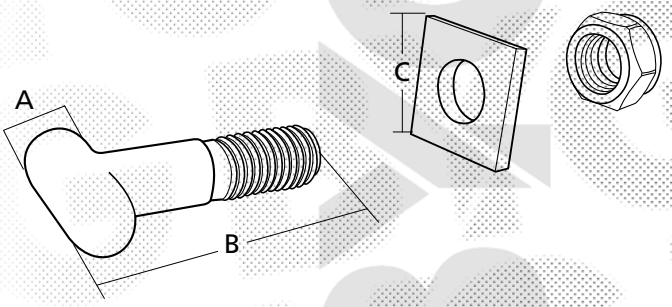


mm. A	B	C	KG lb						
93 *3,66"*	50 *1,97"*	143 *5,63"*	1,60 *3,53*	**1040-78**	1040-15	M-14060	TM-014	0-214	**B2**

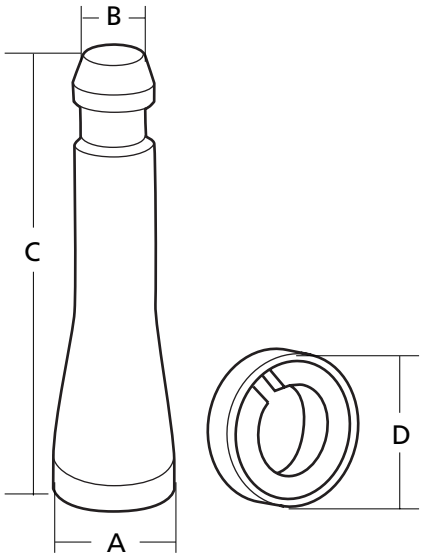
Fasteners



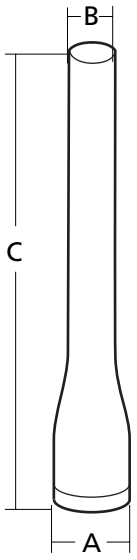
mm. A	B	C	KG lb	
27 *1,06"*	59 *2,32"*	8 *0,31"*	0,05 *0,11*	**6254673** 30201
32 *1,26"*	73 *2,87"*	10 *0,39"*	0,09 *0,20*	**6254675** 31201
34 *1,34"*	86 *3,39"*	10 *0,39"*	0,12 *0,26*	**6254677** 32201
39 *1,54"*	96 *3,78"*	11 *0,43"*	0,18 *0,40*	**6254682** 33201
50 *1,97"*	120 *4,72"*	13 *0,51"*	0,32 *0,71*	**6254679** 35201
55 *2,17"*	120 *4,72"*	13 *0,51"*	0,37 *0,82*	**6220086** 36203



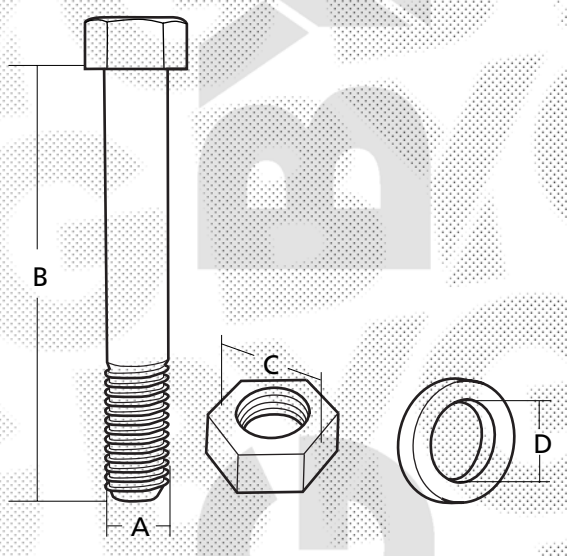
mm. A	B	C		
10 *0,39"*	63 *2,48"*	25 *0,98"*	**5-ST**	TA-010
12 *0,47"*	57 *2,24"*	25 *0,98"*	**5-STE**	TA-012
12 *0,47"*	74 *2,91"*	40 *1,57"*	**10-ST**	TA-012
12 *0,47"*	84 *3,31"*	40 *1,57"*	**15-ST**	TA-012
14 *0,55"*	96 *3,78"*	50 *1,97"*	**20-ST**	TA-014



mm. A	B	C	D		
20 *0,79"*	14 *0,55"*	73 *2,87"*	30 *1,18"*	**BF-2073**	**8E-6259**
28 *1,10"*	19 *0,75"*	97 *3,82"*	40 *1,57"*	**BF-2886**	**8E-6359**
30 *1,18"*	25 *0,98"*	97 *3,82"*	44 *1,73"*	**BF-3097**	**8E-8469**



mm. A	B	C	
19 *0,75"*	13 *0,51"*	120 *4,72"*	**200-14-OL**
28 *1,10"*	18 *0,71"*	150 *5,91"*	**200-18-OL**



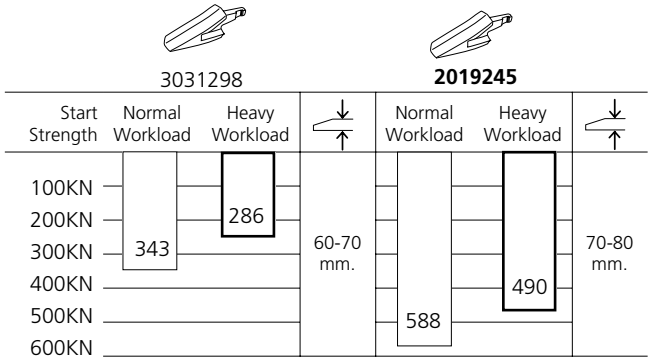
mm. A	B	C	D			
10 *0,39"*	90 *3,54"*	17 *0,67"*	- -	**M-10090**	**TM-010**	-
14 *0,55"*	60 *2,36"*	22 *0,87"*	16 *0,63"*	**M-14060**	**TM-014**	**O-214**

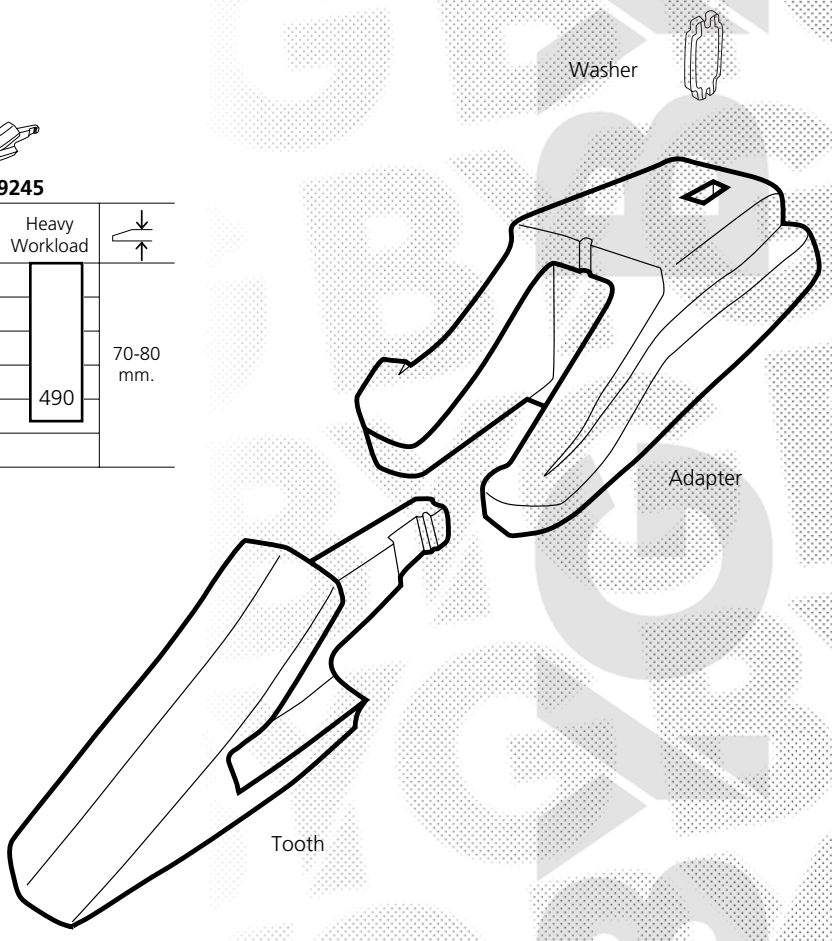
DRP

Bofors

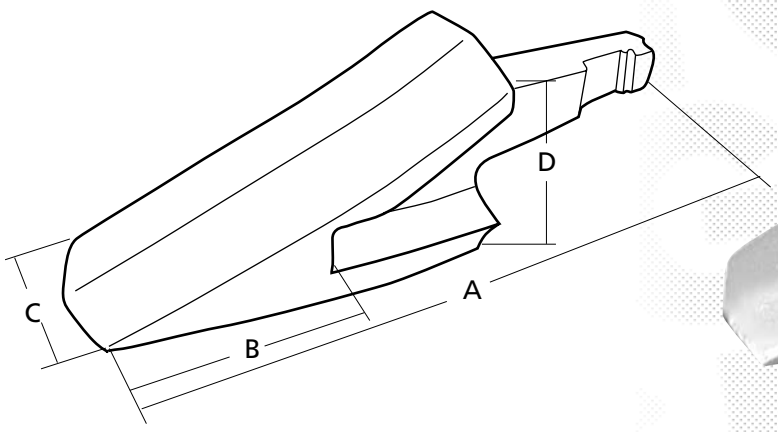
Mining

Bold ref. number, product available
Other ref. number please consult.



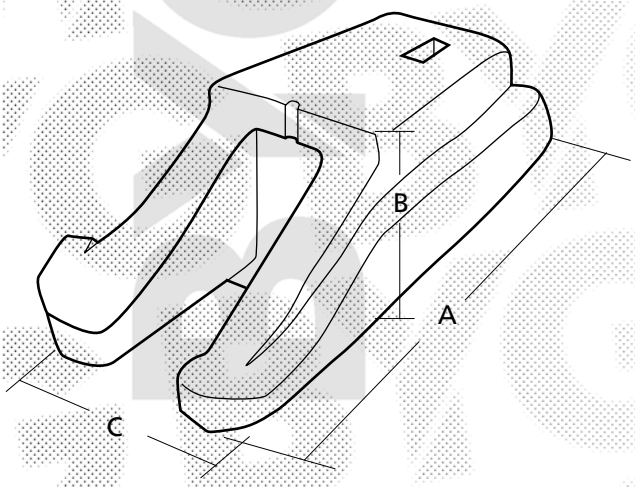


Bofors Mining Teeth



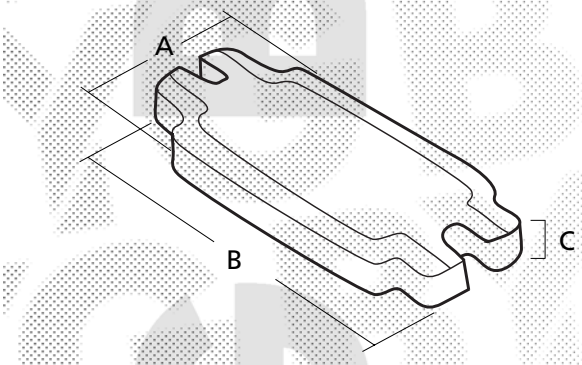
mm. A	B	C	D		KG lb	3031298 36102	3031299	6254682
575 *22,64"*	375 *14,76"*	150 *5,91"*	157 *6,18"*	60 - 70 *2,36" - 2,76"*	- -	*3031298* 36102	3031299	6254682
655 *25,79"*	430 *16,93"*	150 *5,91"*	205 *8,07"*	70 - 80 *2,76" - 3,15"*	48,70 *107,36*	**2019245** 36101	2019254	6220086

Bofors Mining Adapter



mm. A	B	C		KG lb			
438 *17,24"*	144 *5,67"*	220 *8,66"*	60 - 70 *2,36" 2,76"*	- -	*3031299* 36006	3031298	6254682
493 *19,41"*	185 *7,28"*	215 *8,46"*	70 - 80 *2,76" 3,15"*	62,00 *136,68*	**2019254** 36001	2019245	6220086

Fasteners

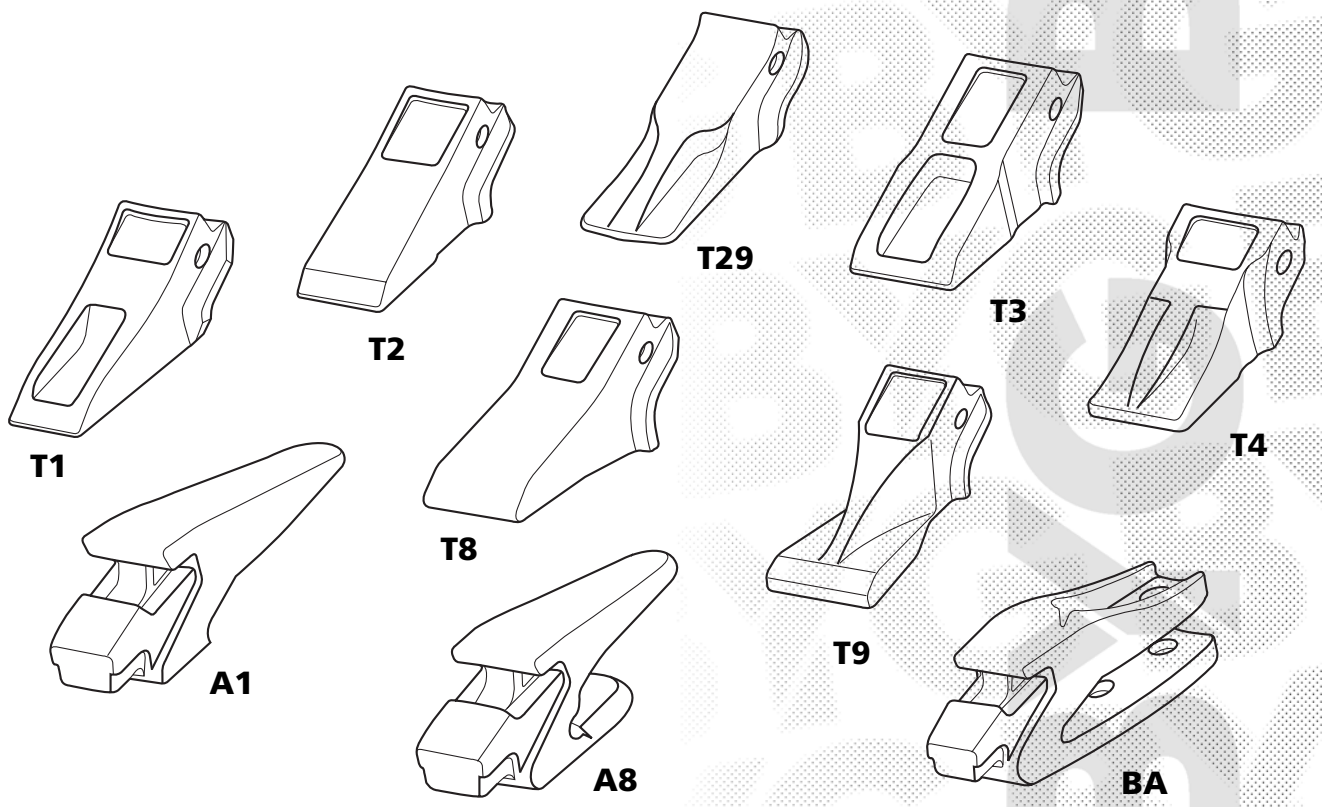


mm. A	B	C	KG lb	
39 *1,54"*	96 *3,78"*	11 *0,43"*	0,18 *0,40*	**6254682** 33201
55 *2,17"*	120 *4,72"*	13 *0,51"*	0,37 *0,82*	**6220086** 36203

Original Bofors

Combi Parts for Loaders

Bold ref. number, product available
Other ref. number please consult.



T1	T2	T29	T3	T4	T8	T9		A1	A8	BA	
10111 1,7 Kg.	-	**10129** 1,7 Kg.	-	-	-	-	**10306**	20 *10001*	-	-	**C0**
11111 2,3 Kg.	-	**11129** 2,4 Kg.	**11113** 3 Kg.	-	-	-		25 *11001*	-	-	**C1**
12111 4,7 Kg.	-	**12129** 3,9 Kg.	**12113** 5,6 Kg.	-	-	-	**12306**	30 *12001*	*12012*	*12052*	**C2**
								35 -	-	*12053*	
13111 7,3 Kg.	*13112* 9,1 Kg.	**13129** 6,8 Kg.	*13113* 8,7 Kg.	*13114* 9 Kg.	-	-	**13306**	35 -	*13013*	*13051*	**C3**
								40 *13001*	*13012*	*13052*	
14111 12,4 Kg.	-	**14129** 11,6 Kg.	*14113* 14,3 Kg.	-	-	-	**14306**	40 -	*14012*	*14052*	**C4**
								45 -	*14013*	-	
								50 *14001*	-	-	
-	*15112* 22,3 Kg.	*15129* 19,6 Kg.	-	-	*15118* 27,4 Kg.	*15119* 24,2 Kg.	15306	60 *15001*	*15006*	-	**C5**
								65 -	-		
-	*16112* 36,9 Kg.	*16129* 41,5 Kg.	-	-	-	-	16306	75 -	*16007*	-	**C6**
								90 -	*16008*	-	

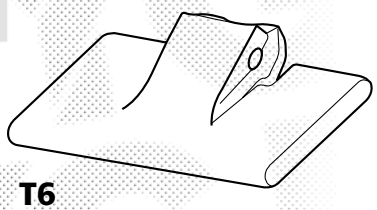
Original

Bofors

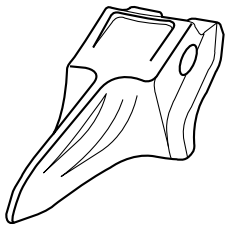
Combi Parts for Excavator

Bold ref. number, product available

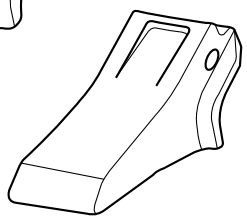
Other ref. number please consult.



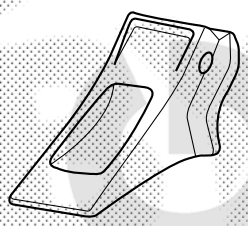
T6



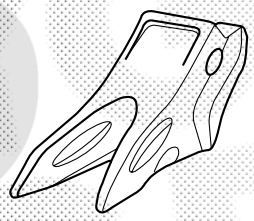
T7



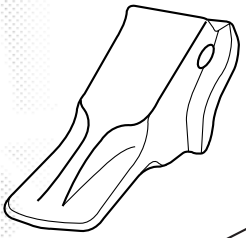
T8



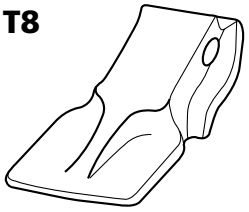
T5



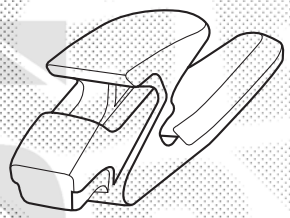
T25



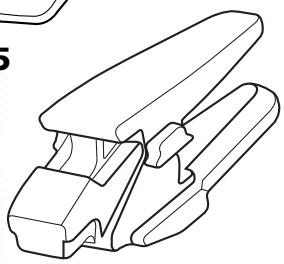
T35



T45



A8



A5

T5	T6	T7	T8	T25	T35	T45			A5	A8	
-	-	-	-	-	-	-	**10306**	20	-	-	**C0**
11115 3,1 Kg.	*11116* 6 Kg.	-	-	-	*11135* 2,7 Kg.	-		25	-	*11002*	**C1**
12115 3,9 Kg.	*12116* 6,5 Kg.	*12117* 3 Kg.	-	-	*12135* 3,5 Kg.	*12145* 4 Kg.	**12306**	25	-	*12007*	**C2**
								30	*12002*	*12008*	
13115 6,7 Kg.	*13116* 10,6 Kg.	*13117* 5,1 Kg.	-	*13125* 6,5 Kg.	*13135* 6,3 Kg.	*13145* 7,4 Kg.	**13306**	35	-	*13009*	**C3**
								40	*13002*	*13008*	
14115 14 Kg.	-	*14117* 9,7 Kg.	*14118* 17,7 Kg.	-	*14135* 12,6 Kg.	*14145* 16,7 Kg.	**14306**	40	-	*14009*	**C4**
								50	*14002*	*14008*	
15115 22,6 Kg.	-	*15117* 18,6 Kg.	*15118* 27,4 Kg.	-	*15135* 20,2 Kg.	*15145* 24,5 Kg.	15306	60	-	*15009*	**C5**
								70	-	*15007*	
								75	-	*15008*	
16115 38 Kg.	-	-	-	-	*16135* 35,6 Kg.	-	16306	75	-	*16007*	**C6**
								90	-	*16008*	

DRP

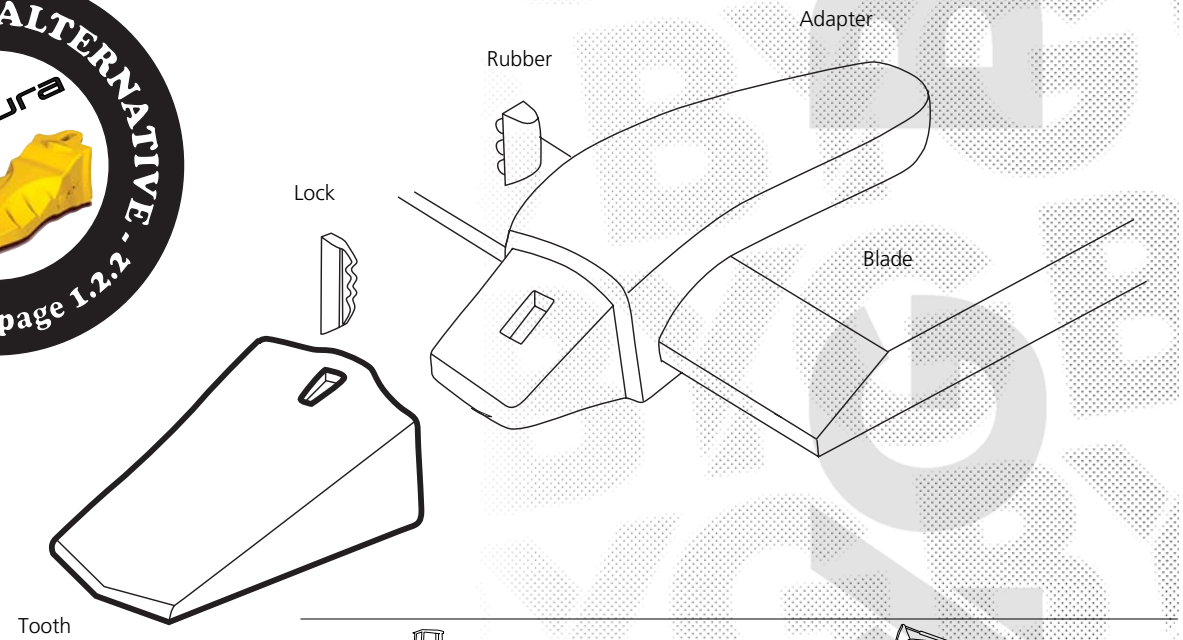
Esco

Conical System Teeth

Bold ref. number, product available

Other ref. number please consult.

Futura Alternative



Power HP Wheels	Power HP Chain			Power HP	Strenght Sudden	Weight in Tons	Bucket Capacity
50-190	50-160	25 mm	**25**	45-100	4-12	10-20	300-1000
170-280	130-250	30 mm	**30**	80-150	9-16	17-25	500-1400
250-350	230-300	35 mm	**35**	140-200	13-20	20-30	600-1600
320-500	275-400	40 mm	**40**	170-300	18-26	30-35	700-2000
400		45 mm	**45-50**	50-400	24-40	45-70	1000-3500

Standard - TL	Twin Tiger	Centerline	Standard	V-Shaped	Rock	Rock Chisel	Dual Purpose	Mining	
18-TL FE18-L	**18-WTL**	-	-	**18-VIP** FE18 P	-	-	-	-	**18**
-	-	**25-S** FE25 S	**25-STD**	**25-VIP**	*25-R*	-	**25-T**	-	**25**
-	-	**30-S** FE30 S	**30-STD**	**30-VIP**	**30-R**	*30-RDX*	**30-T**	-	**30**
-	-	**35-S** FE35 S	**35-STD**	**35-VIP**	**35-R**	-	**35-T**	-	**35**
-	-	**40-S** FE40 S	**40-STD**	**40-VIP**	*40-R*	**40-RDX**	**40-T**	-	**40**
-	-	**45-S**	-	**45-VIP**	*45-R*	*45-RDX*	*45-T*	-	**45**
-	-	**50-S**	-	*50-VIPL*	**50-R**	*50-RDX*	-	-	**50**
-	-	-	-	*55-VIPL*	**55-R**	*55-RDX*	-	-	**55**
-	-	-	-	-	*65-R*	-	-	-	**65**
-	-	-	*70-STD*	-	*70-R*	-	-	-	**70**
-	-	-	-	-	-	-	-	**77-HBP**	**77**
Pag. 4.3	Pag. 4.3	Pag. 4.4	Pag. 4.4	Pag. 4.5	Pag. 4.5	Pag. 4.6	Pag. 4.6	Pag. 4.7	

Teeth

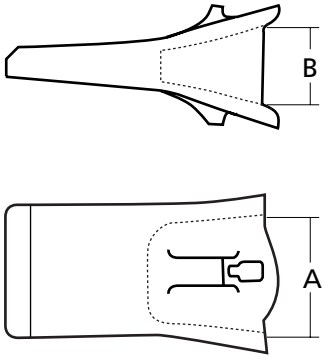
What you need to Know

How to identify a Conical Tooth

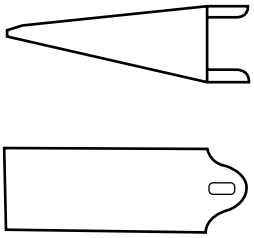
In order to determine the size of a conical tooth whose reference has disappeared due to wear or any other reason we will take the internal dimensions A and B as reference. We don't take external measurements as reference because they may have been affected by the wear. To find out the size of a conical tooth we may also take the reference number or the dimensions of the corresponding rubbers and pins.

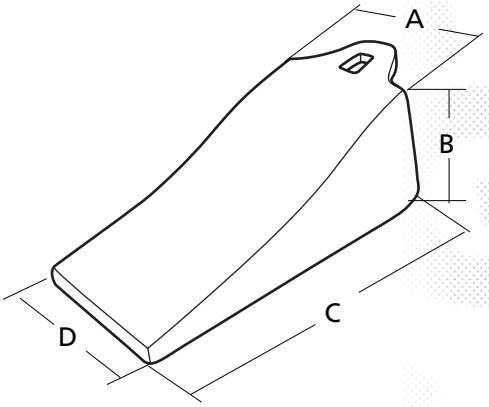
The following table will help you determine the size of any conical tooth.

mm.		
A	B	
46	38	**18**
65	60	**25**
76	60	**30**
89	73	**35**
102	79	**40**
114	89	**45**
124	94	**50**
137	108	**55**
162	133	**65**
173	135	**70**
386	184	**77**



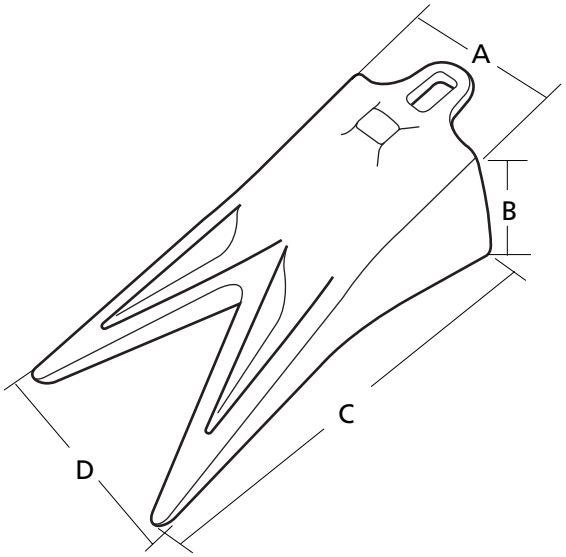
Esco Conical Teeth: TL





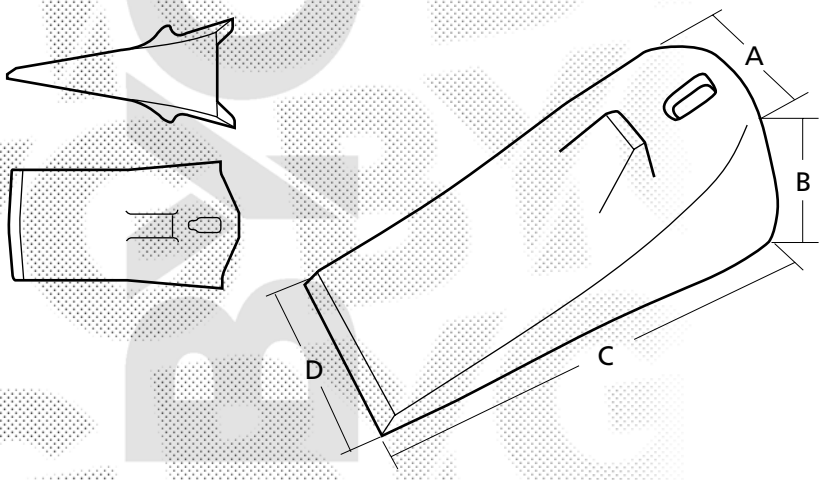
mm. A	B	C	D	KG lb							
60 *2,36"*	51 *2,01"*	120 *4,72"*	55 *2,17"*	1,00 *2,20*	**18-TL** FE18-L	18-PN 18-PNR	18-LK 18-LKR	18-800	833-18	3829-18	**18**

Esco Conical Teeth: WTL



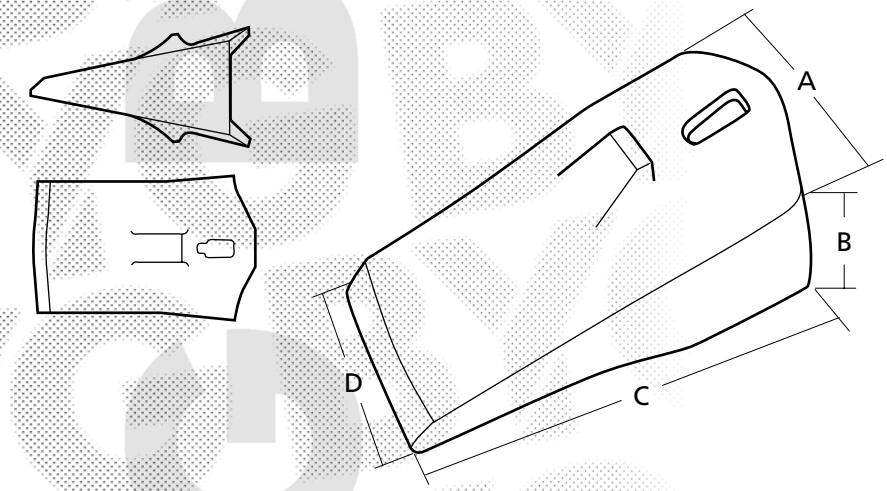
mm. A	B	C	D	KG lb							
58 *2,28"*	50 *1,97"*	134 *5,28"*	72 *2,83"*	0,90 *1,98*	**18-WTL**	18-PN 18-PNR	18-LK 18-LKR	18-800	833-18	3829-18	**18**

Esco Conical Teeth: S



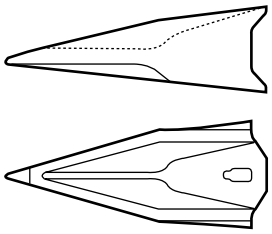
mm. A	B	C	D	KG lb							
65 *2,56"*	61 *2,40"*	167 *6,57"*	64 *2,52"*	2,28 *5,03*	**25-S** FE25 S	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	3806-25	855-25	3829-25	**25**
76 *2,99"*	61 *2,40"*	166 *6,54"*	80 *3,15"*	2,68 *5,91*	**30-S** FE25 S	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	3808-30 3807-30	855-30	3829-30	**30**
89 *3,50"*	73 *2,87"*	194 *7,64"*	94 *3,70"*	4,50 *9,92*	**35-S** FE25 S	35-PN 35-PNR	35-40-LK 35-40-LKR	3808-35	3803-35	3829-35	**35**
102 *4,02"*	79 *3,11"*	222 *8,74"*	108 *4,25"*	6,40 *14,11*	**40-S** FE25 S	40-PN 40-PNR	35-40-LK 35-40-LKR	3809-40	3803-40	3829-40	**40**
114 *4,49"*	89 *3,50"*	251 *9,88"*	121 *4,76"*	7,90 *17,42*	**45-S**	45-PN 45-PNR	45-LK 45-LKR	3810-45	-	-	**45**
124 *4,88"*	97 *3,82"*	256 *10,08"*	133 *5,24"*	10,20 *22,49*	**50-S**	50-PN 50-PNR	50-LK 50-LKR	3811-50	-	-	**50**

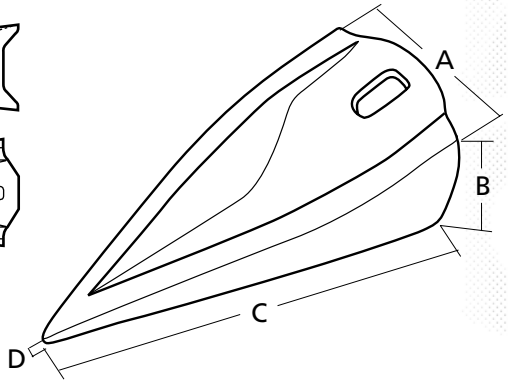
Esco Conical Teeth: STD



mm. A	B	C	D	KG lb							
65 *2,56"*	61 *2,40"*	150 *5,91"*	64 *2,52"*	2,10 *4,63*	**25-STD**	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	3806-25	855-25	3829-25	**25**
76 *2,99"*	61 *2,40"*	139 *5,47"*	79 *3,11"*	2,47 *5,45*	**30-STD**	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	3808-30 3807-30	855-30	3829-30	**30**
89 *3,50"*	73 *2,87"*	157 *6,18"*	94 *3,70"*	3,20 *7,05*	**35-STD**	35-PN 35-PNR	35-40-LK 35-40-LKR	3808-35	3803-35	3829-35	**35**
102 *4,02"*	79 *3,11"*	176 *6,93"*	108 *4,25"*	5,40 *11,90*	**40-STD**	40-PN 40-PNR	35-40-LK 35-40-LKR	3809-40	3803-40	3829-40	**40**
- -	- -	- -	- -	- -	*70-STD*	-	-	-	-	-	**70**

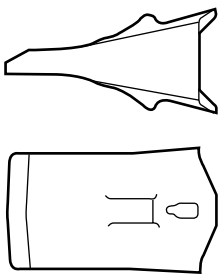
Esco Conical Teeth: VIP

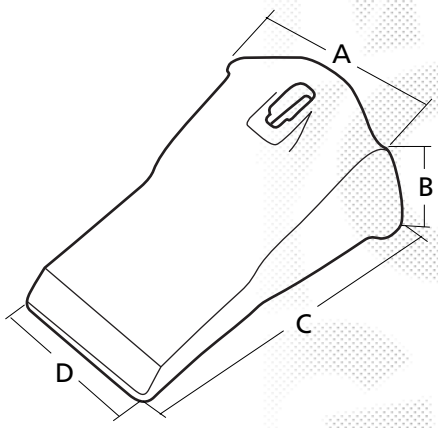




mm. A	B	C	D	KG lb								
46 *1,81"*	38 *1,50"*	156 *6,14"*	5 *0,20"*	1,30 *2,87*	**18-VIP** FE18 P	18-PN 18-PNR	18-LK 18-LKR	18-800	-	833-18	3829-18	**18**
65 *2,56"*	61 *2,40"*	208 *8,19"*	5 *0,20"*	2,53 *5,58*	**25-VIP**	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	-	3806-25	855-25	3829-25	**25**
76 *2,99"*	61 *2,40"*	203 *7,99"*	5 *0,20"*	3,10 *6,83*	**30-VIP**	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	-	3808-30 3807-30	855-30	3829-30	**30**
89 *3,50"*	73 *2,87"*	211 *8,31"*	5 *0,20"*	3,70 *8,16*	**35-VIP**	35-PN 35-PNR	35-40-LK 35-40-LKR	-	3808-35	3803-35	3829-35	**35**
102 *4,02"*	79 *3,11"*	300 *11,81"*	6 *0,24"*	5,80 *12,79*	**40-VIP**	40-PN 40-PNR	35-40-LK 35-40-LKR	-	3809-40	3803-40	3829-40	**40**
139 *5,47"*	103 *4,06"*	300 *11,81"*	6 *0,24"*	7,90 *17,42*	**45-VIP**	45-PN 45-PNR	45-LK 45-LKR	-	3810-45	-	-	**45**
124 *4,88"*	97 *3,82"*	361 *14,21"*	6 *0,24"*	- -	*50-VIPL*	50-PN 50-PNR	50-LK 50-LKR	-	3811-50	-	-	**50**
137 *5,39"*	108 *4,25"*	395 *15,55"*	6 *0,24"*	- -	*55-VIPL*	55-PN 55-PNR	55-LK 55-LKR	-	3832-55	-	-	**55**

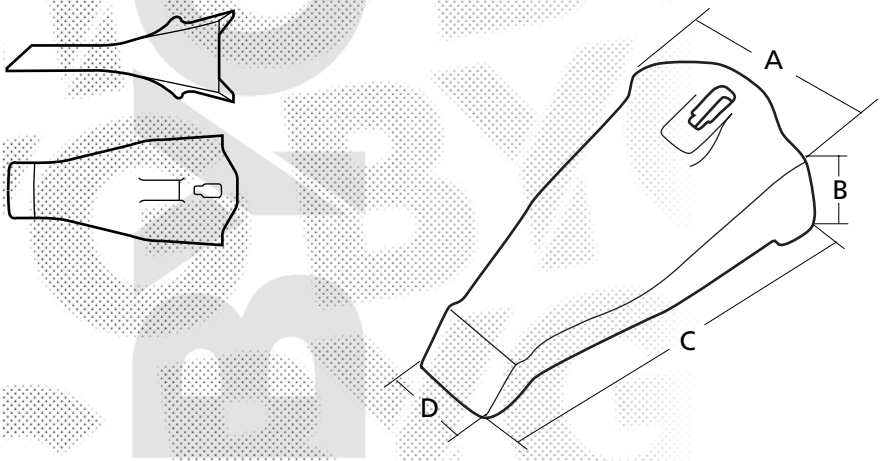
Esco Conical Teeth: R





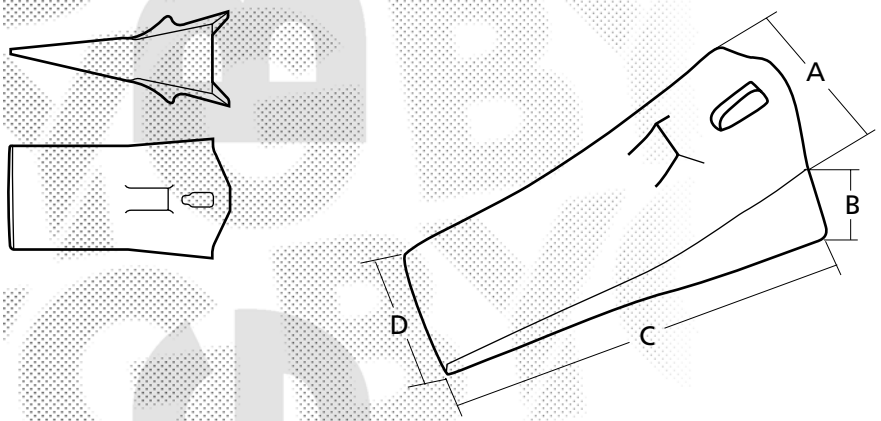
mm. A	B	C	D	KG lb							
82 *3,23"*	62 *2,44"*	165 *6,50"*	66 *2,60"*	3,00 *6,61*	*25-R*	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	3806-25	855-25	3829-25	**25**
94 *3,70"*	75 *2,95"*	150 *5,91"*	80 *3,15"*	2,90 *6,39*	**30-R**	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	3808-30 3807-30	855-30	3829-30	**30**
106 *4,17"*	94 *3,70"*	166 *6,54"*	94 *3,70"*	3,90 *8,60*	**35-R**	35-PN 35-PNR	35-40-LK 35-40-LKR	3808-35	3803-35	3829-35	**35**
130 *5,12"*	102 *4,02"*	197 *7,76"*	108 *4,25"*	5,60 *12,35*	*40-R*	40-PN 40-PNR	40-LK 40-LKR	3809-40	3803-40	3829-40	**40**
141 *5,55"*	116 *4,57"*	219 *8,62"*	121 *4,76"*	- -	*45-R*	45-PN 45-PNR	45-LK 45-LKR	3810-45	-	-	**45**
163 *6,42"*	125 *4,92"*	221 *8,70"*	133 *5,24"*	11,00 *24,25*	**50-R**	50-PN 50-PNR	50-LK 50-LKR	3811-50	-	-	**50**
137 *5,39"*	108 *4,25"*	257 *10,12"*	152 *5,98"*	12,90 *28,44*	**55-R**	55-PN 55-PNR	55-LK 55-LKR	3832-55	-	-	**55**

Esco Conical Teeth: RDX



mm. A	B	C	D								
76 *2,99"*	61 *2,40"*	215 *8,46"*	60 *2,36"*	- -	*30-RDX*	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	3808-30 3807-30	855-30	3829-30	**30**
102 *4,02"*	79 *3,11"*	241 *9,49"*	64 *2,52"*	6,80 *14,99*	**40-RDX**	40-PN 40-PNR	35-40-LK 35-40-LKR	3809-40	3803-40	3829-40	**40**
114 *4,49"*	89 *3,50"*	270 *10,63"*	71 *2,80"*	- -	*45-RDX*	45-PN 45-PNR	45-LK 45-LKR	3810-45	-	-	**45**
124 *4,88"*	97 *3,82"*	283 *11,14"*	76 *2,99"*	- -	*50-RDX*	50-PN 50-PNR	50-LK 50-LKR	3811-50	-	-	**50**
137 *5,39"*	108 *4,25"*	315 *12,40"*	86 *3,39"*	- -	*55-RDX*	55-PN 55-PNR	55-LK 55-LKR	3832-55	-	-	**55**

Esco Conical Teeth: T



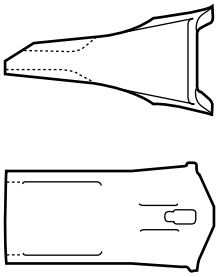
mm. A	B	C	D								
65 *2,56"*	61 *2,40"*	169 *6,65"*	64 *2,52"*	2,20 *4,85*	**25-T**	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	3806-25	855-25	3829-25	**25**
76 *2,99"*	61 *2,40"*	166 *6,54"*	80 *3,15"*	2,80 *6,17*	**30-T**	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	3808-30 3807-30	855-30	3829-30	**30**
89 *3,50"*	73 *2,87"*	184 *7,24"*	94 *3,70"*	4,15 *9,15*	**35-T**	35-PN 35-PNR	35-40-LK 35-40-LKR	3808-35	3803-35	3829-35	**35**
125 *4,92"*	98 *3,86"*	245 *9,65"*	100 *3,94"*	5,30 *11,68*	**40-T**	40-PN 40-PNR	35-40-LK 35-40-LKR	3809-40	-	-	**40**
- -	- -	- -	- -	- -	*45-T*	45-PN 45-PNR	45-LK 45-LKR	3810-45	-	-	**45**

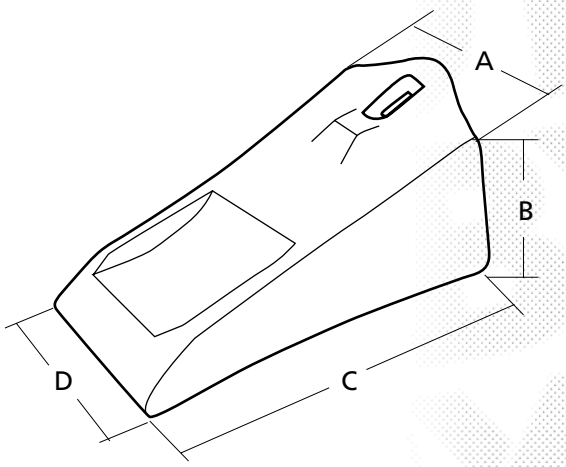
DRP

Esco

Mining

Esco Conical Teeth: HBP



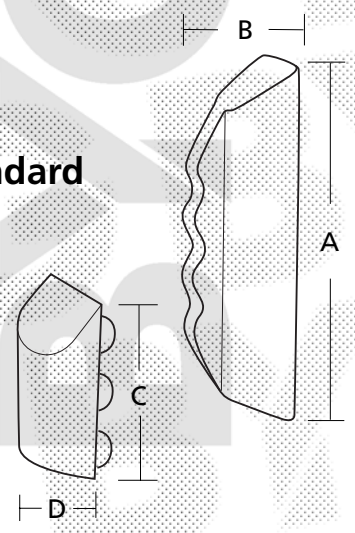


mm. A	B	C	D	KG lb					
219 *8,62"*	213 *8,39"*	386 *15,20"*	184 *7,24"*	37,70 *83,11*	**77-HBP**	77-PN	77-LK	469-77*	**77**

* Not available

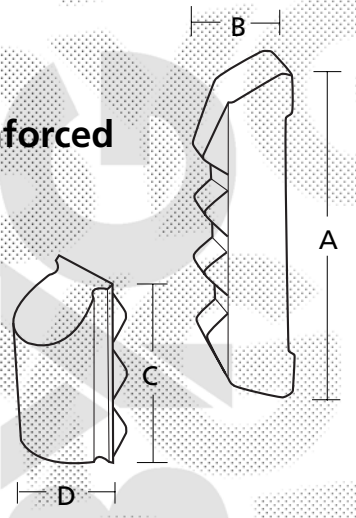
Lock & Rubber

Standard



mm. A	B	C	D			
52 *2,05"*	13 *0,51"*	35 *1,38"*	14,3 *0,56"*	**18-PN**	**18-LK**	**18**
73 *2,87"*	20 *0,79"*	38 *1,50"*	20,5 *0,81"*	**25-30-PN**	**25-30-LK**	**25-30**
83 *3,27"*	22,5 *0,89"*	48 *1,89"*	22,2 *0,87"*	**35-PN**	**35-40-LK**	**35**
92 *3,62"*	30 *1,18"*			**40-PN**		**40**
103 *4,06"*	34 *1,34"*	58 *2,28"*	23,5 *0,93"*	**45-PN**	**45-LK**	**45**
116 *4,57"*	37 *1,46"*	60 *2,36"*	28 *1,10"*	**50-PN**	**50-LK**	**50**
125 *4,92"*	40 *1,57"*	65 *2,56"*	30 *1,18"*	**55-PN**	**55-LK**	**55**
202 *7,95"*	57 *2,24"*	111 *4,37"*	44 *1,73"*	**77-PN**	**77-LK**	**77**

Reinforced



mm. A	B	C	D			
52 *2,05"*	13 *0,51"*	35 *1,38"*	14,3 *0,56"*	*18-PNR*	*18-LKR*	**18**
73 *2,87"*	20 *0,79"*	38 *1,50"*	20,5 *0,81"*	**25-30-PNR**	**25-30-LKR**	**25-30**
83 *3,27"*	22,5 *0,89"*	48 *1,89"*	22,2 *0,87"*	**35-PNR**	**35-40-LKR**	**35**
92 *3,62"*	30 *1,18"*			**40-PNR**		**40**
103 *4,06"*	34 *1,34"*	58 *2,28"*	23,5 *0,93"*	**45-PNR**	**45-LKR**	**45**
116 *4,57"*	37 *1,46"*	60 *2,36"*	28 *1,10"*	**50-PNR**	**50-LKR**	**50**
125 *4,92"*	40 *1,57"*	65 *2,56"*	30 *1,18"*	**55-PNR**	**55-LKR**	**55**
202 *7,95"*	57 *2,24"*	111 *4,37"*	44 *1,73"*	*77-PNR*	*77-LKR*	**77**

DRP

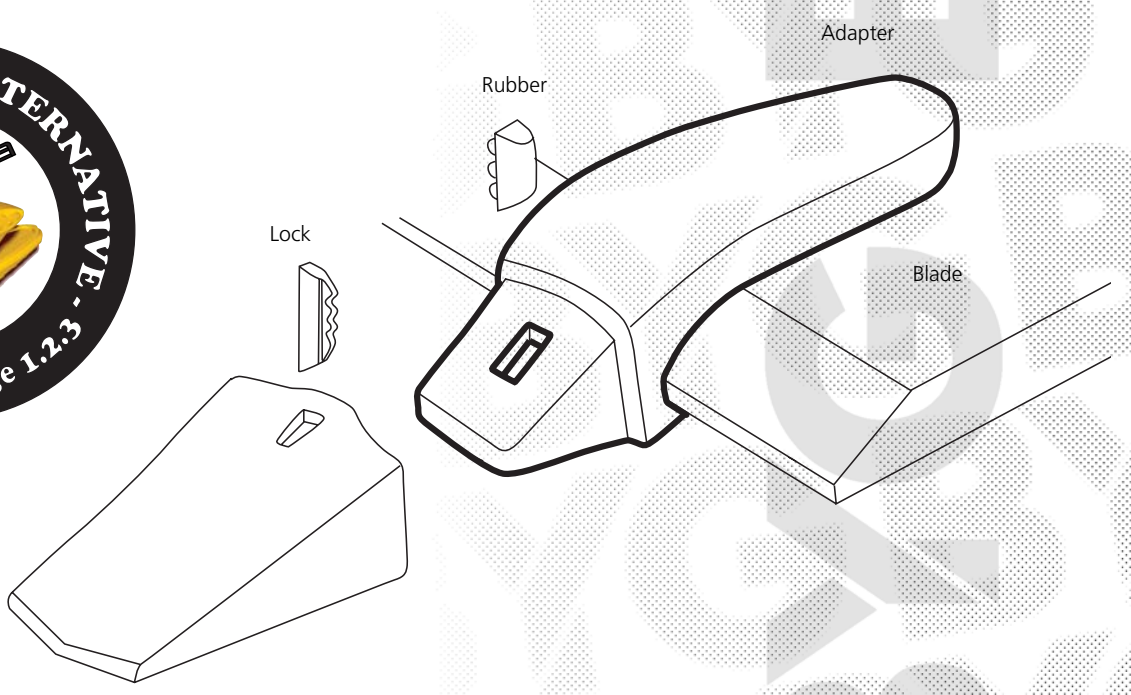
Esco

Conical System Adapters

Bold ref. number, product available

Other ref. number please consult.

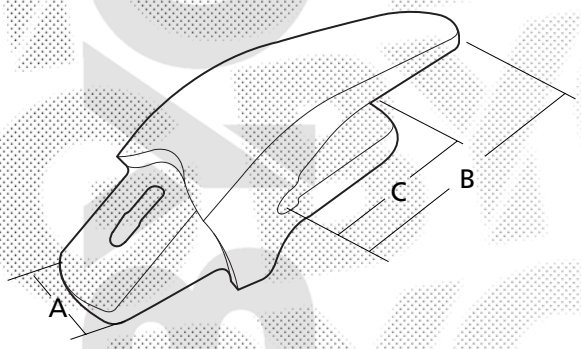
Futura Alternative



Power HP Wheels	Power HP Chain			Power HP	Strenght Sudden	Weight in Tons.	Bucket Capacity
50-190	50-160	25 mm	**25**	45-100	4-12	10-20	300-1000
170-280	130-250	30 mm	**30**	80-150	9-16	17-25	500-1400
250-350	230-300	35 mm	**35**	140-200	13-20	20-30	600-1600
320-500	275-400	40 mm	**40**	170-300	18-26	30-35	700-2000
400		45 mm	**45-50**	50-400	24-40	45-70	1000-3500

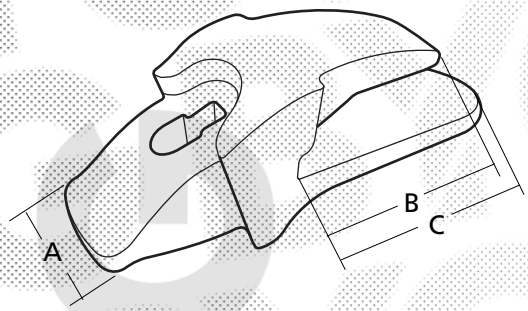
Two Strap	Two Strap	Botton Strap	Flush Mount	Side Corner Adapter	Weld-On Nose	
–	**18-800**	**833-18**	**3829-18**	-	**WN-18**	**18**
3806-25	-	**855-25**	*3840-25*	-	**WN-25**	**25**
3807-30 **3808-30**	-	**855-30**	*3829-30*	*R-30 L/R*	**WN-30**	**30**
3808-35	-	**3803-35**	*3840-35*	*R-35 L/R*	**WN-35**	**35**
3809-40	-	**3803-40**	**3829-40**	*R-40 L/R*	**WN-40**	**40**
3810-45	-	-	-	-	**WN-45**	**45**
3811-50	-	-	-	-	**WN-50**	**50**
3832-55	-	-	-	-	-	**55**
Pag. 4.10	Pag. 4.10	Pag. 4.11	Pag. 4.11	Pag. 4.12	Pag.4.13	

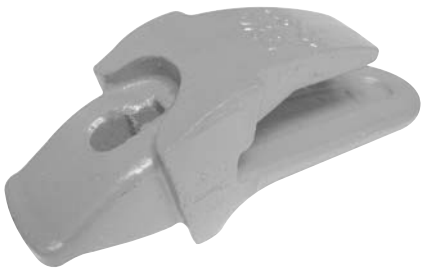
Esco Two Strap Adapter



mm. A	B	C	↓ ↑	KG lb										
51 *2,01"*	195 *7,68"*	125 *4,92"*	25 *0,98"*	6,10 *13,45*	**3806-25**	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	25-R	25-S	-	25-VIP	25-T	25-STD	**25**
62 *2,44"*	228 *8,98"*	151 *5,94"*	30 *1,18"*	7,90 *17,42*	**3807-30**	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	30-R	30-S	30-RDX	30-VIP	30-T	30-STD	**30**
			35 *1,38"*	7,70 *16,98*	**3808-30**									
75 *2,95"*	215 *8,46"*	68 *2,68"*	35 *1,38"*	11,20 *24,69*	**3808-35**	35-PN 35-PNR	35-40-LK 35-40-LKR	35-R	35-S	-	35-VIP	35-T	35-STD	**35**
85 *3,35"*	278 *10,94"*	181 *7,13"*	40 *1,57"*	14,75 *32,52*	**3809-40**	40-PN 40-PNR	35-40-LK 35-40-LKR	40-R	40-S	40-RDX	40-VIP	40-T	40-STD	**40**
92 *3,62"*	310 *12,20"*	198 *7,80"*	45 *1,77"*	23,00 *50,71*	**3810-45**	50-PN 50-PNR	50-LK 50-LKR	45-R	45-S	45-RDX	45 VIP	45-T	45 STD	**45**
101 *3,98"*	342 *13,46"*	220 *8,66"*	60 *2,36"*	28,40 *62,61*	**3811-50**	45-PN 45-PNR	45-LK 45-LKR	50-R	50-S	50-RDX	50-VIP	50-T	50-STD	**50**
110 *4,33"*	372 *14,65"*	240 *9,45"*	60 *2,36"*	40,70 *89,73*	*3832-55*	55-PN 55-PNR	55-LK 55-LKR	55-R	-	55-RDX	55-VIP	-	-	**55**

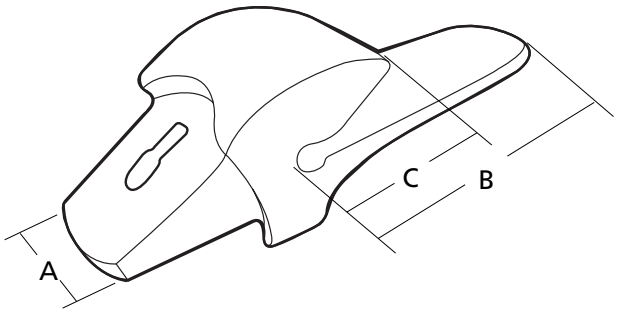
Esco Two Strap Adapter





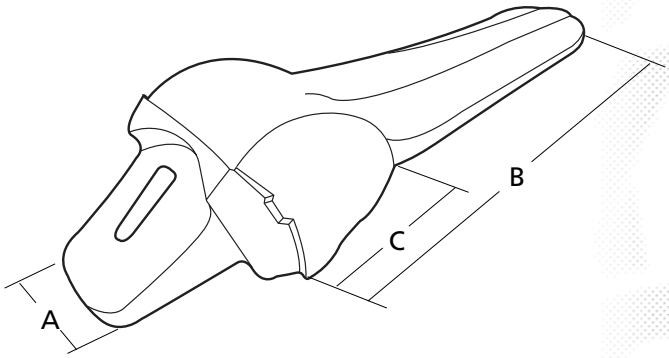
mm. A	B	C	↓ ↑	KG lb										
42 *1,65"*	70 *2,76"*	105 *4,13"*	20 *0,79"*	2,00 *4,41*	**18-800**	18-PN 18-PNR	18-LK 18-LKR	-	-	-	18-TL	18-VIP	-	**18**

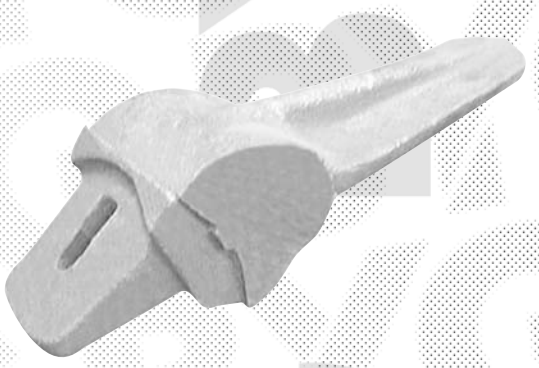
Esco Bottom Strap Adapter



mm. A	B	C		KG lb										
42 *1,65"*	97 *3,82"*	26 *1,02"*	20 *0,79"*	1,60 *3,53*	**833-18**	18-PN 18-PNR	18-LK 18-LKR	-	-	-	18-TL	18-VIP	-	**18**
51 *2,01"*	132 *5,20"*	46 *1,81"*	25 *0,98"*	3,13 *6,90*	**855-25**	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	25-R	25-S	-	25-T	25-VIP	25-STD	**25**
62 *2,44"*	134 *5,28"*	46 *1,81"*	30 *1,18"*	3,87 *8,53*	**855-30**	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	30-R	30-S	30-RDX	30-T	30-VIP	30-STD	**30**
75 *2,95"*	215 *8,46"*	68 *2,68"*	35 *1,38"*	7,94 *17,50*	**3803-35**	35-PN 35-PNR	35-40-LK 35-40-LKR	35-R	35-S	-	35-T	35-VIP	35-STD	**35**
85 *3,35"*	273 *10,75"*	93 *3,66"*	40 *1,57"*	11,00 *24,25*	**3803-40**	40-PN 40-PNR	35-40-LK 35-40-LKR	40-R	40-S	40-RDX	40-T	40-VIP	40-STD	**40**

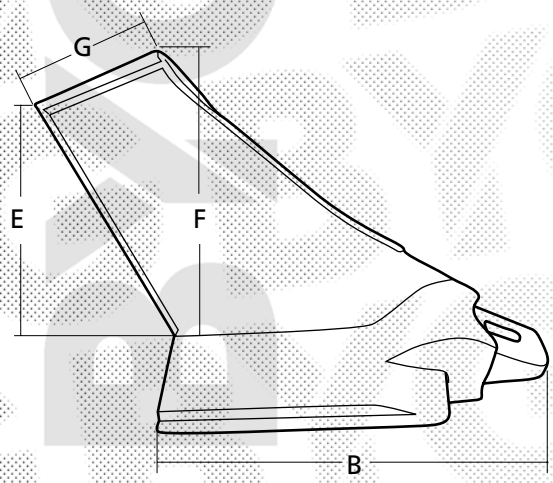
Esco Flush Mount Adapter





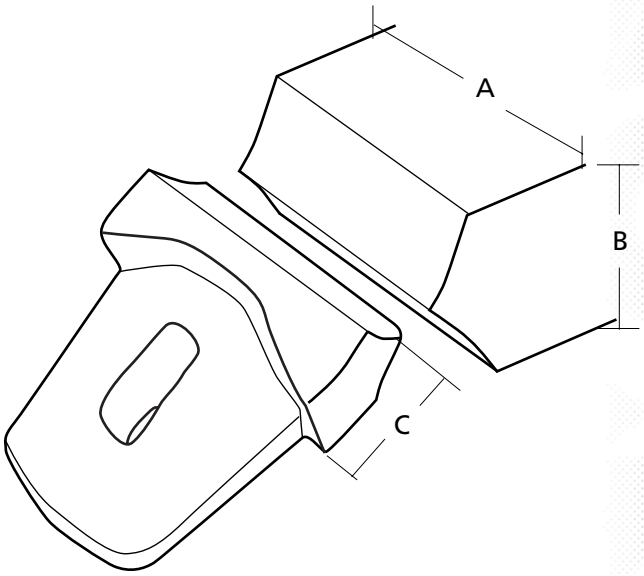
mm. A	B	C		KG lb										
43 *1,69"*	156 *6,14"*	26 *1,02"*	20 *0,79"*	2,60 *5,73*	**3829-18**	18-PN 18-PNR	18-LK 18-LKR	-	-	-	18-VIP	18-TL	-	**18**
51 *2,01"*	230 *9,06"*	50 *1,97"*	25 *0,98"*	5,2 *11,46*	*3840-25*	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	25-R	25-S	-	25-VIP	25-T	25-STD	**25**
62 *2,44"*	240 *9,45"*	60 *2,36"*	30 *1,18"*	6,8 *14,99*	*3829-30*	-	-	30-R	30-S	30-RDX	30-VIP	30-T	30-STD	**30**
75 *2,95"*	250 *9,84"*	74 *2,91"*	35 *1,38"*	- -	*3840-35*	35-PN 35-PNR	35-40-LK 35-40-LKR	35-R	35-S	-	35-VIP	35T	35-STD	**35**
85 *3,35"*	260 *10,24"*	88 *3,46"*	40 *1,57"*	13,00 *28,66*	**3829-40**	40-PN 40-PNR	35-40-LK 35-40-LKR	40-R	40-S	40-RDX	40-VIP	40-T	40-STD	**40**

Side Corner Adapter



mm. B	E	F	G												
300 *11,81"*	292 *11,50"*	332 *13,07"*	135 *5,31"*	30 *1,18"*	- -	*R-30 L/R*	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	30-R	30-S	30-RDX	30-VIP	30-T	30-STD	**30**
				35 *1,38"*	- -	*R-35 L/R*	35-PN 40-PNR	35-40-LK 35-40-LKR	35-R	35-S	-	35-VIP	35-T	35-STD	**35**
350 *13,78"*	330 *12,99"*	379 *14,92"*	166 *6,54"*	40 *1,57"*	- -	*R-40 L/R*	40-PN 40-PNR	35-40-LK 35-40-LKR	40-R	40-S	40-RDX	40-VIP	40-T	40-STD	**40**

Esco Conical Weld-On Nose



Weld-On Nose

In order to prepare an adapter in case of an emergency or to

reduce the size of the tooth without the need of changing the adpater we will use the nose. The determination of the nose depends on the power of the machine and, of course, on the working conditions.

• Prepare de base so that it will allow the connection of the new nose without losing the alignment with the other teeth. The base must have a similar size and shape as the nose that is to be welded on its surface. We will therefore create a bevel on the adapter following a symmetrical profile on the nose.

• Preheat between 150º and 200º, then weld strings on the bevels of the adapters.

• Weld a string on the "bristles" of the nose with a basic electrode

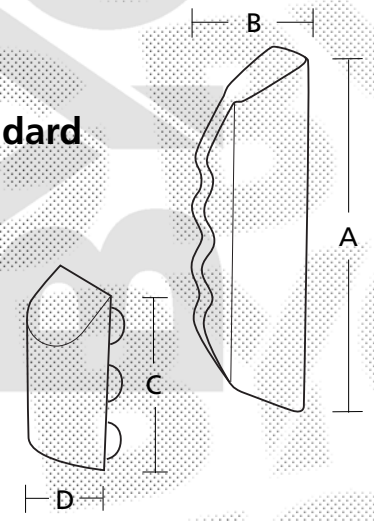
• Place the nose in front of the adapter and leave a space of approx. 3mm.

• Weld the strings paralel to the "bristles" and every two or three welding passes turn the piece until it has been "filled". Once the welding process has been completed smooth down/grindstone the contours.

mm.					
A	B	C	KG LB		
55 *2,17"*	40 *1,57"*	25 *0,98"*	1,20 *2,65*	**WN-18**	**18**
73 *2,87"*	78 *3,07"*	42 *1,65"*	2,30 *5,07*	**WN-25**	**25**
86 *3,39"*	78 *3,07"*	45 *1,77"*	2,70 *5,95*	**WN-30**	**30**
102 *4,02"*	92 *3,62"*	55 *2,17"*	4,20 *9,26*	**WN-35**	**35**
114 *4,49"*	102 *4,02"*	60 *2,36"*	6,00 *13,23*	**WN-40**	**40**
127 *5,00"*	115 *4,53"*	70 *2,76"*	9,50 *20,94*	**WN-45**	**45**
140 *5,51"*	126 *4,96"*	70 *2,76"*	10,10 *22,27*	**WN-50**	**50**

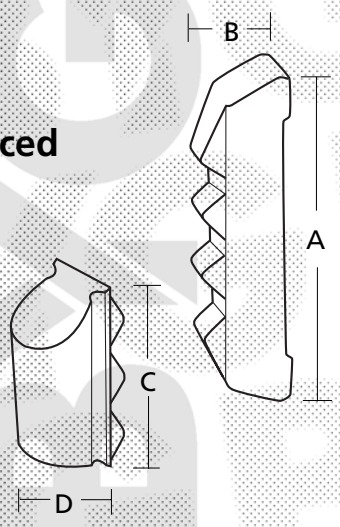
Lock & Rubber

Standard



mm. A	B	C	D			
52 *2,05"*	13 *0,51"*	35 *1,38"*	14,3 *0,56"*	**18-PN**	**18-LK**	**18**
73 *2,87"*	20 *0,79"*	38 *1,50"*	20,5 *0,81"*	**25-30-PN**	**25-30-LK**	**25-30**
83 *3,27"*	22,5 *0,89"*	48 *1,89"*	22,2 *0,87"*	**35-PN**	**35-40-LK**	**35**
92 *3,62"*	30 *1,18"*			**40-PN**		**40**
103 *4,06"*	34 *1,34"*	58 *2,28"*	23,5 *0,93"*	**45-PN**	**45-LK**	**45**
116 *4,57"*	37 *1,46"*	60 *2,36"*	28 *1,10"*	**50-PN**	**50-LK**	**50**
125 *4,92"*	40 *1,57"*	65 *2,56"*	30 *1,18"*	**55-PN**	**55-LK**	**55**
202 *7,95"*	57 *2,24"*	111 *4,37"*	44 *1,73"*	**77-PN**	**77-LK**	**77**

Reinforced



mm. A	B	C	D			
52 *2,05"*	13 *0,51"*	35 *1,38"*	14,3 *0,56"*	*18-PNR*	*18-LKR*	**18**
73 *2,87"*	20 *0,79"*	38 *1,50"*	20,5 *0,81"*	**25-30-PNR**	**25-30-LKR**	**25-30**
83 *3,27"*	22,5 *0,89"*	48 *1,89"*	22,2 *0,87"*	**35-PNR**	**35-40-LKR**	**35**
92 *3,62"*	30 *1,18"*			**40-PNR**		**40**
103 *4,06"*	34 *1,34"*	58 *2,28"*	23,5 *0,93"*	**45-PNR**	**45-LKR**	**45**
116 *4,57"*	37 *1,46"*	60 *2,36"*	28 *1,10"*	**50-PNR**	**50-LKR**	**50**
125 *4,92"*	40 *1,57"*	65 *2,56"*	30 *1,18"*	**55-PNR**	**55-LKR**	**55**
202 *7,95"*	57 *2,24"*	111 *4,37"*	44 *1,73"*	*77-PNR*	*77-LKR*	**77**

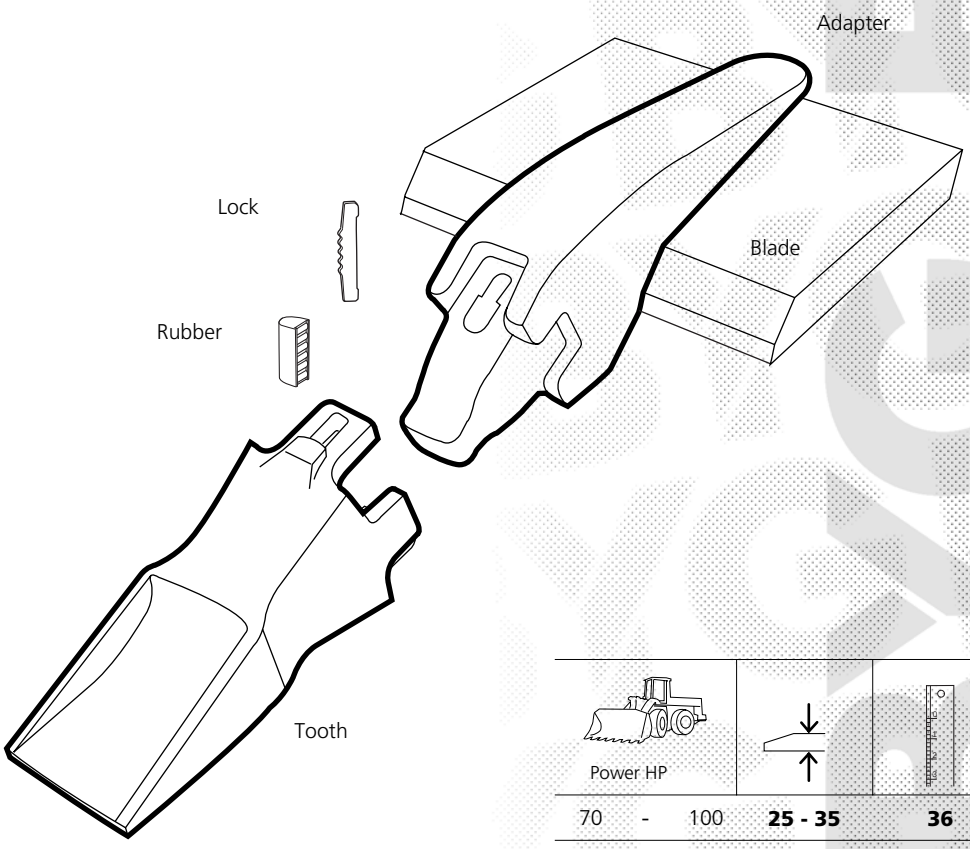
DRP

Esco

Superconical System Teeth

Bold ref. number, product available

Other ref. number please consult.



Power HP					Power HP		
70	-	100	**25 - 35**	**36**	60	-	150
101	-	250	**45**	**46**	120	-	200
200	-	350	**60**	**56**	150	-	300
300	-	500	**60 - 90**	**66**	300	-	500
395	-	600	**70 - 90**	**76**	420	-	620
600	-	900	**100 - 125**	**86**	595	-	900

FP	LP	R	RDX	VIP	SD	FP, PS	
36-FP	-	-	-	*36-VIP*	-	-	**36**
46-FP	-	-	-	*46-VIP*	-	-	**46**
56-FP	-	-	*56-RDX*	*56-VIP*	-	-	**56**
66-FP	**66-LP**	**66-R**	**66-RDX**	*66-VIP*	-	-	**66**
76-FP	**76-LP**	**76-R**	**76-RDX**	*76-VIP*	-	-	**76**
86-FP	**86-LP**	-	*86-RDX*	**86-VIP**	**86-SD**	**86-FP PS**	**86**
Pag. 4.17	Pag. 4.17	Pag. 4.18	Pag. 4.18	Pag. 4.19	Pag. 4.19	Pag. 4.17	

Teeth

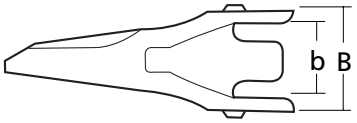
What you need to Know

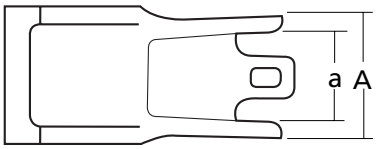
How to Identify a Superconical Tooth

In order to determine the size of a Superconical tooth whose reference has disappeared due to wear or any other reason we will take the internal dimensions A and B as reference. However, these measurements may have been affected by the wear. Therefore we will take as reference the internal dimensions a and b or the reference number or dimensions of the corresponding rubbers and pins.

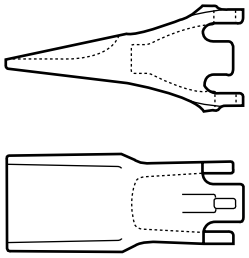
The table below will help to determine the size of any superconical tooth.

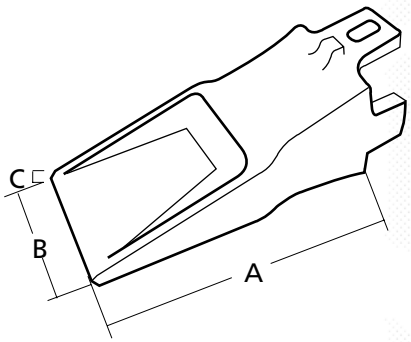
mm.				
A	a	B	b	
77 *3,03"*	59 *2,32"*	78 *3,07"*	58 *2,28"*	**36**
103 *4,06"*	71 *2,80"*	112 *4,41"*	82 *3,23"*	**46**
121 *4,76"*	89 *3,50"*	145 *5,71"*	107 *4,21"*	**56**
142 *5,59"*	106 *4,17"*	161 *6,34"*	118 *4,65"*	**66**
164 *6,46"*	123 *4,84"*	176 *6,93"*	135 *5,31"*	**76**
213 *8,39"*	145 *5,71"*	231 *9,09"*	168 *6,61"*	**86**

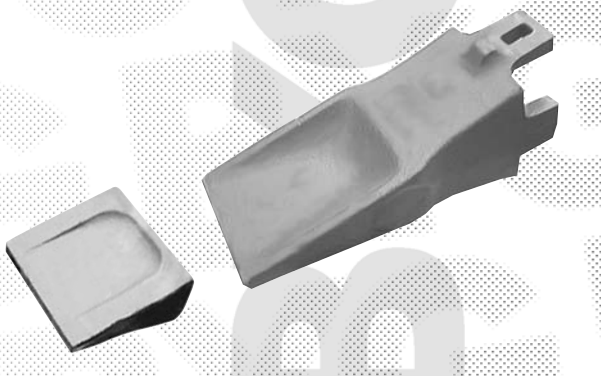




Superconical Teeth: FP

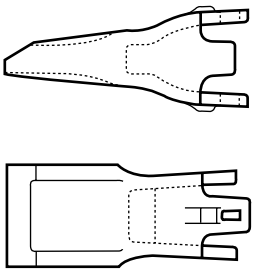


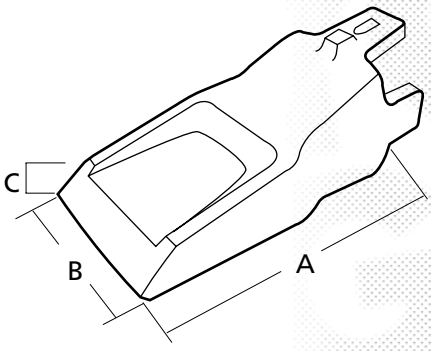




mm. A	B	C	KG lb							
- -	- -	- -	- -	*36-FP*	**-**	3854-36	-	36-LK	36-PN	**36**
- -	- -	- -	- -	*46-FP*	**-**	3816-46	-	46-LK	46-PN	**46**
355 *13,98"*	140 *5,51"*	15 *0,59"*	15,00 *33,07*	**56-FP**	**-**	3811-56	-	56-LK	56-PN	**56**
413 *16,26"*	168 *6,61"*	14 *0,55"*	24,28 *53,53*	**66-FP**	**-**	3858-66	-	66-LK	66-PN	**66**
444 *17,48"*	187 *7,36"*	17 *0,67"*	32,10 *70,77*	**76-FP**	**-**	2878-76	-	76-LK	76-PN	**76**
550 *21,65"*	206 *8,11"*	62 *2,44"*	61,20 *134,92*	**86-FP**	**86-FP PS**	3837-86	3863-86	86-LK	86-PN	**86**

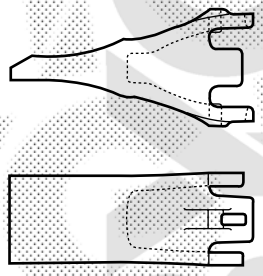
Superconical Teeth: LP

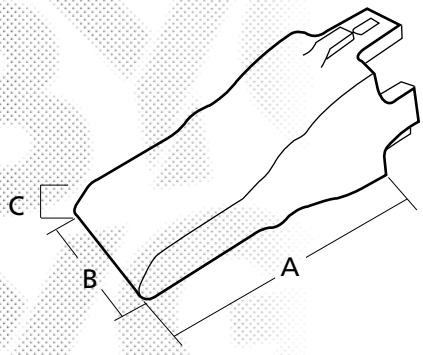




mm. A	B	C	KG lb						
400 *15,75"*	168 *6,61"*	46 *1,81"*	26,80 *59,08*	**66-LP**	3858-66		66-LK	66-PN	**66**
430 *16,93"*	187 *7,36"*	54 *2,13"*	36,46 *80,38*	**76-LP**	2878-76		76-LK	76-PN	**76**
550 *21,65"*	206 *8,11"*	62 *2,44"*	67,00 *147,71*	**86-LP**	3837-86	3863-86	86-LK	86-PN	**86**

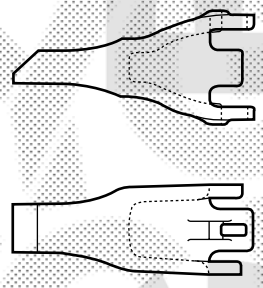
Superconical Teeth: R

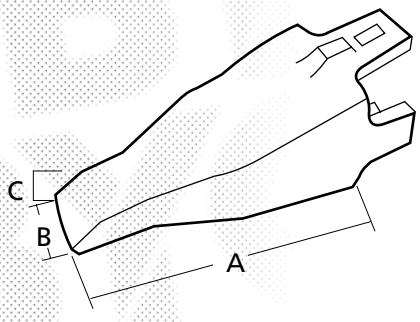




mm. A	B	C	KG lb					
368 *14,49"*	146 *5,75"*	46 *1,81"*	23,40 *51,59*	**66-R**	3858-66	66-LK	66-PN	**66**
395 *15,55"*	173 *6,81"*	65 *2,56"*	25,50 *56,22*	**76-R**	2878-76	76-LK	76-PN	**76**

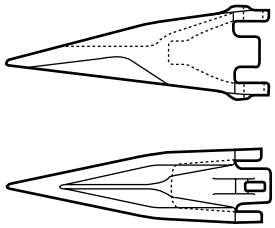
Superconical Teeth: RDX

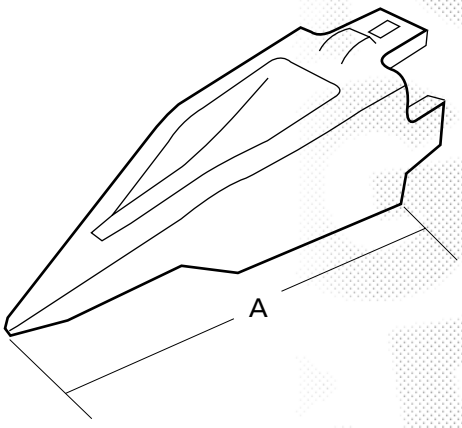




mm. A	B	C	KG lb						
- -	- -	- -	- -	*56-RDX*	3811-56	-	56-LK	56-PN	**56**
368 *14,49"*	75 *2,95"*	54 *2,13"*	18,85 *41,56*	**66-RDX**	3858-66	-	66-LK	66-PN	**66**
395 *15,55"*	82 *3,23"*	60 *2,36"*	27,70 *61,07*	**76-RDX**	2878-76	-	76-LK	76-PN	**76**
- -	- -	- -	- -	*86-RDX*	3837-86	3863-86	86-LK	86-PN	**86**

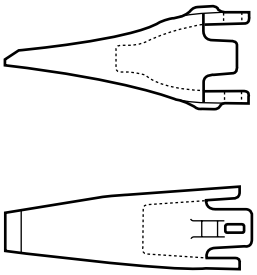
Superconical Teeth: VIP

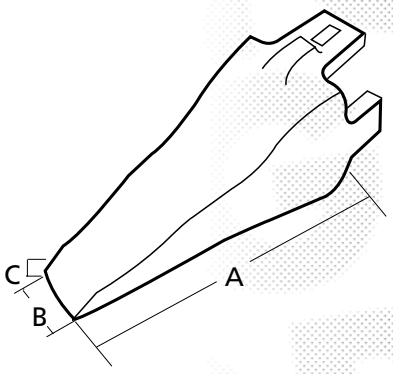


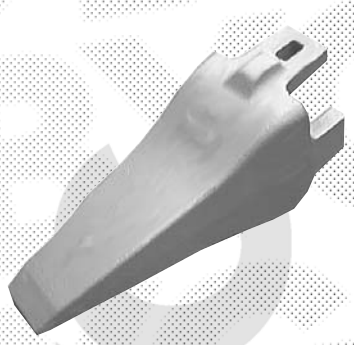


mm. A	KG lb						
- -	- -	*36-VIP*	3854-36	-	36-LK	36-PN	**36**
- -	- -	*46-VIP*	3816-46	-	46-LK	46-PN	**46**
- -	- -	*56-VIP*	3811-56	-	56-LK	56-PN	**56**
- -	- -	*66-VIP*	3858-66	-	66-LK	66-PN	**66**
- -	- -	*76-VIP*	2878-76	-	76-LK	76-PN	**76**
635 *25,00"*	71,20 *156,97*	**86-VIP**	3837-86	3863-86	86-LK	86-PN	**86**

Superconical Teeth: SD







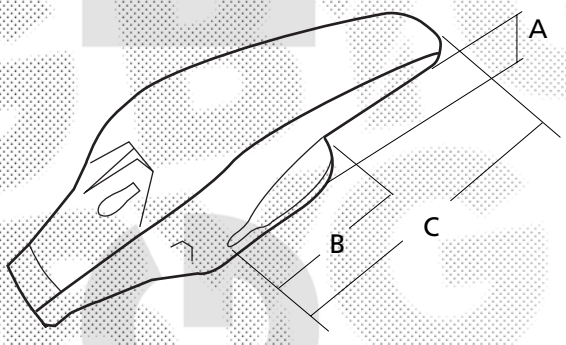
A	mm. B	C	KG lb						
200 *7,87"*	100 *3,94"*	30 *1,18"*	57,00 *125,66*	**86-SD**	3837-86	3863-86	86-LK	86-PN	**86**

DRP

Esco

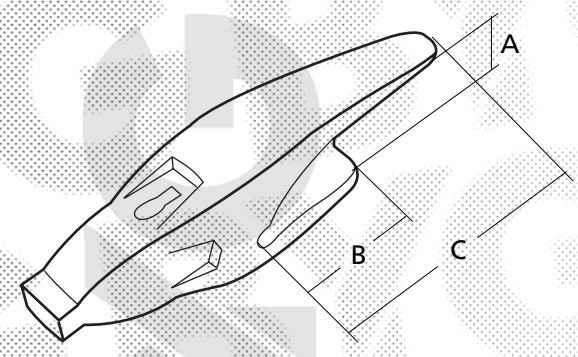
Superconical System Adapters

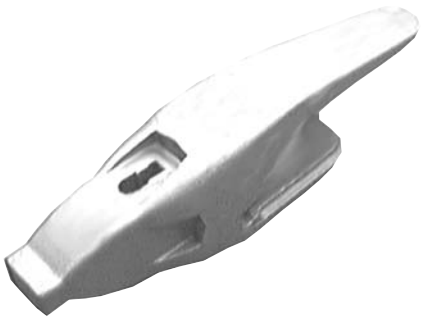
Superconical Adapter



mm. A	B	C		KG lb				
27 *1,06"*	46 *1,81"*	156 *6,14"*	25 *0,98"*	9,50 *20,94*	*3854-36*	36-LK	36-PN	**36**
47 *1,85"*	142 *5,59"*	295 *11,61"*	45 *1,77"*	16,5 *36,38*	*3816-46*	46-LK	46-PN	**46**
62 *2,44"*	200 *7,87"*	385 *15,16"*	60 *2,36"*	35 *77,16*	*3811-56*	56-LK	56-PN	**56**
77 *3,03"*	173 *6,81"*	343 *13,50"*	75 *2,95"*	47 *103,62*	*3858-66*	66-LK	66-PN	**66**
92 *3,62"*	226 *8,90"*	405 *15,94"*	90 *3,54"*	72,00 *158,73*	**2878-76**	76-LK	76-PN	**76**
123 *4,84"*	330 *12,99"*	554 *21,81"*	120 *4,72"*	130 *286,60*	*3837-86*	86-LK	86-PN	**86**

Superconical Adapter





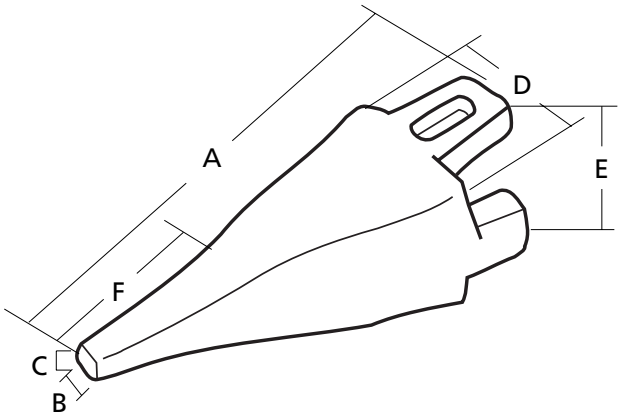
mm. A	B	C		KG lb				
123 *4,84"*	330 *12,99"*	554 *21,81"*	120 *4,72"*	129,00 *284,39*	**3863-86**	86-LK	86-PN	**86**

DRP

Esco

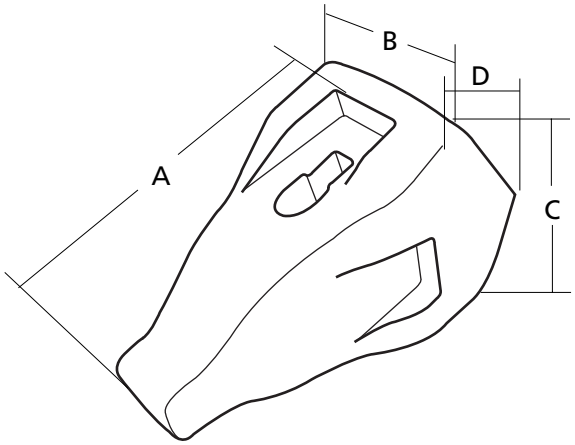
Dragline

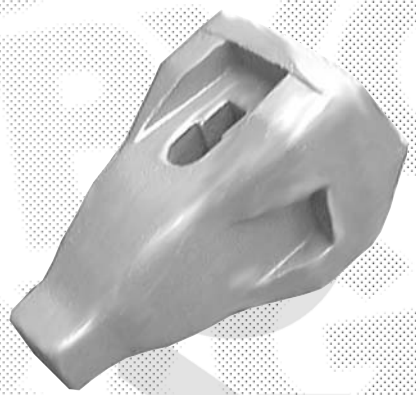
Esco Dragline Pick Teeth



mm. A	B	C	D	E	F	KG lb				
355 *13,98"*	10 *0,39"*	10 *0,39"*	115 *4,53"*	145 *5,71"*	185 *7,28"*	8,30 *18,30*	**44-D14**	44-DLK	44-DPN	WN-44D
405 *15,94"*	15 *0,59"*	15 *0,59"*	135 *5,31"*	175 *6,89"*	180 *7,09"*	16,80 *37,04*	**54-D16**	54-DLK	54-DPN	WN-54D

Esco Weld-On Nose





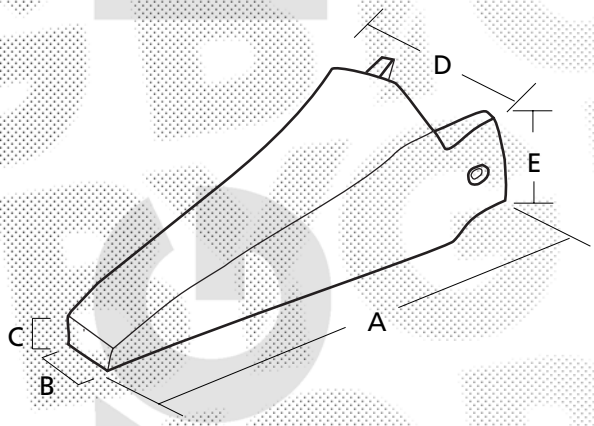
mm. A	B	C	D	KG lb				
171,5 *6,75"*	115 *4,53"*	145 *5,71"*	50 *1,97"*	11,30 *24,91*	**WN-44 D**	44-DLK	44-DPN	44-D14
213,5 *8,41"*	145 *5,71"*	180 *7,09"*	55 *2,17"*	23,80 *52,47*	**WN-54 D**	54-DLK	54-DPN	54-D16

DRP

Esco

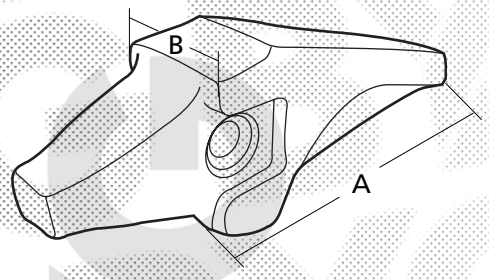
Drilling Teeth and Adapters

Esco Drilling Teeth



mm. A	B	C	D	E	KG lb				
263 *10,35"*	52 *2,05"*	10 *0,39"*	90 *3,54"*	21 *0,83"*	4,50 *9,92*	**25-RC10**	25-RC-PN	25-RC-LKSR	3861-25RC
313 *12,32"*	50 *1,97"*	10 *0,39"*	90 *3,54"*	21 *0,83"*	5,80 *12,79*	**25-RC12**			

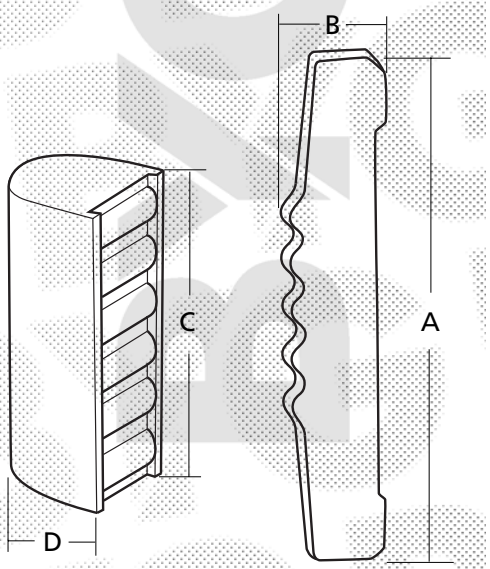
Esco Drilling Adapter



mm. A	B	KG lb				
280 *11,02"*	89 *3,50"*	14,40 *31,75*	**3861-25RC**	25-RC-PN	25-RC-LKSR	25-RC10 / 25-RC12

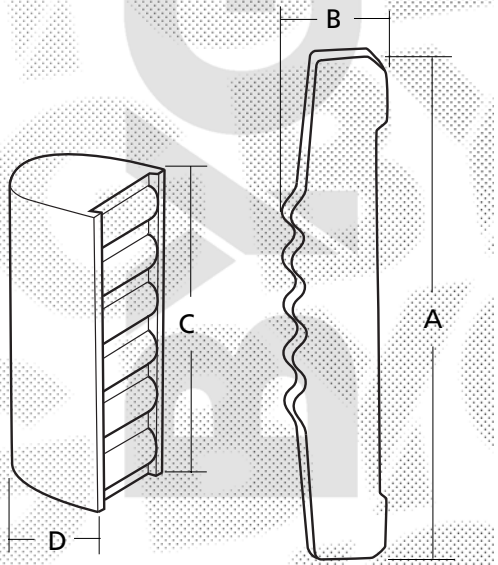
Superconical Lock & Rubber

mm. A	B	C	D			
90 *3,54"*	20 *0,79"*	54 *2,13"*	16 *0,63"*	*36-LK*	*36-PN*	**36**
117 *4,61"*	23 *0,91"*	76 *2,99"*	24 *0,94"*	*46-LK*	*46-PN*	**46**
152 *5,98"*	30 *1,18"*	95 *3,74"*	30 *1,18"*	**56-LK**	**56-PN**	**56**
165 *6,50"*	30 *1,18"*	112,5 *4,43"*	30 *1,18"*	**66-LK**	**66-PN**	**66**
182 *7,17"*	32 *1,26"*	124 *4,88"*	23 *0,91"*	**76-LK**	**76-PN**	**76**
234 *9,21"*	40,6 *1,60"*	161 *6,34"*	31,5 *1,24"*	**86-LK**	**86-PN**	**86**

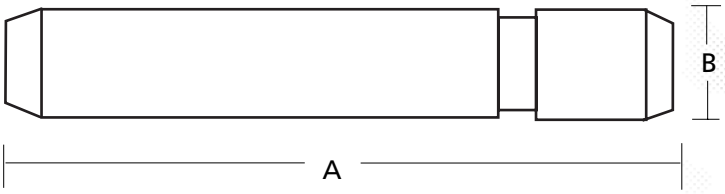


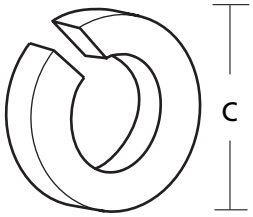
Dragline Lock & Rubber

mm. A	B	C	D			
83 *3,27"*	23 *0,91"*	48 *1,89"*	23 *0,91"*	**44-DLK**	**44-DPN**	**44**
182 *7,17"*	32 *1,26"*	124 *4,88"*	23 *0,91"*	**54-DLK**	**54-DPN**	**54**



Pin & Washers





mm. A	B	C		
95 *3,74"*	19 *0,75"*	38 *1,50"*	**25RC-PN**	**25RC-LKSR**

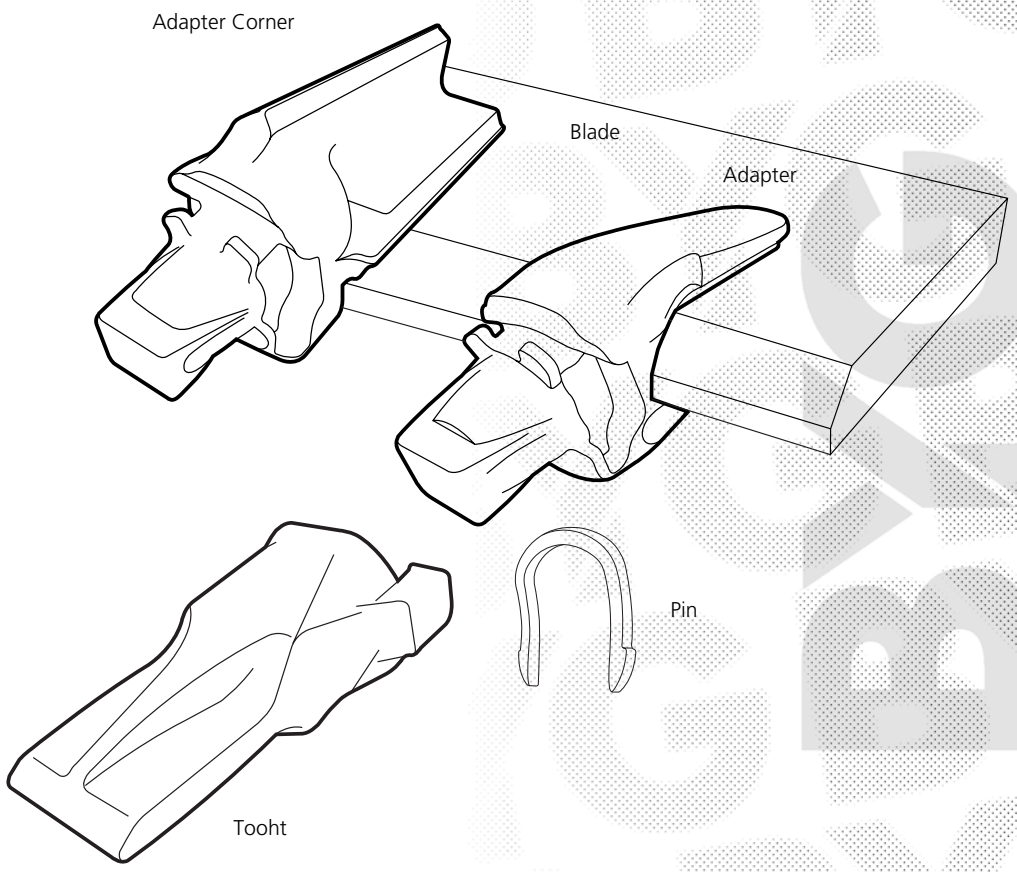
DRP

Esco

Bold ref. number, product available

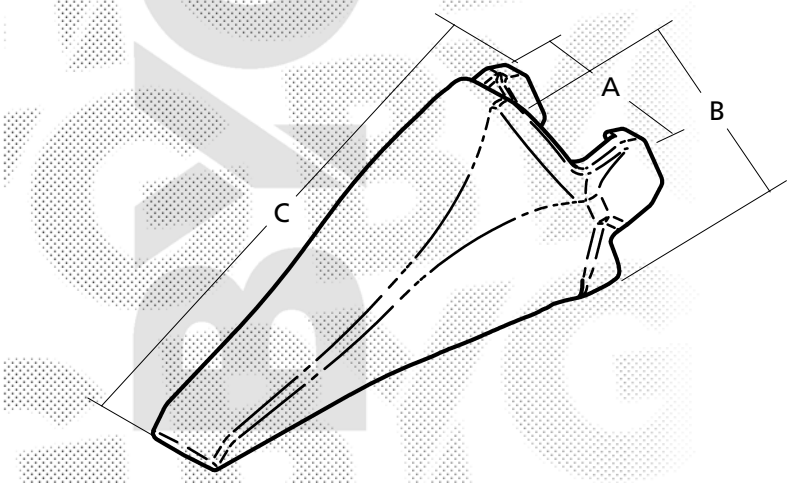
Other ref. number please consult.

Helilok System Teeth & Vertalok



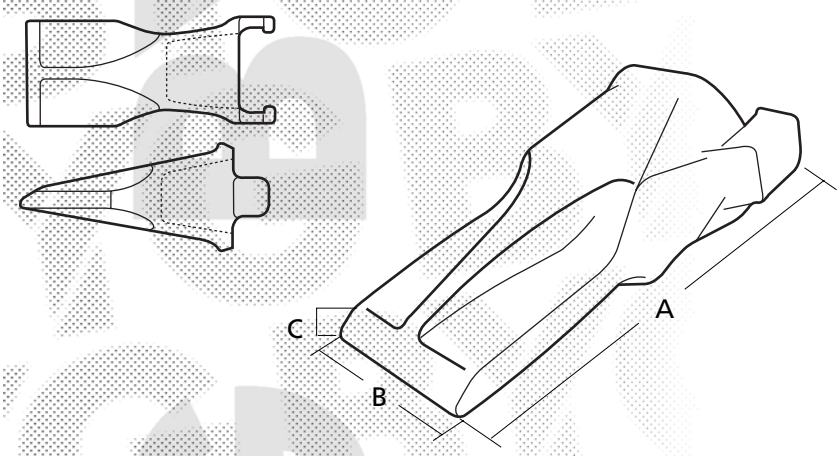
SD	SYL	ARLB	VIP	Adapter	Adapter Corner Right	Adapter Corner Left	
–	**21-SYL**	–	*21-VIP*	–	–	–	**21**
–	**27-SYL**	–	**27-VIP**	–	–	–	**27**
37-SD	**37-SYL**	–	**37-VIP**	–	–	–	**37**
–	**47-SYL**	**47-ARLB**	**47-VIP**	**3810-47**	**R-47R**	**R-47L**	**47**
–	**57-SYL**	**57-ARLB**	*57-VIP*	–	–	–	**57**
Pag. 4.26	Pag. 4.26	Pag. 4.27	Pag. 4.27	Pag. 4.28	Pag. 4.28	Pag. 4.29	

SD Teeth



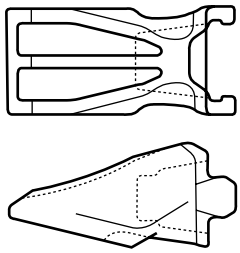
mm. A	B	C	KG lb				Right	Left	
124 *4,88"*	122 *4,80"*	293 *11,54"*	17,60 *38,80*	**37-SD**	37-LK	-	-	-	**37**

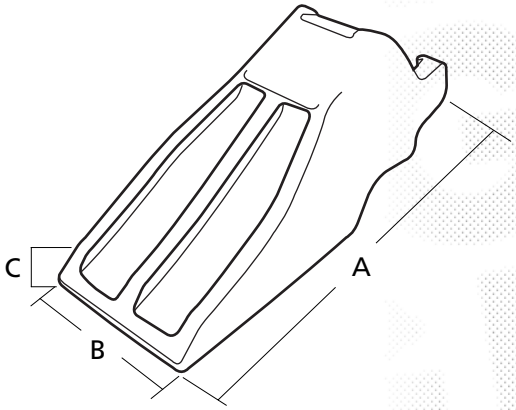
SYL Teeth



mm. A	B	C	KG lb				Right	Left	
191 *7,52"*	76 *2,99"*	13 *0,51"*	3,30 *7,28*	**21-SYL**	21-LK	-	-	-	**21**
203 *7,99"*	89 *3,50"*	16 *0,63"*	4,70 *10,36*	**27-SYL**	27-LK	-	-	-	**27**
241 *9,49"*	121 *4,76"*	18 *0,71"*	8,00 *17,64*	**37-SYL**	37-LK	-	-	-	**37**
279 *10,98"*	127 *5,00"*	25 *0,98"*	12,10 *26,68*	**47-SYL**	47-LK	3810-47	R-47R	R-47L	**47**
330 *12,99"*	152 *5,98"*	32 *1,26"*	24,05 *53,02*	**57-SYL**	57-LK	-	-	-	**57**

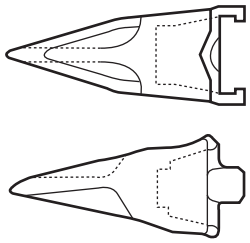
ARLB Teeth

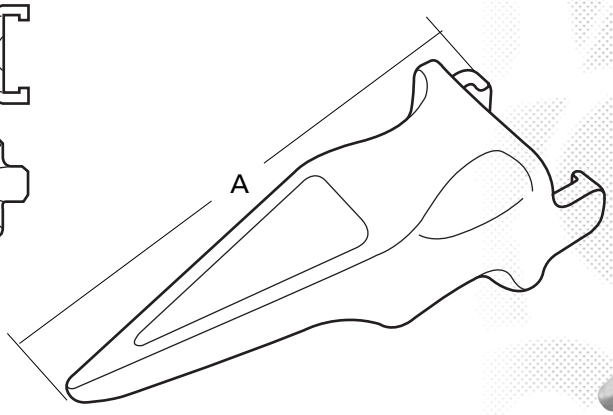




mm. A	B	C	KG lb				Right	Left	
298 *11,73"*	133 *5,24"*	28 *1,10"*	20,80 *45,86*	**47-ARLB**	47-LK	3810-47	R-47R	R-47L	**47**
311 *12,24"*	159 *6,26"*	18 *0,71"*	28,10 *61,95*	**57-ARLB**	57-LK	-	-	-	**57**

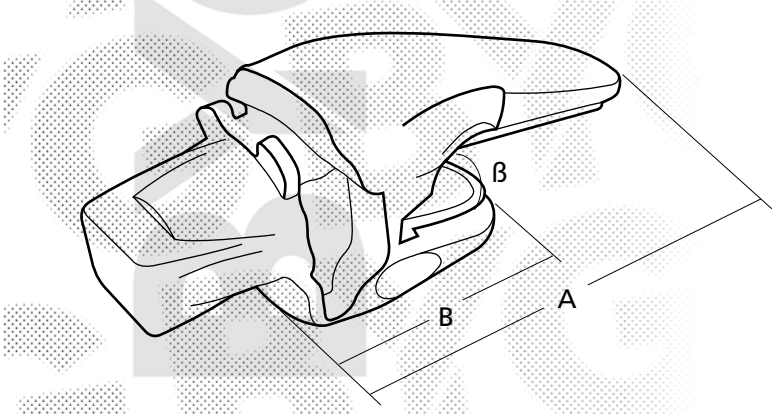
VIP Teeth





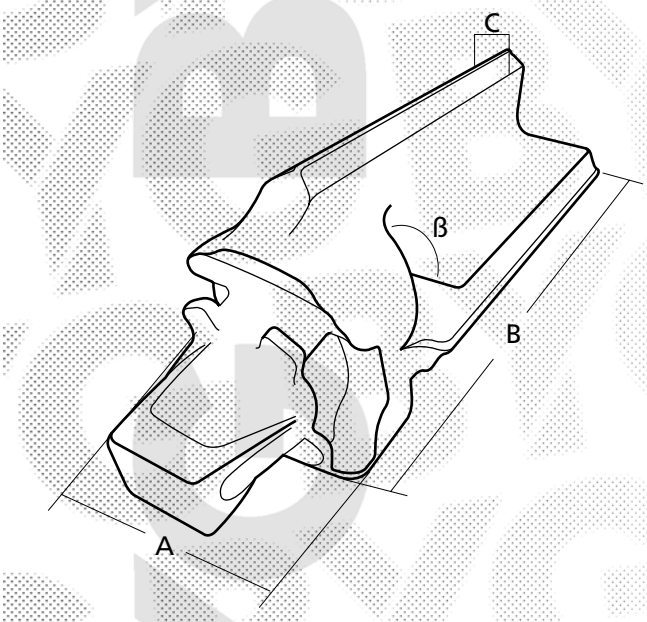
mm. A	B	C	KG lb				Right	Left	
207 *8,15"*	- -	- -	- -	*21-VIP*	21-LK	-	-	-	**21**
235 *9,25"*	- -	- -	3,80 *8,38*	**27-VIP**	27-LK	-	-	-	**27**
290 *11,42"*	- -	- -	6,30 *13,89*	**37-VIP**	37-LK	-	-	-	**37**
324 *12,76"*	- -	- -	10,00 *22,05*	**47-VIP**	47-LK	3810-47	R-47R	R-47L	**47**
384 *15,12"*	- -	- -	- -	*57-VIP*	57-LK	-	-	-	**57**

Helilok Adapter



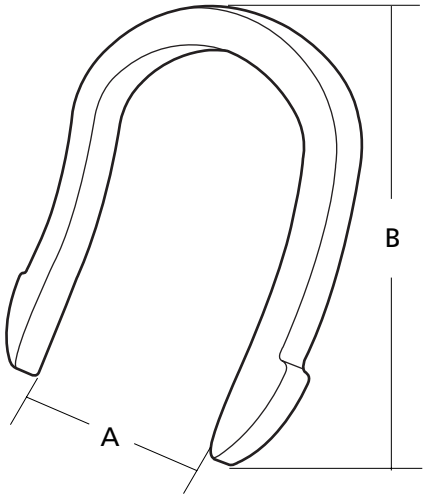
mm. A	B	ß				Right	Left		
260 *10,24"*	140 *5,51"*	30 °	45 *1,77"*	24,82 *54,72*	**3810-47**	R-47R	R-47L	47-LK	**47**

Helilok Adapter Corner



mm. A	B	C	ß			Right	Left			
160 *6,30"*	370 *14,57"*	40 *1,57"*	30 °	45 *1,77"*	44,60 *98,32*	**R-47R**	**R-47L**	3810-47	47-LK	**47**

Helilok Pin

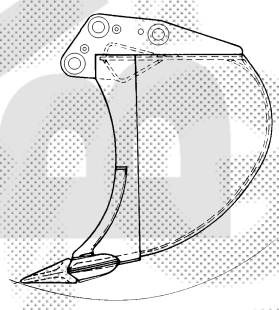


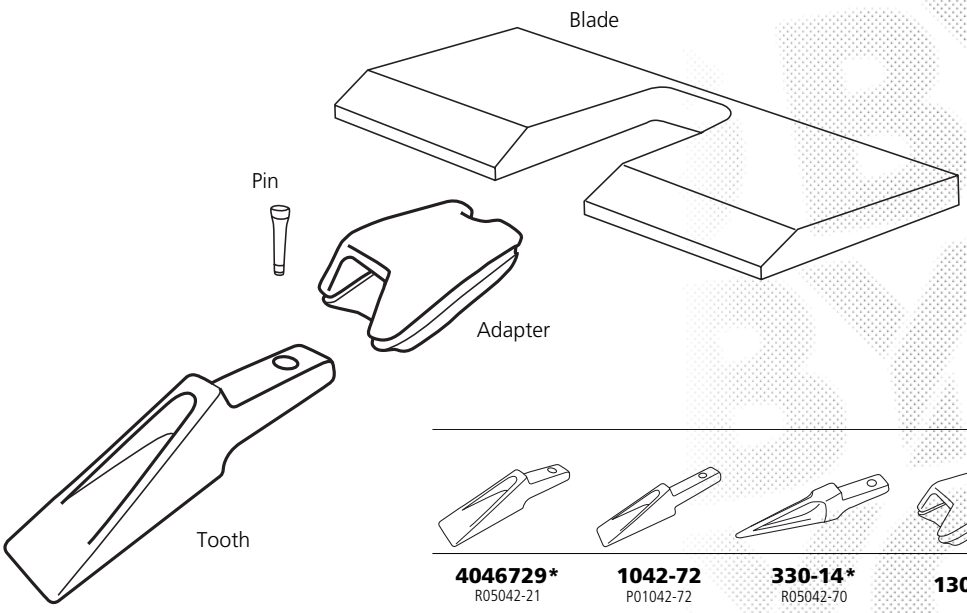
mm. A	B		
50 *1,97"*	78 *3,07"*	**21-LK**	**21**
58 *2,28"*	87 *3,43"*	**27-LK**	**27**
71 *2,80"*	108 *4,25"*	**37-LK**	**37**
85 *3,35"*	120 *4,72"*	**47-LK**	**47**
100 *3,94"*	132 *5,20"*	**57-LK**	**57**

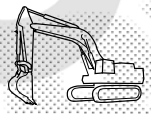
Poclain DRP

Bold ref. number, product available
Other ref. number please consult.

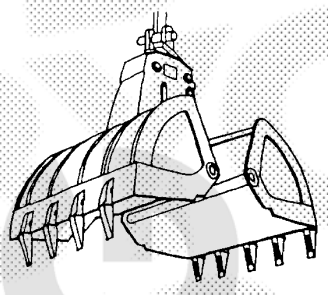
Teeth for Poclain Excavator

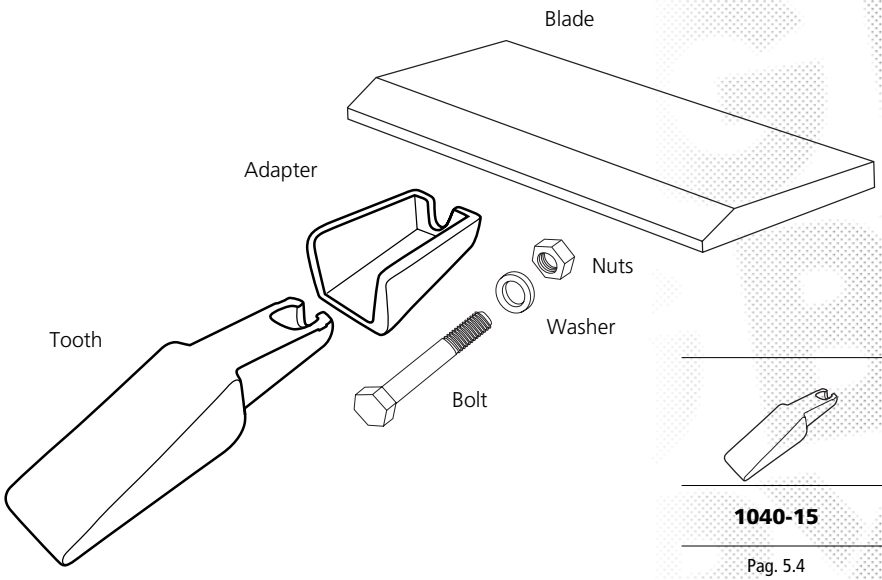


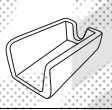
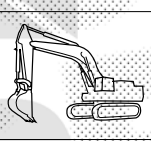


				
4046729* R05042-21	**1042-72** P01042-72	**330-14*** R05042-70	**130-02**	TCS, TYS, LY2P, 60, 75, 80, 90
4038207 W0042-98	-	*4046746E* R03042-30	**3031112**	90, 100, 115, 120, 160, 200
1042-74 R01042-74	-	*1042-74P* B345-20	**3031265**	160, 200, 220, 300, 400
Pag. 5.2	Pag. 5.2	Pag. 5.3	Pag. 5.3	

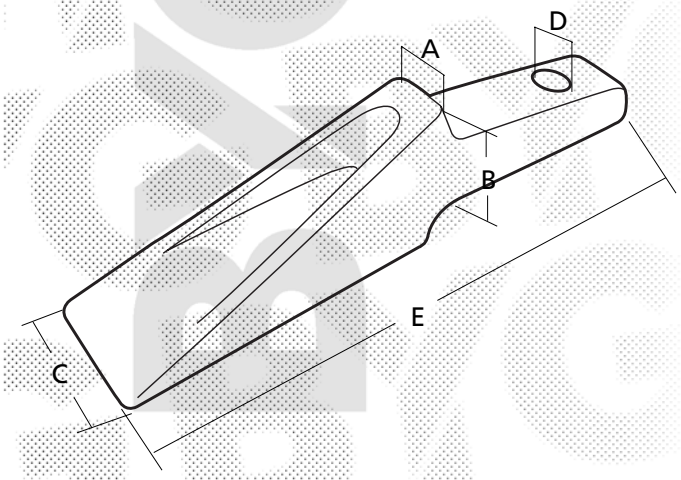
Clamshell teeth for Poclain





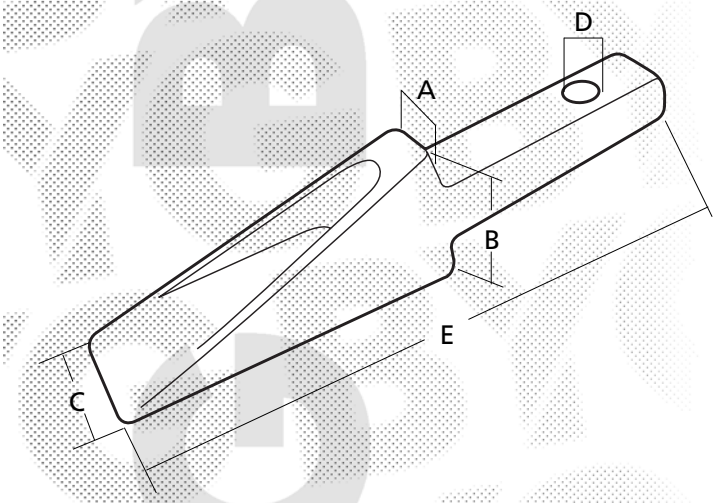
		
1040-15	**1040-78**	TCS-TYS-LY2P 60-75-80-90
Pag. 5.4	Pag. 5.4	

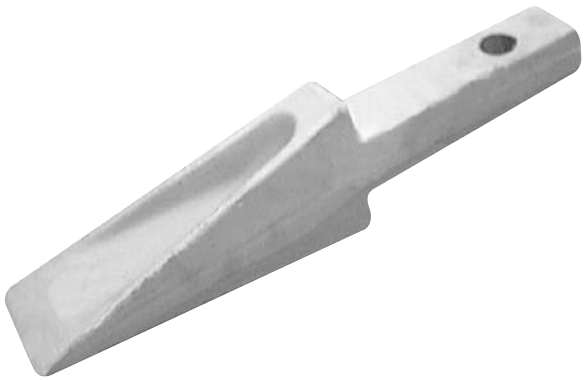
Teeth for Poclain Excavator



mm. A	B	C	D	E	KG lb				
50 *1,97"*	50 *1,97"*	75 *2,95"*	24 *0,94"*	337 *13,27"*	6,20 *13,67*	**1042-72** P01042-72	130-02	200-14-OL	TCS, TYS, LY2P, 60, 75, 80, 90

Teeth for Poclain Excavator

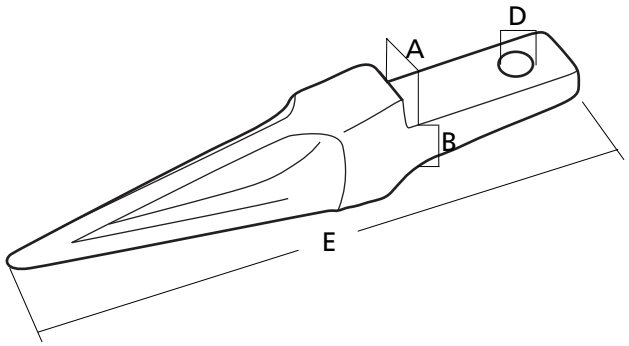




mm. A	B	C	D	E	KG lb				
50 *1,97"*	50 *1,97"*	80 *3,15"*	14 - 24 *0,55" - 0,94"*	345 *13,58"*	6,19 *13,65*	**4046729*** R05042-21	130-02	200-14-OL	TCS, TYS, LY2P, 60, 75, 80, 90
57 *2,24"*	58 *2,28"*	92 *3,62"*	28 *1,10"*	485 *19,09"*	12,00 *26,46*	**4038207** W0042-98	3031112	200-18-OL	90, 100, 115, 120, 160, 200
75 *2,95"*	75 *2,95"*	105 *4,13"*	38 *1,50"*	580 *22,83"*	24,00 *52,91*	**1042-74** R01042-74	3031265	200-18-OL	160, 200, 220, 300, 400

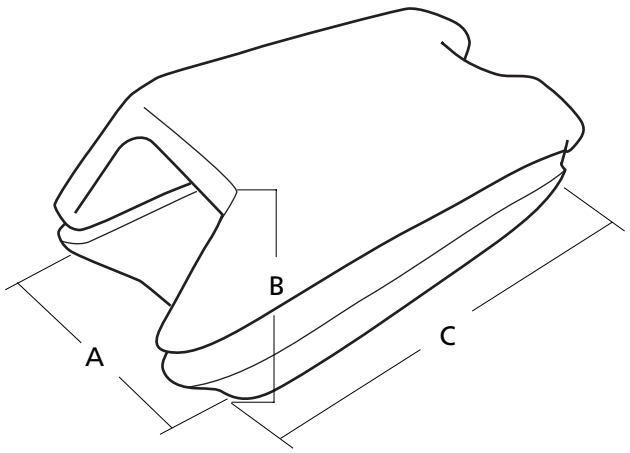
* Component manufactured with two holes of 14 and the other of 24 mm.

Teeth for Poclain Excavator



mm. A	B	D	E	KG lb				
50 *1,97"*	50 *1,97"*	14 - 24 *0,55" 0,94"*	404 *15,91"*	7,00 *15,43*	**330-14*** R05042-70	130-02	200-14-OL	TCS, TYS, LY2P, 60, 75, 80, 90
57 *2,24"*	58 *2,28"*	28 *1,10"*	460 *18,11"*	11,0 *24,25*	*4046746E* R03042-30	3031112	200-18-OL	90, 100, 115, 120, 160, 200
75 *2,95"*	75 *2,95"*	38 *1,50"*	630 *24,80"*	24,00 *52,91*	*1042-74P* B345-20	3031265	200-18-OL	160, 200, 220, 300, 400

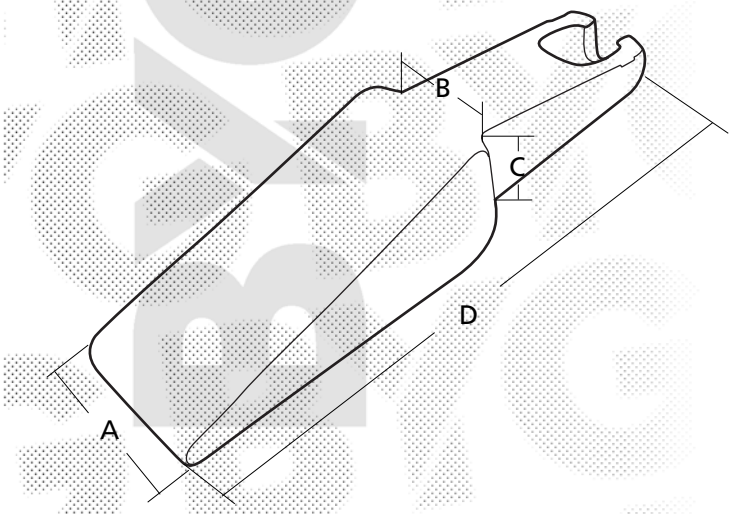
Adapters

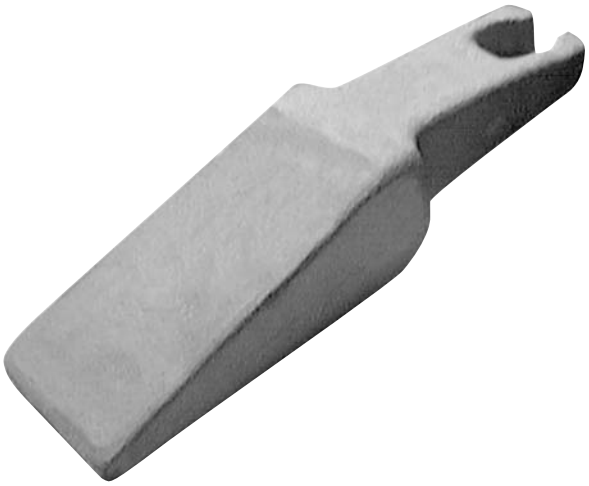


mm. A	B	C	KG lb				
82 *3,23"*	106 *4,17"*	220 *8,66"*	5,20 *11,46*	**130-02**	200-14-OL	1042-72 4046729 330-14	TCS, TYS, LY2P, 60, 75, 80, 90
116 *4,57"*	116 *4,57"*	240 *9,45"*	11,00 *24,25*	**3031112**	200-18-OL	4030207 4046746	90, 100, 115, 120, 160, 200
121 *4,76"*	145 *5,71"*	330 *12,99"*	19,10 *42,11*	**3031265**	200-18-OL	1042-74	160, 200, 220, 300, 400

***** Component manufactured with two holes, one of ø14mm and the other of ø24 mm.

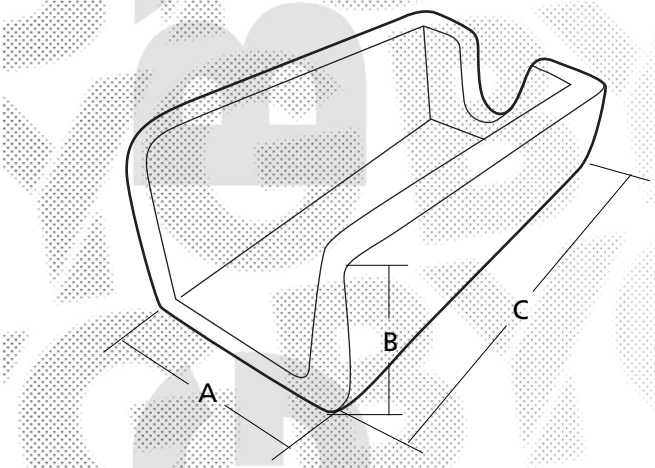
Clamshell Teeth for Poclain

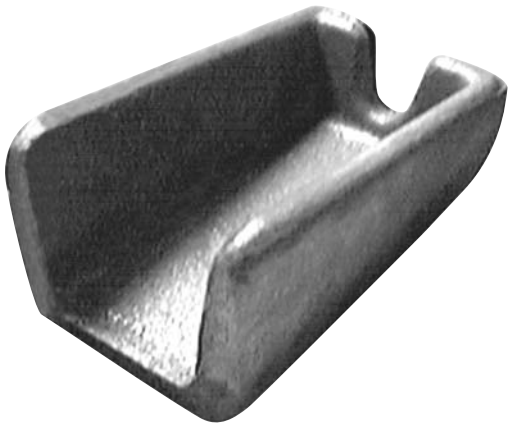




mm. A	B	C	D	KG lb						
75 *2,95"*	52 *2,05"*	50 *1,97"*	105 *4,13"*	5,30 *11,68*	**1040-15**	1040-78	M-14060	TM-014	0-214	TCS-TYS-LY2P 60-75-80-90

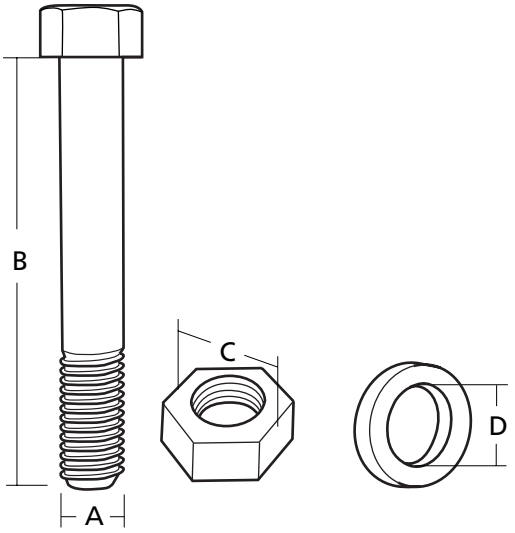
Bolt-On Adapter for Poclain



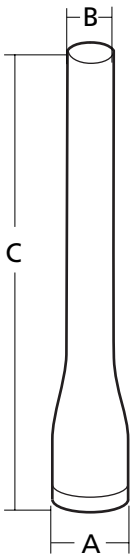


mm. A	B	C	KG lb					
93 *3,66"*	50 *1,97"*	143 *5,63"*	1,60 *3,53*	**1040-78**	1040-15	M-14060	TM-014	0-214

Fasteners



mm. A	B	C	D			
14 *0,55"*	60 *2,36"*	22 *0,87"*	16 *0,63"*	**M-14060**	**TM-014**	**O-214**

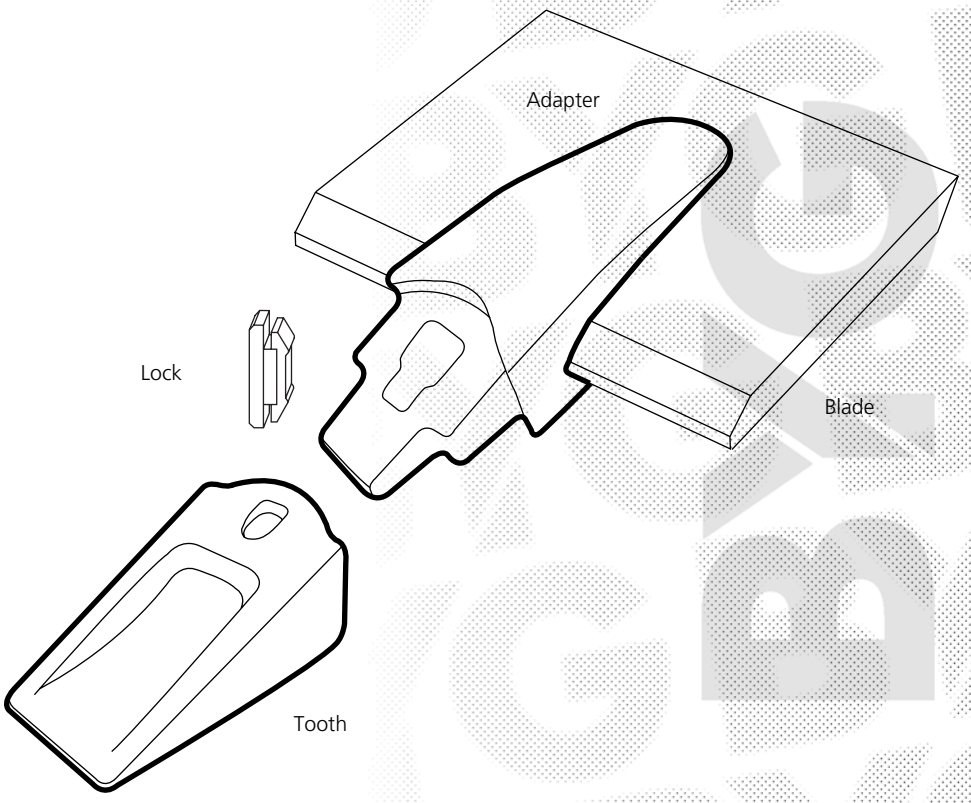


mm. A	B	C	
19 *0,75"*	13 *0,51"*	120 *4,72"*	**200-14-OL**
28 *1,10"*	18 *0,71"*	150 *5,91"*	**200-18-OL**

DRP
Case Poclain

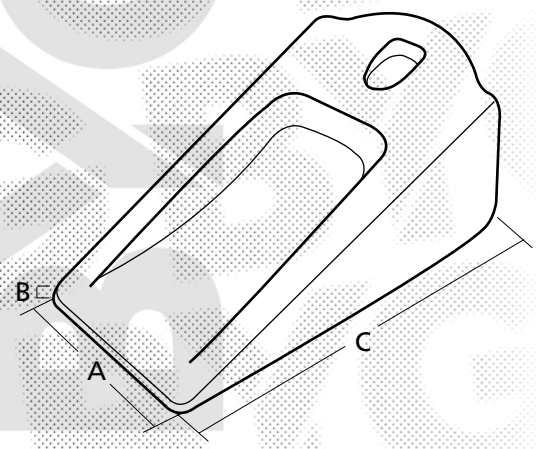
Teeth

Bold ref. number, product available
Other ref. number please consult.



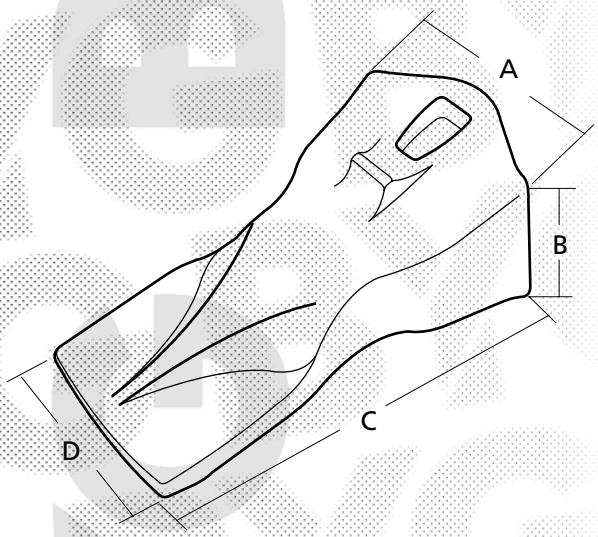
Standard	SYL	Rock	VIP	Adapter		
7042-25 6042-81	**7042-25 SYL**	**7042-26** 6042-85	**7042-28** 6042-83	**6042-91**	Poclain: 60,61,70,75,85 Case: 688,888	**44**
7042-29 6042-82	**7042-29 SYL**	**7042-30** 6042-86	**7042-32** 6042-84	-	Poclain: 75, 81, 85, 90 Case: 888, 1088	**55**
16040-13	-	**16040-11**	**16040-12**	-	Poclain: 160, 120	**60**
15040-92	-	**15040-94**	**15040-93**	-	Poclain: 160, 120	**68**
Pag. 5.8	Pag. 5.8	Pag. 5.9	Pag. 5.9	Pag. 5.10		

Standard Teeth for Excavator



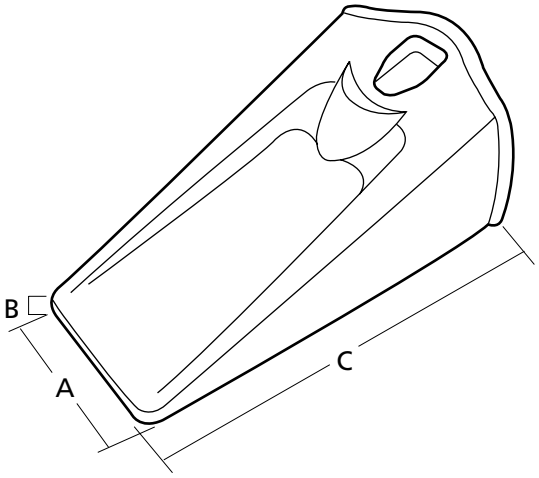
mm. A	B	C	KG lb					
90 *3,54"*	9 *0,35"*	177 *6,97"*	4,35 *9,59*	**7042-25** 6042-81	6042-91	N0120601	Poclain: 60,61,70,75,85 Case: 688,888	**44**
100 *3,94"*	8 *0,31"*	226 *8,90"*	6,10 *13,45*	**7042-29** 6042-82	-	P0120602	Poclain: 75, 81, 85, 90 Case: 888, 1088	**55**
120 *4,72"*	11 *0,43"*	245 *9,65"*	11,00 *24,25*	**16040-13**	-	T1236129	Poclain: 160, 120	**60**
136 *5,35"*	12 *0,47"*	275 *10,83"*	16,25 *35,82*	**15040-92**	-	P1236125	Poclain: 160, 120	**68**

SYL Teeth for Excavator



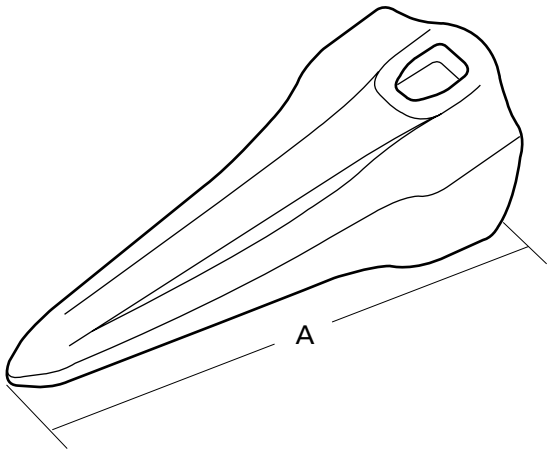
mm. A	B	C	D	KG lb					
100 *3,94"*	70 *2,76"*	190 *7,48"*	90 *3,54"*	3,22 *7,10*	**7042-25 SYL**	6042-91	N0120601	Poclain: 60,61,70,75,85 Case: 688,888	**44**
129 *5,08"*	100 *3,94"*	227 *8,94"*	102 *4,02"*	6,24 *13,76*	**7042-29 SYL**	-	P0120602	Poclain: 75, 81, 85, 90 Case: 888, 1088	**55**

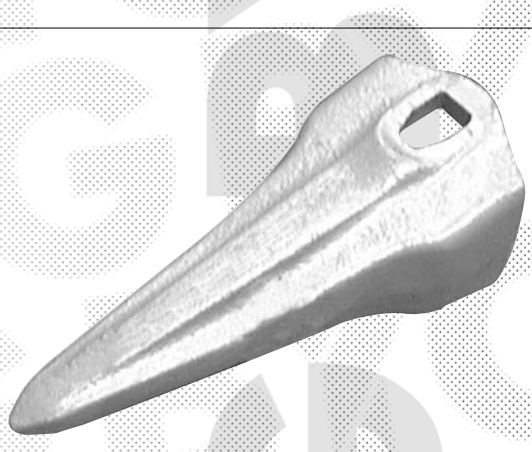
Rock Teeth for Excavator



mm. A	B	C	KG lb					
88 *3,46"*	20 *0,79"*	178 *7,01"*	4,86 *10,71*	**7042-26** 6042-85	6042-91	N0120601	Poclain: 60,61,70,75,85 Case: 688,888	**44**
110 *4,33"*	24 *0,94"*	223 *8,78"*	8,00 *17,64*	**7042-30** 6042-86	-	P0120602	Poclain: 75, 81, 85, 90 Case: 888, 1088	**55**
120 *4,72"*	27 *1,06"*	245 *9,65"*	12,40 *27,34*	**16040-11**	-	T1236129	Poclain: 160, 120	**60**
136 *5,35"*	30 *1,18"*	275 *10,83"*	17,83 *39,31*	**15040-94**	-	P1236125	Poclain: 160, 120	**68**

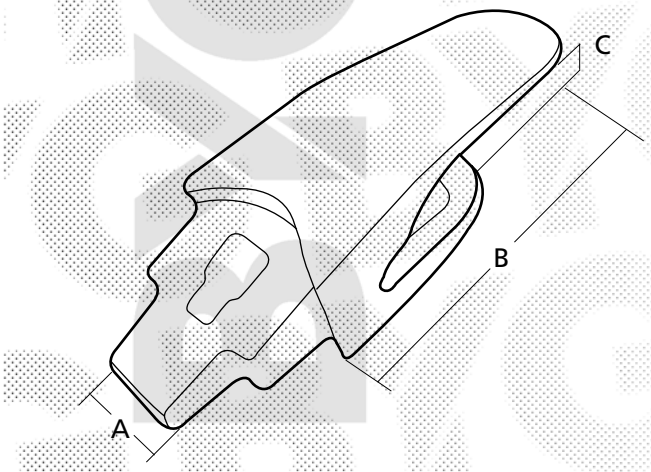
Penetration Teeth for Excavator

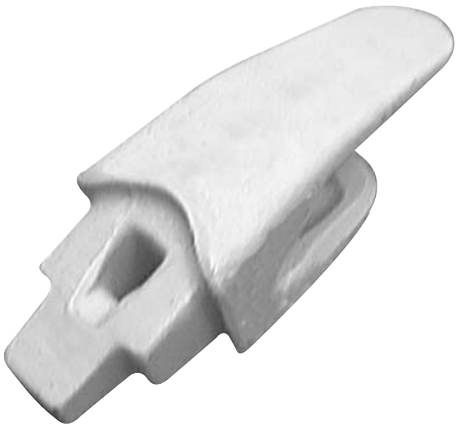




mm. A	KG lb					
227 *8,94"*	3,25 *7,16*	**7042-28** 6042-83	6042-91	N0120601	Poclain: 60,61,70,75,85 / Case: 688,888	**44**
305 *12,01"*	6,15 *13,56*	**7042-32** 6042-84	-	P0120602	Poclain: 75, 81, 85, 90 / Case: 888, 1088	**55**
308 *12,13"*	10,20 *22,49*	**16040-12**	-	T1236129	Poclain: 160, 120	**60**
347 *13,66"*	14,75 *32,52*	**15040-93**	-	P1236125	Poclain: 160, 120	**68**

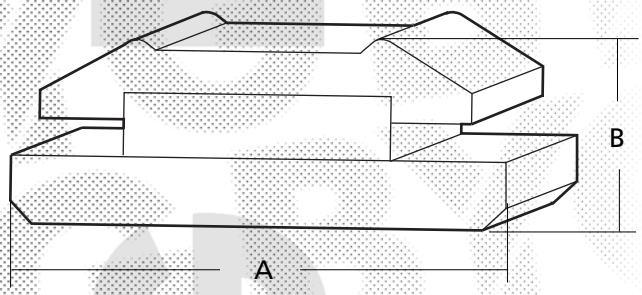
Excavator Adapters





mm. A	B	C	KG. lb				
45 *1,77"*	180 *7,09"*	40 *1,57"*	6,75 *14,88*	**6042-91**	N0120601	Poclain: 60,61,70,75,85 Case: 688,888	**44**

Poclain Lock



mm. A	B		
84 *3,31"*	27 *1,06"*	**N0120601**	**44**
106 *4,17"*	34 *1,34"*	**P0120602**	**55**
116 *4,57"*	37 *1,46"*	**T1236129**	**60**
134 *5,28"*	41 *1,61"*	**P1236125**	**68**

DRP

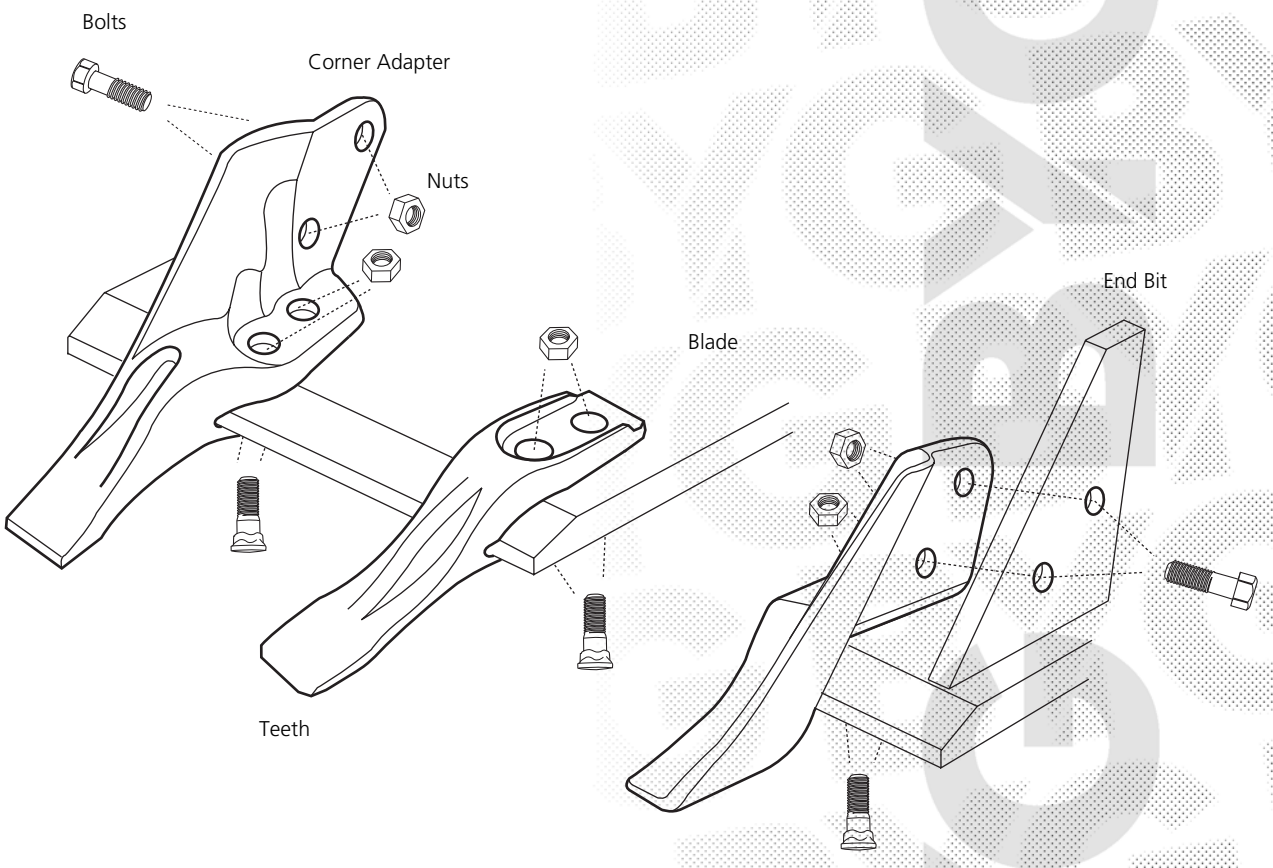
JCB

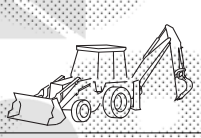
Teeth

Bold ref. number, product available

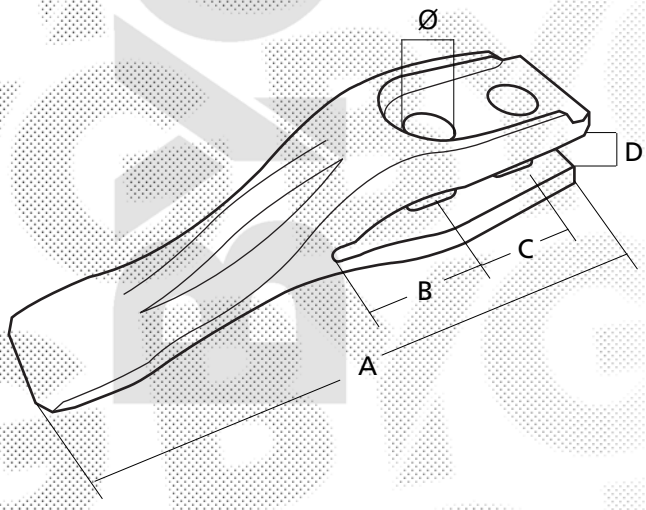
Other ref. number please consult.

Futura Alternative



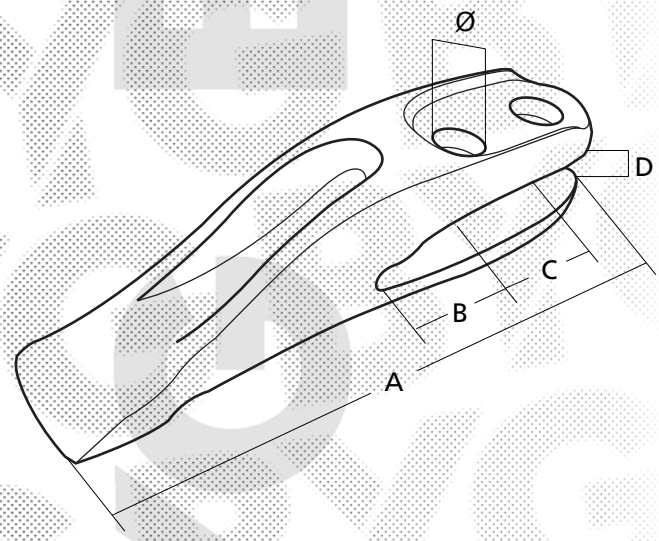
Bolt-On Teeth	Standard	Corner Adapter		
				
53103205 P	**53103205** FJ205	**53103208** FJ208	**53103209** FJ209	JCB-3CX
Pag. 6.2	Pag. 6.2	Pag. 6.3	Pag. 6.3	

Bolt-On Monoblock Teeth



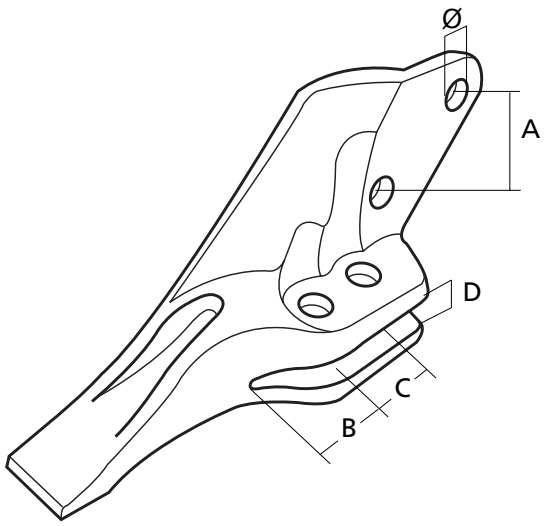
A	B	C	D	Ø	KG lb						
		mm.									
245 *9,65"*	57 *2,24"*	44,5 *1,75"*	21 *0,83"*	20,5 *0,81"*	2,00 *4,41*	**53103205 P**	53103208	53103209	PB-324	NP-190	JCB-3CX

Bolt-On Monoblock Teeth



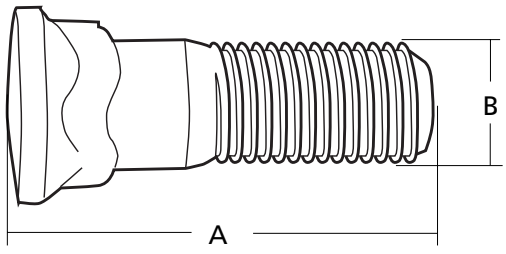
A	B	C	D	Ø	KG lb					
		mm.								
245 *9,65"*	57 *2,24"*	44,5 *1,75"*	21 *0,83"*	20,5 *0,81"*	3,00 *6,61*	**53103205** FJ205	53103208	53103209	PB-324	NP-190

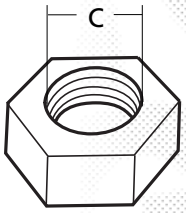
Bolt-On Corner Teeth

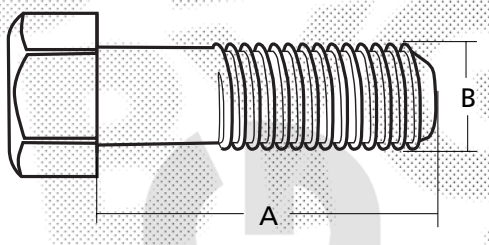


mm. A	B	C	D	Ø	KG LB						
87,5 *3,44"*	57 *2,24"*	44,5 *1,75"*	21 *0,83"*	20,5 *0,81"*	5,50 *12,13*	**53103208** FJ208	**53103209** FJ209	M-20050	TM-020	PB-324	NP-190

Bolts & Nuts







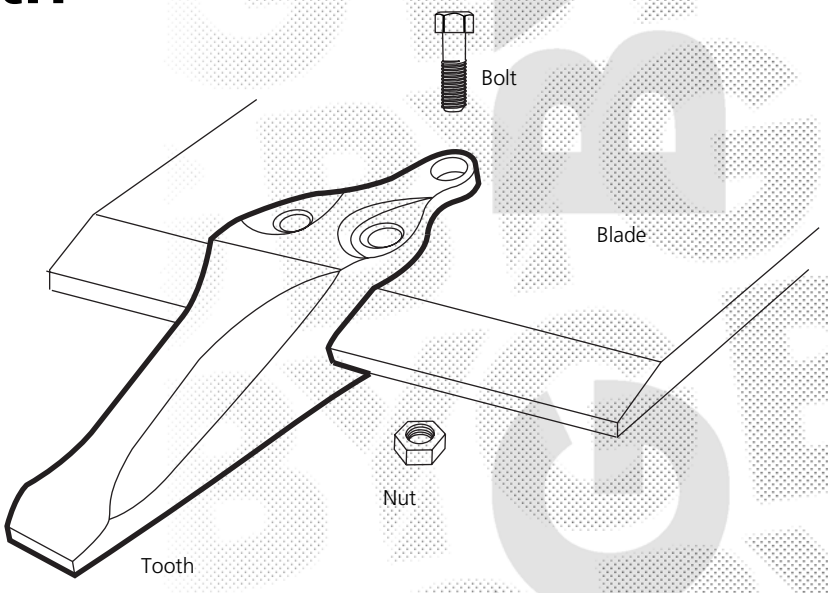
mm. A	B	C	Thread	Thread	OEM	BYG ref.	OEM	BYG ref.	OEM	BYG ref.
50 *1,97"*	20 *0,79"*	20 *0,79"*	- -	2,50 *0,10"*	**6V-3531**	**M-20050**	-	-	**6V-7742**	**TM-020**
2-1/2" -	3/4" -	3/4" -	10 *0,39"*	- -	-	-	**5J-4773**	**PB-324**	**2J-3506**	**NP-190**

DRP

Komatsu

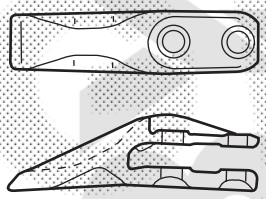
Bold ref. number, product available
Other ref. number please consult.

Monoblock Teeth for Loaders



2 Holes	Short: 2 Holes	3 Holes	Short: 3 Holes		
-	*105-70-22211*	-	-	WA-20-1, WA-30-2	-
-	-	*20T-70-13130*	-	WA-40-1	-
-	-	*113-70-22140*	-	WA-60-1, WA-60-2	-
-	-	-	*415-70-13110* 415-70-13111	WA-70-1	-
-	-	-	*417-70-13250* 417-70-13251	WA-100-1, WA-120-1, WA-150-1	-
-	-	-	*418-70-13160*	WA-180-1, WA-200-1, WA-250-1	-
-	-	*419-70-13114*	-	WA-300-1, WA-320-1, WA-350-1 WA-380-1, WA-400-1, WA-420-1 WA-460-1, WA-470-1	-
425-70-13212	-	-	-	WA-500-1	-
-	-	*103-70-22140*	-	-	D20, D215-5, 6, D21Q-5, 6
-	-	*113-70-22140*	-	-	D31S-17, 18
-	-	*125-70-21810*	-	-	D31Q-17, 18
135-70-34110	-	-	-	-	D50S-16, D53S-16, 17, D57S-1, D75S-1
-	-	-	**135-70-13411**	-	D505-15, D555-3 D53S-15
-	-	-	**145-70-19181**	-	D60, D65S-7,8
-	-	**145-70-44110** 145-70-44181	-	-	D665-1 D755-3,5
155-70-14112	-	-	-	-	D955-1
178-70-14110	-	-	-	-	D155S-1
Pag. 7.2	Pag. 7.2	Pag. 7.3	Pag. 7.3		

Loader Bolt-On Monoblock Teeth



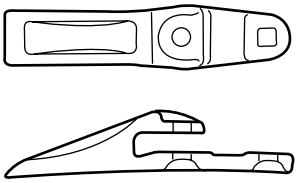


Fig. 1

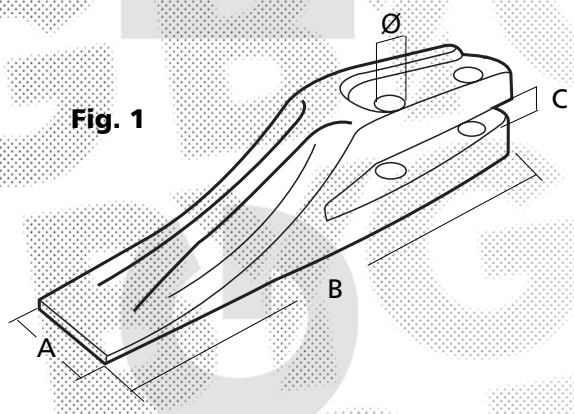
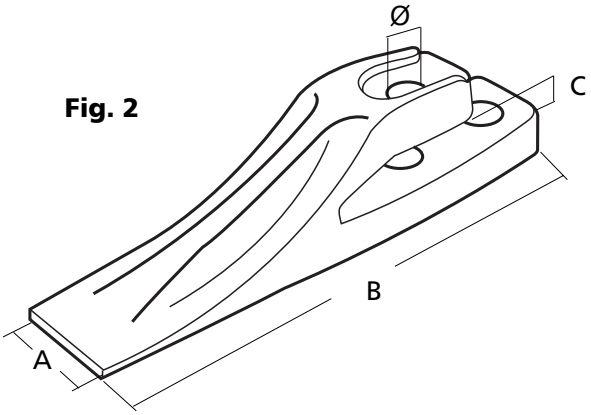
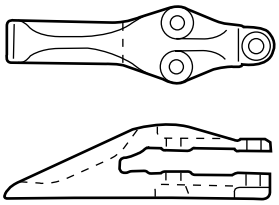


Fig. 2



mm. A	B	C	Ø	↕	KG lb		Fig.			
-	-	-	-	-	-	*105-70-22211*	**2**	02090-11065	09218-11614	WA-20-1 WA-30-2
-	-	-	-	-	-	*20T-70-13130*	**3**	02090-11060	02205-11015	WA-40-1
53 *2,09"*	95 *3,74"*	22,5 *0,89"*	20 *0,79"*	20 *0,79"*	- -	*113-70-22140*	**3**	09208-11965	09218-11916	WA-60-1 WA-60-2
43 *1,69"*	65 *2,56"*	22,5 *0,89"*	20 *0,79"*	20 *0,79"*	- -	*415-70-13110* 415-70-13111	**4**	09208-11965	09218-11916	WA-70-1
53 *2,09"*	95 *3,74"*	22,5 *0,89"*	20 *0,79"*	20 *0,79"*	- -	*417-70-13250* 417-70-13251	**4**	09208-11965	09218-11916	WA-100-1 WA-120-1 WA-150-1
65 *2,56"*	120 *4,72"*	25,5 *1,00"*	23 *0,91"*	25,4 *1,00"*	- -	*418-70-13160*	**4**	423-70-13180	02290-11422	WA-180-1 WA-200-1 WA-250-1
75 *2,95"*	120 *4,72"*	28,5 *1,12"*	26,5 *1,04"*	28 *1,10"*	- -	*419-70-13114*	**3**	09208-12290	09218-12219	WA-300-1 WA-320-1 WA-350-1 WA-380-1 WA-400-1 WA-420-1 WA-460-1 WA-470-1
85 *3,35"*	150 *5,91"*	40,8 *1,61"*	28 *1,10"*	40 *1,57"*	- -	*425-70-13212*	**1**	02091-11610	02290-11625	WA-500-1

Loader Bolt-On Monoblock Teeth



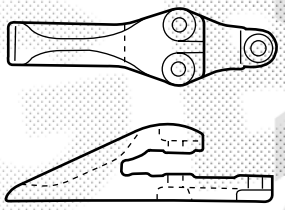


Fig. 3

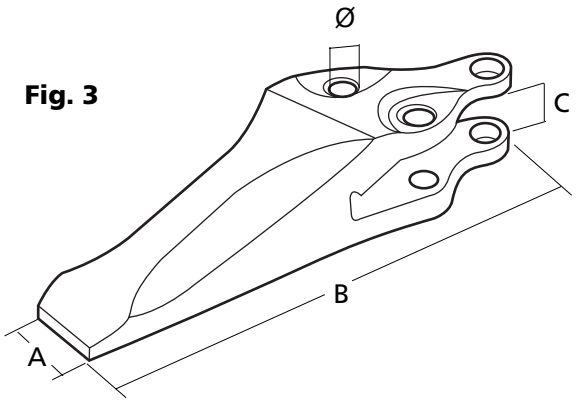
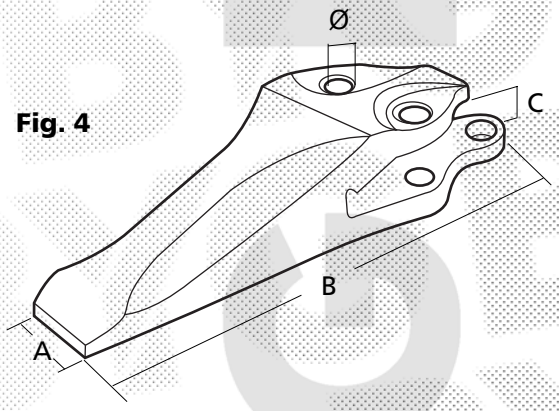


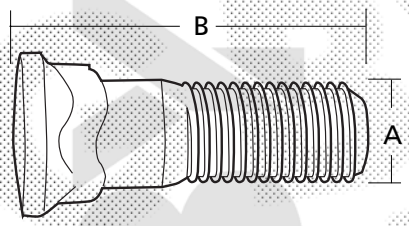
Fig. 4

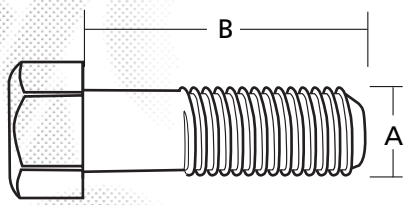


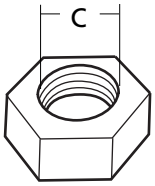
mm. A	B	C	Ø	↕	KG lb		Fig.				
43 *1,69"*	65 *2,56"*	22 *0,87"*	20 *0,79"*	20 *0,79"*	- -	*103-70-22140*	**3**	-	113-70-22160	113-70-22280	D20, D215-5, 6, D21Q-5, 6
53 *2,09"*	95 *3,74"*	22 *0,87"*	20 *0,79"*	20 *0,79"*	- -	*113-70-22140*	**3**	-	09208-11965	09218-11916	D31S-17, 18
65 *2,56"*	120 *4,72"*	28 *1,10"*	23 *0,91"*	25,4 *1,00"*	8,8 *19,40*	*125-70-21810*	**3**	125-70-21640	-	145-70-44130	D31Q-17, 18
75 *2,95"*	120 *4,72"*	29 *1,14"*	-	25,4 *1,00"*	12,3 *27,12*	**135-70-34110**	**1**	135-70-34120	-	135-7034130	D50S-16, D53S-16, 17, D57S-1, D75S-1
95 *3,74"*	100 *3,94"*	28,5 *1,12"*	21 *0,83"*	28 *1,10"*	12,9 *28,44*	**135-70-13411**	**4**	02090-11270 (D) 154-70-11143 (T)	-	-	D505-15, D555-3 D53S-15
110 *4,33"*	125 *4,92"*	36,5 *1,44"*	23 *0,91"*	35 *1,38"*	20 *44,09*	**145-70-19181**	**4**	-	09208-02280 (D) 09208-02205 (T)	09218-02219	D60, D65S-7,8
72 *2,83"*	125 *4,92"*	35,4 *1,39"*	23 *0,91"*	35 *1,38"*	15,5 *34,17*	**145-70-44110** 145-70-44181	**3**	09208-12290	-	09218-12219	D665-1 D755-3,5
113 *4,45"*	150 *5,91"*	40,5 *1,59"*	28 *1,10"*	40 *1,57"*	- -	*155-70-14112*	**1**	-	155-70-14222	155-70-14141	D955-1
120 *4,72"*	175 *6,89"*	52 *2,05"*	34 *1,34"*	50 *1,97"*	- -	*178-70-14110*	**1**	-	09208-13314	09218-13329	D155S-1

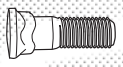
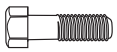
D: Front
T: Rear

Bolts & Nuts







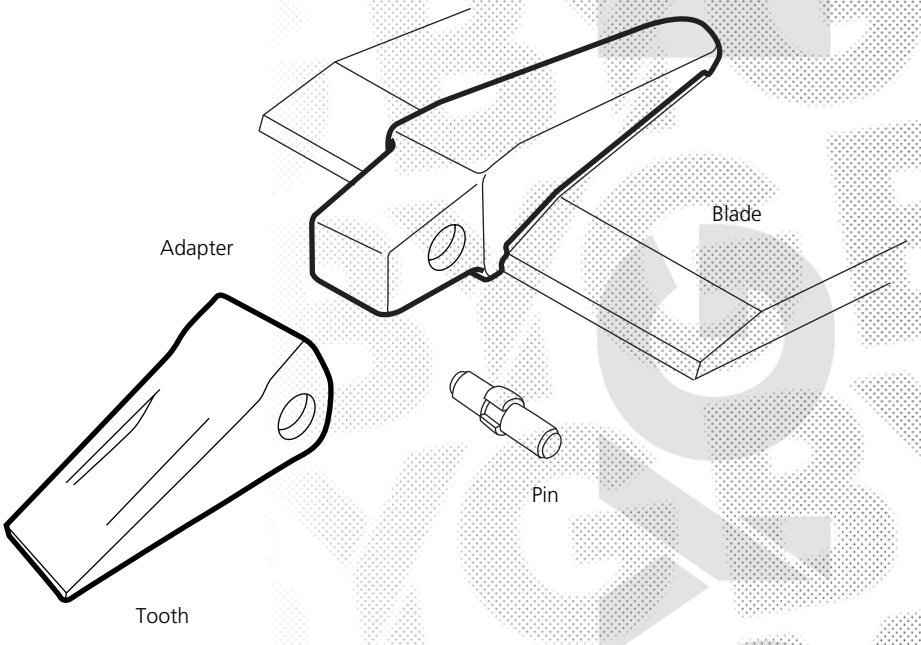
mm.				OEM	BYG ref.	OEM	BYG ref.	OEM	BYG ref.
A	B	C	Thread						
-	-	-	-	-	-	113-70-22160	-	113-70-22280	-
-	-	-	-	-	-	09208-11965	-	09218-11916	-
-	-	-	-	125-70-21640	-	-	-	145-70-44130	-
1"	3 1/2"	1"	8	135-70-34120	**PB-944**	-	-	135-70-34130	**NP-100**
3/4"	2-3/4"	3/4"	10	02090-11270	**PB-326**	-	-	-	**NP-190**
3/4"	3-1/4"	3/4"	10	154-70-11143 02090-11290	**PB-330**	-	-	-	
7/8"	4"	7/8"	9	-	-	09208-02280 (2)	**S-4630**	09218-02219	**NP-222**
7/8"	3-1/2"		9	-	-	09208-02205 (1)	**S-4629**		
7/8"	4"	7/8"	9	09208-12290	**PB-744**	-	-	09218-02219	**NP-222**
-	-	-	-	-	-	155-70-14222	-	155-70-14141	-
-	-	-	-	-	-	09208-13314	-	09218-13329	-
-	-	-	-	-	-	02090-11065	-	09218-11614	-
-	-	-	-	-	-	02090-11060	-	02205-11015	-
-	-	-	-	-	-	423-70-13180	-	02290-11422	-
-	-	-	-	-	-	02091-11610	-	02290-11625	-

DRP

Komatsu

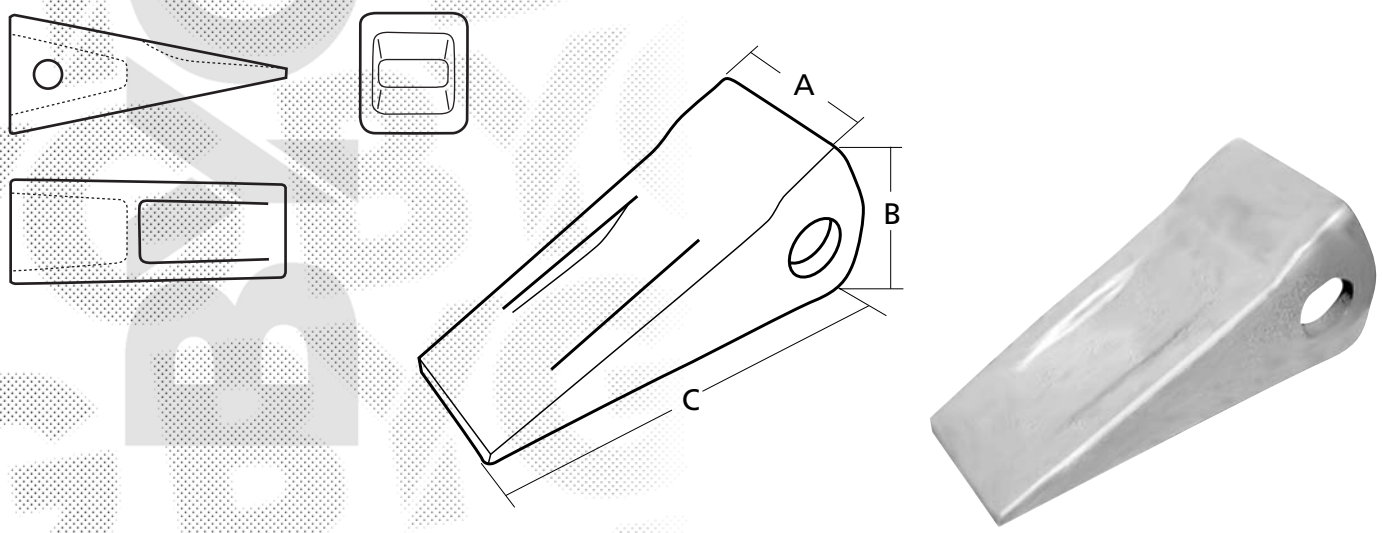
Bold ref. number, product available
Other ref. number please consult.

Side Pin Teeth and Adapters for Loaders



Standard	Bolt-On 3 Holes	Weld-On Flush Mount	Two Strap	
207-70-14151	*142-70-12230*	-	-	D66 S-1
415-84-71110	*415-847-1120*	-	-	WA 70-1
201-70-24140	*417-847-1140*	-	-	WA 100-1, WA 120-1 WA 150-1
20X-70-14160	*418-847-1120*	-	-	WA 180-1, WA 200-1 WA 250-1
202-70-12130	*419-847-1111*	-	-	WA 300-1, WA 320-1
423-847-1140	*423-847-1111*	-	*419-847-1210*	WA 350-1
		-	*423-847-1210*	WA 380-1 WA 400-1, WA 420-1 WA 450-1, WA 470-1
426-847-1110	*425-847-1191*	*426-847-1120* [a]	**426-847-1121 A**	WA 500-1,
	426-847-1141	*426-847-1121* [b]	-	WA 600-1
427-70-13731	-	*427-70-13742*	-	WA 700-1
427-842-1120	-		-	WA 800-2
Pag 7.6	Pag 7.7	Pag 7.7	Pag 7.8	

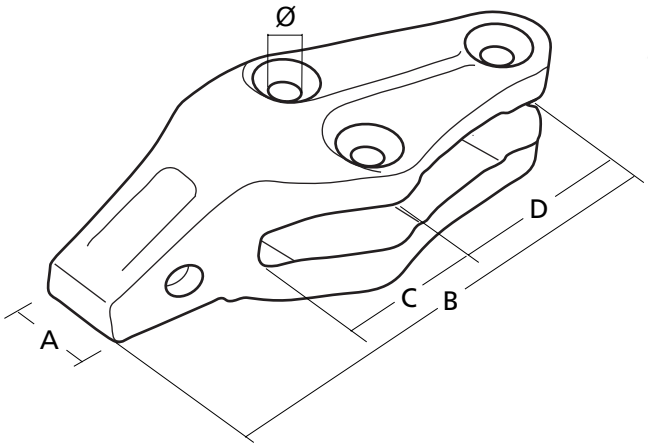
Loader Side Pin Teeth



A	mm. B	C	KG lb						
120 *4,72"*	114 *4,49"*	244 *9,61"*	6,90 *15,21*	**207-70-14151**	09244-02516	142-70-12230	-	-	D66 S-1
-	-	-	-	*415-84-71110*	201-70-00150	415-847-1120	-	-	WA 70-1
-	-	-	-	*201-70-24140*	201-70-00150	417-847-1140	-	-	WA 100-1, WA 120-1 WA 150-1
75 *2,95"*	75 *2,95"*	175 *6,89"*	1,71 *3,77*	**20X-70-14160**	20X-70-00100	418-847-1120	-	-	WA 180-1, WA 200-1 WA 250-1
92 *3,62"*	89 *3,50"*	180 *7,09"*	4,10 *9,04*	**202-70-12130**	09244-02496	419-847-1111	-	-	WA 300-1, WA 320-1
137 *5,39"*	139 *5,47"*	287 *11,30"*	8,41 *18,54*	**423-847-1140**	09244-02516	423-847-1111	-	419-847-1210	WA 350-1
							-	423-847-1210	WA 380-1 WA 400-1, WA 420-1 WA 450-1, WA 470-1
138 *5,43"*	139 *5,47"*	285 *11,22"*	12,15 *26,79*	**426-847-1110**	09244-03036	425-847-1191	426-847-1120 [a]	426-847-1121 A	WA 500-1
						426-847-1141	426-847-1121 [b]	-	WA 600-1
-	-	-	-	*427-70-13731*	427-70-13770	-	427-70-13742	-	WA 700-1
-	-	-	-	*427-842-1120*	427-70-13790	-		-	WA 800-2

a - Straight cutting edge
b - Delta cutting edge

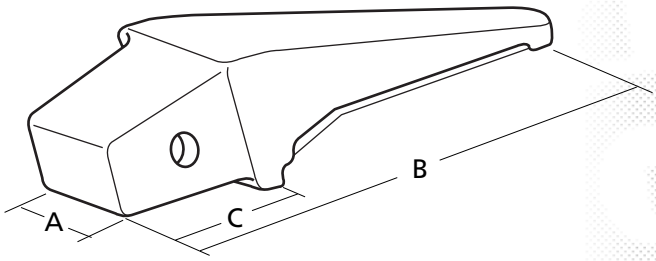
Loader Bolt-On Adapters: 3 Holes



mm. A	B	C	D	Ø		KG lb						
-	-	-	-	-	-	-	*142-70-12230*	09208-12290 (D) 09218-12219 (T)	-	207-70-14151	D66 S-1
-	-	-	-	-	-	-	*415-847-1120*	-	-	415-84-71110	WA 70-1
-	-	-	-	-	-	-	*417-847-1140*	-	-	201-70-24140	WA 100-1, WA 120-1 WA 150-1
-	-	-	-	-	-	-	*418-847-1120*	-	-	20X-70-14160	WA 180-1, WA 200-1 WA 250-1
-	-	-	-	-	-	-	*419-847-1111*	-	-	202-70-12130	WA 300-1, WA 320-1
-	-	-	-	-	-	-	*423-847-1111*	09208-12290 (D) 09218-12219 (T)	-	423-847-1140	WA 350-1
								02091-12050 (D) 02290-12031 (T)	-		WA 380-1 WA 400-1, WA 420-1 WA 450-1, WA 470-1
-	-	-	-	-	-	-	*425-847-1191*	-	-	426-847-1110	WA 500-1
-	-	-	-	-	-	-	*426-847-1141*	-	-		WA 600-1

D: Front
T: Rear

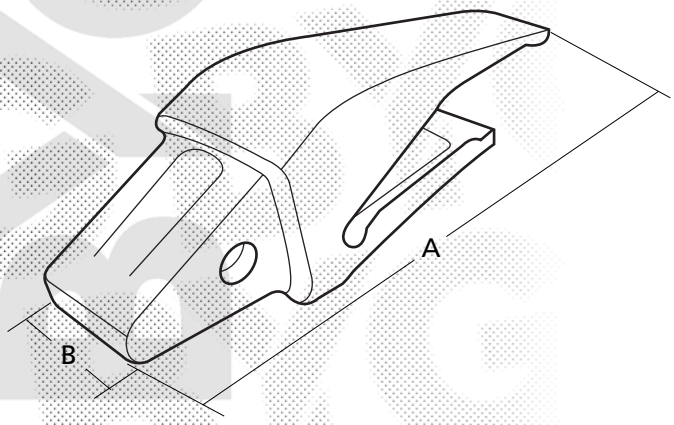
Loader Weld-On Flush Mount Adapters



mm. A	B	C					
43 *1,69"*	65 *2,56"*	22,5 *0,89"*	20 *0,79"*	*426-847-1120* [a]	09244-03036	426-847-1110	WA 500-1
53 *2,09"*	95 *3,74"*	22,5 *0,89"*	20 *0,79"*	*426-847-1121* [b]			WA 600-1
-	-	-	-	*427-70-13742*	427-70-13770	427-70-13731	WA 700-1
					427-70-13790	427-70-13780	WA 800-2

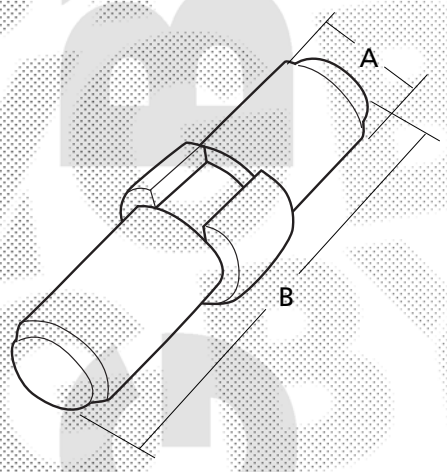
a - Straight cutting edge
b - Delta cutting edge

Loader Two Strap Weld-On Adapters



mm. A	mm. B		KG lb				
-	-	-	-	*419-847-1210*	09244-02516	423-847-1140	WA 350-1
-	-	-	-	*423-847-1210*	09244-02516		WA 380-1, WA 400-1 WA 420-1, WA 450-1, WA 470-1
472 *18,58"*	86,5 *3,41"*	60 *2,36"*	24,50 *54,01*	**426-847-1121 A**	09244-03036	426-847-1110	WA 500-1

Fasteners



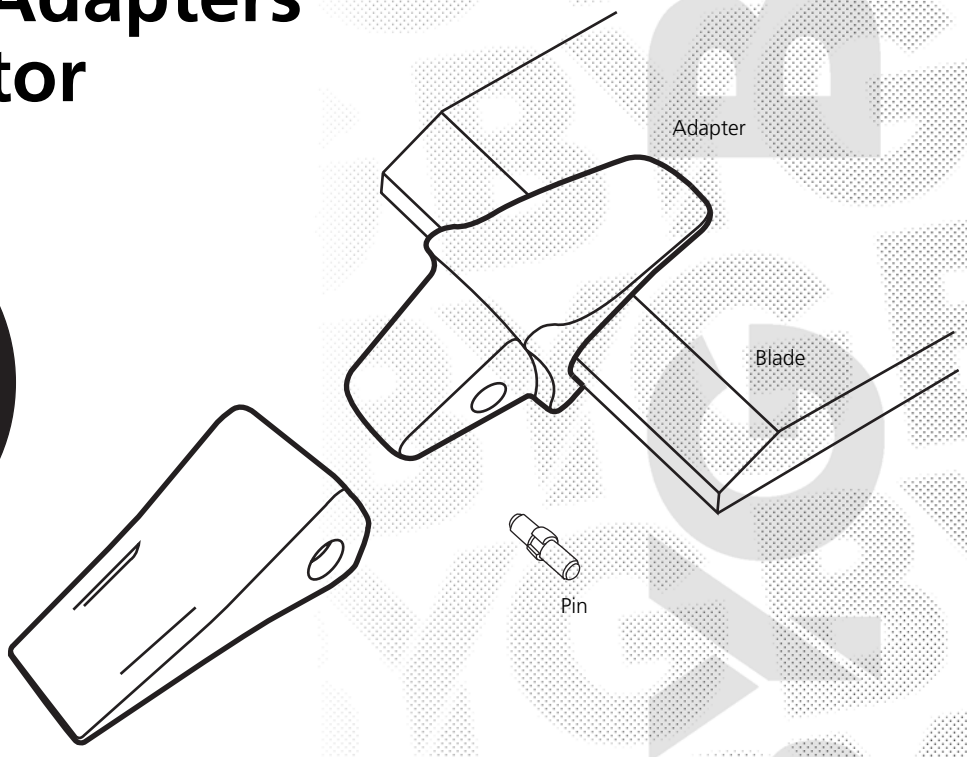
mm. A	mm. B	BYG Ref.	Alternative Ref.	
25 *0,98"*	119 *4,69"*	**09244-02516**	175-78-21810	D66-S-1, WA 350-1, WA 380-1 WA 400-1, WA 420-1 WA450-1, WA 470-1
17 *0,67"*	61 *2,40"*	**201-70-00150**	201-70-24150	WA-70-1, WA 100-1 WA 120-1, WA 150-1
20 *0,79"*	71 *2,80"*	**20X-70-00100**	20X-70-14170	WA-180-1, WA 200-1 WA 250-1
25 *0,98"*	97 *3,82"*	**09244-02496**	205-70-19610 205-70-69130	WA 300-1, WA 320-1
25 *0,98"*	145 *5,71"*	**09244-03036**	198-79-11320 A03-78-11730 426-847-1130	WA 500-1, WA 600-1
38 *1,50"*	151 *5,94"*	**427-70-13770**	-	WA 700-1
38 *1,50"*	167 *6,57"*	**427-70-13790**	-	WA 800-2

DRP

Komatsu

Bold ref. number, product available
Other ref. number please consult.
Futura Alternative

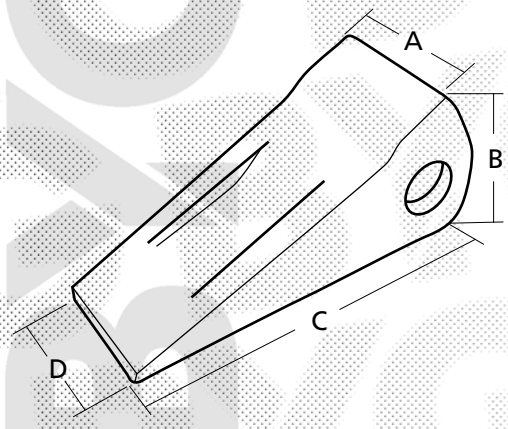
Side Pin
Teeth and Adapters
for Excavator



Standard	Abrasion RE	SYL	VIP	Long Tooth	Corner Tooth	Two Strap	
205-70-19570	**205-70-19570 RE**	**205-70-19570 SYL**	*205-70-19570 VIP*	*20Y-70-K4060*	*20Y-70-K4150*	**205-70-68141** **205-939-7120**	PC100, PC100L-5, PC120-5, PC130, PC200LC-5, PW210-1
207-70-14151	**207-70-14151 RE**	**207-70-14151 SYL**	*207-70-14151 VIP*	*20Y-70-K4070*	*20Y-70-K4160*	**207-70-14142** **207-939-3120**	PC220, PC220LC-5, PC240LC-NLC, PC280LC-3, PC290 LC/NLC, PC300, PC300LC-5, PC340 LC/NLC, PC360LC-3, PC-380 LC
208-70-14152	*208-70-14152 RE*	**208-70-14152 SYL**	*207-70-14152 VIP*	*208-70-K1340*	*208-70-K1490*	**208-70-14143**	PC400, PC400LC-5, PC450, PC450LC
209-70-54720	**209-70-54720 RE**	*209-70-54720 SYL*	*209-70-54720 VIP*	*209-70-54730*	-	*** 209-70-74140**	PC650, PC650LC-3, PC650SE, PC750, PC750SE
21N-72-14290	**21N-72-14290 RE**	*21N-72-14290 SYL*	**21N-72-14290 VIP**	-	-	**21N-70-14140**	PC-1000LC-1, PC1000SE-1, PC-1100SP, PC-1200
21T-72-74310	*21T-72-74310 RE*	*21T-72-74310 SYL*	-	-	-	*21T-70-74160*	PC-1600, PC-1600-1
Pag. 7.10	Pag. 7.10	Pag. 7.11	Pag. 7.11	Pag. 7.12	Pag. 7.12	Pag. 7.13	

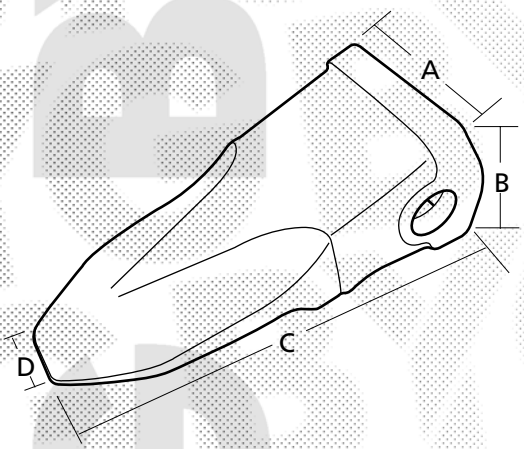
***** Inverted adapter, long strap on top. Drawing page 7.13

Excavator Teeth: Standard



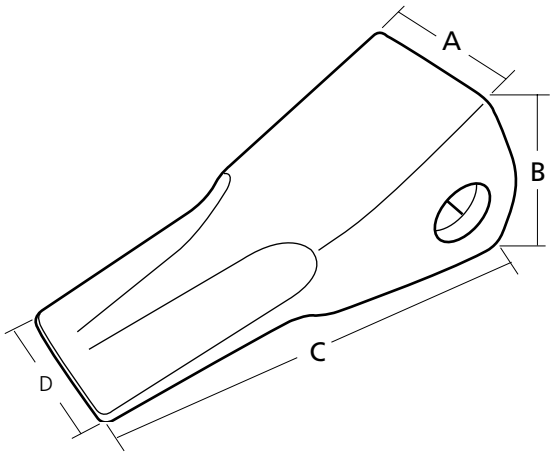
mm. A	B	C	D	KG lb				
95 *3,74"*	100 *3,94"*	222 *8,74"*	75 *2,95"*	4,40 *9,70*	**205-70-19570**	09244-02496	205-70-68141 205-939-7120	PC100, PC100L-5,PC120-5, PC130, PC200LC-5, PW210-1
120 *4,72"*	114 *4,49"*	244 *9,61"*	92 *3,62"*	6,90 *15,21*	**207-70-14151**	09244-02516	207-70-14142 207-939-3120	PC220, PC220LC-5, PC240LC-NLC, PC280LC-3, PC290 LC/NLC, PC300, PC300LC-5, PC340 LC/NLC, PC360LC-3, PC-380 LC
152 *5,98"*	121 *4,76"*	271 *10,67"*	110 *4,33"*	9,70 *21,38*	**208-70-14152**	09244-03036	208-70-14143	PC400, PC400LC-5, PC450, PC450LC
181 *7,13"*	189 *7,44"*	349 *13,74"*	- -	- -	*209-70-54720*	209-70-54240	209-70-74140	PC650, PC650LC-3, PC650SE, PC750, PC750SE
181 *7,13"*	244 *9,61"*	422 *16,61"*	- -	- -	*21N-72-14290*	21N-72-14330	21N-70-74140	PC-1000LC-1, PC1000SE-1, PC-1100SP, PC-1200
-	-	-	-	-	*21T-72-74310*	21T-72-74320	21T-70-74160	PC-1600, PC-1600-1

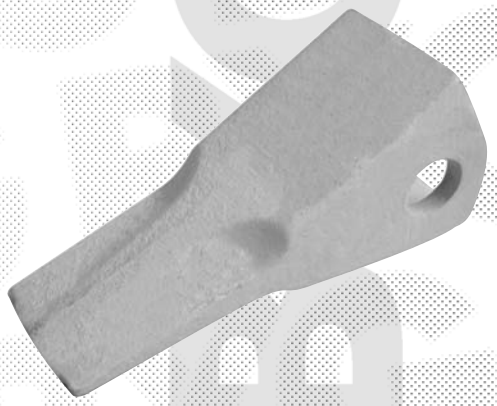
Excavator Teeth: Abrasion



mm. A	B	C	D	KG lb				
97 *3,82"*	102 *4,02"*	278 *10,94"*	38 *1,50"*	6,00 *13,23*	**205-70-19570 RE**	09244-02496	205-70-68141 205-939-7120	PC100, PC100L-5,PC120-5, PC130, PC200LC-5, PW210-1
122 *4,80"*	112 *4,41"*	291 *11,46"*	50 *1,97"*	8,50 *18,74*	**207-70-14151 RE**	09244-02516	207-70-14142 207-939-3120	PC220, PC220LC-5, PC240LC-NLC, PC280LC-3, PC290 LC/NLC, PC300, PC300LC-5, PC340 LC/NLC, PC360LC-3, PC-380 LC
-	-	-	-	-	*208-70-14152 RE*	09244-03036	208-70-14143	PC400, PC400LC-5, PC450, PC450LC
181 *7,13"*	198 *7,80"*	437 *17,20"*	65 *2,56"*	29,80 *65,70*	**209-70-54720 RE**	209-70-54240	209-70-74140	PC650, PC650LC-3, PC650SE, PC750, PC750SE
184 *7,24"*	253 *9,96"*	498 *19,61"*	70 *2,76"*	46,80 *103,17*	**21N-72-14290 RE**	21N-72-14330	21N-70-74140	PC-1000LC-1, PC1000SE-1, PC-1100SP, PC-1200
-	-	-	-	-	*21T-72-74310 RE*	21T-72-74320	21T-70-74160	PC-1600, PC-1600-1

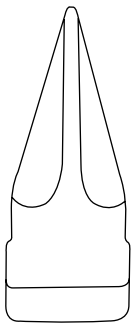
Excavator Teeth: SYL



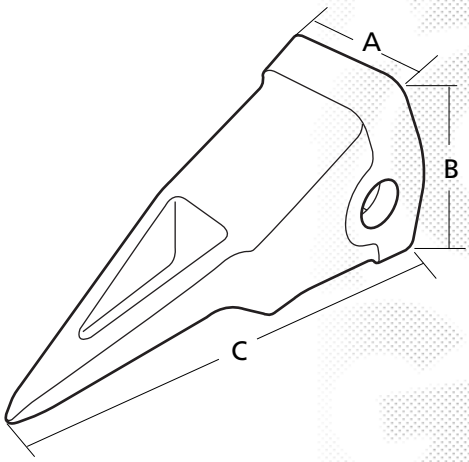


mm. A	B	C	D	KG lb				
95 *3,74"*	100 *3,94"*	225 *8,86"*	75 *2,95"*	3,80 *8,38*	**205-70-19570 SYL**	09244-02496	205-70-68141 205-939-7120	PC100, PC100L-5,PC120-5, PC130, PC200LC-5, PW210-1
120 *4,72"*	114 *4,47"*	246 *9,69"*	92 *3,62"*	6,00 *13,23*	**207-70-14151 SYL**	09244-02516	207-70-14142 207-939-3120	PC220, PC220LC-5, PC240LC-NLC, PC280LC-3, PC290 LC/NLC, PC300, PC300LC-5, PC340 LC/NLC, PC360LC-3, PC-380 LC
152 *5,98"*	121 *4,76"*	271 *10,67"*	110 *4,33"*	9,70 *21,38*	**208-70-14152 SYL**	09244-03036	208-70-14143	PC400, PC400LC-5, PC450, PC450LC
170 *6,69"*	180 *7,09"*	380 *14,96"*	140 *5,51"*	23,50 *51,81*	**209-70-54720 SYL**	209-70-54240	209-70-74140	PC650, PC650LC-3, PC650SE, PC750, PC750SE
-	-	-	-	-	*21N-72-14290 SYL*	21N-72-14330	21N-70-74140	PC-1000LC-1, PC1000SE-1, PC-1100SP, PC-1200
-	-	-	-	-	*21T-72-74310 SYL*	21T-72-74320	21T-70-74160	PC-1600, PC-1600-1

Excavator Teeth: VIP

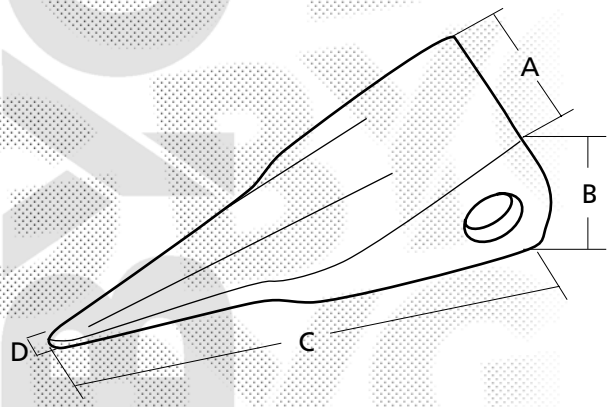


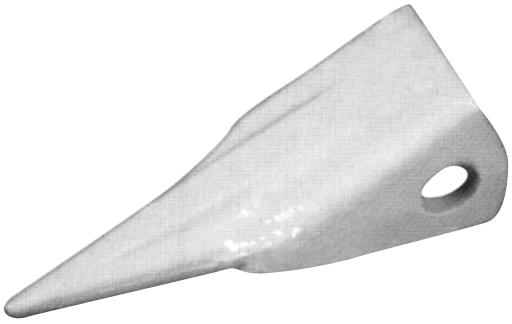
Back View



mm. A	B	C	KG lb				
-	-	-	-	205-70-19570 VIP	09244-02496	205-70-68141 205-939-7120	PC100, PC100L-5,PC120-5, PC130, PC200LC-5, PW210-1
-	-	-	-	207-70-14151 VIP	09244-02516	207-70-14142 207-939-3120	PC220, PC220LC-5, PC240LC-NLC, PC280LC-3, PC290 LC/NLC, PC300, PC300LC-5, PC340 LC/NLC, PC360LC-3, PC-380 LC
-	-	-	-	207-70-14152 VIP	09244-03036	208-70-14143	PC400, PC400LC-5, PC450, PC450LC
-	-	-	-	209-70-54720 VIP	209-70-54240	209-70-74140	PC650, PC650LC-3, PC650SE, PC750, PC750SE
185 *7,28"*	260 *10,24"*	516 *20,31"*	35,50 *78,26*	**21N-72-14290 VIP**	21N-72-14330	21N-70-74140	PC-1000LC-1, PC1000SE-1, PC-1100SP, PC-1200
-	-	-	-	-	21T-72-74320	21T-70-74160	PC-1600, PC-1600-1

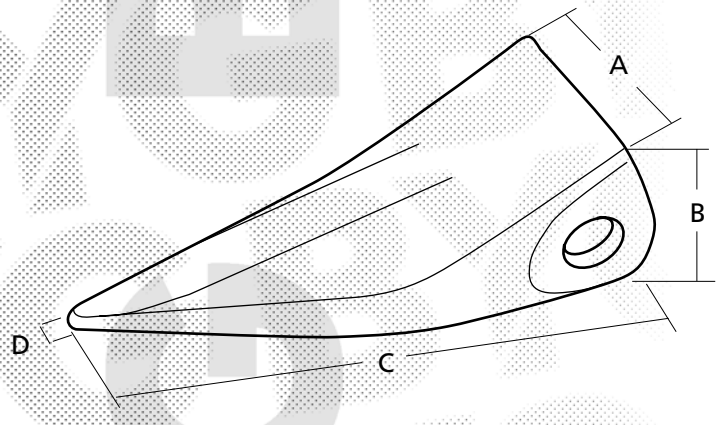
Excavator Teeth: Long

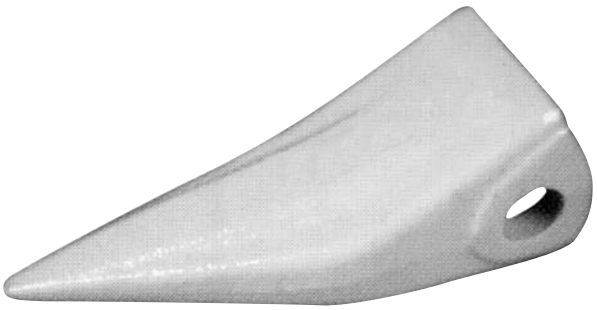




mm. A	B	C	D	KG lb					
98 *3,86"*	105 *4,13"*	263 *10,35"*	14 *0,55"*	- -	*20Y-70-K4060*	20Y-70-K4150	09244-02496	205-70-68141 205-939-7120	PC100, PC100L-5,PC120-5, PC130, PC200LC-5, PW210-1
120 *4,72"*	114 *4,49"*	285 *11,22"*	16 *0,63"*	- -	*20Y-70-K4070*	20Y-70-K4160	09244-02516	207-70-14142 207-939-3120	PC220, PC220LC-5, PC240LC-NLC, PC280LC-3, PC290 LC/NLC, PC300, PC300LC-5, PC340 LC/NLC PC360LC-3, PC-380 LC
151 *5,94"*	121 *4,76"*	320 *12,60"*	22 *0,87"*	- -	*208-70-K1340*	208-70-K1490	09244-03036	208-70-14143	PC400, PC400LC-5, PC450, PC450LC
-	-	-	-	-	*209-70-54730*	-	209-70-54240	209-70-74140	PC650, PC650LC-3, PC650SE, PC750, PC750SE

Excavator Teeth: Corner





mm. A	B	C	D	KG lb					
104 *4,09"*	105 *4,13"*	266 *10,47"*	14 *0,55"*	-	*20Y-70-K4150*	20Y-70-K4060	09244-02496	205-70-68141 205-939-7120	PC100L-5, PC120-5, PC130, PC200LC-5, PW210-1
126 *4,96"*	114 *4,49"*	289 *11,38"*	16 *0,63"*	-	*20Y-70-K4160*	20Y-70-K4070	09244-02516	207-70-14142 207-939-3120	PC300, LC-5, PC360, LC-3
160 *6,30"*	121 *4,76"*	325 *12,80"*	22 *0,87"*	-	*208-70-K1490*	208-70-K1340	09244-03036	208-70-14143	PC400, LC-5

Excavator Adapter

Fig. 1

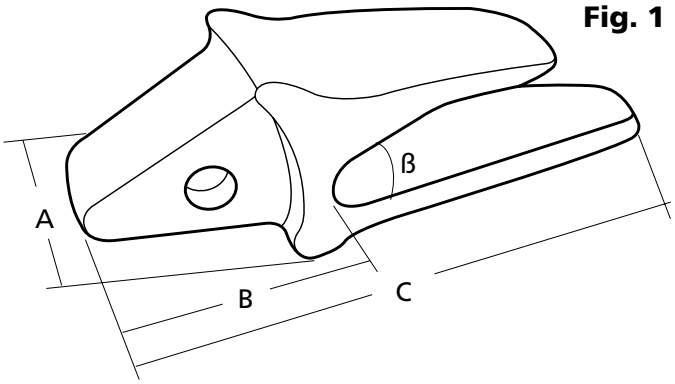


Fig. 2

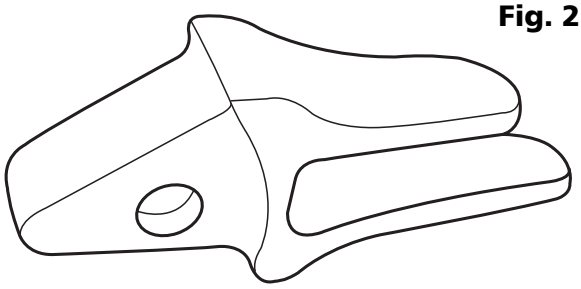
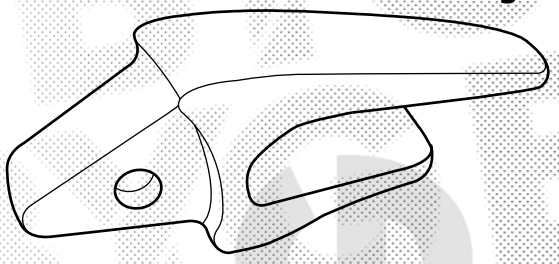


Fig. 3



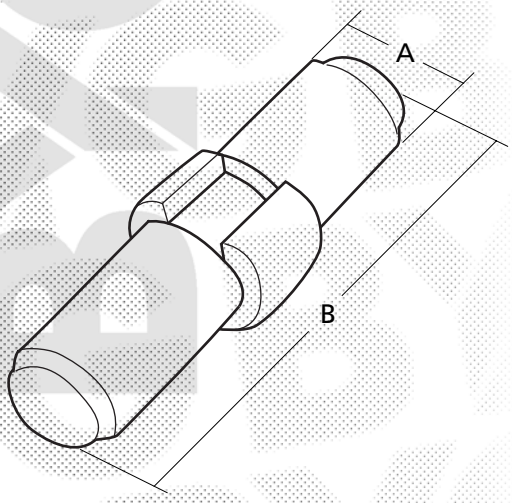
mm. A	B	C	ß		KG lb		Fig.			Type	
89,5 *3,52"*	122 *4,80"*	300 *11,81"*	23°	30 - 32 *1,18" - 1,26"*	7,20 *15,87*	**205-70-68141**	**1**	09244-02496	205-70-19570 205-70-19570 RE 205-70-19570 SYL 205-70-19570 VIP 20Y-70-K4060 20Y-70-K4150	STD RE SYL VIP Point Corner	PC100, PC100L-5, PC120-5, PC130, PC200LC-5, PW210-1
					7,30 *16,09*	**205-939-7120**	**2**				
112,5 *4,43"*	136 *5,35"*	364 *14,33"*	24°	40 *1,57"*	14,60 *32,19*	**207-70-14142**	**1**	09244-02516	207-70-14151 207-70-14151 RE 207-70-14151 SYL 207-70-14151 VIP 20Y-70-K4070 20Y-70-K4160	STD RE SYL VIP Point Corner	PC220, PC220LC-5, PC240LC-NLC, PC280LC-3, PC290 LC/NLC, PC300, PC300LC-5, PC340 LC/NLC, PC360LC-3, PC-380 LC
					14,30 *31,53*	**207-939-3120**	**2**				
140 *5,51"*	160 *6,30"*	410 *16,14"*	30°	50 *1,97"*	21,57 *47,55*	**208-70-14143**	**1**	09244-03036	208-70-14152 208-70-14152 RE 208-70-14152 SYL 207-70-14152 VIP 208-70-K1340 208-70-K1490	STD RE SYL VIP Point Corner	PC400, PC400LC-5, PC450, PC450LC
170 *6,69"*	228 *8,98"*	565 *22,24"*	30°	80 *3,15"*	49,30 *108,69*	**209-70-74140**	**3**	209-70-54240	209-70-54720 209-70-54720 RE 209-70-54720 SYL 209-70-54720 VIP 209-70-54730	STD RE SYL VIP Point	PC650, PC650LC-3, PC650SE, PC750, PC750SE
176 *6,93"*	260 *10,24"*	700 *27,56"*	32°	80 *3,15"*	75,50 *166,45*	**21N-70-14140**	**1**	21N-72-14330	21N-72-14290 21N-72-14290 RE 21N-72-14290 SYL 21N-72-14290 VIP	STD RE SYL VIP	PC-1000LC-1, PC1000SE-1, PC-1100SP, PC-1200
-	-	-	-	-	-	*21T-70-74160*	**-**	21T-72-74320	21T-72-74320 21T-72-74320 RE 21T-72-74320 SYL	STD RE SYL	PC-1600 PC-1600-1

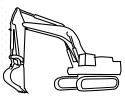
Equivalent OEM Part Numbers / Teeth and Adapters

Ref. Komatsu	Ref. BYG
209-70-54210	209-70-54720
205-70-68260	205-70-19570 RE
207-70-14280	207-70-14151 RE
208-70-14270	208-70-14152 RE
209-70-54710	209-70-54720 RE
21N-72-14410 21N-72-14420	21N-72-14290 RE
20Y-70-K4030	205-70-19570 SYL
207-70-K2530	207-70-14151 SYL
208-70-K1420 208-70-34440	208-70-14152 SYL
209-70-54720	209-70-54720 SYL
21N-72-14420	21N-72-14290 SYL

Straight blade	Blade with bevel
205-939-7120	**205-70-68140**
207-939-3120	**207-70-14142**
208-939-3120	**208-70-14143**
-	**209-70-74140**
-	**21N-70-14140**

Fasteners



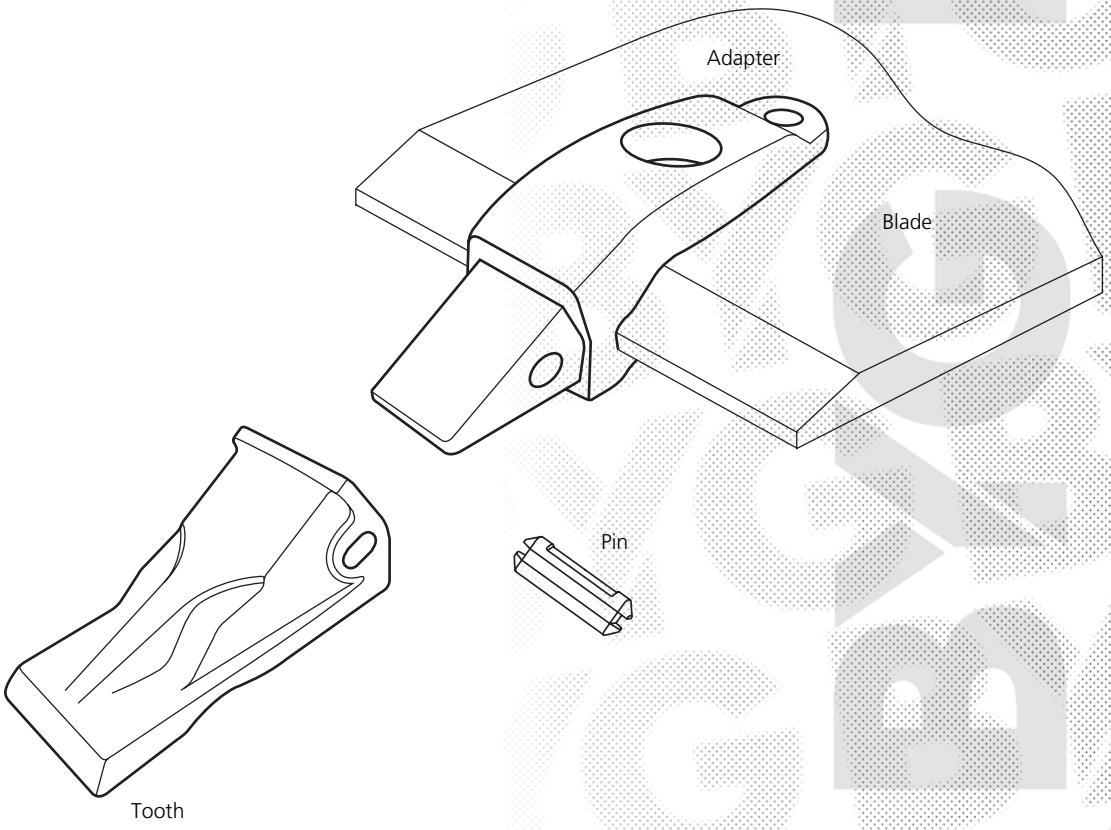
mm. A	mm. B	BYG Ref.	OEM	
25 *0,98"*	97 *3,82"*	**09244-02496**	205-70-19610 205-70-69130	PC100, PC100L-5, PC120-5, PC130, PC200LC-5, PW210-1
25 *0,98"*	119 *4,69"*	**09244-02516**	175-78-21810	PC220, PC220LC-5, PC240LC-NLC, PC280LC-3, PC290 LC/NLC, PC300, PC300LC-5, PC340 LC/NLC PC360LC-3, PC-380 LC
25 *0,98"*	145 *5,71"*	**09244-03036**	198-79-11320 A09-78-11730 426-847-1130	PC400, PC400LC-5, PC450, PC450LC
36 *1,42"*	165 *6,50"*	**209-70-54240**		PC650, PC650LC-3, PC650SE, PC750, PC750SE
40 *1,57"*	165 *6,50"*	**21N-72-14330**	21N-70-00060	PC-1000LC-1 PC1000SE-1, PC-1100SP, PC-1200
50 *1,97"*	183 *7,20"*	**21T-72-74320**	-	PC-1600, PC-1600-1

DRP

Fiat

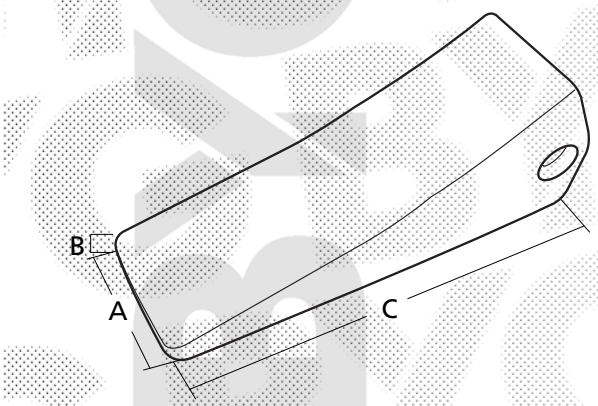
Side Pin Teeth

Bold ref. number, product available
Other ref. number please consult.



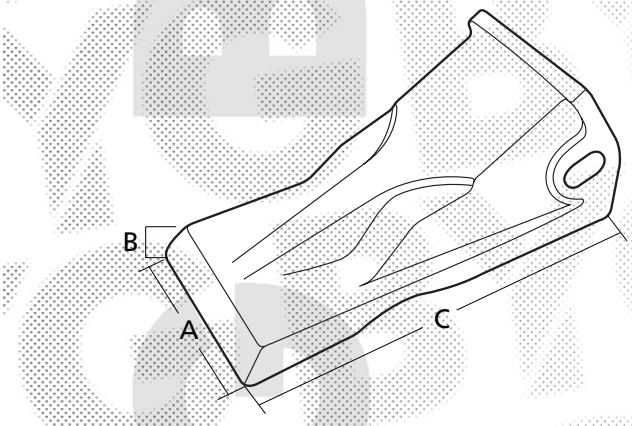
Monoblock	Light	Heavy	Adapter		
76020277	**240-S** 76026616 73070461 73062624	**76026615** 73020853 76028587	*79084422*	545B, 745B, FR14, FR15, FR160, 260, 261, 263, FL9, FL10, FL145	**24**
79089168 **8290419**			*79069596*		
8288589 *76015653*	**252-S** 76026620 73115404 70684378	**76026619** 79073814 76028588	*79069599*	745C, FR20, FR220, FL145B, C, FL12, FL14, FL175, 260, 261, 263	**25**
76015672	**272-S** 76079206 76026622	**76026621** 79070453 76028589	*79069603*	745C, FR20, FR220, FL14B, C, FL12, FL14, FL175, 260, 261, 263	**27**
Pag. 3	Pag. 2	Pag. 2	-		

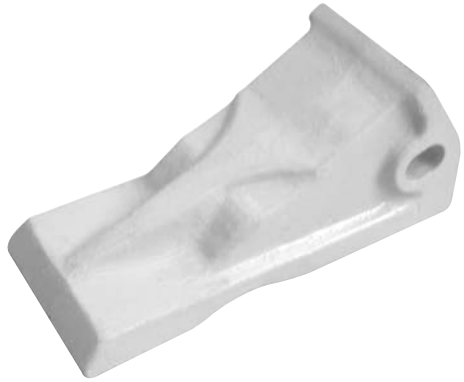
Light Teeth



mm. A	B	C	KG lb				
56 *2,20"*	6 *0,24"*	183 *7,20"*	1,75 *3,86*	**240-S** 76026616 73070461 73062624	76028389	545B, 745B, FR14, FR15, FR160, 260, 261, 263, FL9, FL10, FL145	**24**
69 *2,72"*	3 *0,12"*	190 *7,48"*	2,20 *4,85*	**252-S** 76026620 73115404 70684378	79073815	745C, FR20, FR220, FL145B, C, FL12, FL14, FL175, 260, 261, 263	**25**
56 *2,20"*	6 *0,24"*	183 *7,20"*	3,13 *6,90*	**272-S** 76079206 76026622	76028388	745C, FR20, FR220, FL14B, C, FL12, FL14, FL175, 260, 261, 263	**27**

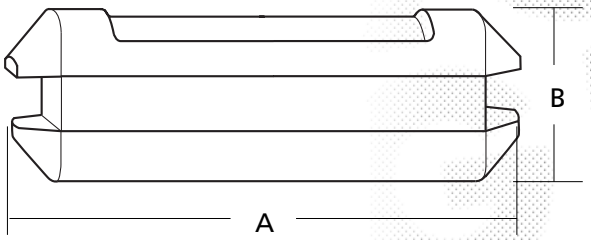
Heavy Teeth





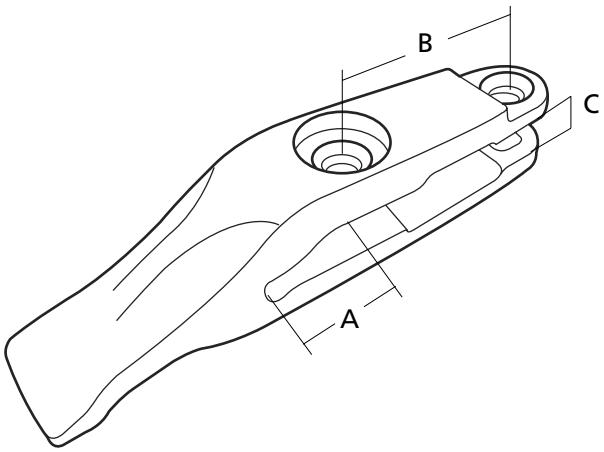
A	B	C	KG lb				
79 *3,11"*	6 *0,24"*	165 *6,50"*	2,47 *5,45*	**76026615** 73020853 76028587	76028389	545B, 745B, FR14, FR15, FR160, 260, 261, 263, FL9, FL10, FL145	**24**
90 *3,54"*	8 *0,31"*	180 *7,09"*	3,60 *7,94*	**76026619** 79073814 76028588	79073815	745C, FR20, FR220, FL145B, C, FL12, FL14, FL175, 260, 261, 263	**25**
110 *4,33"*	10 *0,39"*	194 *7,64"*	4,90 *10,80*	**76026621** 79070453 76028589	76028388	745C, FR20, FR220, FL14B, C, FL12, FL14, FL175, 260, 261, 263	**27**

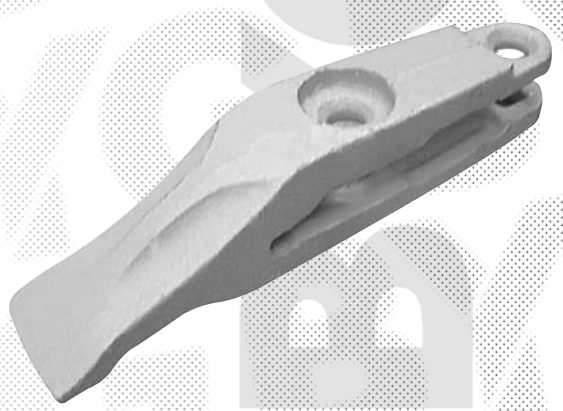
Pin



mm. A	B			
69 *2,72"*	22 *0,87"*	**76028389**	545B, 645B, FR70, FR90, W90, W110 FR100, FR130, FL7, 161	**24**
79 *3,11"*	22 *0,87"*	**79073815**	545B, 745B, FR14, FR15, FR160, 260, 261 263, FL9, FL10, FL145	**25**
97 *3,82"*	23 *0,91"*	**76028388**	745C, FR20, FR220, FL148, C, FL12, FL14, 260, 161, 263	**27**

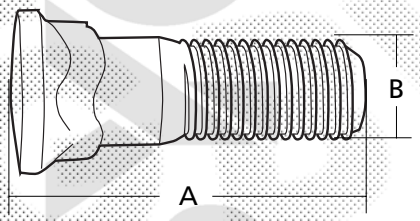
Bolt-On Monoblock Teeth

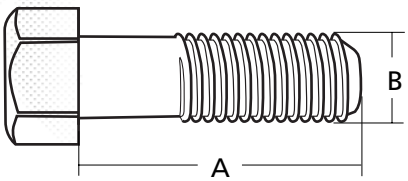


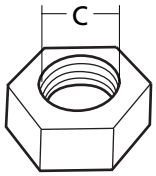


A	B	C	KG lb					
60 *2,36"*	65 *2,56"*	20 *0,79"*	3,00 *6,61*	**8282253**	S-0947	-	NP-117	FL4
65 *2,56"*	65 *2,56"*	16,5 *0,65"*	- -	*76020276*	S-1366	-	NP-117	FL4
63 *2,48"*	110 *4,33"*	21 *0,83"*	3,78 *8,33*	**76020277**	-	PB-510	NP-158	FL7, FR7, FR9-C,
80 *3,15"*	132 *5,20"*	27 *1,06"*	- -	*08281314*	S-1625	-	NP-158	FL6, FL9
73 *2,87"*	120 *4,72"*	26 *1,02"*	7,25 *15,98*	**79089168**	-	PB-328	NP-190	FR10, FR12, FR130
85 *3,35"*	120 *4,72"*	26 *1,02"*	7,80 *17,20*	**8290419**	S-4609	-	NP-190	FL10-B
90 *3,54"*	150 *5,91"*	32 *1,26"*	9,00 *19,84*	**8280894**	S-8537	-	NP-158	FL8, FL10, FL12, FL14
90 *3,54"*	145 *5,71"*	33 *1,30"*	9,60 *21,16*	**8288589**	S-4627	-	NP-222	FL14-B, FL14-C
83 *3,27"*	145 *5,71"*	32 *1,26"*	- -	*76015653*	-	PB-740	NP-222	FR15, FR160
98 *3,86"*	150 *5,91"*	41 *1,61"*	- -	*76015672*	-	PB-946	NP-100	FR20, FR220

Fasteners

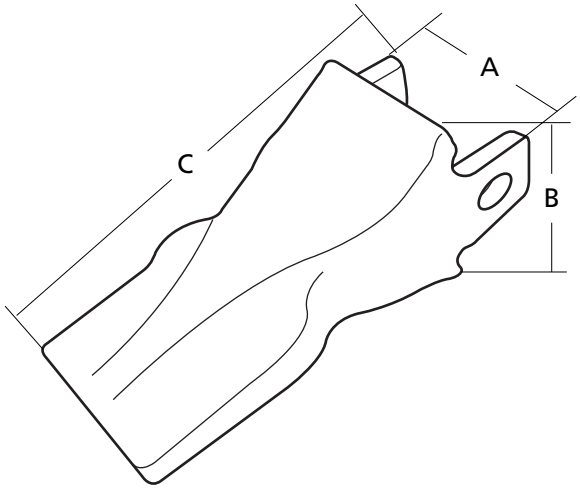






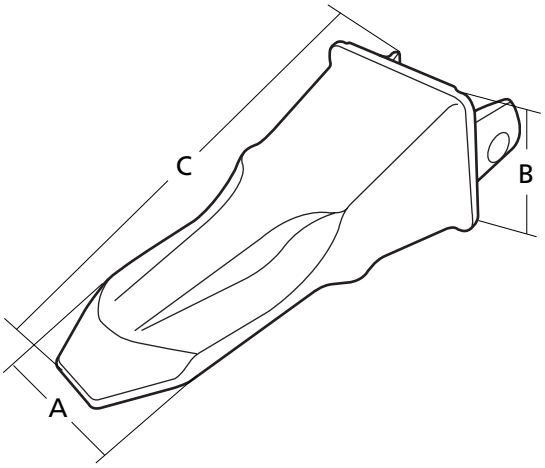
A	B	Thread	Original	Ref. BYG	Original	Ref. BYG	C	Original	Ref. BYG
3"	3/4"	10	**4F-0138**	**PB-328**	**-**	**-**	3/4"	**2J-3506**	**NP-190**
2-1/4"	5/8"	11	**3F-5108**	**PB-510**	**-**	**-**	5/8"	**4K-0367**	**NP-158**
3-1/2"	7/8"	9	**2J-2548**	**PB-740**	**-**	**-**	7/8"	**2J-3505**	**NP-222**
4"	1"	8	**8J-2928**	**PB-946**	**-**	**-**	1"	**2J-3507**	**NP-100**
2-1/4"	1/2"	-	**-**	**-**	**2B-0947**	**S-0947**	1/2"	**2J-3506**	**NP-117**
2-1/2"	1/2"	-	**-**	**-**	**9S-1366**	**S-1366**			
2-1/2"	5/8"	-	**-**	**-**	**0S-1625**	**S-1625**	5/8"	**4K-0367**	**NP-158**
3"	3/4"	-	**-**	**-**	**1D-4609**	**S-4609**	3/4"	**2J-3506**	**NP-190**
2-3/4"	5/8"	-	**-**	**-**	**1A-8537**	**S-8537**	5/8"	**4K-0367**	**NP-158**

Teeth Old System



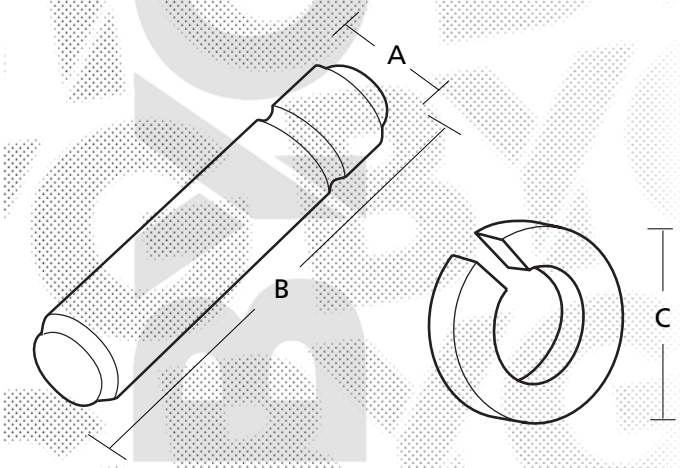
mm. A	B	C		KG lb						
- -	- -	- -	- -	- -	*71407828*	2MF-22P	2MF-21/22R	71407829	FH-120, EX-135, FH-200, EX-215	**22**
- -	- -	- -	- -	- -	*71417992*	2MF-24P	2MF-24R	71417993	FH-200, EX-215	**24**
111 *4,37"*	116 *4,57"*	316 *12,44"*	40 *1,57"*	7,10 *15,65*	**71421565**	2MF-26P	2MF-26/28R	71421566	FH-220, EX-240, FH-270, FH-300, FH-330	**26**
- -	- -	- -	- -	- -	*71432195*	2MF-28P	2MF-26/28R	71432196	FH-400, EX-450	**28**

Teeth Modern System



mm. A	B	C		KG lb						
81 *3,19"*	77 *3,03"*	221 *8,70"*	30 *1,18"*	2,80 *6,17*	**71407828 RE**	2MF-22P	2MF-21/22R	71407829	FH-120, EX-135, FH-200, EX-215	**22**
100 *3,94"*	95 *3,74"*	272 *10,71"*	35 *1,38"*	5,30 *11,68*	**71417992 RE**	2MF-24P	2MF-24R	71417993	FH-200, EX-215	**24**
116 *4,57"*	111 *4,37"*	316 *12,44"*	40 *1,57"*	8,60 *18,96*	**71421565 RE**	2MF-26P	2MF-26/28R	71421566	FH-220, EX-240, FH-270, FH-300, FH-330	**26**
- -	- -	- -	45 *1,77"*	- -	*71432195 RE*	2MF-28P	2MF-26/28R	71432196	FH-400, EX-450	**28**

Pin and Washer



A	B	C			
10 *0,39"*	85 *3,35"*	18 *0,71"*	**2MF-22P**	**2MF-21/22R**	**22**
14 *0,55"*	102 *4,02"*	27 *1,06"*	**2MF-24P**	**2MF-24R**	**24**
19 *0,75"*	122 *4,80"*	32 *1,26"*	**2MF-26P**	**2MF-26/28R**	**26**
19 *0,75"*	135 *5,31"*	32 *1,26"*	**2MF-28P**	**2MF-26/28R**	**28**

Cross References Between Brands: Teeth, Pins and Washers

Teeth Ref. BYG	Fiat Old Model	Fiat New Model	Esco	Feurst ®	
71407828	*71407828*	*71407828*	*022SL*	*22LTR*	**22**
71417992	*71417992*	*71419992*	*024SL*	*22LTR*	**24**
71421565	*71421565*	*71421565*	*026SL*	*22LTR*	**26**
71432195	*71432195*	*17432195*	*028SL*	*22LTR*	**28**

Teeth Ref. BYG	Fixmet®	Esco	Feurst ®	Fiat Old	Fiat Modern	
71407828 RE	MF-22 *	022*	22*	71467241	71407828	**22**
71417992 RE	MF-24 *	024*	24*	71465120	71419992	**24**
71421565 RE	MF-26 *	026*	26*	71464186	71421565	**26**
71432195 RE	MF-28 *	028*	28*	71468101	71432195	**28**

Pins Ref. BYG	Pins Ref. Fiat Old	Pins Ref. Fiat Modern	Esco	Feurst ®	Fixmet®	
2MF-22P	71467242	71407832	022PN	22CL	2MF-22P	**22**
2MF-24P	71465124	71417996	024PN	24CL	2MF-22P	**24**
2MF-26P	71464190	71421569	026PN	26CL	2MF-22P	**26**
2MF-28P	71468105	71432199	028PN	28CL	2MF-22P	**28**

Washers Ref. BYG	Fiat Old	Fiat Moderns	Esco	Feurst ®	Fixmet ®	
2MF-21 / 22R	71467243	71407833	022LK	22RD	2MF-21 / 22R	**22**
2MF-24R	71465125	71417997	024LK	24RD	2MF-24R	**24**
2MF-26 / 28R	71464191	71421570	026-28LK	26RD	2MF-26 / 28R	**26**
2MF-26 / 28R	71464191	71432200	026-28LK	28RD	2MF-26 / 28R	**28**

* The reference numbers, identify the size and the letters, the design.

® All symbols, names and descriptions are only used for references purposes and it is not implied that any listed parts is the product of th manufacturers.

DRP

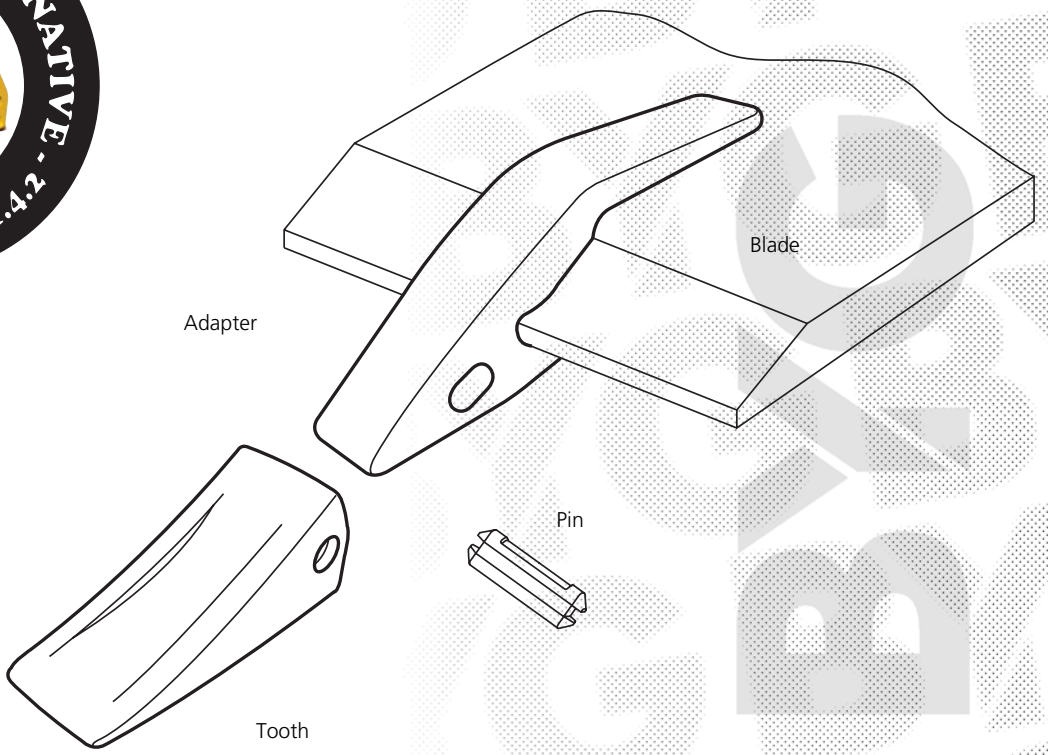
H&L

Side Pin Teeth and Adapters

Bold ref. number, product available

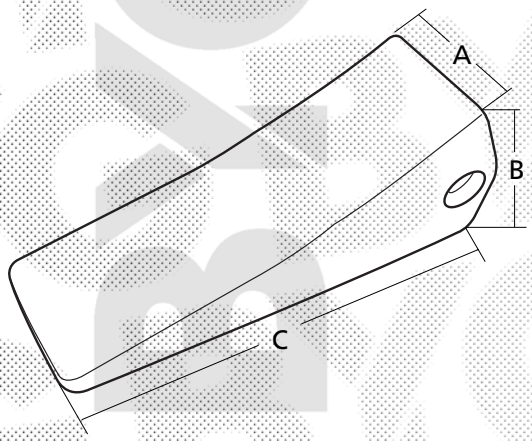
Other ref. number please consult.

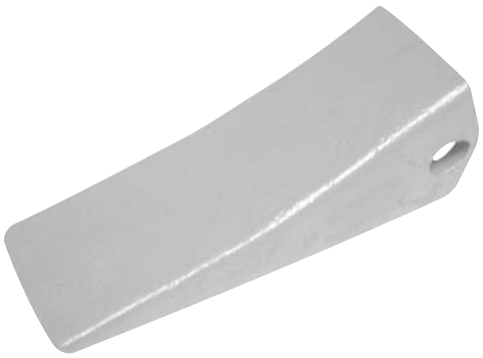
Futura Alternative



Light	Star	Standard	Tiger Long	Twin Tlger	Two Strap	Inverted Two Strap	
230-S	**230-ST**	**23-HXL**	**23-TL**	**23-WTL**	**2740-23**	**53103209**	**23**
240-S	-	*24-HXL*	*23-TL*	*23-WTL*	*3000-24*	*2740-24*	**24**
252-S	-	*25-HXL*	*25-TL*	*25-WTL*	*3000-25*	*2740-25*	**25**
272-S	-	-	-	-	-	-	**27**
Pag. 9.2	Pag. 9.2	Pag. 9.3	Pag. 9.3	Pag. 9.4	Pag. 9.4	Pag. 9.5	

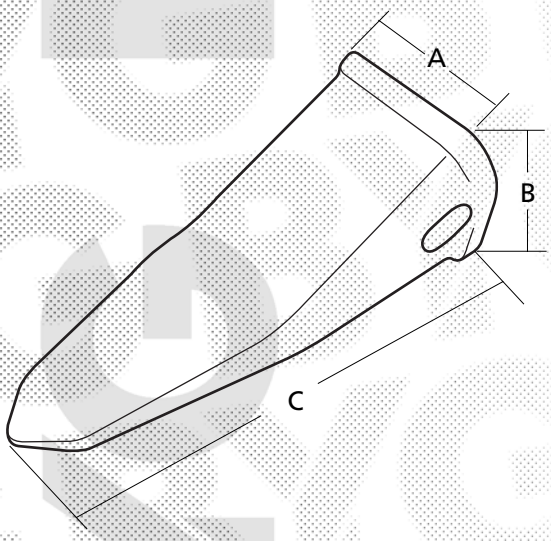
Side Pin Teeth: Light





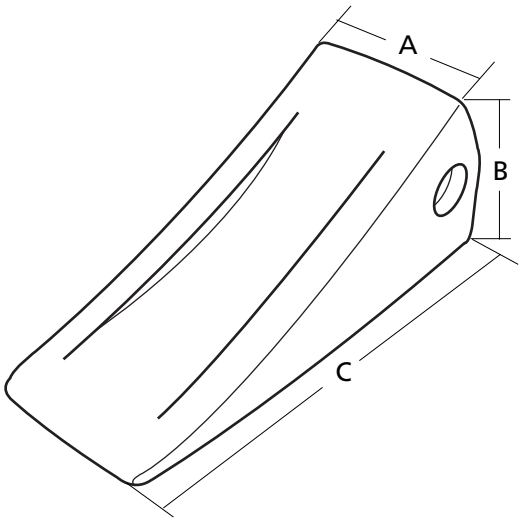
mm. A	B	C	KG lb					
51 *2,01"*	56 *2,20"*	154 *6,06"*	1,20 *2,65*	**230-S**	23-PN	834-23	2740-23	**23**
56 *2,20"*	60 *2,36"*	183 *7,20"*	1,70 *3,75*	**240-S**	24-PN	3000-24	2740-24	**24**
69 *2,72"*	75 *2,95"*	190 *7,48"*	2,20 *4,85*	**252-S**	25-PN	3000-25	2740-25	**25**
95 *3,74"*	90 *3,54"*	193 *7,60"*	3,13 *6,90*	**272-S**	27-PN	3000-27	2740-27	**27**

Side Pin Teeth: Star



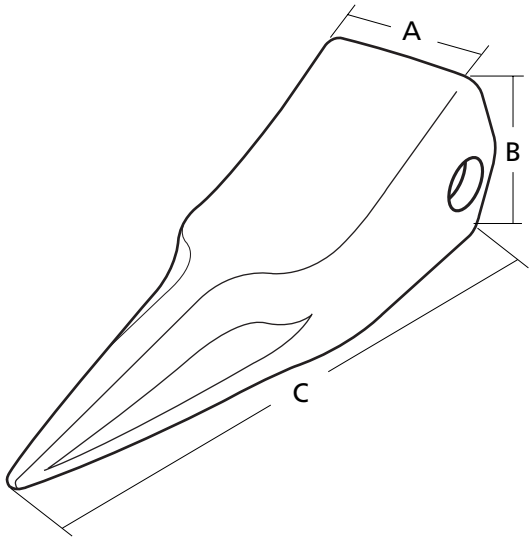
mm. A	B	C	KG lb					
57 *2,24"*	59 *2,32"*	152 *5,98"*	1,10 *2,43*	**230-ST**	23-PN	834-23	2740-23	**23**

Side Pin Teeth: Standard



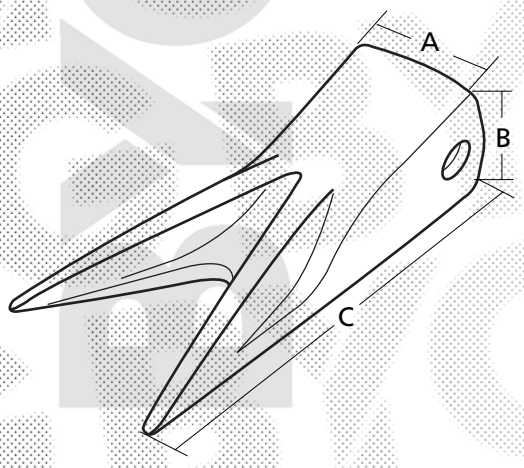
A	B	C	KG lb					
	mm.							
54 *2,13"*	63 *2,48"*	142 *5,59"*	1,22 *2,69*	**23-HXL**	23-PN	834-23	2740-23	**23**
-	-	-	-	*24-HXL*	24-PN	3000-24	2740-24	**24**
-	-	-	-	*25-HXL*	25-PN	3000-25	2740-25	**25**

Side Pin Teeth: Tiger Long



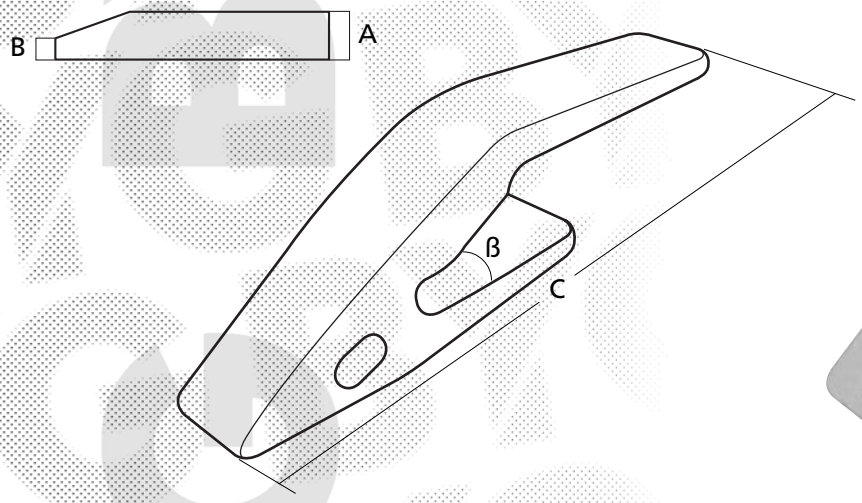
A	B	C	KG lb					
	mm.							
54 *2,13"*	63 *2,48"*	142 *5,59"*	0,98 *2,15*	**23-TL**	23-PN	834-23	2740-23	**23**
-	-	-	-	*24-TL*	24-PN	3000-24	2740-24	**24**
-	-	-	-	*25-TL*	25-PN	3000-25	2740-25	**25**

Side Pin Teeth: Twin Tiger



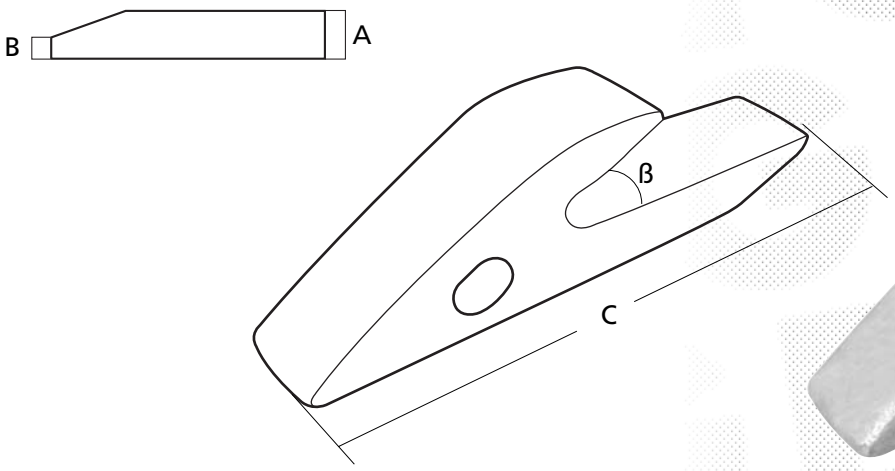
mm. A	B	C	KG lb					
54 *2,13"*	63 *2,48"*	142 *5,59"*	1,15 *2,54*	**23-WTL**	23-PN	834-24	2740-23	**23**
-	-	-	-	*24-WTL*	24-PN	3000-24	2740-24	**24**
-	-	-	-	*24-WTL*	25-PN	3000-25	2740-25	**25**

Excavator Adapter



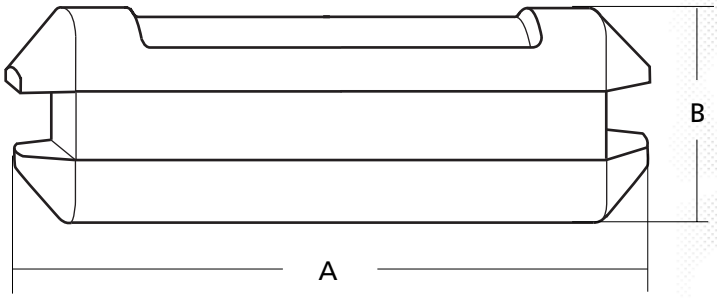
mm. A	B	C	ß	KG lb									
16 *0,63"*	6 *0,24"*												
19 *0,75"*	6 *0,24"*	193 *7,60"*	23°	1,70 *3,75*	**2740-23**	23-PN	230-S	230-ST	23-HXL	23-TL	23-WTL	**23**
22 *0,87"*	8 *0,31"*											
25 *0,98"*	10 *0,39"*											

Excavator Adapter



mm. A	B	C	ß	KG lb								
16 *0,63"*	6 *0,24"*											
19 *0,75"*	6 *0,24"*	194 *7,64"*	23°	1,70 *3,75*	**834-23**	23-PN	230-S	230-ST	23-HXL	23-TL	23-WTL	**23**
22 *0,87"*	8 *0,31"*											
25 *0,98"*	10 *0,39"*											

H&L Pin



mm. A	B		
54 *2,13"*	19 *0,75"*	**23-PN**	**23**
69 *2,72"*	22,5 *0,89"*	*24-PN*	**24**
70 *2,76"*	22,5 *0,89"*	*25-PN*	**25**
96 *3,78"*	22,5 *0,89"*	*27-PN*	**27**

Equivalent OEM Part Numbers

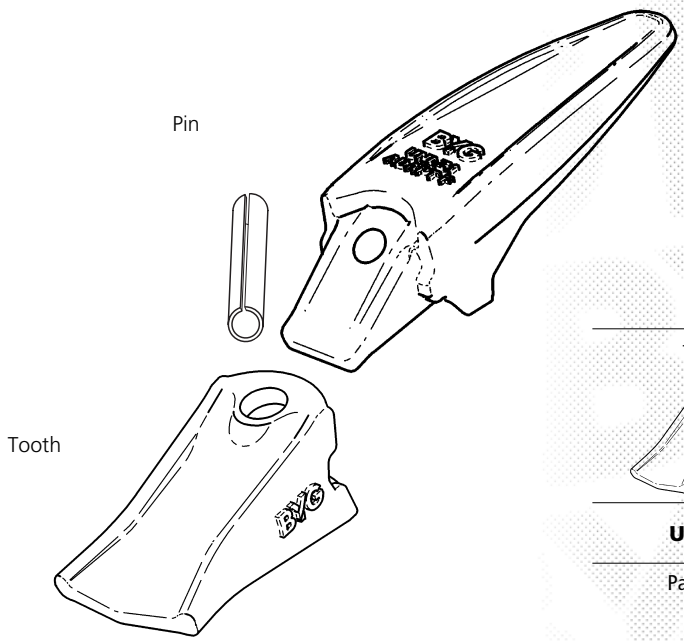
Coronas	Esco Helilok	Esco VIP	Fiat	Pengo	Hensley	H&L	Ref. BYG
-	-	-	-	2300	230-HX	155 / 175	230-S
-	19	18	76026619	2400	X-156 X-160 X-162	175	240-S
2510	21	25	76026620	2500	X-220 X-225 251-HX	195	252-S

DRP

Uni-Z

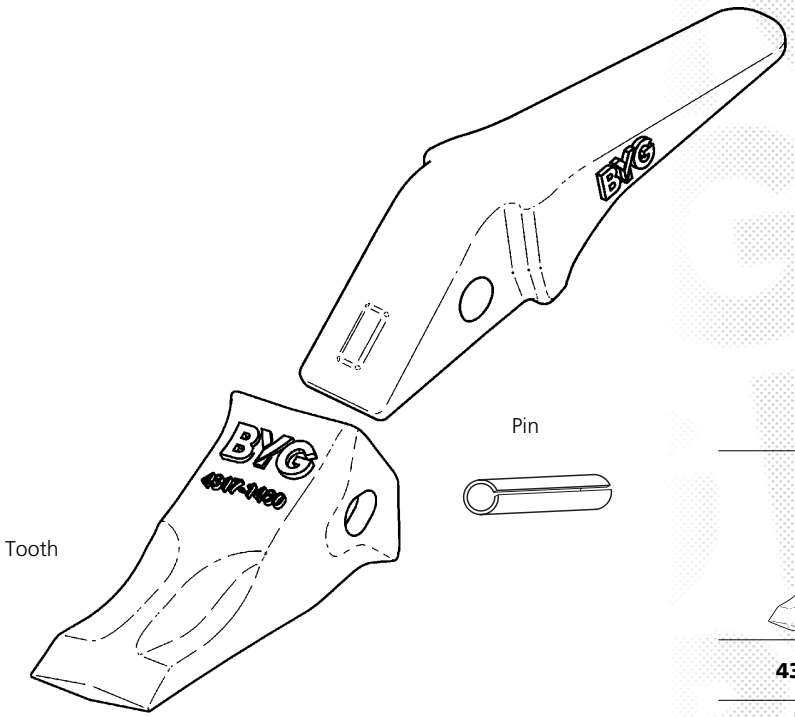
Teeth and Adapter Vertical System

Bold ref. number, product available
Other ref. number please consult.



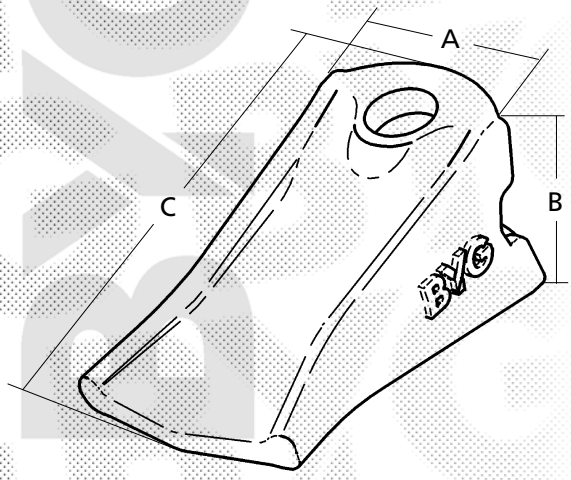
Tooth	Adapter	
UNI-Z1	**UNI-Z1 ADAPT F**	I
Pag. 10.2	Pag. 10.2	

Teeth and Adapter Side Pin Teeth



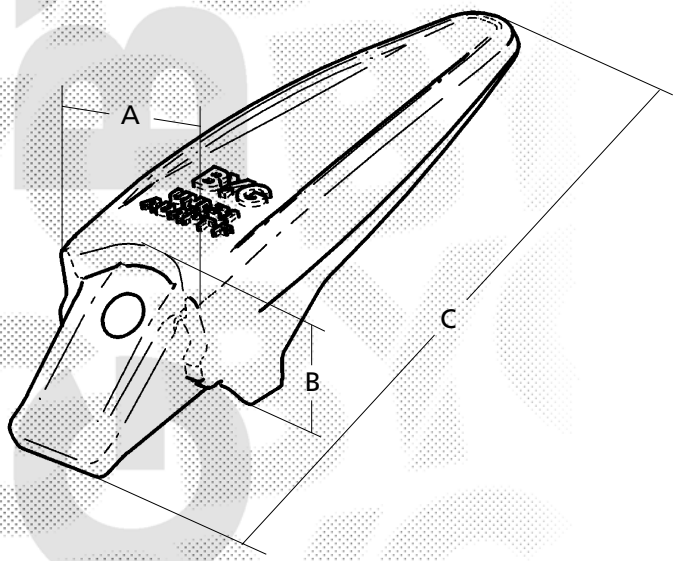
Tooth	Adapter	
4317-1460	**4317-1480**	I
Pag. 10.3	Pag. 10.3	

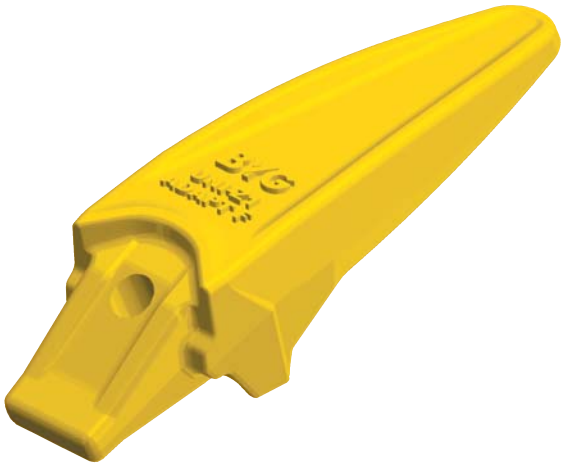
Tooth



mm. A	B	C	KG lb				
58 *2,28"*	52 *2,05"*	124 *4,88"*	1,05 *2,31*	**UNI-Z1**	UNI-Z1 ADAPT F	PIN-TYPE1	I

Adapter



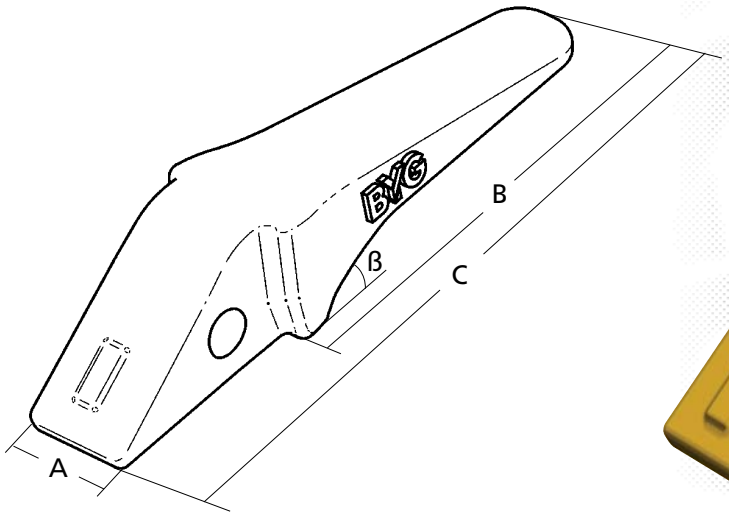


mm. A	B	C	KG lb				
61 *2,40"*	55 *2,17"*	216 *8,50"*	1,61 *3,55*	**UNI-Z1 ADAPT F**	UNI-Z1	PIN-TYPE1	I

Tooth

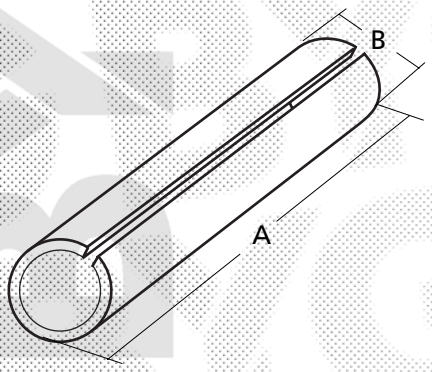
mm. A	B	C	KG lb				
56 *2,20"*	99 *3,90"*	144 *5,67"*	1,10 *2,43*	**4317-1460**	4317-1480	PIN-TYPE1	I

Adapter



mm. A	B	C	ß	KG lb				
36 *1,42"*	120 *4,72"*	200 *7,87"*	22°	1,52 *3,36*	**4317-1480**	4317-1460	PIN-TYPE1	I

Pin



mm.		
A	B	
50 *1,97"*	14,5 *0,57"*	**PIN-TYPE1**

DRP

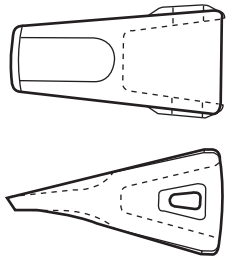
O&K

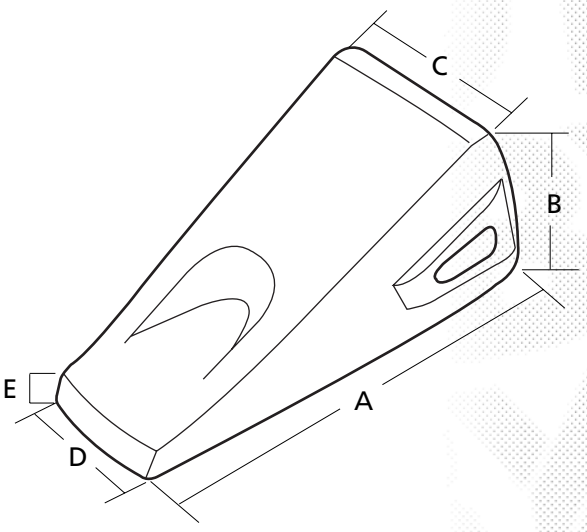
Bold ref. number, product available

Other ref. number please consult.

Teeth

O&K Teeth





mm. A	B	C	D	E	KG. lb		
290 *11,42"*	140 *5,51"*	170 *6,69"*	100 *3,94"*	25 *0,98"*	17,64 *38,89*	**1752193**	RH30
356 *14,02"*	183 *7,20"*	205 *8,07"*	117 *4,61"*	27 *1,06"*	28,90 *63,71*	*1752182*	RH40
441 *17,36"*	214 *8,43"*	241 *9,49"*	138 *5,43"*	27 *1,06"*	43,50 *95,90*	*937759*	RH75C
490 *19,29"*	250 *9,84"*	245 *9,65"*	160 *6,30"*	35 *1,38"*	70,00 *154,32*	**1752860**	RH90
476 *18,74"*	270 *10,63"*	279 *10,98"*	191 *7,52"*	30 *1,18"*	82,55 *181,99*	**1533708**	RH120C

DRP

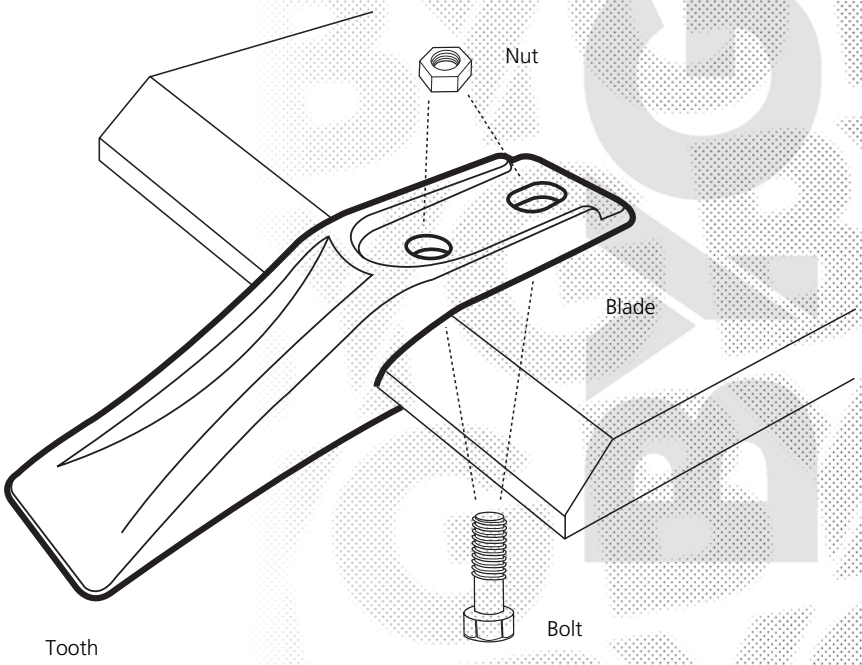
Mini Excavator

Teeth

Bold ref. number, product available

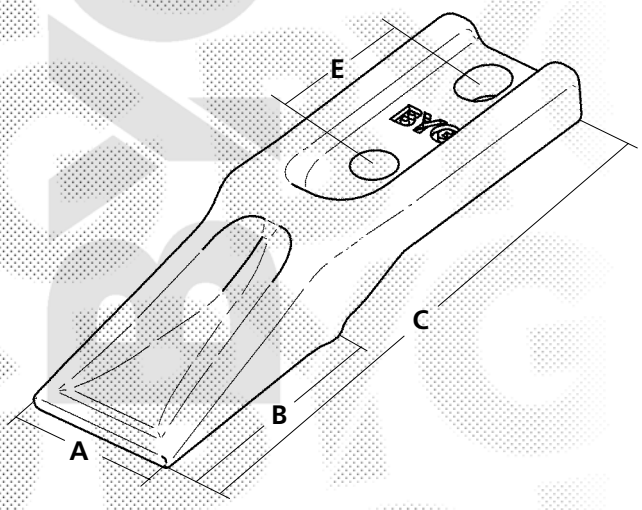
Other ref. number please consult.

Futura Alternative



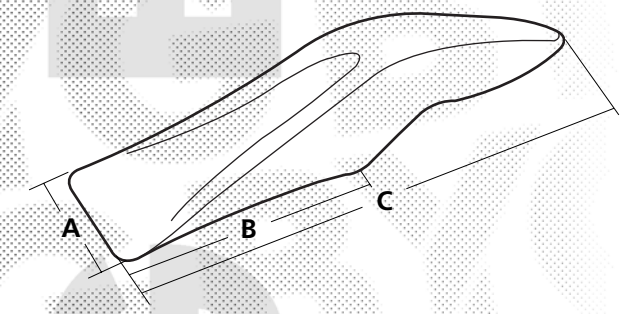
Mini-01	**Mini-00**	**17-7**	-	-	16
Mini-02	-	-	-	-	
Mini-03	-	-	-	-	20
-	-	-	**HM-054B**	-	20-22
-	-	-	-	**1462201M1**	26
Pag. 12.2	Pag. 12.2	Pag. 12.3	Pag. 12.3	Pag. 12.4	

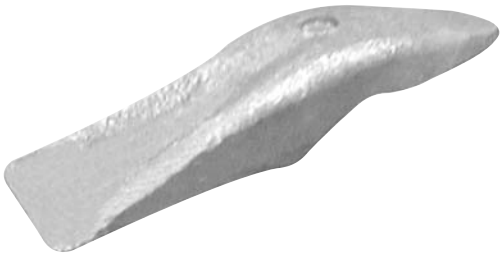
Bolt-On Mini Excavator Teeth



mm. A	B	C	D	E		KG lb			
54 *2,13"*	86 *3,39"*	192 *7,56"*	13 *0,51"*	40 - 45 *1,57" 1,77"*	16 *0,63"*	1,20 *2,65*	**MINI-01 ***	PB-202	NP-117
61 *2,40"*	97 *3,82"*	224 *8,82"*	16 *0,63"*	55 - 60 *2,17" 2,36"*	16 *0,63"*	1,40 *3,09*	**MINI-02 ***	PB-202	NP-117
56 *2,20"*	95 *3,74"*	241 *9,49"*	18 *0,71"*	84 *3,31"*	20 *0,79"*	2,50 *5,51*	**MINI-03**	PB-502	NP-158

Weld-On Mini Excavator Teeth

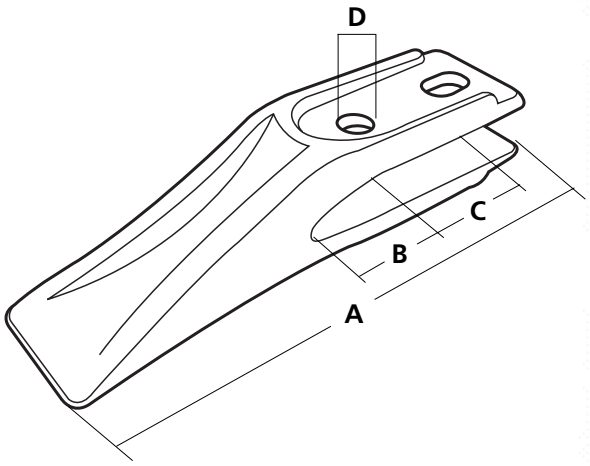




mm. A	B	C		KG lb	
50 *1,97"*	85 *3,35"*	180 *7,09"*	16 *0,63"*	1,00 *2,20*	**Mini-00**

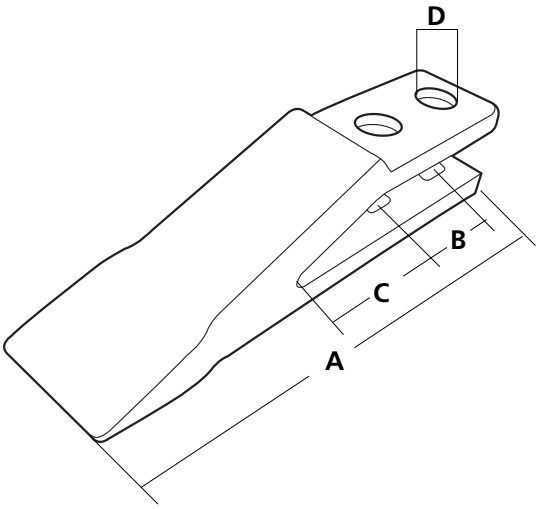
***** Can be used for edges with different distances between the holes depending on the ref. Nº

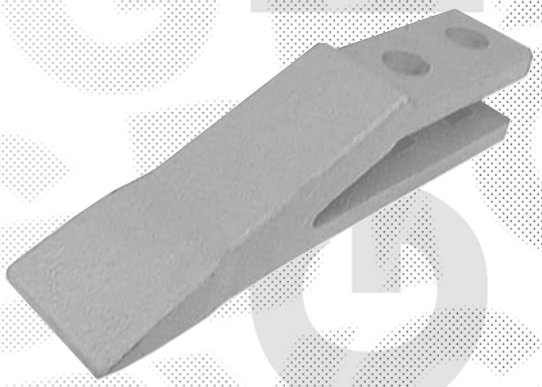
Bolt-On Mini Excavator Teeth



mm. A	B	C	D		KG lb			
190 *7,48"*	30 *1,18"*	40 - 45 *1,57" - 1,77"*	13 *0,51"*	16 *0,63"*	1,40 *3,09*	**17-7**	M-12040	TM-012

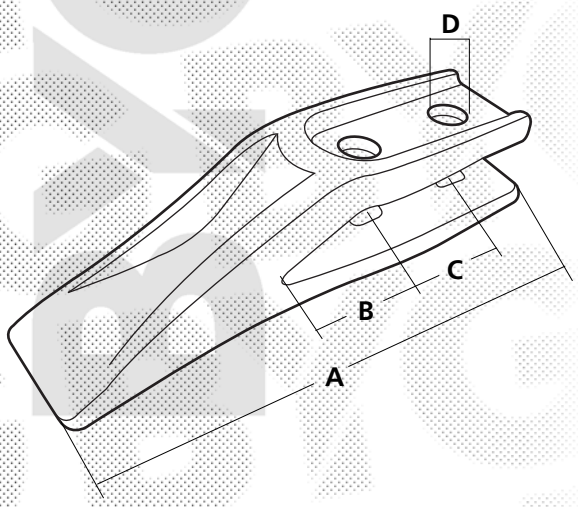
Bolt-On Mini Excavator Teeth





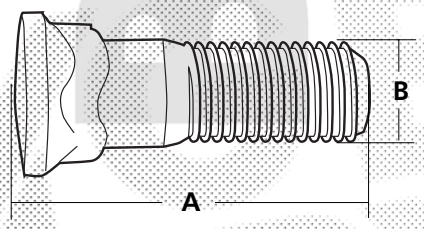
mm. A	B	C	D		KG lb			
228 *8,98"*	41 *1,61"*	62 *2,44"*	17 *0,67"*	20 - 22 *0,79" - 0,87"*	1,45 *3,20*	**HM-054B**	PB-512	NP-158

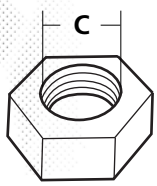
Bolt-On Mini Excavator Teeth

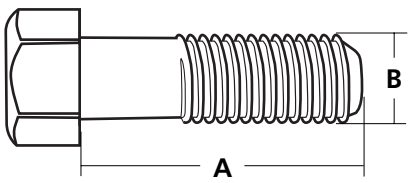


mm. A	B	C	D		KG lb			
240 *9,45"*	64 *2,52"*	53 *2,09"*	17 *0,67"*	26 *1,02"*	2,64 *5,82*	**1462201M1**	PB-512	NP-158

Fasteners







mm. A	B	Thread		OEM	BYG ref.	OEM	BYG ref.	C	OEM	BYG ref.
1-3/4"	1/2"	13	UNC-13	-	-	**4F-3648**	**PB-202**	1/2"	**1F-7958**	**NP-117**
1-3/4"	5/8"	11	UNC-11	-	-	**4F-3653**	**PB-502**	5/8"	**4K-0367**	**NP-158**
2-1/2"	5/8"	11	UNC-11	-	-	**4F-3658**	**PB-512**	5/8"	**4K-0367**	**NP-158**
40	12	-	1.75	**6V-8197**	**M-12040**	-	-	M-12	**6V-8149**	**TM-012**

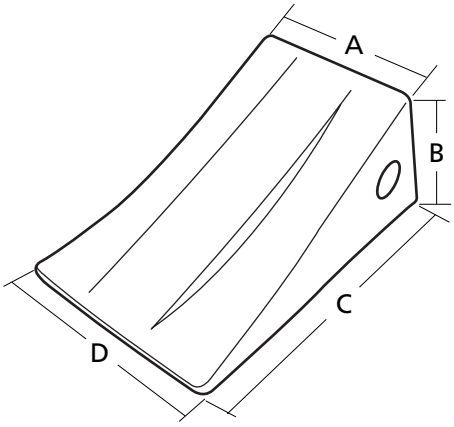
DRP

John Deere

Bold ref. number, product available
Other ref. number please consult.

Teeth

John Deere Teeth



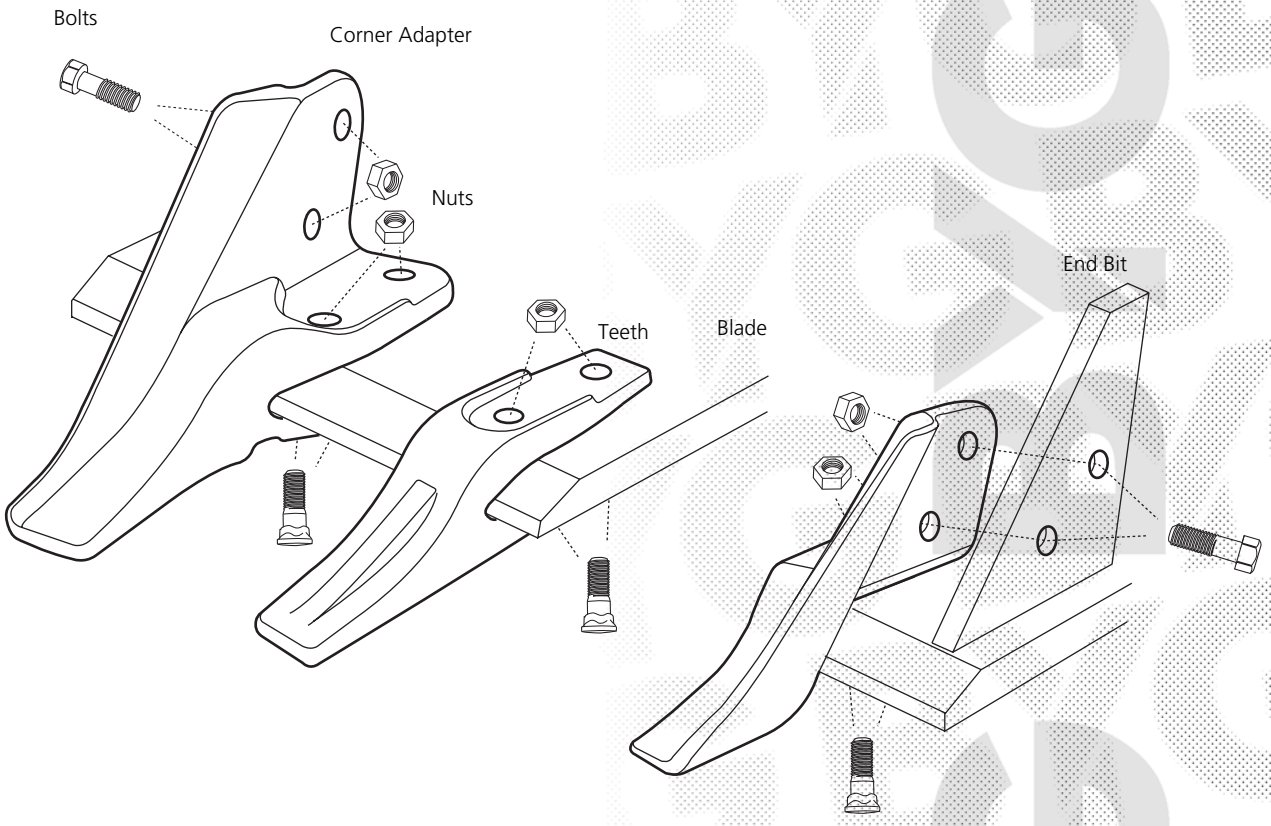
mm. A	B	C	D	KG lb					
75 *2,95"*	60 *2,36"*	140 *5,51"*	95 *3,74"*	2,10 *4,63*	**U-16086**	U-16864	T-35385	T-25101	JD-450, JD-644A JD-644B

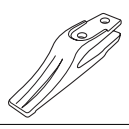
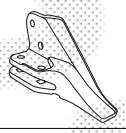
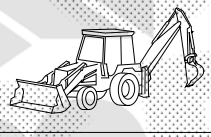
DRP

Fai Komatsu (FMK)

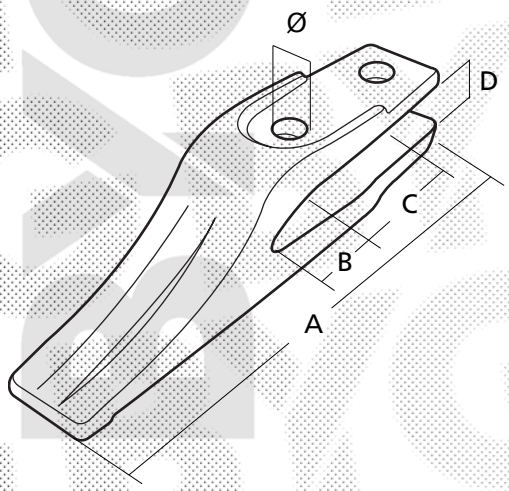
Bold ref. number, product available
Other ref. number please consult.

Teeth



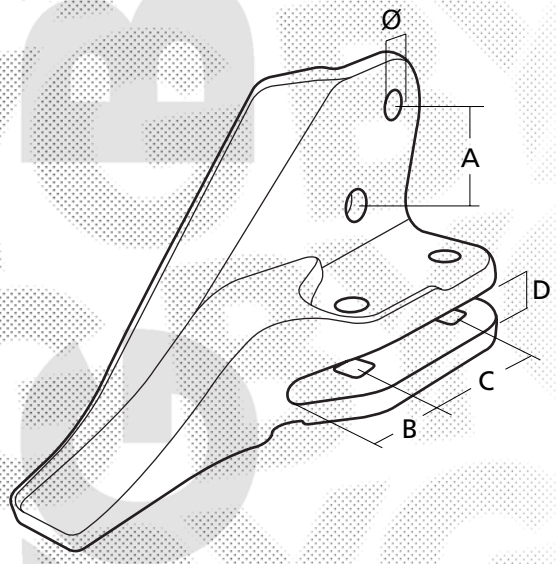
Teeth	Corner Adapter		
			
312204054	**312204053**	**312204052**	SYNTH-TER 90-P6, SYNTH-ESIS 555-692-698 SYNTH-LOAD 555-556-692-698
Pag. 2	Pag. 2	Pag. 2	

Fai Komatsu (FMK) Tooth



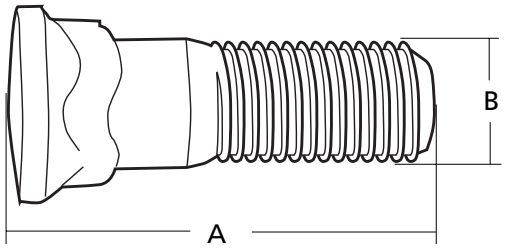
mm. A	B	C	D	Ø	↓↑	KG lb						
280 *11,02"*	65 *2,56"*	80 *3,15"*	23 *0,91"*	17 *0,67"*	20 *0,79"*	4,00 *8,82*	**312204054**	PB-510	NP-158	312204053	312204052	SYNTH-TER 90-P6, SYNTH-ESIS 555-692-698 SYNTH-LOAD 555-556-692-698

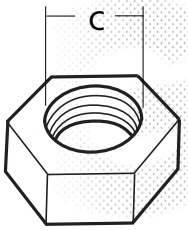
Fai Komatsu (FMK) Corner Adapter

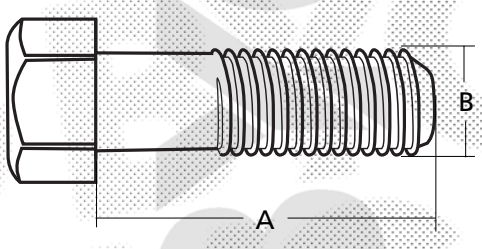


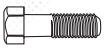
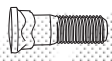
mm. A	B	C	D	Ø	↓↑	KG lb								
63 *2,48"*	65 *2,56"*	80 *3,15"*	23 *0,91"*	17 *0,67"*	20 *0,79"*	6,7 *14,77*	**312204053**	**312204052**	S-0841	NP-158	PB-510	NP-158	312204054	SYNTH-TER 90-P6, SYNTH-ESIS, 555-692-698 SYNTH-LOAD, 555-556-692-698

Fasteners



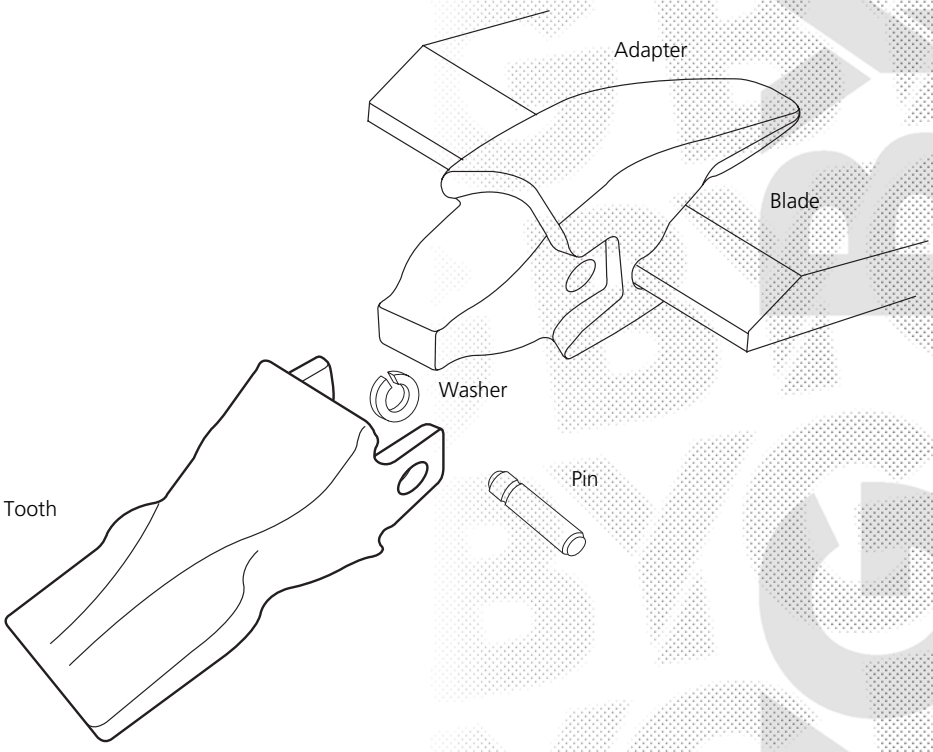




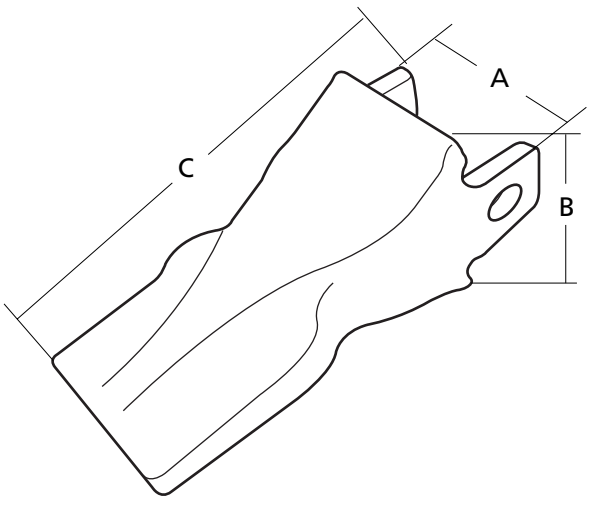
mm.				Original	BYG ref.	Original	BYG ref.	Original	BYG ref.
A	B	C	Threads						
1-3/4"	5/8"	5/8"	18	**S-1589**	**5B-0841**	**-**	**-**	**NP-158**	**4K-0367**
2-1/4"	5/8"	5/8"	11	**-**	**-**	**PB-510**	**3F-5108**		

DRP
Orca

Bold ref. number, product available
Other ref. number please consult.

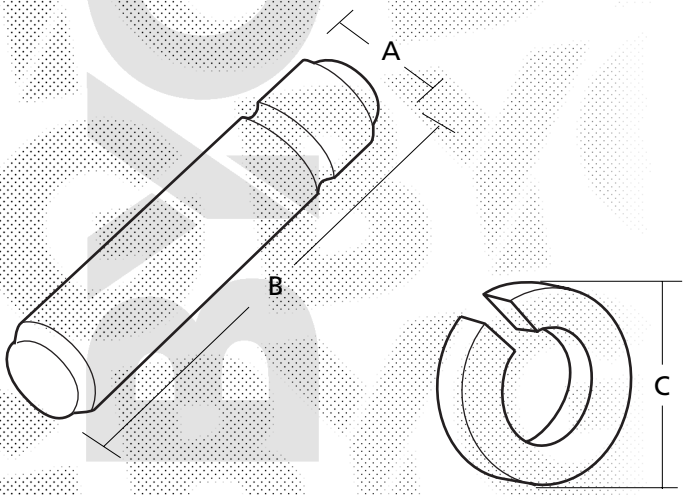


Orca Teeth



mm. A	B	C		KG lb						
-	-	-	-	-	*71407828* 22TLR	2MF-22P	2MF-21/22R	71407829	FH-120, EX-135, FH-200, EX-215	**22**
-	-	-	-	-	*71417992* 24TLR	2MF-24P	2MF-24R	71417993	FH-200, EX-215	**24**
116 *4,57"*	111 *4,37"*	316 *12,44"*	40 *1,57"*	7,10 *15,65*	**71421565** 26TLR	2MF-26P	2MF-26/28R	71421566	FH-220, EX-240, FH-270, FH-300, FH-330	**26**
-	-	-	-	-	*71432195* 28TLR	2MF-28P	2MF-26/28R	71432196	FH-400, EX-450	**28**

Pin and Washer



mm. A	B	C			
10	85	18	**2MF-22P**	**2MF-21/22R**	**22**
14	102	27	**2MF-24P**	**2MF-24R**	**24**
19	122	32	**2MF-26P**	**2MF-26/28R**	**26**
19	135	32	**2MF-28P**	**2MF-26/28R**	**28**

Cross References between Brands: Teeth, pins and Washers

Teeth Ref. BYG	Fiat Old Model	Fiat New Model	Esco	Feurst®	
71407828	71467241	71407828	022SL	22TLR	**22**
71417992	71465120	71419992	024SL	24TLR	**24**
71421565	71464186	71421565	026SL	26TLR	**26**
71432195	71468101	17432195	028SL	28TLR	**28**

Pins Ref. BYG	Pins Ref. Fiat Old Model	Pins Ref. Fiat New Model	Esco	Feurst®	Fixmet®	
2MF-22P	71467242	71407832	022PN	22CL	2MF-22P	**22**
2MF-24P	71465124	71417996	024PN	24CL	2MF-24P	**24**
2MF-26P	71464190	71421569	026PN	26CL	2MF-26P	**26**
2MF-28P	71468105	71432199	028PN	28CL	2MF-28P	**28**

Washers Ref. BYG	Fiat Old Model	Fiat New Model	Esco	Feurst®	Fixmet®	
2MF-21/22R	71467243	71407833	022LK	22RD	2MF-21/22R	**22**
2MF-24R	71465125	71417997	024LK	24RD	2MF-24R	**24**
2MF-26 / 28R	71464191	71421570	026-28LK	26RD	2MF-26 / 28R	**26**
2MF-26 / 28R	71464191	71432200	026-28LK	28RD	2MF-26 / 28R	**28**

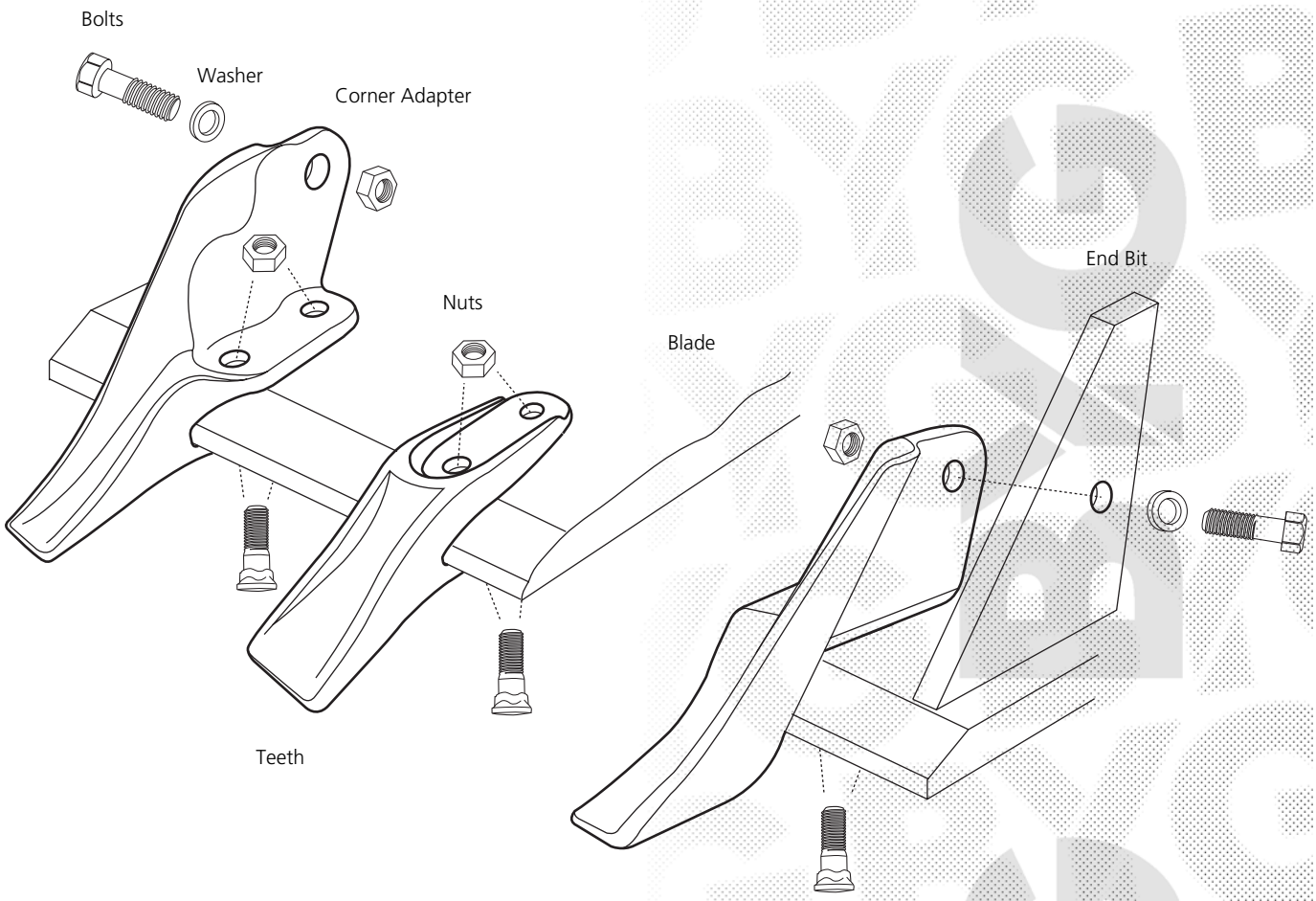
® All symbols, names and descriptions are only used for references purposes and it is not implied that any listed parts is the product of these manufacturers

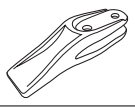
DRP

Fiat New Holland
Fiat Hitachi

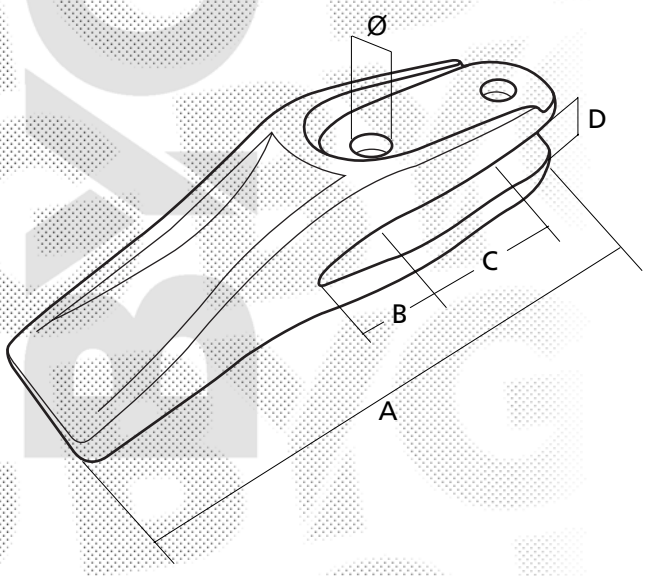
Bold ref. number, product available
Other ref. number please consult.

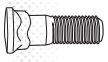
Tooth and Corner Adapter



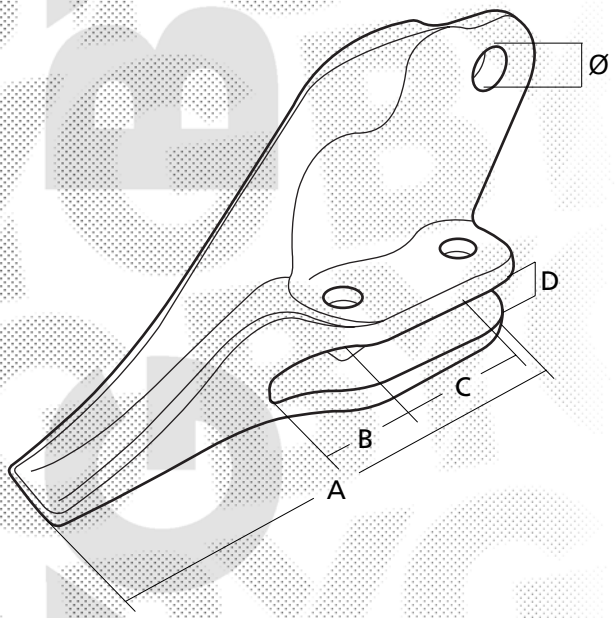
Teeth	Corner Adapter		
			
85801109	**85801377**	**85801376**	Terne, Back-Hoe, Loaders, Baggerlader, Tranto-Peles, FB-90, FB-100
Pag. 16.2	Pag. 16.2	Pag. 16.2	

Fiat Tooth



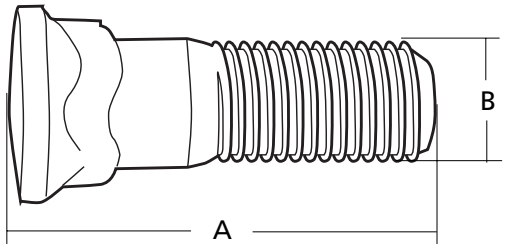
mm. A	B	C	D	Ø	↓↑	KG lb							
270 *10,63"*	50 *1,97"*	75 *2,95"*	20 *0,79"*	18 *0,71"*	16 *0,63"*	3,77 *8,31*		**85801109**		PB-510		NP-158	85801377	85801376	Terne, Back-Hoe, Loaders, Baggerlader, Tranto-Peles, FB-90, FB-100

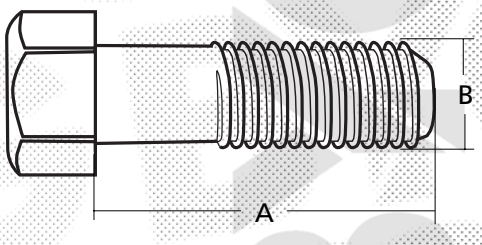
Corner Adapter

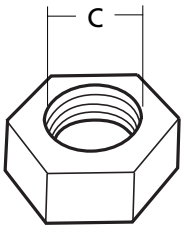


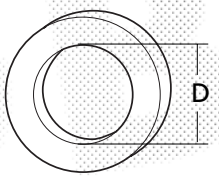
mm. A	B	C	D	Ø	↓↑	KG lb								
63 *2,48"*	65 *2,56"*	80 *3,15"*	23 *0,91"*	17 *0,67"*	20 *0,79"*	5,00 *11,02*	**85801377**		S-1589	NP-158	0-216	85801109	Terne, Back-Hoe, Loaders, Baggerlader, Tranto-Peles, FB-90, FB-100
							85801376			PB-510	NP-158		

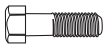
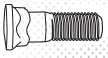
Fasteners









mm.				Threads	Original	BYG ref.	Original	BYG ref.	Original	BYG ref.	Original	BYG ref.
A	B	C	D									
1-3/4"	5/8"	5/8"	5/8"	11	**0S-1589**	**S-1589**	**-**	**-**	**4K-0367**	**NP-158**	**5P-8247**	**0-216**
2-1/4"	5/8"	-	-		**-**	**-**	**3F-5108**	**PB-510**			**-**	**-**

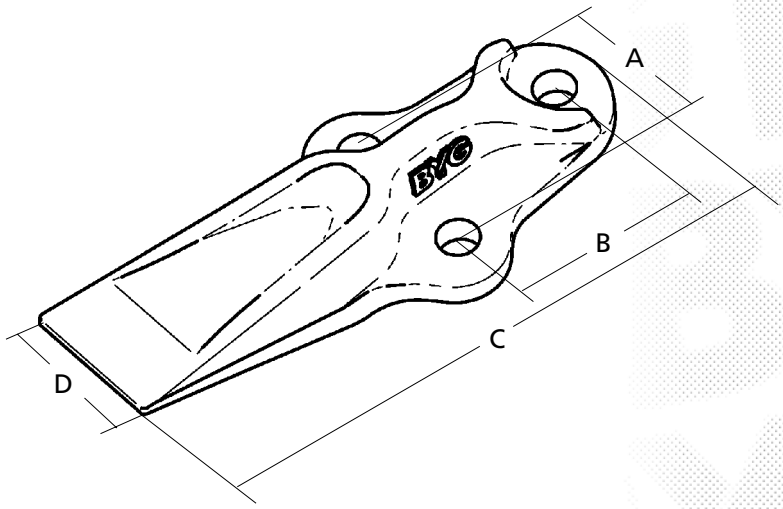
DRP

Atlas

Teeth

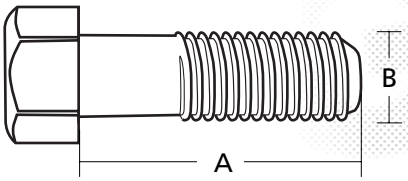
Bold ref. number, product available
Other ref. number please consult.

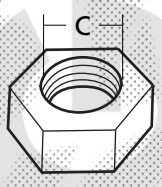
Atlas Teeth



mm. A	B	C	D	KG lb				
70 *2,76"*	89 *3,50"*	307 *12,09"*	76 *2,99"*	4,97 *10,96*	**121-8797**	M-20070	TM-020	-

Bolt & Nut





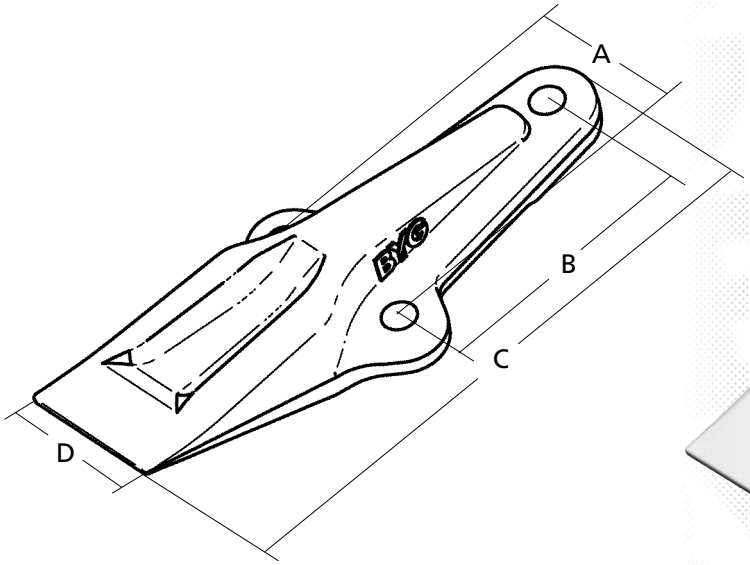
mm. A	B	C	Thread	OEM	BYG ref.	OEM	BYG ref.
70 *2,76"*	20 *0,79"*	20 *0,79"*	2.50	-	**M-20070**	-	-
-				-	-	**6V-7742**	**TM-020**

Liebherr DRP

Teeth

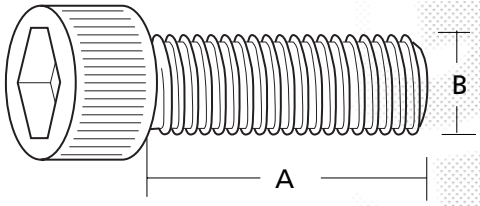
Bold ref. number, product available
Other ref. number please consult.

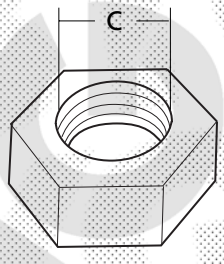
Liebherr Teeth



mm. A	B	C	D	KG lb				
80 *3,15"*	140 *5,51"*	327 *12,87"*	79 *3,11"*	5,70 *12,57*	**9169430**	A-16070	TM-016	-

Bolt & Nut





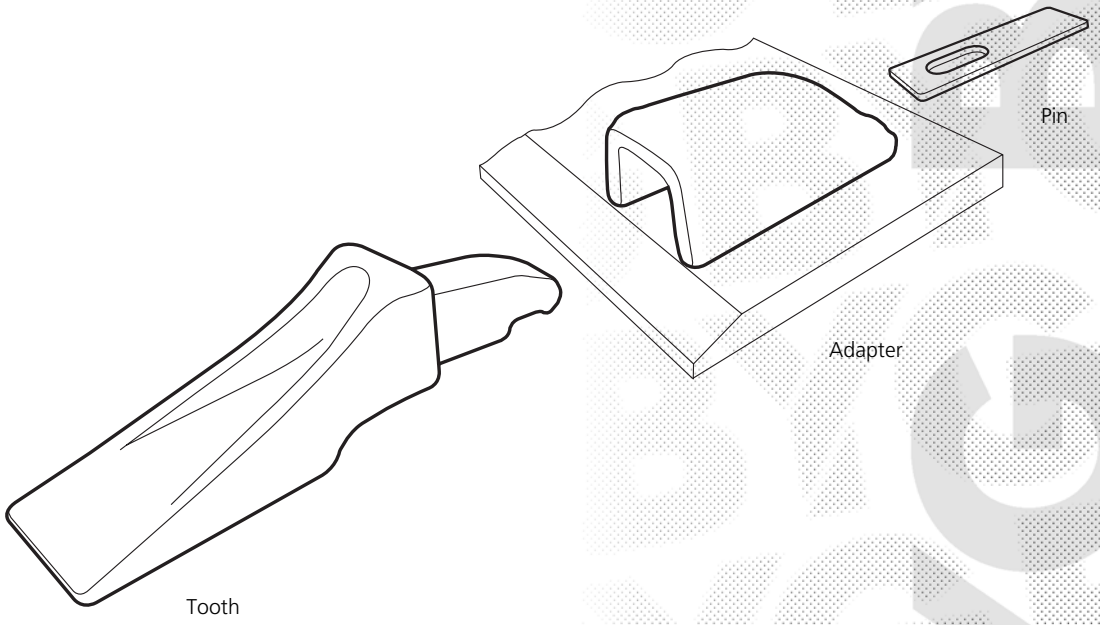
mm. A	B	C	Thread	OEM	BYG ref.	OEM	BYG ref.
70 *2,76"*	16 *0,63"*	16 *0,63"*	2.00	-	**A-16070**	-	-
-				-	-	**8T-1757**	**TM-016**

DRP

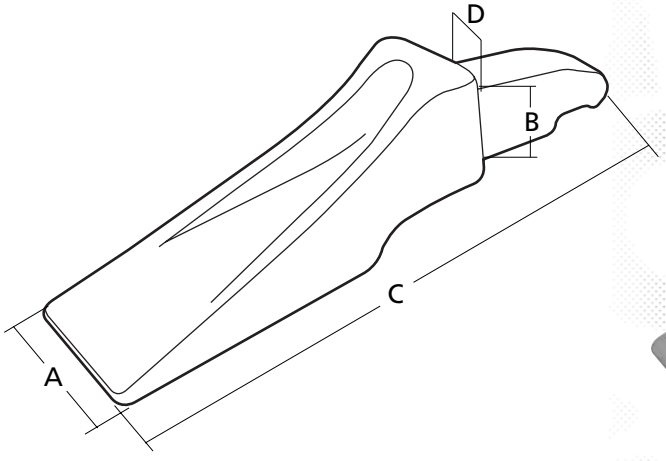
Lehnoff

Teeth and Adapter

Bold ref. number, product available
Other ref. number please consult.

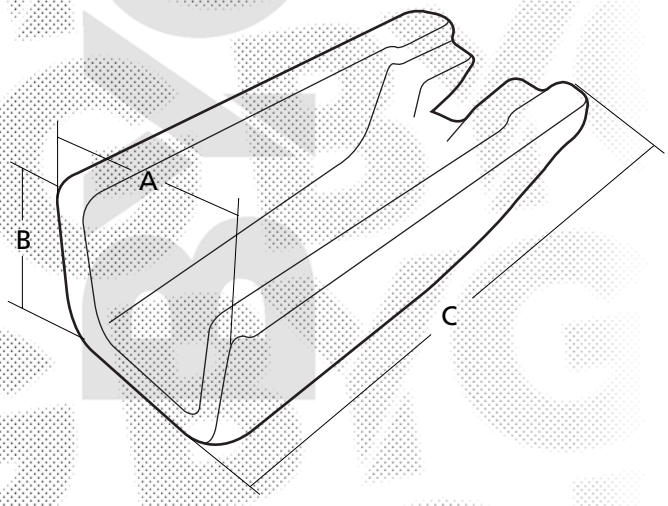


Tooth



mm. A	B	C	D	KG lb				
64 *2,52"*	34 *1,34"*	243 *9,57"*	34 *1,34"*	2,50 *5,51*	**411 F**	011 HS	11 S	-

Adapter



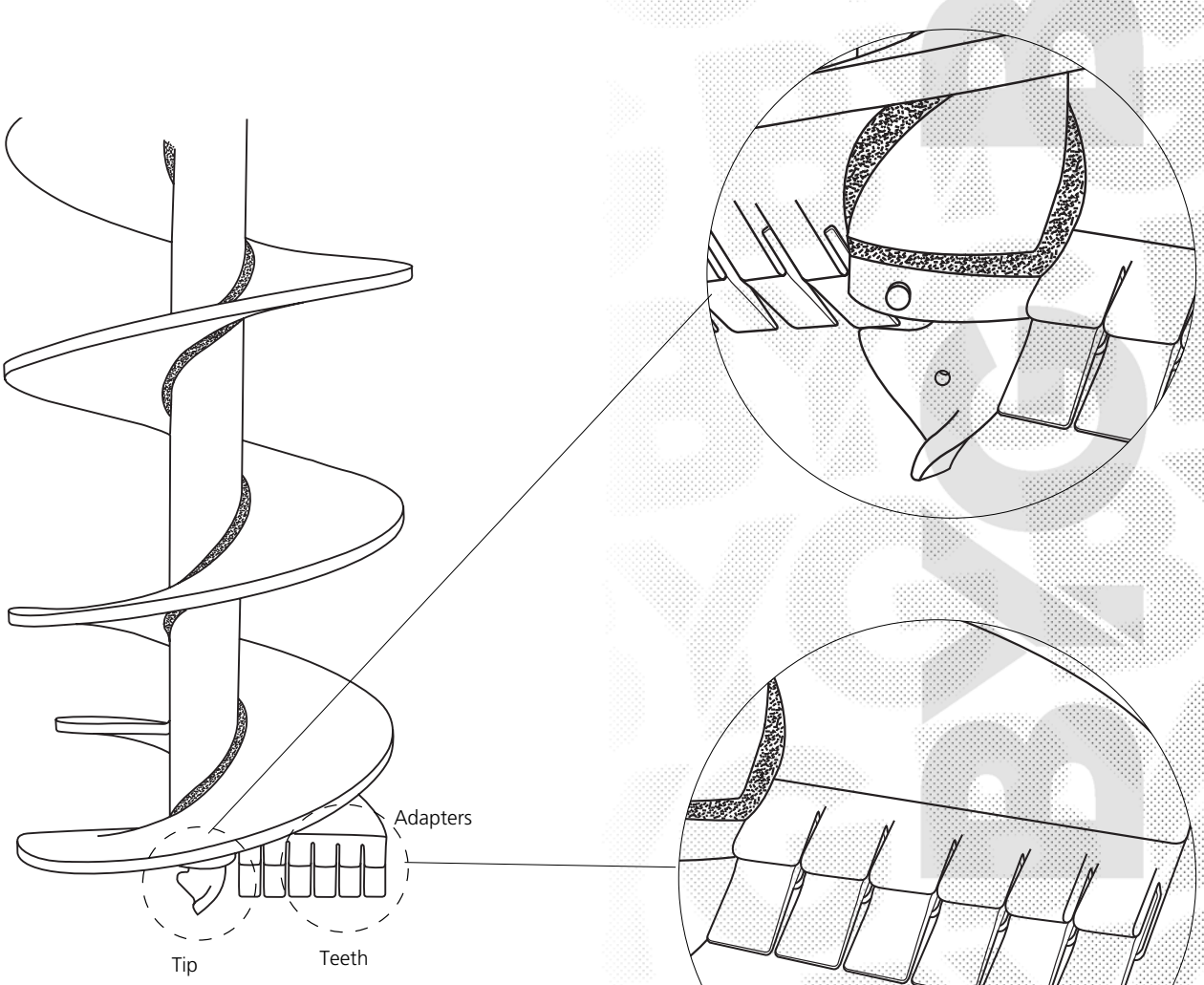
mm. A	B	C	KG lb				
55 *2,17"*	47 *1,85"*	124 *4,88"*	1,30 *2,87*	**011 HS**	411 F	11 S	-

Pin

mm. A	B	C	KG lb	
30 *1,18"*	3,5 *0,14"*	98 *3,86"*	0,10 *0,22*	**11 S**

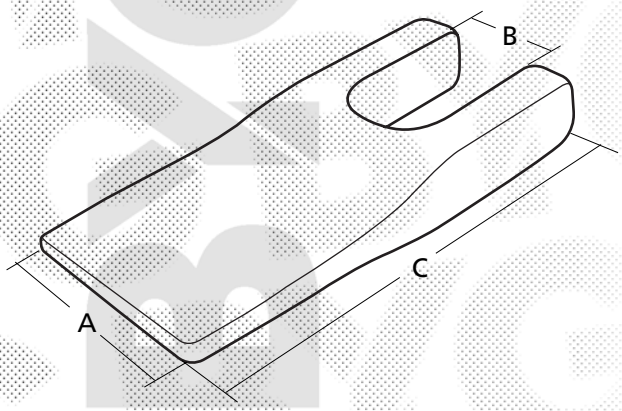
DRP
Pengo
Teeth and Adapters

Bold ref. number, product available
Other ref. number please consult.



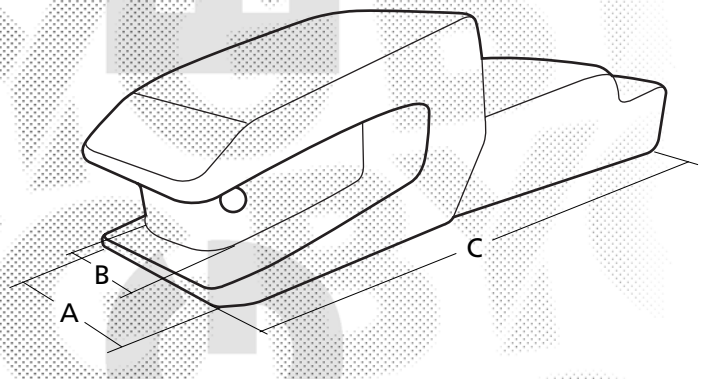
Teeth	Adapter	Adapter	Pilot Bit	Pilot Bit Adapter	
15R55	**-**	**P15R55**	-	**PFH-105**	**24**
209A70	**P209A70**	-	**FH-105**	-	**25**
-	-	-	-	-	**27**
Pag. 20.2	Pag. 20.2	Pag. 20.3	Pag. 20.3	Pag. 20.4	

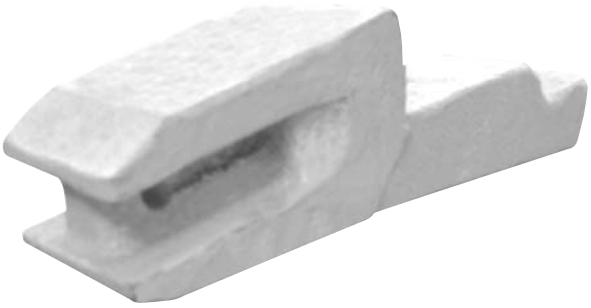
Teeth



mm. A	B	C	KG lb		
48,5 *1,91"*	17 *0,67"*	110 *4,33"*	0,40 *0,88*	**15R55**	**24**
63 *2,48"*	26 *1,02"*	155 *6,10"*	1,10 *2,43*	**209A70**	**25**

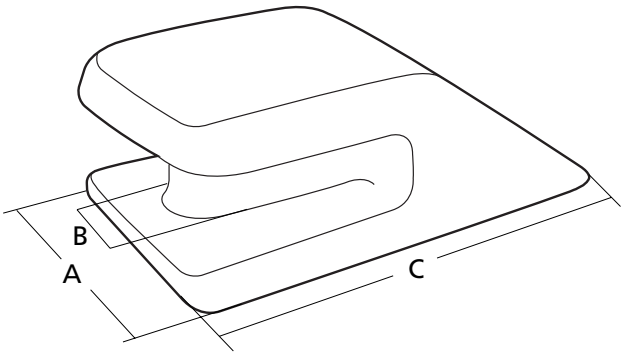
Adapter





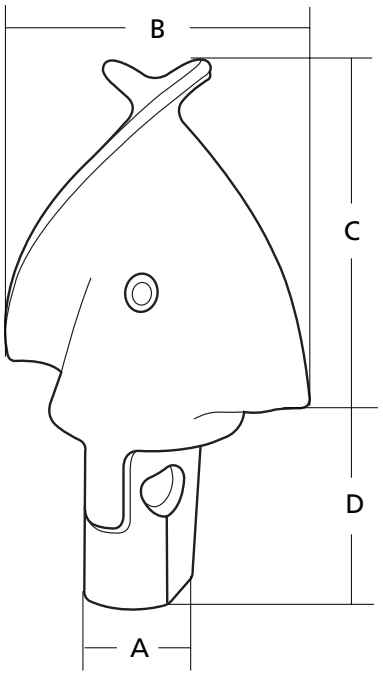
A	B	C	KG lb		
44 *1,73"*	17,5 *0,69"*	182 *7,17"*	1,55 *3,42*	**P15R55**	**24**

Adapter



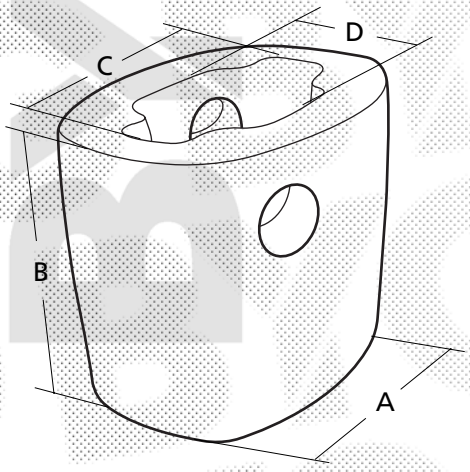
mm.					
A	B	C	KG lb		
69 *2,72"*	22 *0,87"*	150 *5,91"*	2,91 *6,42*	**P209A70**	**24**

Pilot Bit



A	B	C	D	KG lb		
58 *2,28"*	150 *5,91"*	145 *5,71"*	110 *4,33"*	3,70 *8,16*	**FH-105**	**25**

Pilot Bit Adapter



A	B	C	D	KG lb		
125 *4,92"*	102 *4,02"*	90 *3,54"*	46 *1,81"*	5,18 *11,43*	**PFH-105**	**24**

Rippers

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Warranty

In the unlikely event of any of our products failing during normal operation, we will supply a new replacement free of charge.

All symbols, names and descriptions are only used for references purposes and it is not implied that any listed parts are the product of these manufacturers.

13/7/01

DRP

Caterpillar

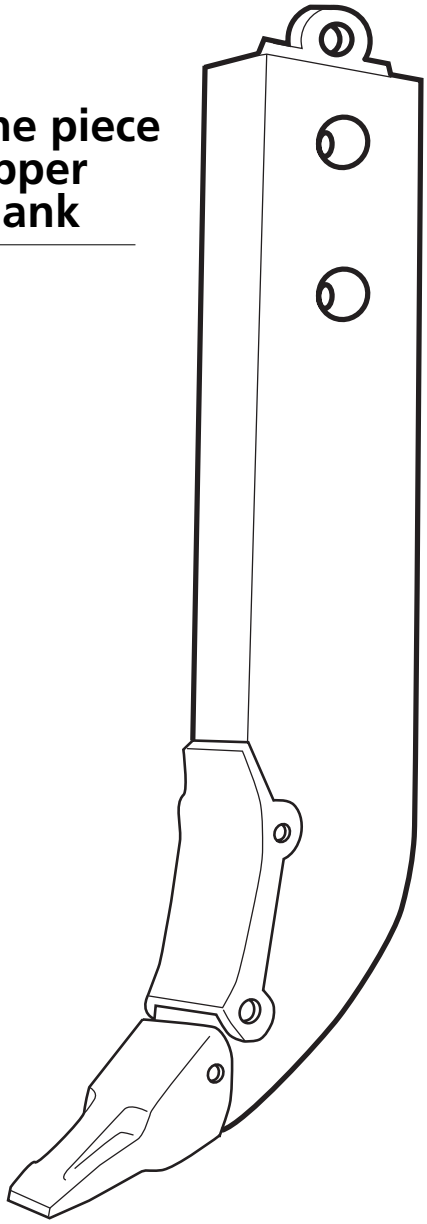
Ripper Shanks

Bold ref. number, product available

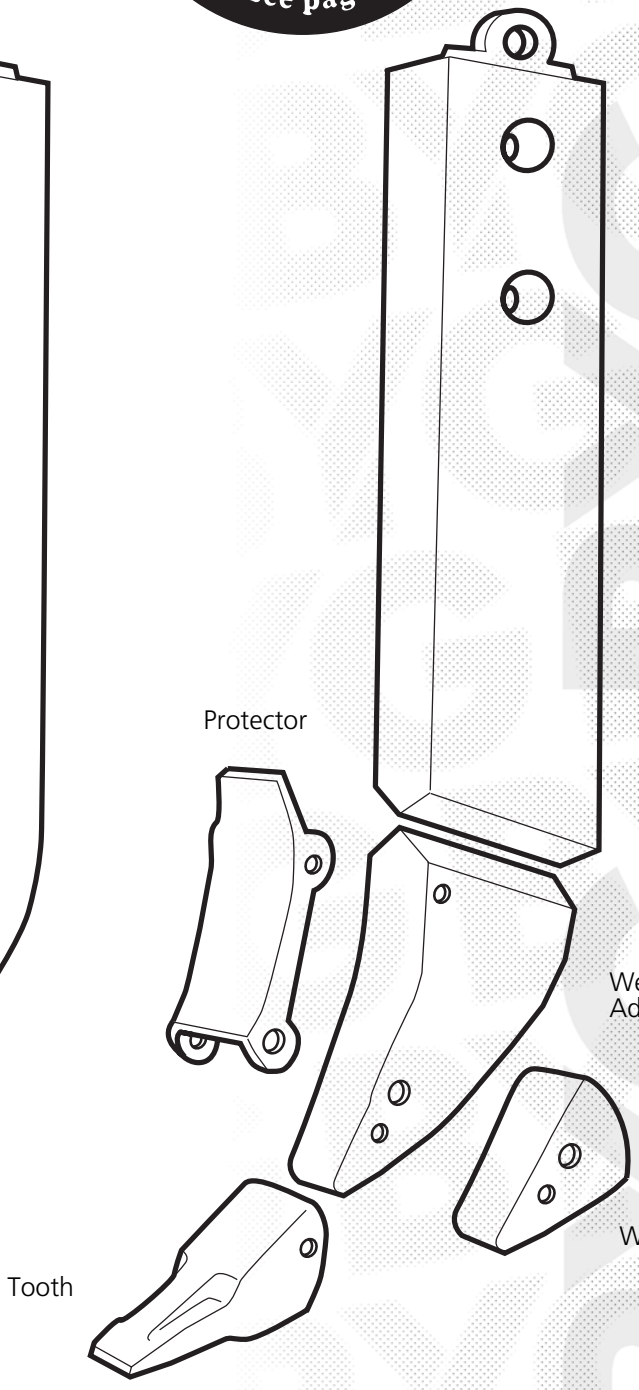
Other ref. number please consult.

Futura Alternative

One piece Ripper Shank



Ripper Shank Components



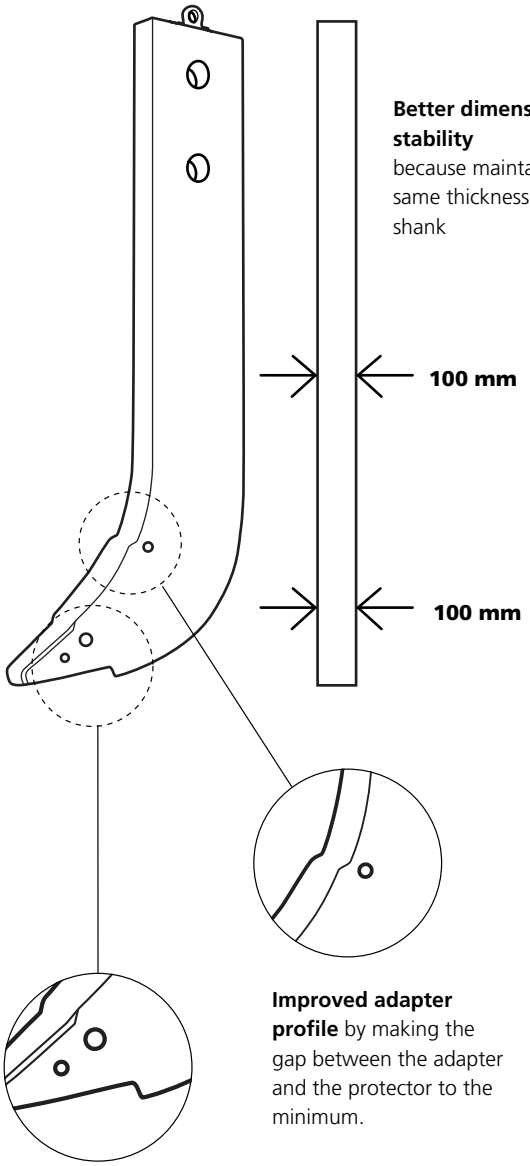
Rippers

Characteristics of BYG shanks

Ripper Shanks

BYG one-piece ripper shanks are cut to length, formed and fully machined. Made of tough abrasion resistant alloy steel and thru-hardened for strength and maximun wear life.

BYG offers a complete range of shanks for main O.E.M. brands on the market, covering from the smallest ripper shank up to the largest 110 mm thick, for the biggest dozers on the market.



Better dimensional stability because maintains the same thickness along the shank

Improved adapter profile by making the gap between the adapter and the protector to the minimum.

Improved design
Reinforced adapter box keeps ripper teeth movement to the minimun as well as protecting the rear area of the tip.

One-piece machine finished Ripper Shanks, without any welding avoiding the risk of breakage on the welded areas

High toughness

Ripper toughness is very high even under difficult conditions, such us high rates of strain combined with low temperatures thanks to the most modern steel used in all our shanks.

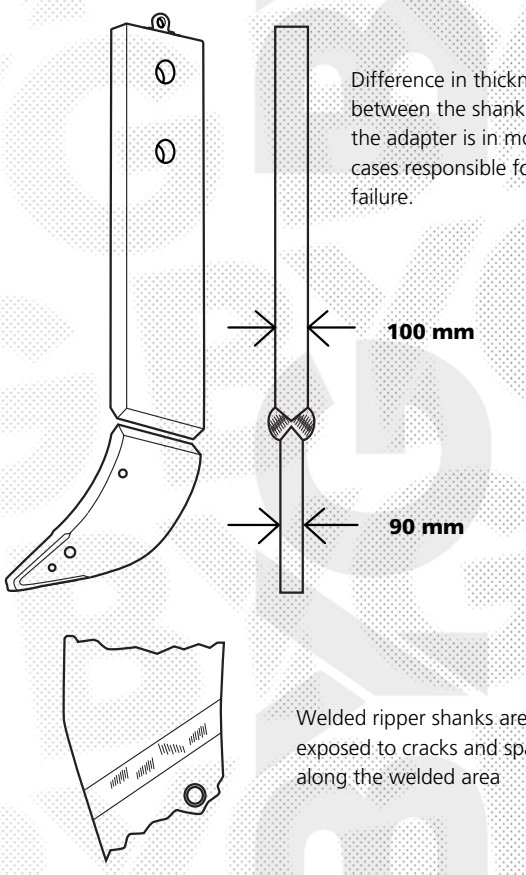
High strength

Due to its high strength, BYG shanks have better dimensional stability because they maintain the same thickness along the shank and thus sustain a smaller amount of permanent deformation.

Competitors' Shanks

Fabricated Ripper Shanks made out of two pieces, shank and adapter, are welded together.

The shank is always thicker than the adapter making the bottom part of the shank (the most exposed section to impact), the weakest.



Difference in thickness between the shank and the adapter is in most cases responsible for early failure.

Welded ripper shanks are exposed to cracks and spaces along the welded area

Rippers

Characteristics of BYG shanks

Steel Technical Information

CHEMICAL COMPOSITION (ladle analysis)

C	Si	Mn	P	S	B	Cr	Ni	Mo	CEV.
max	max	max	max	max	max	max	max	max	max
%	%	%	%	%	%	%	%	%	%
0,32	**0,70**	**1,60**	**0,025**	**0,010**	**0,004**	**1,40**	**1,50**	**0,60**	**0,70**

HARDNESS HBW 370-430

MECHANICAL PROPERTIES Typical values for 20 mm plate thickness

Yield Strength	Tensile Strength	Elongation	
R_e N/mm	R_m N/mm	A_5%	A_{50}%
1000	**1250**	**10**	**16**

IMPACT PROPERTIES

Testing	Impact energy
Temperature °C	Charpy-V, longitudinal
-40 (-40°F)	**45J**

Steelmaking and Casting

Ore-based metallurgy and modern continuous casting produce high-quality slabs with precise chemical composition and with very low levels of residual elements. This lays the foundation for a good end product.

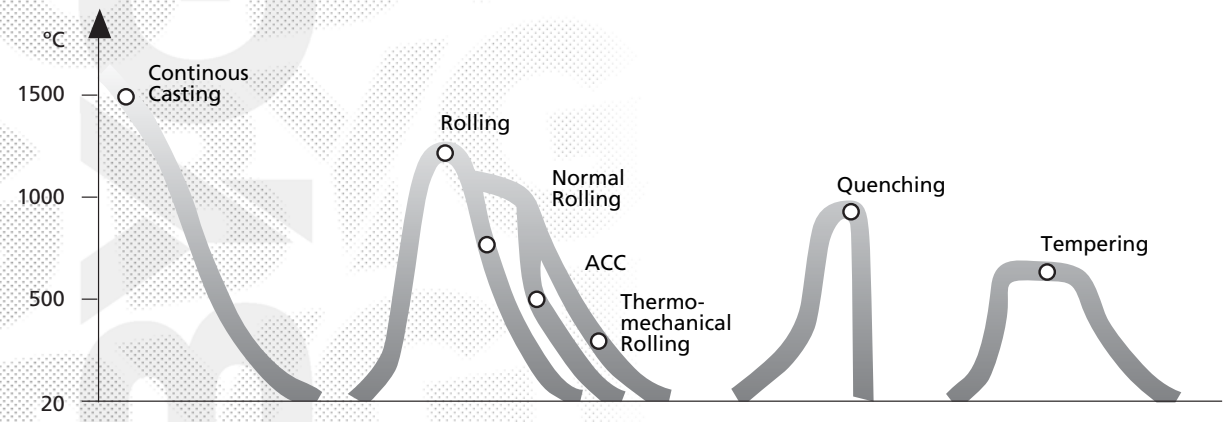
Selected Rolling Sequence

The slabs are heated uniformly to 1200°C to enable them to be rolled in a four-high mill. They are rolled accurately to the specified thickness and to the microstructure which is best suited to the subsequent cooling process.

Quenching and Tempering

Plates are quenched and tempered. This involves cooling the plate quickly from 900° to room temperature by intensive spraying with water in a roller quenching equipment.

After being tempered at 580°-650°C, plate acquires uniformly high strength, excellent toughness and good weldability, machinability and workability. Due to the effective water quenching by Accelerated Continuous Cooling in the roller quenching equipment, we can minimize the content of alloying elements.



Codification of non OEM Ripper Shanks

The reference number of the shanks is composed of 5 blocks of characters. Each block indicates a characteristic of the shank.

A BB CC DDD EEEE

(12 characters without blank spaces)

A

The first block (one character) indicates the type of part.

R COMPLETE RIPPER SHANK
Z SHANK

Example:

R ** ** * ****

BB

The second block (2 characters) indicates the quality of the part (Brinell scale), as shown.

40 400 Brinell
45 450 Brinell
NX HIGH YIELD STRENGTH

Example:

R 40 ** * ****

CC

The third block (2 digits) indicates the shank thickness. The digits correspond exactly to the thickness (milimeters) with the exception of: 100mm, 110mm and 120mm thickness, as shown in the following list:

35 35mm. thickness (450 Brinell)
40 40mm. thickness (450 Brinell)
45 45mm. thickness (450 Brinell)
50 50mm. thickness (450 Brinell)
60 60mm. thickness (450 Brinell)
63 63mm. thickness (450 Brinell)
75 75mm. thickness (400 Brinell)
80 80mm. thickness (400 Brinell)
90 90mm. thickness (400 Brinell)
00 100mm. thickness (400 Brinell)
01 110mm. thickness (High Yield Strength)
02 120mm. thickness (High Yield Strength)

Example:

R 40 75 * ****

DDD

This block (3 digits) indicates the width of the shank, in milimeters.

Example:

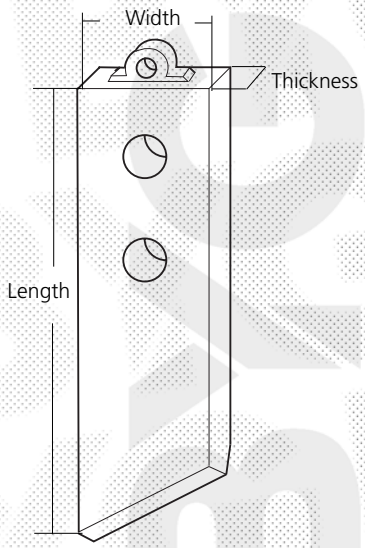
R 40 75 305 **

EEEE

The last block (4 digits) indicates the length (in milimeters) of the shank, always in multiples of 50mm.

Example:

R 40 75 305 1650



Reference example (12 characters without blank spaces)

R40753051650

Type Quality Thickness Width Length

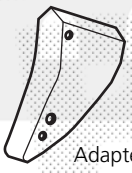
Customer should supply reference of teeth and protector to fit shank, number of holes and diameter of holes.

Rippers

What you need to know

Components

When a ripper breaks for the first time Caterpillar sells, depending on where the breakage has taken place, an adapter or a nose to repair it.

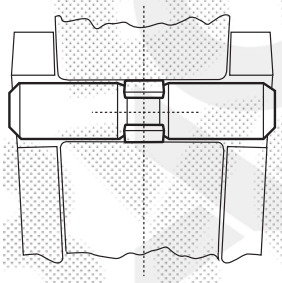


Adapter

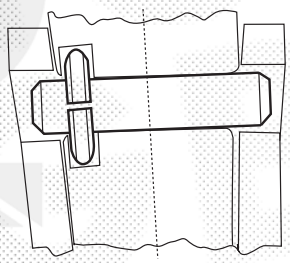
Nose

Mounting systems

As you can see in our Ripper Catalogue in most cases the new pins of the shanks are different from the old ones. This is due to the fact that the old Caterpillar pins have a center ring and the modern ones are assembled with a washer.

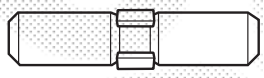


A Shank mounted with a center ring

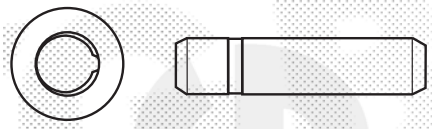


B C Shank mounted with a washer

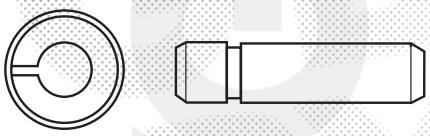
In order to improve the assembly of the shanks Caterpillar changed from the **A** type pin (with a center ring) to the **B** type pin (not reusable with side washer) and the **C** type pin (reusable with side washer)



A
Pin with center ring



B
Pin with side washer (**not reusable**)



C
Pin with side washer (**reusable**)

Pin and Washer reference numbers

Indicates pin and side washer (type **B C**)

Indicates pin with center ring (type **A**)

Indicates rubber and lock

What a Caterpillar reference tells us

Behind each numeric reference Caterpillar uses different characters and numbers to indicate the type of shank, as follows:

- **S1** **STRAIGHT** shank with **one hole**
- **S2** **STRAIGHT** shank with **two holes**
- **C1** **CURVED** shank
- **SS** **SINGLE shank** ripper
- **MS** **MULTIPLE shank** ripper
- **DR** **DEEP RIPPING** shank

How to repair a ripper shank

1 When a breakage takes place prior to the assembly keep the shank and the new adapter in a room where the temperature is at least 24ºC (75º F). This way the center of the shank will reach a temperature of 21ºC (70º F).

2 If the shank is cut according to the proportions of the adapter indicated below **(fig. 3)**, the angle of the shank **(E, fig. 1)** will be approximately the same as the original shank. The table below **(fig. 3)** shows the angles of the shank for different dimensions **(F, fig. 1)** which are the difference between the front and rear cuts of the shanks.

EXAMPLE: Make mark **G (fig. 2)** according to the dimensions indicated on the table below **(fig. 3)**, make the desired changes for a different shank angle, make a parallel mark **H** 10 mm. (0.38") lower than **G (fig.2)**.

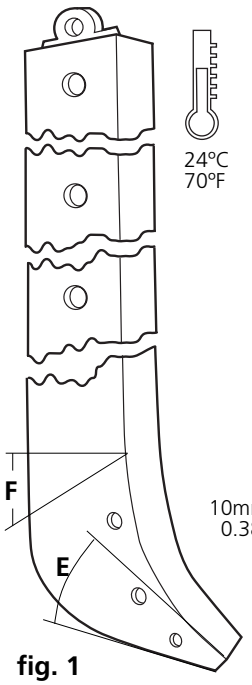


fig. 1

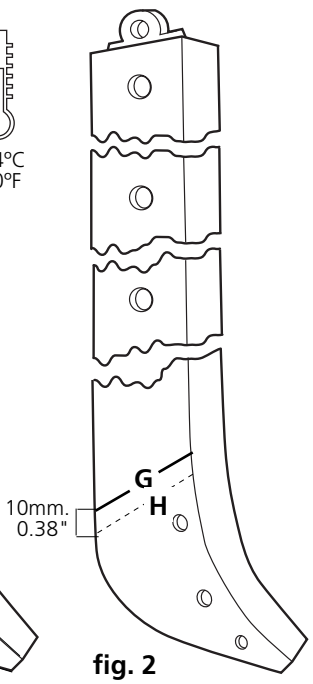


fig. 2

E	mm. F
40º	203 [8"]
41º	191 [7.5"]
43º	178 [7"]
45º	165 [6.5"]
46º	152 [6"]
48º	140 [5.5"]
50º	127 [5"]
52º	114 [4.5"]
54º	102 [4"]

fig. 3

Rippers
What you need to know

3 Heat the area around marks **G** and **H (fig. 4)** until they have reached at least 149º C (300º F). Cut the shank across mark **H**, this way the shank will be heated evenly around the area of **G** preventing the formation of small cracks. Cut the shank across mark **G (fig. 5)** and eliminate the slag.

4 With the help of a bracket or a metal strap fix the adapter to the ripper shank. Adjust the position of the adapter until the front border is in line with the rear border of the shank **(fig. 6)**. Heat both pieces to 149 ºC (300º F) at least at 76 mm (3") at both sides of the junction of the two pieces.

5 Make the first weldings with an AWS E-110-18,50 (.19"O) electrode. Start the first welding string and weld from the external border to the center of the shank. Make sure that all passes go around the external border of the shank. This will prevent from cracks in the welding near the border of the shank. Always eliminate the slag after each pass.

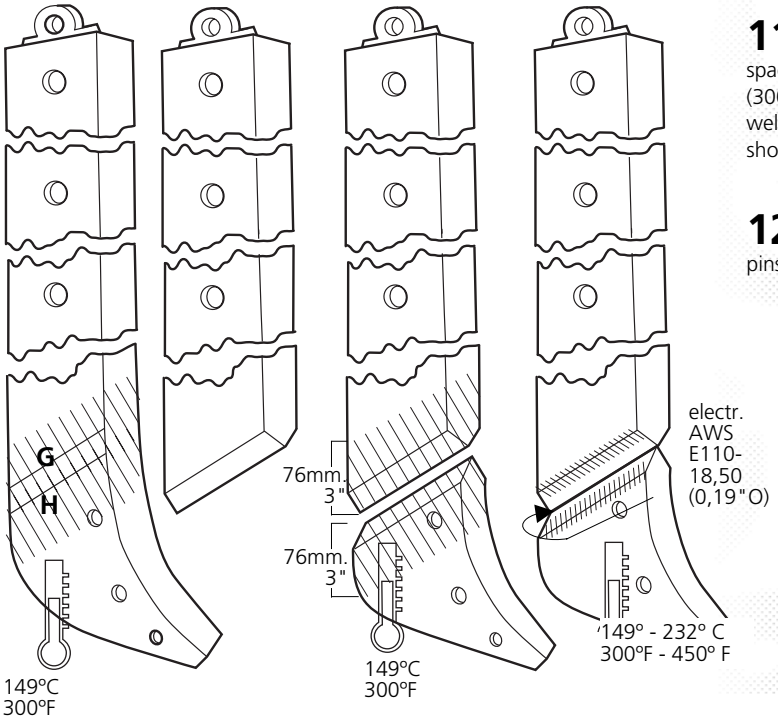
6 Make a second pass on the first one **(fig. 7)**. Turn the ripper around and grind the junction until you can see the base of the first pass.

NOTE: Make sure that the welding temperature is between 149º-232ºC (300º- 450º F)

7 Make two passes on this side, then a third pass on the first side.

ATTENTION: The temperature of the welded area must not exceed 232ºC (450ºF) at any moment. The temperature of the material around the junction will go up even after having made a pass.

fig. 4 **fig. 5** **fig. 6** **fig. 7**



8 Make all other welding string with an AWS E-110-18,6.30 (.25") electrode. Make a string on one side and another one on the other side **(fig. 8)**. Verify that the shank and the adapter are in line between each welding string **(fig. 9)**. If the two pieces are not in line make one or two strings on the opposite side in the direction of the move of the adapter **(fig. 10)**. Add weld until the welded area is higher than the surface of the shank and the adapter **(fig. 11)**.

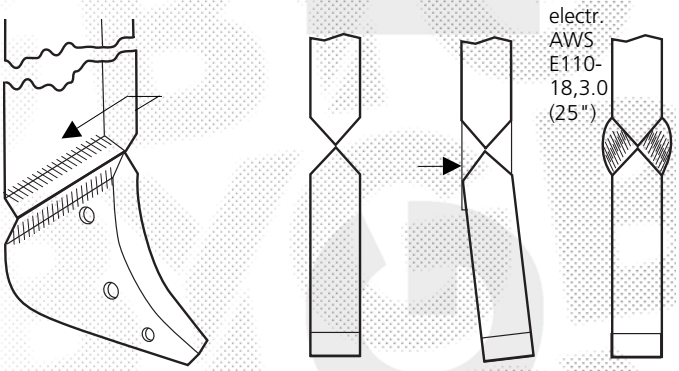


fig. 8 **fig. 9** **fig. 10** **fig. 11**

9 If the border of the adapter is not in line with the shank, heat this area between 140º-232ºC (300º-450º F). Fill in the space with more weld as indicated above. Make each welding string parallel lengthwise to the shank. Make sufficient welding strings to avoid any crack after grinding. Eliminate any slag after each string. Make the last string so that the surface is as smooth as possible.

10 Grind all welding areas until they are even. When grinding always grind in a direction parallel with the length of the shank **(fig. 12)**. Grinding across the shank will leave notches that could cause a failure of the welded area. Use a medium to a fine grinding tool for the finished surface.

11 Inspect the surface of the welded area. If there are any cracks or spaces **(fig. 13)**, grind the area around the crack or space. Heat 149ºC (300º F) and fill the area with more weld **(fig. 14)**. Grind off the extra weld material. Uneven welded surfaces may cause a failure within short.

12 Assemble the protector and the ripper point. The assembly of the pins should be done one by one.

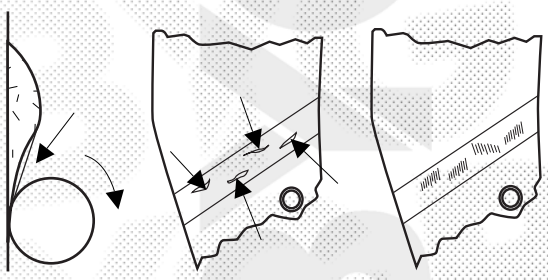
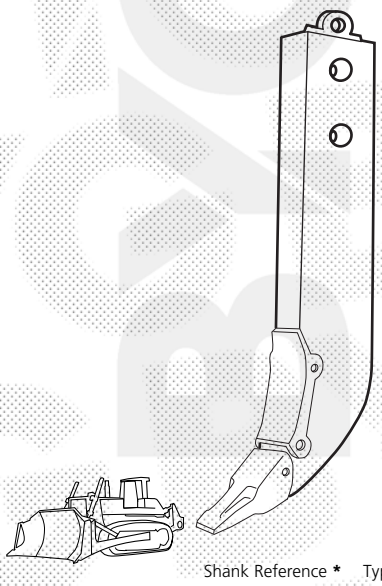
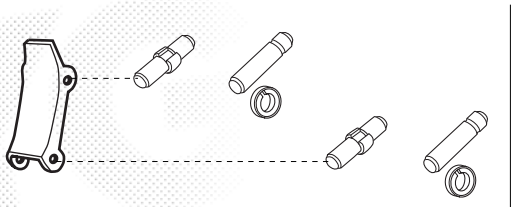
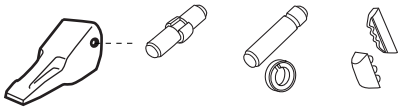


fig. 12 **fig. 13** **fig. 14**

Complete Ripper Shank





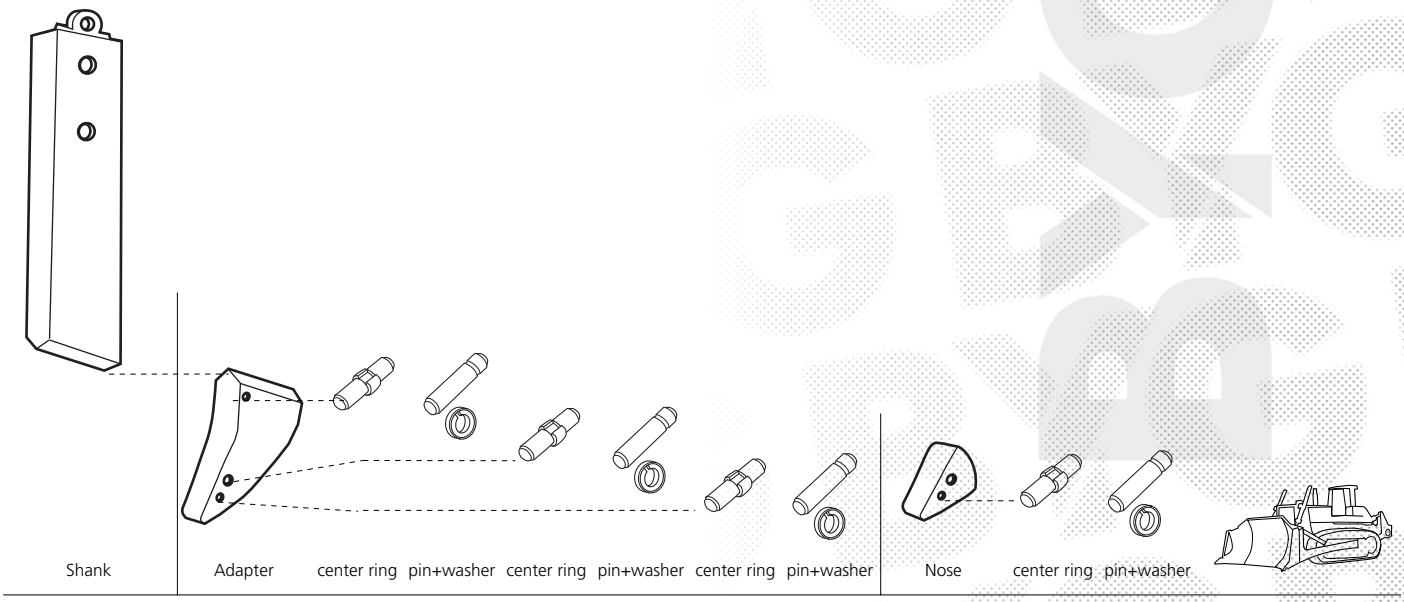


	Shank Reference *	Type	Protector	center ring	pin+washer	center ring	pin+washer	Tooth	center ring	pin+washer	lock+rubb.	
D3, 931, 933, 939, D4C, 135-H, 120-H	**8J-5299**	S1						1U-3209 1U-3201 9W-8209 1U-3202		8E-6208 8E-6209		⇨
943, 953	**1U-1257**	C1						9J-4259 1U-3251 1U-3252 TL		8E-6258 8E-6259		⇨
D4, 941, 951, 955, 963, 12, 14, 130, 140, 143H, 160H	**5K-1428**	S1						7K-0037			4K-0043 5K-1426	⇨
	6Y-0865	C1						4T-4302				
	9J-8913	C1						1U-3302 TL	8J-1433	9J-6583		
	9J-6586	S1						6Y-0309		1U-2405		
16, 973, 977, D5, D6	**5K-0245**	S1						7K-0038			4K-0032 5K-1425	⇨
	9J-8923	C1						4T-4352		8E-6358		
	9J-3139	S1						6Y-0359		1U-2405		
	8J-3215	S2										
D7	**9W-7382**	S1						4T-4352 6Y-0359		8E-6358 1U-2405		⇨
983	**7J-6671**	S1						4T-4352 6Y-0359		8E-6358 1U-2405		⇨
D7, D8, D9	**7J-2514**	SS	7J-2352* 7J-2351*	7J-9600		6J-8811		7J-3309 7J-3310 7J-3312	7J-9600			⇨
	7J-2515	MS										
	7J-2459	DR										
D8K	**7J-1792**	SS	6J-8814 / 132-4716	7J-9600		6J-8811		9W-2451 9W-2452 9W-2452 ST 8E-5570 114-0453 4T-5451 4T-5452 8E-5571	7J-9600			⇨
	7J-1793	DR										
	7J-1795	MS										
	107-3485	SS	8E-1848		6Y-3394 8E-4743		6Y-3394 8E-4743			6Y-3394 8E-4743		
	107-3486	MS										
	8E-5346	DR										
D8L	**4T-0135**	SS	6J-8814 / 132-4716	7J-9600		6J-8811		9W-2451 9W-2452 9W-2452 ST 8E-5570 114-0453 4T-5451 4T-5452 8E-5571	7J-9600			⇨
	4T-0134	DR										
	4T-0136	MS										
	8E-5342	SS	8E-1848		6Y-3394 8E-4743		6Y-3394 8E-4743			6Y-3394 8E-4743		
	8E-5340	DR										
	8E-5341	MS										
	pag. 1.14 - 1.15		pag. 1.16-1.19	pag. 1.24	pag. 1.24	pag. 1.24	pag. 1.24	pag. 1.22-1.23	pag. 1.24	pag. 1.24	pag. 1.24	

7J-2352*
7J-2351* Piece belonging to one of the two pieces the ripper protector of D7, D8, D9 is composed of

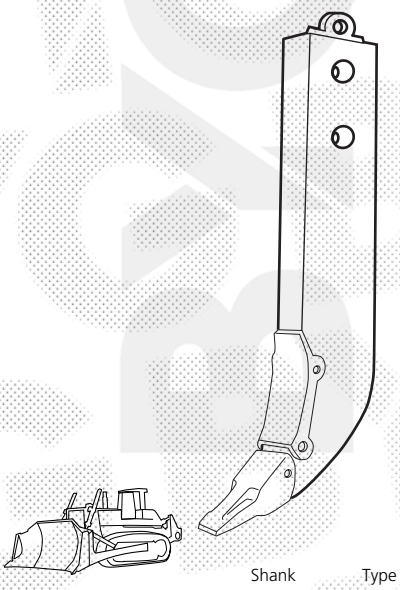
132-4716
This is the protector 6J-8814 with an extension of the arm for major protection to the Ripper Shank

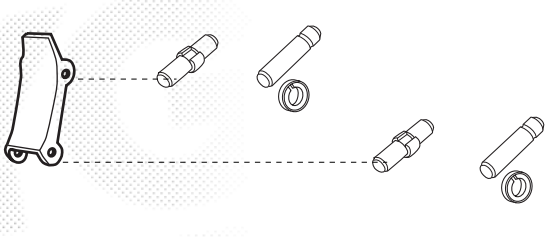
Repair Components of the Shank

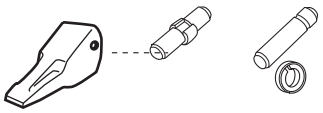


Shank	Adapter	center ring	pin+washer	center ring	pin+washer	center ring	pin+washer	Nose	center ring	pin+washer	
											D3, 931, 933, 939, D4C, 135-H, 120-H
											943, 953
								8E-7300		9J-6583 1U-2405	D4, 941, 951, 955, 963, 12, 14, 130, 140, 143H, 160H
								8E-7350		8E-6358 1U-2405	16, 973, 977, D5, D6
								8E-7350		8E-6358 1U-2405	D7
								8E-7350		8E-6358 1U-2405	983
Z4075299****	7J-2588	7J-9600		6J-8811		6J-8811		-			D7, D8, D9
Z40903561550 **Z40903562100** **Z40753300900**	7J-1791 / 8E-8418	7J-9600		6J-8811		7J-9600		4T-9776 / 9U-9694	7J-9600		D8K
Z40903561550 **Z40903562100** **Z40753301050**			6Y-3394 8E-4743		6Y-3394 8E-4743		6Y-3394 8E-4743			6Y-3394 8E-4743	
Z40753301350 **Z40753301900** **Z40753300900**	7J-1791 / 8E-8418	7J-9600		6J-8811		7J-9600		4T-9776 / 9U-9694	7J-9600		D8L
Z40753301350 **Z40753301900** **Z40753300900**	7J-1791 / 8E-8418	7J-9600		6J-8811		7J-9600		4T-9776 / 9U-9694	7J-9600		
			6Y-3394 8E-4743		6Y-3394 8E-4743		6Y-3394 8E-4743			6Y-3394 8E-4743	
pag. 1.15	pag. 1.20	pag. 1.24	pag. 1.24	pag. 1.24	pag. 1.24	pag. 1.24	pag. 1.24	pag. 21	pag. 1.24	pag. 1.24	

Complete Ripper Shank







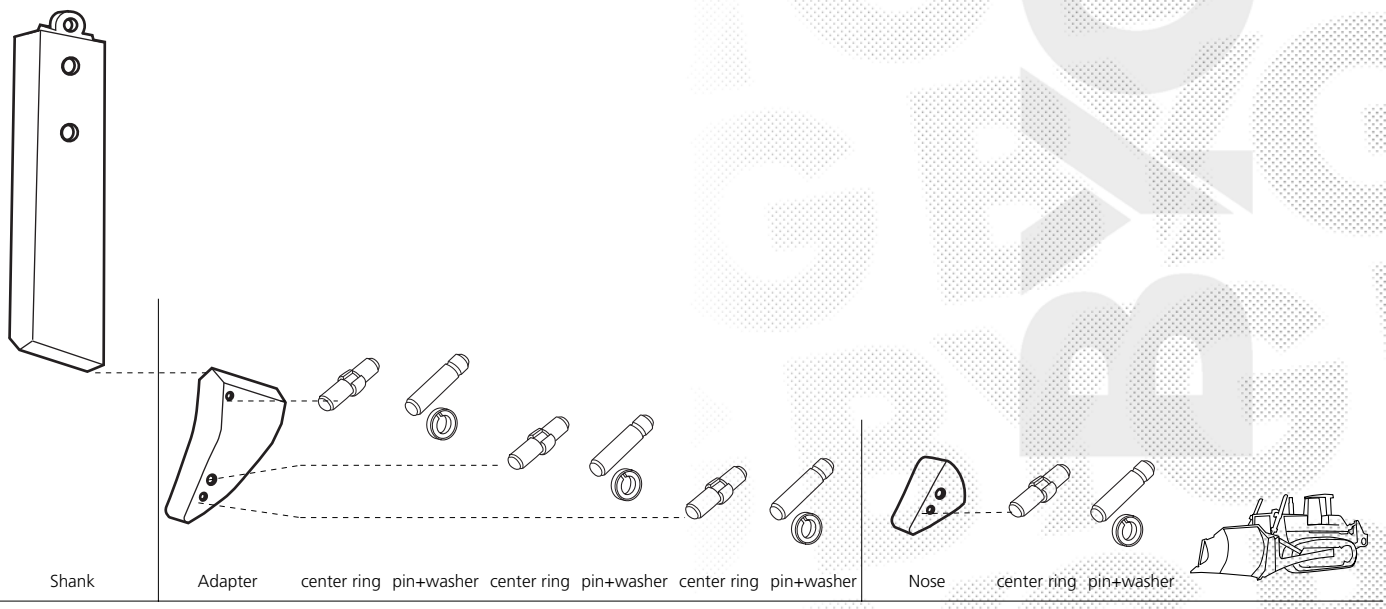
	Shank	Type	Protector	center ring	pin+washer	center ring	pin+washer	Tooth	center ring	pin+washer	
D8N	**4T-8989**	SS	6J-8814 / 132-4716	7J-9600		6J-8811		9W-2451 9W-2452 9W-2452 ST 8E-5570 114-0453 4T-5451 4T-5452 8E-5571	7J-9600		⇨
	4T-0134	DR									
	4T-8990	MS									
	8E-5347	SS	8E-1848		6Y-3394 8E-4743		6Y-3394 8E-4743			6Y-3394 8E-4743	
	8E-5340	DR									
	8E-5346	MS									
D9H	**7J-1792**	SS	6J-8814 / 132-4716	7J-9600		6J-8811		9W-2451 9W-2452 9W-2452 ST 8E-5570 114-0453 4T-5451 4T-5452 8E-5571	7J-9600		⇨
	7J-1793	DR									
	7J-1794	MS									
	107-3485	SS	8E-1848		6Y-3394 8E-4743		6Y-3394 8E-4743			6Y-3394 8E-4743	
	107-3486	DR									
	8E-5345	MS									
D9L	**3G-2088**	SS	1U-3644** / 6Y-9704***			3G-0500		4T-4501 4T-4502 4T-4502 ST 4T-4503 4T-5501 4T-5502 8E-5572 4T-5503	3G-0500		⇨
	9W-4427	DR		8J-4889		3G-0500			3G-0500		
	9J-5954	MS									
	6Y-6138	SS	9W-8365 / 9W-8365 EXT	3G-0500		3G-0500			3G-0500		
	6Y-6144	DR									
	6Y-6141	MS									
	8E-8414	SS			6Y-3909 4T-4707		6Y-3909 4T-4707			6Y-3909 4T-4707	
	8E-8416	DR									
	8E-8415	MS									
D9N	**9W-6167**	SS	6J-8814 / 132-4716	7J-9600		6J-8811		9W-2451 9W-2452 9W-2452 ST 8E-5570 114-0453 4T-5451 4T-5452 8E-5571	7J-9600		⇨
	4T-8988	DR									
	4T-8990	MS									
	8E-5339	SS	8E-1848		6Y-3394 8E-4743		6Y-3394 8E-4743			6Y-3394 8E-4743	
	8E-5348	DR									
	8E-5346	MS									
D10	*3G-5707*	SS	3G-9594**			3G-0500		4T-4501 4T-4502 4T-4502 ST 4T-4503 4T-5501 4T-5502 8E-5572 4T-5503	3G-0500		⇨
	3G-6507	MS									
	1V-4592	SS	1U-3644** / 6Y-9704***			3G-0500			3G-0500		
	1U-4873	MS		8J-4889		3G-0500			3G-0500		
	6Y-4679	MS	6Y-8960 / 6Y-8960 **EXT**	3G-0500		3G-0500			3G-0500		
	6Y-5616	MS									
	8E-8412	SS	6Y-8960 / 6Y-8960 **EXT**		6Y-3909 4T-4707		6Y-3909 4T-4707			6Y-3909 4T-4707	
	8E-8413	MS									
	pag. 1.15		pag. 1.16-1.19	pag. 1.24	pag. 1.24	pag. 1.24	pag. 1.24	pag. 1.22-1.23	pag. 1.24	pag. 1.24	

132-4716
9W-8365 **EXT**
6Y-8960 **EXT**
Protector 6J-8814, 9W-8365 and 6Y-8960 with an extension of the arm for major protection of the Ripper shank

1U-3644**
3G-9594**
Protectors with one hole

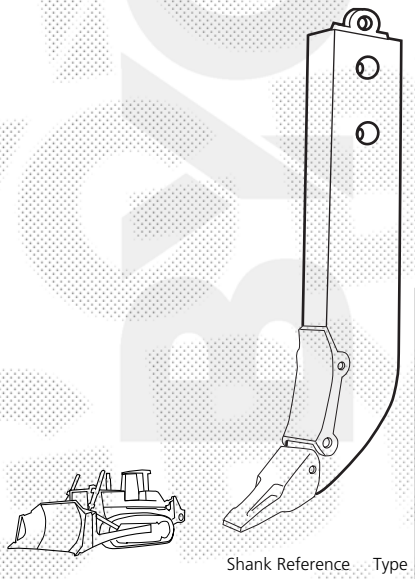
6Y-9704***
Protectors with one hole and an insert

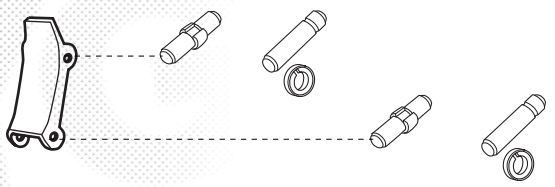
Repair Components of the Shank

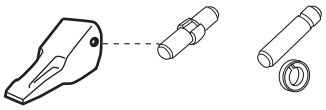


Shank	Adapter	center ring	pin+washer	center ring	pin+washer	center ring	pin+washer	Nose	center ring	pin+washer	
Z40753301450 **Z40753301900** **Z40753301050**	7J-1791	7J-9600		6J-8811		7J-9600		4T-9776	7J-9600		D8N
	/							/			
Z40753301450 **Z40753301900** **Z40753301050**	8E-8418		6Y-3394 8E-4743		6Y-3394 8E-4743		6Y-3394 8E-4743	9U-9694		6Y-3394 8E-4743	
Z40903561550 **Z40903562100** **Z40753301200**	7J-1791	7J-9600		6J-8811		7J-9600		4T-9776	7J-9600		D9H
	/							/			
Z40753301550 **Z40753302100** **Z40753301200**	8E-8418		6Y-3394 8E-4743		6Y-3394 8E-4743		6Y-3394 8E-4743	9U-9694		6Y-3394 8E-4743	
Z40903561750	1U-3630	8J-4889		3G-0500		3G-0500		4T-5819	3G-0500		D9L
								/			
Z40903562250 **Z40903561250**	1U-3630	8J-4889		3G-0500		3G-0500		103-8114		6Y-3909 4T-4707	
Z40903561600 **Z40903562100** **Z40903561100**	9W-9695	3G-0500		3G-0500		3G-0500		9W-9695P	3G-0500		
	/							/			
Z40903561100 **Z40903562100** **Z40903561100**	103-8115		6Y-3909 4T-4707		6Y-3909 4T-4707		6Y-3909 4T-4707	107-3361		6Y-3909 4T-4707	
Z40753301750 **Z40753302200** **Z40753301050**	7J-1791	7J-9600		6J-8811		7J-9600		4T-9776	7J-9600		D9N
	/							/			
Z40753301750 **Z40753302200** **Z40753301050**	8E-8418		6Y-3394 8E-4743		6Y-3394 8E-4743		6Y-3394 8E-4743	9U-9694		6Y-3394 8E-4743	
3G-5707 *3G-6507*	1U-3630			3G-0500		3G-0500		4T-5819	3G-0500		D10
								/			
Z40004002250		8J-4889		3G-0500		3G-0500		103-8114		6Y-3909 4T-4707	
Z40004001400											
Z40004002100 **Z40004001250**	9W-9695	3G-0500		3G-0500		3G-0500		9W-9695P	3G-0500		
	/							/			
Z40004002050 **Z40004001250**	103-8115		6Y-3909 4T-4707		6Y-3909 4T-4707		6Y-3909 4T-4707	107-3361		6Y-3909 4T-4707	
pag. 1.15	pag. 1.20	pag. 1.24	pag. 1.24	pag. 1.24	pag. 1.24	pag. 1.24	pag. 1.24	pag. 1.21	pag. 1.24	pag. 1.24	

Complete Ripper Shank







	Shank Reference	Type	Protector	center ring	pin+washer	center ring	pin+washer	Tooth	center ring	pin+washer	
D10N	**6Y-6138**	SS	1U-3644** / 6Y-9704**			3G-0500		4T-4501 4T-4502 4T-4502 ST 4T-4503 4T-5501 4T-5502 8E-5572 4T-5503	3G-0500		⇨
	9W-4427 **9J-5954**	DR MS		8J-4889		3G-0500			3G-0500		
	9W-8366 **6Y-6147** **6Y-6141**	SS DR MS	9W-8365 / 9W-8365 **EXT**	3G-0500		3G-0500			3G-0500		
	8E-8411 **8E-8417** **8E-8415**	SS DR MS			6Y-3909 4T-4707		6Y-3909 4T-4707			6Y-3909 4T-4707	
D11, D11N	**3G-6507**	MS	3G-9594**			3G-0500		4T-4501 4T-4502 4T-4502 ST 4T-4503 4T-5501 4T-5502 8E-5572 4T-5503	3G-0500		⇨
	1U-4873	MS	6Y-9704***	8J-4889		3G-0500			3G-0500		
	6Y-5616	MS	6Y-8960 / 6Y-8960 **EXT**	3G-0500		3G-0500			3G-0500		
	8E-8413	MS			6Y-3909 4T-4707		6Y-3909 4T-4707			6Y-3909 4T-4707	
	7T-6020 **9W-0259**	SS DR	9N-4621	9W-1821		9W-1821		9W-4551 9W-4552 6Y-3552	9W-1821		
	8E-0467 **8E-1466**	SS DR	9N-4621		8E-2229 8E-2230		8E-2229 8E-2230			8E-2229 8E-2230	
	pag. 1.15		pag. 1.16-1.19	pag. 1.24	pag. 1.24	pag. 1.24	pag. 1.24	pag. 1.22-1.23	pag. 1.24	pag. 1.24	

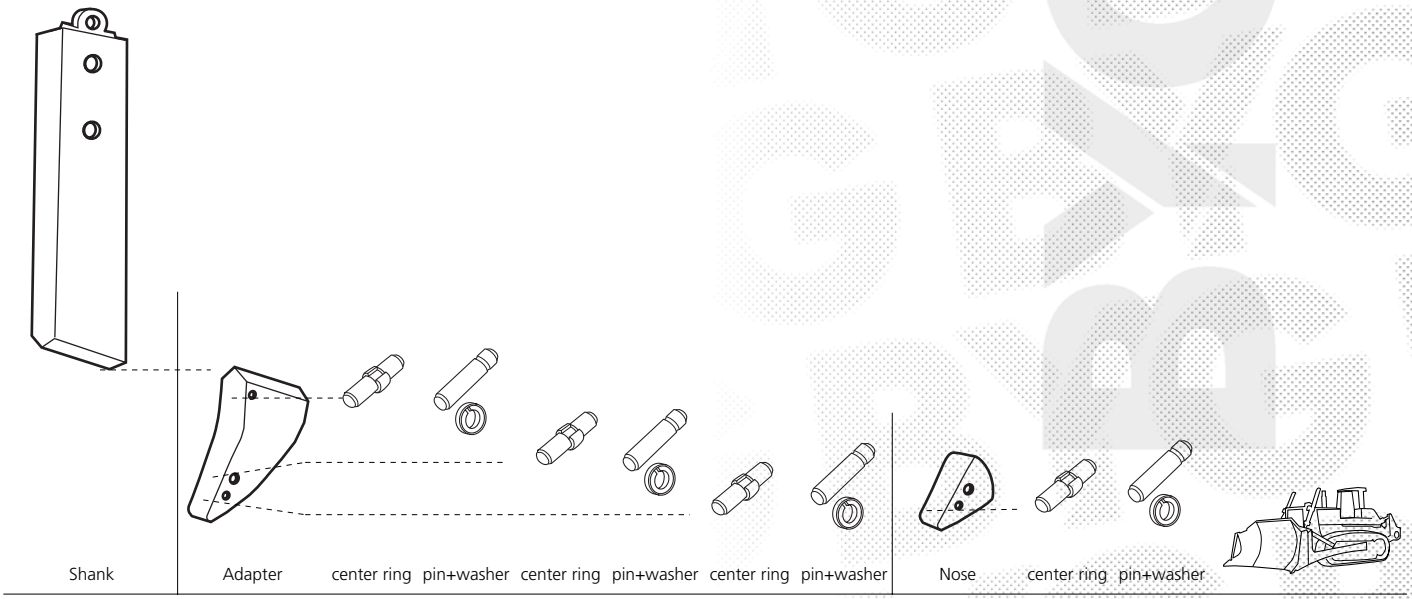
9W-8365 **EXT**
6Y-8960 **EXT**

Protector 6J-8814, 9W-8365 and 6Y-8960 with an extension of the arm for major protection of the Ripper shank

1U-3644**
3G-9594**
Protectors with one hole

6Y-9704***
Protectors of a hole and an insert

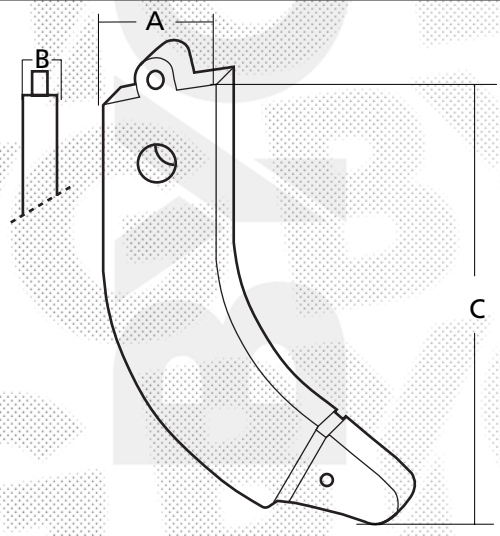
Repair Components of the Shank

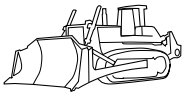
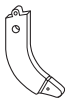


Shank	Adapter	center ring	pin+washer	center ring	pin+washer	center ring	pin+washer	Nose	center ring	pin+washer	
Z40903561600	1U-3630	8J-4889		3G-0500		3G-0500		4T-5819 / 103-8114	3G-500	6Y-3909 4T-4707	D10N
Z40903562250 **Z40903561250**											
Z40903801750 **Z40903802100** **Z40903561100**	9W-9695 / 103-8115	3G-0500	6Y-3909 4T-4707	3G-0500	6Y-3909 4T-4707	3G-0500	6Y-3909 4T-4707	9W-9695P / 107-3361	3G-500	6Y-3909 4T-4707	
Z40903801750 **Z40903802250** **Z40903561100**											
-	1U-3630			3G-0500		3G-0500		103-8114		6Y-3909 4T-4707	
Z40004001400	1U-3630	8J-4889		3G-0500		3G-0500		103-8114		6Y-3909 4T-4707	
Z40004001250	9W-9695 / 103-8115	3G-0500	6Y-3909 4T-4707	3G-0500	6Y-3909 4T-4707	3G-0500	6Y-3909 4T-4707	9W-9695P / 107-3361	3G-500	6Y-3909 4T-4707	D11, D11N
Z40004001250											
Z40014501550 **Z40014502100**	6Y-9473 6Y-9473 EXT / 104-9279 104-9279 EXT	9W-1821	8E-2229 8E-2230	9W-1821	8E-2229 8E-2230	9W-1821	8E-2229 8E-2230				
Z40014501550 **Z40014501650**											
pag.1.15	pag. 1.20	pag. 1.24	pag. 1.24	pag. 1.24	pag. 1.24	pag. 1.24	pag. 1.24	pag. 1.21	pag. 1.24	pag. 1.24	

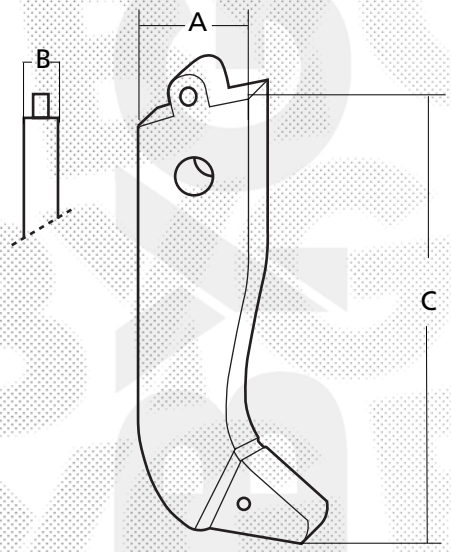
EXT - Extended adapter to support the two protector pins

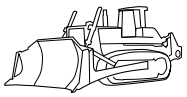
Small Ripper Shanks: Type C1



		mm A	B	C
943, 953	**1U-1257**	112 *4,41"*	50 *1,97"*	500 *19,69"*
D4, 941, 951, 955, 963, 12, 14, 130, 140, 143H, 160H	**6Y-0865**	140 *5,51"*	60 *2,36"*	478 *18,82"*
	9J-8913	140 *5,51"*	60 *2,36"*	508 *20,00"*
12, 14, 130, 140,	**9J-8923**	178 *7,01"*	75 *2,95"*	673 *26,50"*

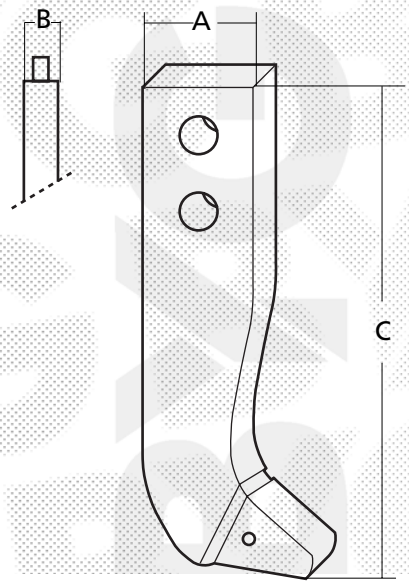
Small Ripper Shanks: Type S1

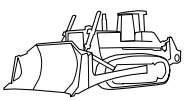


		mm A	B	C
D3, 931, 933, 939, D4C, 135H, 120H	**8J-5299**	75 *2,95"*	35 *1,38"*	438 *17,24"*
D4, 941, 951, 955, 963, 12, 14, 130, 140, 143H, 160H	**9J-6586**	140 *5,51"*	60 *2,36"*	530 *20,87"*
	*5K-1428**	- -	- -	- -
16, 973, 977, D5, D6	**9J-3139**	176 *6,93"*	75 *2,95"*	711 *27,99"*
	*5K-0245***	- -	- -	- -
D7	**9W-7382**	229 *9,02"*	75 *2,95"*	1238 *48,74"*
983	**7J-6671**	178 *7,01"*	75 *2,95"*	672 *26,46"*

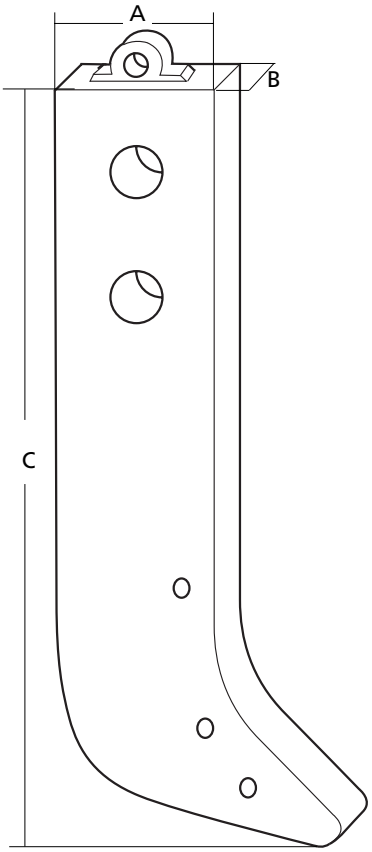
*5K-1428** Could be replaced by ref. 9J-6586 S1.
*5K-0245*** Could be replaced by ref. 9J-3139 S1.

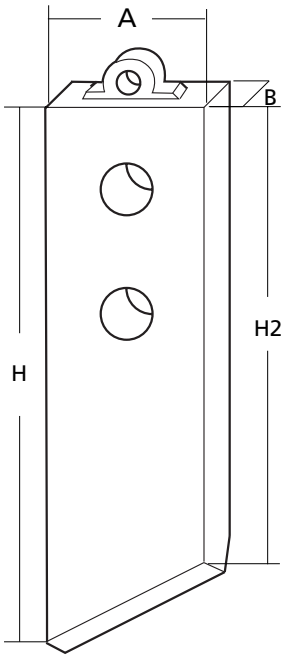
Small Ripper Shanks: Type S2



		mm A	B	C
16, 973, 977, D5, D6	**8J-3215**	176 *6,93"*	75 *2,95"*	850 *33,46"*

Ripper Shanks & Shanks' Arms

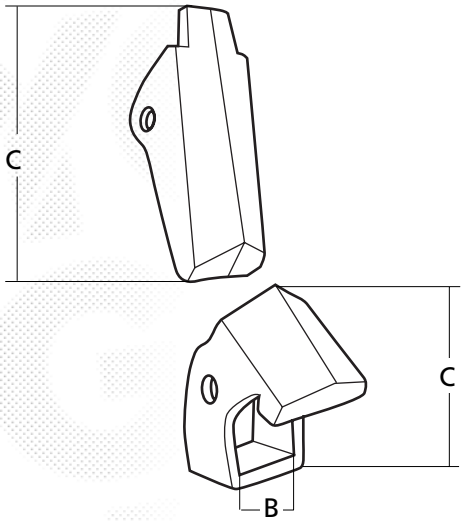




H2 - According to customer's specifications

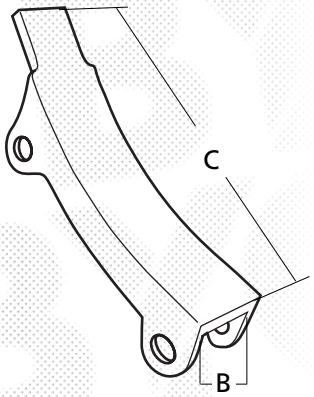
			mm						
			A	B	C	C"	H	H"	Holes
D7, D8, D9	**7J-2514**	**Z4075229******	228,6 *9,00"*	75 *2,95"*	1513	*59,57"*	-	-	**4**
	7J-2515	**Z4075229******			1345	*52,95"*	-	-	**4**
	7J-2459	**Z4075229******			1259	*49,57"*	-	-	**2**
D8K	**7J-1795**	**Z40753300900**	330,2 *13,00"*	75 *2,95"*	1579	*62,17"*	879	*34,61"*	**2**
D8K, D8N, D9N	**8E-5346**	**Z40753301050**			1610	*63,39"*	1010	*39,76"*	**2**
D8L	**4T-0135**	**Z40753301350**			1910	*75,20"*	1310	*51,57"*	**3**
D8L, D8N	**4T-0134**	**Z40753301900**			2454	*96,61"*	1854	*72,99"*	**3**
D8L	**4T-0136**	**Z40753300900**			1484	*58,43"*	884	*34,80"*	**2**
	8E-5342	**Z40753301350**			1910	*75,20"*	1310	*51,57"*	**3**
D8L, D8N	**8E-5340**	**Z40753301900**			2459	*96,81"*	1859	*73,19"*	**3**
D8L	**8E-5341**	**Z40753300900**			1499	*59,02"*	899	*35,39"*	**2**
D8N	**4T-8989**	**Z40753301450**			2016	*79,37"*	1416	*55,75"*	**3**
D8N, D9N	**4T-8990**	**Z40753301050**			1610	*63,39"*	1010	*39,76"*	**2**
D8N	**8E-5347**	**Z40753301450**			2019	*79,49"*	1419	*55,87"*	**3**
D9N	**4T-8988**	**Z40753302200**			2761	*108,70"*	2161	*85,08"*	**3**
D9H	**7J-1794**	**Z40753301200**			1758	*69,21"*	1158	*45,59"*	**2**
	8E-5345	**Z40753301200**			1763	*69,41"*	1163	*45,79"*	**2**
D9N	**9W-6167**	**Z40753301750**			2318	*91,26"*	1718	*67,64"*	**3**
	8E-5339	**Z40753301750**			2332	*91,81"*	1732	*68,19"*	**3**
	8E-5348	**Z40753302200**			2761	*108,70"*	2161	*85,08"*	**3**
D8K, D9H	**7J-1792**	**Z40903561550**	355,6 *14,00"*	90 *3,54"*	2142	*84,33"*	1542	*60,71"*	**4**
	7J-1793	**Z40903562100**			2700	*106,30"*	2100	*82,68"*	**6**
	107-3485	**Z40903561550**			2141	*84,29"*	1541	*60,67"*	**4**
	107-3486	**Z40903562100**			2700	*106,30"*	2100	*82,68"*	**6**
D9L	**3G-2088**	**Z40903561750**	355,6 *14,00"*	90 *3,54"*	2324	*91,50"*	1724	*67,87"*	**3**
D9L, D10N	**9W-4427**	**Z40903562250**			2825	*111,22"*	2225	*87,60"*	**3**
	9J-5954	**Z40903561250**			1809	*71,22"*	1209	*47,60"*	**2**
	6Y-6138	**Z40903561600**			2324	*91,50"*	1564	*61,57"*	**3**
D9L	**6Y-6144**	**Z40903562100**			2824	*111,18"*	2064	*81,26"*	**3**
D9L, D10N	**6Y-6141**	**Z40903561100**			1819	*71,61"*	1059	*41,69"*	**2**
	8E-8415	**Z40903561100**			1819	*71,61"*	1059	*41,69"*	**2**
D9L	**8E-8414**	**Z40903561100**			2324	*91,50"*	1564	*61,57"*	**3**
	8E-8416	**Z40903562100**			2824	*111,18"*	2064	*81,26"*	**3**
D10N	**9W-8366**	**Z40903801750**	380 *14,96"*	90 *3,54"*	2510	*98,82"*	1750	*68,90"*	**3**
	6Y-6147	**Z40903802100**			2825	*111,22"*	2065	*81,30"*	**3**
	8E-8411	**Z40903801750**			2510	*98,82"*	1750	*68,90"*	**3**
	8E-8417	**Z40903802250**			2997	*117,99"*	2237	*88,07"*	**3**
D10	**1V-4592**	**Z40004002250**	400 *15,75"*	100 *3,94"*	2802	*110,31"*	2202	*86,69"*	**4**
D10, D11N	**1U-4873**	**Z40004001400**			1968	*77,48"*	1368	*53,86"*	**2**
D10	**6Y-4679**	**Z40004002100**			2812	*110,71"*	2052	*80,79"*	**4**
D10, D11N	**6Y-5616**	**Z40004001250**			1977	*77,83"*	1217	*47,91"*	**2**
D10	**8E-8412**	**Z40004002050**			2812	*110,71"*	2042	*80,39"*	**4**
D10, D11N	**8E-8413**	**Z40004001250**			1977	*77,83"*	1217	*47,91"*	**2**
D11N	**7T-6020**	**Z40014501550**	450 *17,72"*	110 *4,33"*	2733	*107,60"*	1533	*60,35"*	**3**
	9W-0259	**Z40014502100**			3292	*129,61"*	2092	*82,36"*	**3**
	8E-0467	**Z40014501550**			2730	*107,48"*	1530	*60,24"*	**4**
	8E-1466	**Z40014501650**			2825	*111,22"*	1625	*63,98"*	**3**
D10	*3G-5707*	*3G-5707*	-	-	-	-	-	-	-
D10, D11N	*3G-6507*	*3G-6507*							

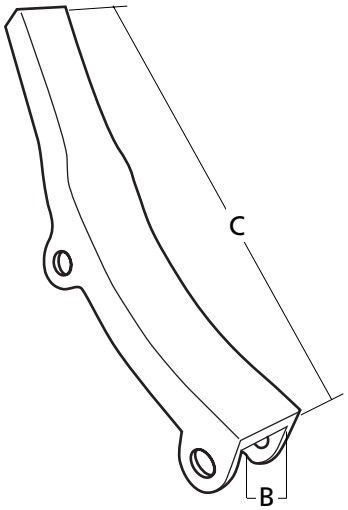
Ripper Protectors



mm. B	C	KG lb						
75 *2,95"*	80 *3,15"*	320 *12,60"*	10,00 *22,05*	**7J-2352**	**-**	7J-9600	-	7J-2588
75 *2,95"*	80 *3,15"*	250 *9,84"*	8,40 *18,52*	**-**	**7J-2351**	-	6J-8811	7J-2588

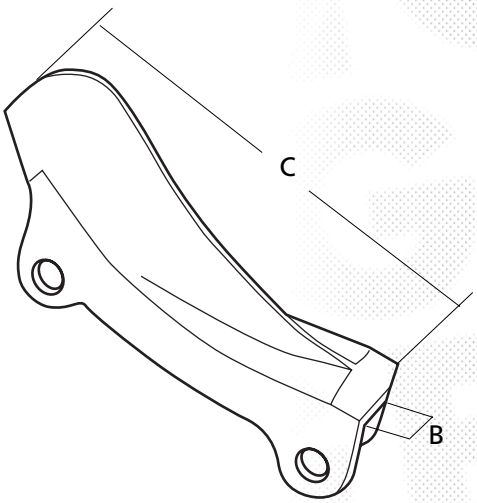
D7, D8, D9



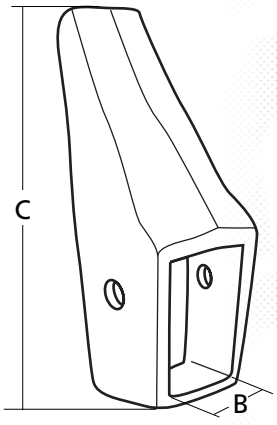


mm. B	C	KG lb										
75 *2,95"*	80 *3,15"*	432 *17,01"*	14,10 *31,08*	**6J-8814**	-	7J-9600	-	-	6J-8811	-	-	7J-1791	D8K, D8L, D8N, D9H, D9N
						-	6Y-3394	8E-4743	**-**	6Y-3394	8E-4743	8E-8418	
75 *2,95"*	80 *3,15"*	718 *28,27"*	24,50 *54,01*	-	**132-4716**	7J-9600	-	-	6J-8811	-	-	7J-1791	
						-	6Y-3394	8E-4743	-	6Y-3394	8E-4743	8E-8418	

Ripper Protectors

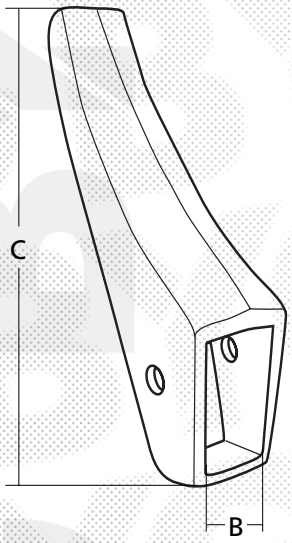


mm. B	C	KG lb									
75 *2,95"*	80 *3,15"*	486 *19,13"*	16,90 *37,26*	**8E-1848**	7J-9600 -	- 6Y-3394	- 8E-4743	6J-8811 -	- 6Y-3394	- 8E-4743	7J-1791 8E-8418	D8K, D8L, D9H, D9N

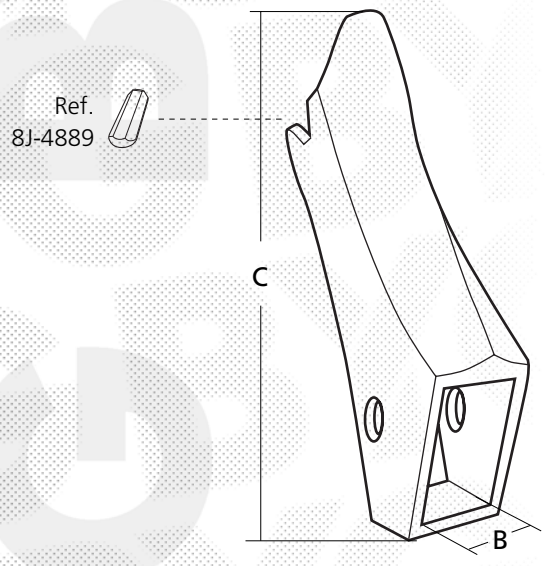


mm. B	C	KG lb				
90 *3,54"*	- -	-	*3G-9594*	3G-0500	1U-3630	D10, D11, D11N

Ripper Protectors

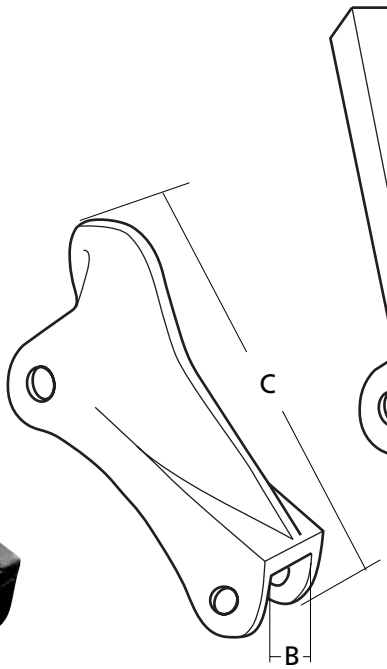


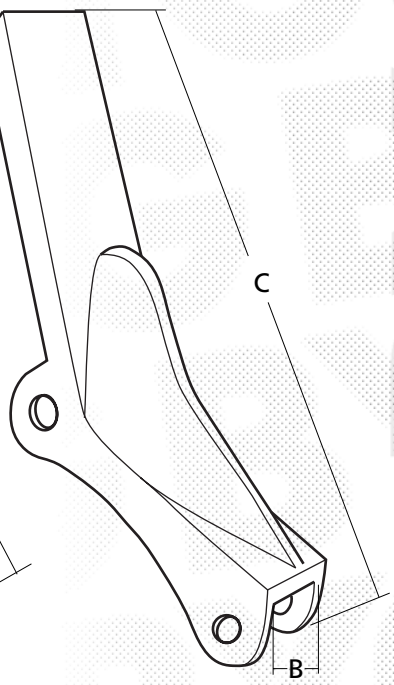
mm. A	B	KG lb				
90 *3,54"*	96 *3,78"*	737 *29,02"*	42,21 *93,06*	**1U-3644**	3G-0500	1U-3630	D9L, D10, D10N, D11, D11N

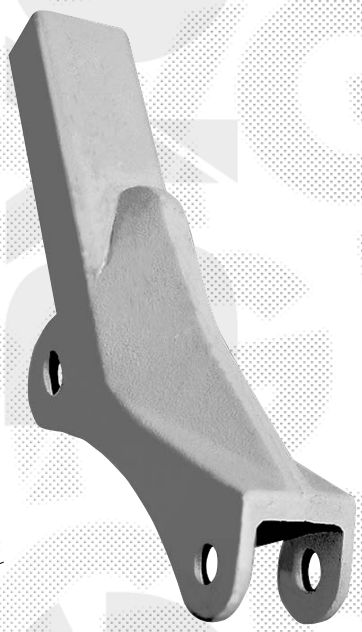


mm. A	B	KG lb					
90 *3,54"*	96 *3,78"*	740 *29,13"*	55,00 *121,25*	**6Y-9704**	8J-4889	3G-0500	1U-3630	D9L, D10, D10N, D11, D11N

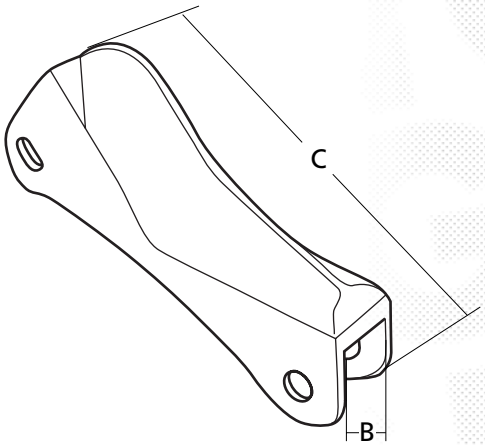
Ripper Protectors







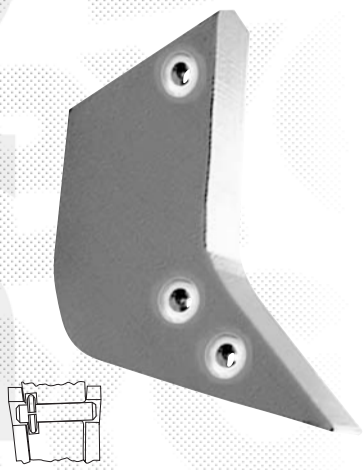
mm. A	B	KG lb										
90 *3,54"*	600 *23,62"*	39,40 *86,86*	**9W-8365**	-	3G-0500	6Y-3909	4T-4707	3G-0500	6Y-3909	4T-4707	9W-9695 103-8115	D9L, D10N
96 *3,78"*	890 *35,04"*	58,10 *128,09*	-	**9W-8365 EXT**	3G-0500	6Y-3909	4T-4707	3G-0500	6Y-3909	4T-4707	9W-9695 103-8115	D9L, D10N
108 *4,25"*	600 *23,62"*	38,70 *85,32*	**6Y-8960**	-	3G-0500	6Y-3909	4T-4707	3G-0500	6Y-3909	4T-4707	9W-9695 103-8115	D9L, D10, D10N, D11, D11N
108 *4,25"*	890 *35,04"*	56,80 *125,22*	-	**6Y-8960 EXT**	3G-0500	6Y-3909	4T-4707	3G-0500	6Y-3909	4T-4707	9W-9695 103-8115	D9L, D10, D10N, D11, D11N



mm. A	B	KG lb										
110 *4,33"*	740 *29,13"*	80,20 *176,81*	**9N-4621**	9W-1821	8E-2229	8E-2230		9W-1821	8E-2229	8E-2230	6Y-9473 6Y-9473 ETX 104-9279 104-9279 ETX	D9L, D10, D10N D11, D11N
120 *4,72"*												

Ripper Adapters

Mounted with center ring pin



Mounted with pin and washer

Mounted with center ring pin

Mounted with pin and washer

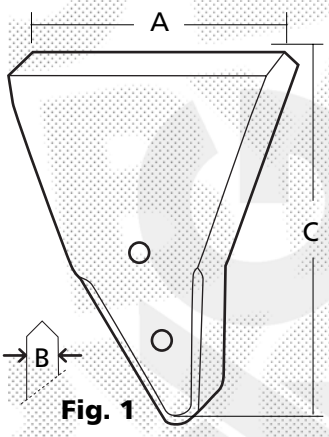


Fig. 1

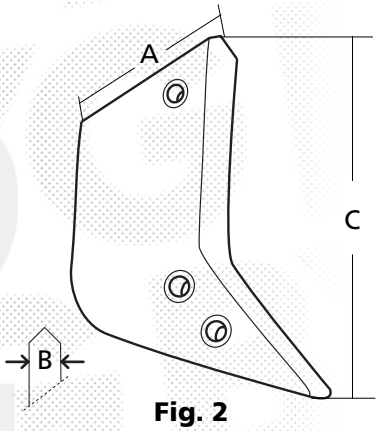


Fig. 2

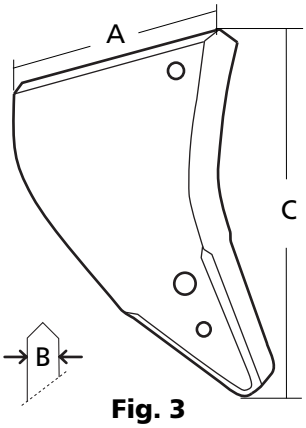


Fig. 3

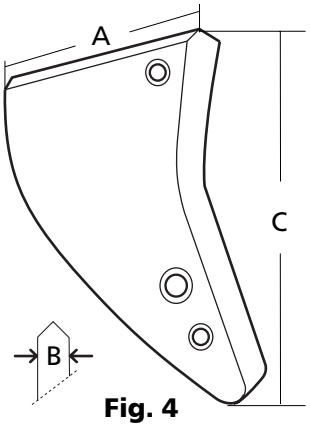
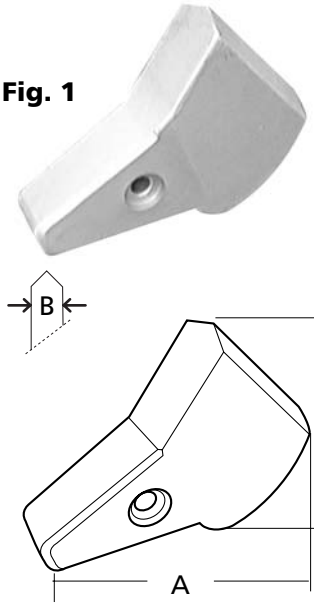


Fig. 4

	mm. A	B	C	Fig 1	Fig 2	Fig 3	Fig 4									
D4, 941, 951, 955, 963, 12, 14, 130, 140, 143H, 160H	-	-	-	-	-	-	-	-	-	-	-	4T-4302 9W-7309 6Y-0309	-	-	-	⇨
16, 973, 977, D5, D6, D7, 983	-	-	-	-	-	-	-	-	-	-	-	4T-4352 6Y-0359	-	-	-	⇨
D7, D8, D9	240 *9,45"*	75 *2,95"*	500 *19,69"*	-	**7J-2588**	-	-	7J-9600	-	6J-8811	-	7J-3309 7J-3310 7J-3312	6J-8811	-	7J-2514 7J-2515 7J-2459	⇨
D8K, D8L, D8N, D9H, D9N	360 *14,17"*	75 *2,95"*	600 *23,62"*	-	-	**7J-1791**	-	7J-9600	-	6J-8811	-	9W-2451 9W-2452 9W-2452 ST 8E-5570 114-0453 4T-5451 4T-5452 8E-5571	7J-9600	-	7J-1792 8E-5341 7J-1793 4T-8989 7J-1795 4T-0134 107-3485 4T-8990 107-3486 8E-5347 8E-5346 8E-5340 4T-0135 7J-1794 4T-0134 8E-5345 4T-0136 9W-6167 8E-5342 4T-8988 8E-5340 4T-8990	⇨
	360 *14,17"*	75 *2,95"*	600 *23,62"*	-	-	-	**8E-8418**	-	6Y-3394 8E-4743	-	6Y-3394 8E-4743		-	6Y-3394 8E-4743		
D9L, D10, D10N, D11, D11N	430 *16,93"*	90 *3,54"*	600 *23,62"*	**1U-3630**	-	-	-	-	-	3G-0500	-	4T-4501 4T-4502 4T-4502 ST 4T-4503 4T-5501 4T-5502 8E-5572 4T-5503	3G-0500	-	3G-2088 3G-6507 9W-4427 1V-4592 9J-5954 1U-4873	⇨
	450 *17,72"*	90 *3,54"*	760 *29,92"*	-		**9W-9695**		3G-0500	-	3G-0500	-		3G-0500	-	6Y-6138 6Y-5616 6Y-6144 8E-8412 6Y-6141 8E-8413 8E-8414 9W-8366 8E-8416 6Y-6147 8E-8415 8E-8411 6Y-4679 8E-8417	
	450 *17,72"*	90 *3,54"*	760 *29,92"*	-	-	-	**103-8115**		6Y-3909 4T-4707	-	6Y-3909 4T-4707		-	6Y-3909 4T-4707		
D11, D11N	500 *19,69"*	110 *4,33"*	800 *31,50"* / 1200 *47,24"*	-	-	**6Y-9473** - **6Y-9473 EXT**		9W-1821	-	9W-1821	-	9W-4551 9W-4552 6Y-3552	9W-1821	-	7T-6020 9W-0259 8E-0467 8E-1466	⇨
			800 *31,50"* / 1200 *47,24"*	-	-	**104-9279** **104-9279 EXT**		8E-2229 8E-2230	-	8E-2229 8E-2230			-	8E-2229 8E-2230		

Ripper Noses

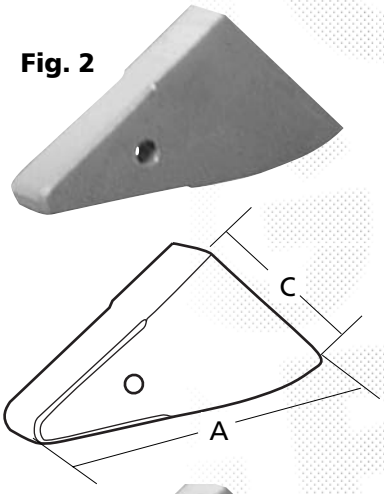
Fig. 1



Mounted with pin and washer

Mounted with center ring pin

Fig. 2



Mounted with center ring pin

Fig. 4

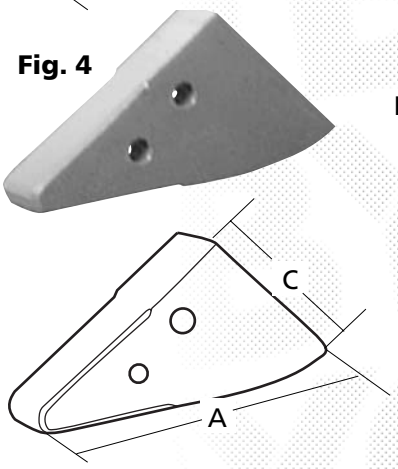
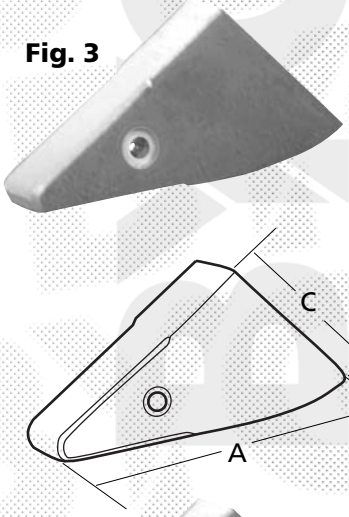
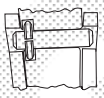


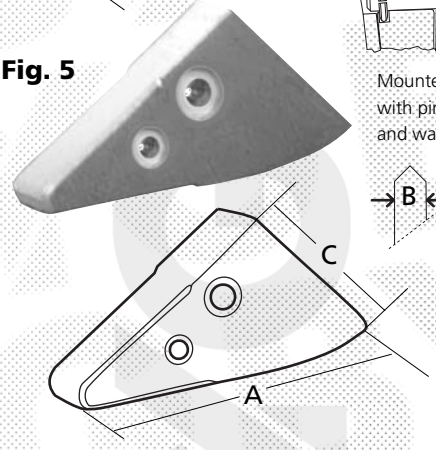
Fig. 3

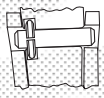




Mounted with pin and washer

Fig. 5





Mounted with pin and washer

mm. A	B	C	Fig 1	Fig 2	Fig 3	Fig 4	Fig 5								
200 *7,87"*	60 *2,36"*	150 *5,91"*	**8E-7300**	-	-	-	-	-	-	4T-4302 9W-7309 6Y-0309	-	9J-6583 1U-2405	-	D4, 941, 951, 955, 963, 12, 14, 130, 140, 143H, 160H
200 *7,87"*	75 *2,95"*	250 *9,84"*	**8E-7350**	-	-	-	-	-	-	4T-4352 6Y-0359	-	8E-6358 1U-2405	-	16, 973, 977,D5, D6, D7, 983
-	-	-	-	-	-	-	-	-	-	7J-3309 7J-3310 7J-3312	-	-	-	D7, D8, D9
230 *9,06"*	75 *2,95"*	320 *12,60"*	-	-	-	**4T-9776**	-	6J-8811	-	9W-2451 9W-2452 9W-2452 ST 8E-5570 114-0453 4T-5451 4T-5452 8E-5571	7J-9600	-	7J-1792 8E-5341 7J-1793 4T-8989 7J-1795 4T-0134 107-3485 4T-8990 107-3486 8E-5347 8E-5346 8E-5340 4T-0135 7J-1794 4T-0134 8E-5345 4T-0136 9W-6167 8E-5342 4T-8988 8E-5340 4T-8990	D8K, D8L, D8N, D9H, D9N
230 *9,06"*	75 *2,95"*	320 *12,60"*	-	-	-	-	-	-	6Y-3394 8E-4743		-	6Y-3394 8E-4743		
220 *8,66"*	90 *3,54"*	260 *10,24"*	-	**4T-5819**	-	-	-	-	-	4T-4501 4T-4502 4T-4502 ST 4T-4503 4T-5501 4T-5502 8E-5572 4T-5503	3G-0500	-	3G-2088 3G-6507 9W-4427 1V-4592 9J-5954 1U-4873 3G-5707 6Y-6138	D9L, D10, D10N, D11, D11N
220 *8,66"*	90 *3,54"*	260 *10,24"*	-	-	**103-8114**	-	-	-	-		-	6Y-3909 4T-4707		
260 *10,24"*	90 *3,54"*	350 *13,78"*	-	-	-	**9W-9695P**	-	3G-0500	-		3G-0500	-	6Y-6138 6Y-5616 6Y-6144 8E-8412 6Y-6141 8E-8413 8E-8414 9W-8366 8E-8416 6Y-6147 8E-8415 8E-8411 6Y-4679 8E-8417	
260 *10,24"*	90 *3,54"*	350 *13,78"*	-	-	-	-	**107-3361**	-	6Y-3909 4T-4707		-	6Y-3909 4T-4707		
-	-	-	-	-	-	-	-	-	-	9W-4551 9W-4552 6Y-3552	-	-	- -	D11, D11N
-	-	-	-	-	-	-	-	-	-		-	-	- -	

Ripper Teeth

Fig. 1

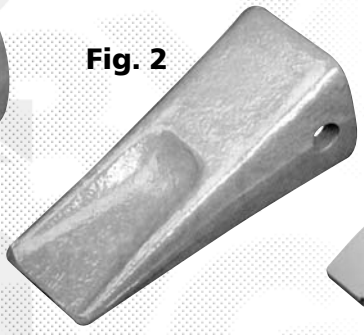


Fig. 2

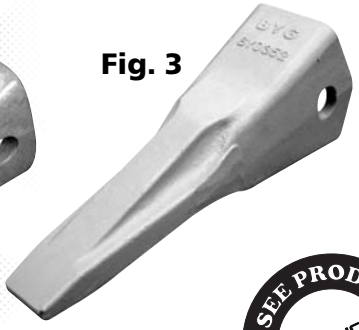


Fig. 3

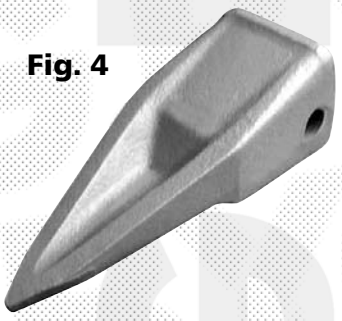
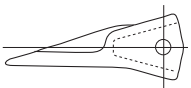
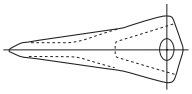


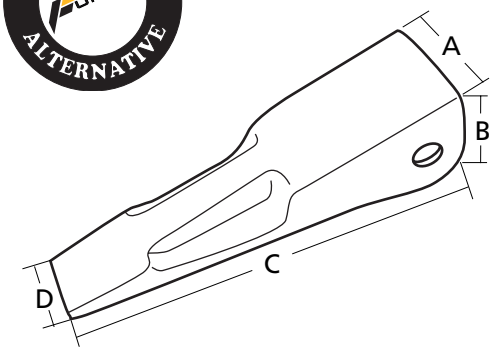
Fig. 4

Fig. 5


Penetration teeth: good penetration

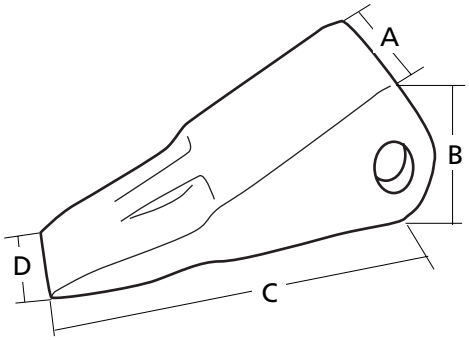

Symmetric teeth: more wear material

SEE PRODUCT - Futura - ALTERNATIVE



A	B	C	D	KG lb		Fig	Shape							
mm.														
56 2,20"	61 2,40"	146 5,75"	26 1,02"	1,00 2,20	**1U-3209**	**1**	Long		•	-	8E-6208 8E-6209	-		
- -	- -	- -	- -	- -	*9W-8209*	**4**	Sharp		•	-	8E-6208 8E-6209	-	D3	**R200**
61 2,40"	64 2,52"	145 5,71"	- -	1,40 3,09	**1U-3202**	**2**	Long		•	-	8E-6208 8E-6209	-		
76 2,99"	88 3,46"	193 7,60"	32 1,26"	2,40 5,29	**9J-4259**	**1**	Long		•	-	8E-6208 8E-6209	-		
65 2,56"	73 2,87"	164 6,46"	65 2,56"	2,29 5,05	**1U-3251**	**2**	Short		•	-	8E-6208 8E-6209	-	943, 953	**R250**
76 2,99"	89 3,50"	215 8,46"	- -	2,60 5,73	**1U-3252 TL** 9W-8259	**4**	Sharp		•	-	8E-6208 8E-6209	-		
80 3,15"	105 4,13"	270 10,63"	55 2,17"	5,40 11,90	**4T-4302** FC300 R2	**3**	Long	•		8J-1433	9J-6583 1U-2405	-		
73 2,87"	107 4,21"	270 10,63"	72 2,83"	5,50 12,13	**7K-0037**	**5**	Short		•	-	-	5K-1426 4K-0043		
86 3,39"	105 4,13"	241 9,49"	- -	4,40 9,70	**1U-3302 TL** 9W-7309	**4**	Sharp		•	8J-1433	9J-6583 1U-2405	-	D4, 963, 14, 12	**R300**
- -	- -	- -	- -	- -	*168-1309*	**10**	ARM		•	8J-1433	9J-6583 1U-2405	-		
82 3,23"	101 3,98"	287 11,30"	48 1,89"	5,40 11,90	**6Y-0309** FC300 R2	**6**	Long		•	8J-1433	9J-6583 1U-2405	-		
90 3,54"	130 5,12"	364 14,33"	50 1,97"	11,12 24,51	**6Y-0352** FC350 R2	**3**	Long	•		7J-9600	8E-6358 1U-2405	-		
108 4,25"	138 5,43"	385 15,16"	- -	11,12 24,51	**6Y-0352 TL**	**4**	Sharp		•	7J-9600	8E-6358 1U-2405	-	D5, D6, 973, 16, 977, D7	**R350**
105 4,13"	133 5,24"	360 14,17"	50 1,97"	11,50 25,35	**6Y-0359** FC350 R2	**6**	Long		•	7J-9600	8E-6358 1U-2405	-		
81 3,19"	132 5,20"	340 13,39"	80 3,15"	8,00 17,64	**7K-0038**	**5**	ARM		•	-	-	5K-1425 4K-0032		
- -	- -	- -	- -	- -	*159-0355*	**10**	Abrasive		•	7J-9600	8E-6358 1U-2405	-		
115 4,53"	137 5,39"	302 11,89"	110 4,33"	11,60 25,57	**7J-3309**	**7**	Abrasive	•		7J-9600	6Y-3394 8E-4743	-		
115 4,53"	137 5,39"	325 12,80"	88 3,46"	11,68 25,75	**7J-3310**	**7**	Intermed.	•		7J-9600	6Y-3394 8E-4743	-	D7, D8	**R400**
106 4,17"	127 5,00"	360 14,17"	68 2,68"	14,50 31,97	**7J-3312**	**7**	Long	•		7J-9600	6Y-3394 8E-4743	-		

Ripper Teeth



SEE PRODUCT - Future - ALTERNATIVE

Fig. 6

Fig. 7

Fig. 8

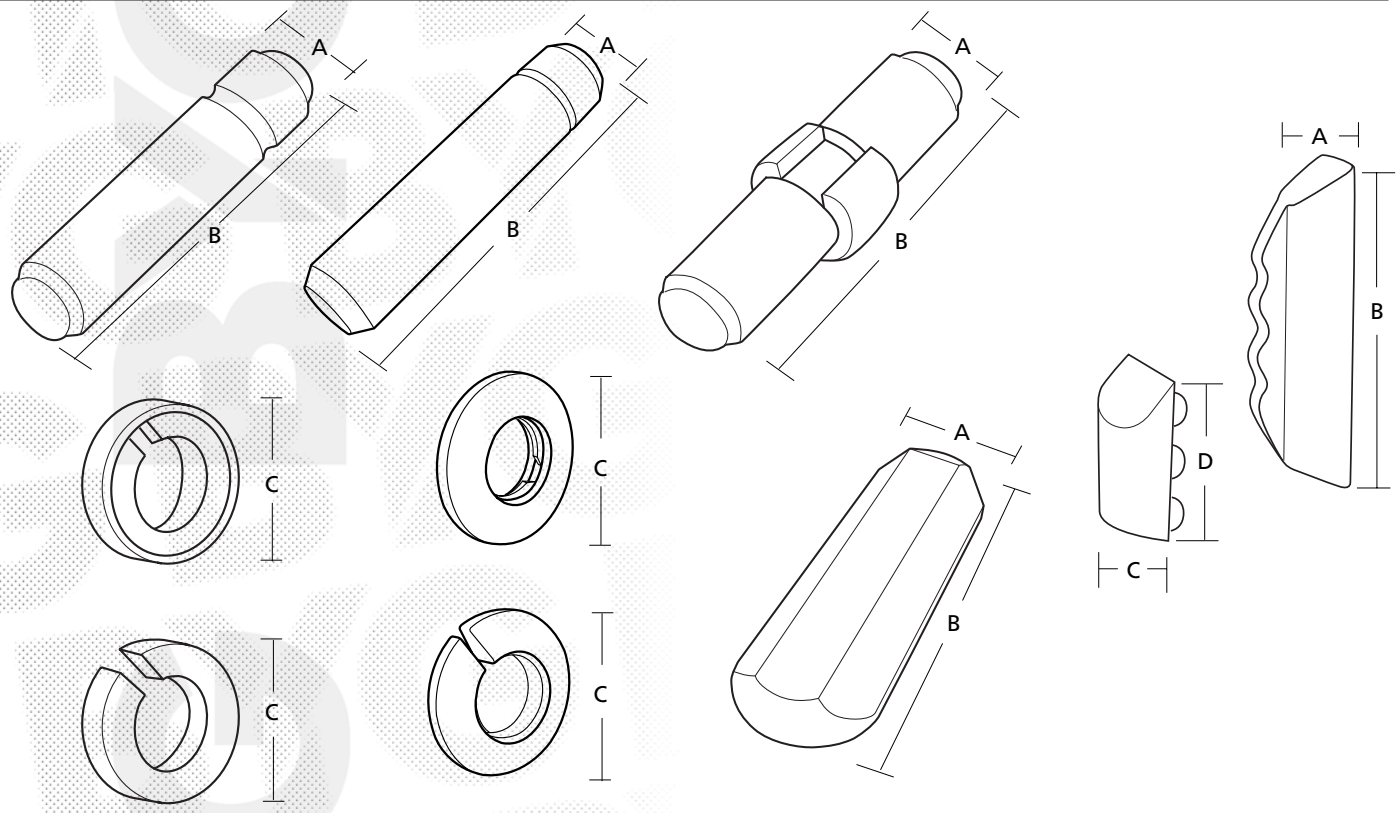
Fig. 9

Fig. 10

Fig. 11

mm. A	B	C	D	KG lb		Fig	Shape						
122 *4,80"*	163 *6,42"*	341 *13,43"*	78 *3,07"*	15,00 *33,07*	**9W-2451** FC450 R1	**8**	Short	•		7J-9600	6Y-3394 8E-4743		
127 *5,00"*	167 *6,57"*	379 *14,92"*	90 *3,54"*	21,00 *46,30*	**9W-2452** FC450 R2	**8**	intermed.	•		7J-9600	6Y-3394 8E-4743		
126 *4,96"*	170 *6,69"*	387 *15,24"*	78 *3,07"*	17,50 *38,58*	**9W-2452 ST**	**11**	Abrasive	•		7J-9600	6Y-3394 8E-4743		
- -	- -	- -	- -	- -	*8E-5770*	**10**	ARM	•		7J-9600	6Y-3394 8E-4743	D8, D8L, D9, D8 K, D8 C, D8 N, D9 H, D9 N	**R450**
126 *4,96"*	165 *6,50"*	425 *16,73"*	84 *3,31"*	20,00 *44,09*	**114-0453**	**3**	Long	•		7J-9600	6Y-3394 8E-4743		
125 *4,92"*	168 *6,61"*	340 *13,39"*	50 *1,97"*	14,60 *32,19*	**4T-5451** FC450 R1	**9**	Short		•	7J-9600	6Y-3394 8E-4743		
66,8 *2,63"*	166 *6,54"*	390 *15,35"*	54 *2,13"*	17,75 *39,13*	**4T-5452** FC450 R2	**9**	Intermed.		•	7J-9600	6Y-3394 8E-4743		
- -	- -	- -	- -	- -	*8E-5771*	**10**	ARM		•	7J-9600	6Y-3394 8E-4743		
- -	- -	- -	- -	- -	*4T-4501* FC500 R1	**8**	Short	•		3G-0500	6Y-3909 4T-4707		
152 *5,98"*	218 *8,58"*	440 *17,32"*	75 *2,95"*	30,00 *66,14*	**4T-4502** FC500 R2	**8**	Intermed.	•		3G-0500	6Y-3909 4T-4707		
152 *5,98"*	218 *8,58"*	453 *17,83"*	75 *2,95"*	30,30 *66,80*	**4T-4502 ST**	**11**	Abrasive	•		3G-0500	6Y-3909 4T-4707		
158 *6,22"*	216 *8,50"*	477 *18,78"*	73 *2,87"*	32,00 *70,55*	**4T-4503**	**3**	Long	•		3G-0500	6Y-3909 4T-4707		
- -	- -	- -	- -	- -	*8E-5774*	**10**	ARM	•		3G-0500	6Y-3909 4T-4707	D10N	**R500**
147 *5,79"*	214 *8,43"*	380 *14,96"*	80 *3,15"*	24,00 *52,91*	**4T-5501** FC500 R1	**9**	Short		•	3G-0500	6Y-3909 4T-4707		
152 *5,98"*	218 *8,58"*	440 *17,32"*	75 *2,95"*	27,30 *60,19*	**4T-5502** FC500 R2	**9**	Intermed.		•	3G-0500	6Y-3909 4T-4707		
- -	- -	- -	- -	- -	*8E-5772*	**10**	ARM		•	3G-0500	6Y-3909 4T-4707		
153 *6,02"*	223 *8,78"*	480 *18,90"*	76 *2,99"*	29,20 *64,37*	**4T-5503**	**6**	Long		•	3G-0500	6Y-3909 4T-4707		
180 *7,09"*	273 *10,75"*	456 *17,95"*	78 *3,07"*	40,80 *89,95*	**9W-4551** FC550 R1	**8**	Short	•		9W-1821	8E-2229 8E-2230		
- -	- -	- -	- -	- -	*9W-4552* FC550 R2	**8**	Intermed.	•		9W-1821	8E-2229 8E-2230	D10N, D11SS	**R550**
- -	- -	- -	- -	- -	*6Y-3552* FC550 R2	**9**	Intermed.		•	9W-1821	8E-2229 8E-2230		

Ripper Fasteners



mm. A	B	C	D												
11 *0,43"*	60 *2,36"*	19 *0,75"*	- -	-	-	-	-	**8E-6208**	**8E-6209**	-	-	-	-	-	**R200**
14 *0,55"*	81 *3,19"*	29 *1,14"*	- -	-	-	-	-	**8E-6258**	**8E-6259**	-	-	-	-	-	**R250**
19 *0,75"*	69 *2,72"*	23 *0,91"*	53 *2,09"*	**4K-0043**	**5K-1426**	-	-	-	-	-	-	-	-	-	
19 *0,75"*	88 *3,46"*	- -	- -	-	-	-	**8J-1433**	-	-	-	-	-	-	-	**R300**
19 *0,75"*	88 *3,46"*	38 *1,50"*	- -	-	-	-	-	**9J-6583**	-	**1U-2405**	-	-	-	-	
19 *0,75"*	108 *4,25"*	38 *1,50"*	- -	-	-	-	-	**8E-6358**	-	**1U-2405**	-	-	-	-	
21 *0,83"*	80 *3,15"*	23 *0,91"*	54 *2,13"*	**4K-0032**	**5K-1425**	-	-	-	-	-	-	-	-	-	**R350**
25,4 *1,00"*	128 *5,04"*	- -	- -	-	-	-	**7J-9600**	-	-	-	-	-	-	-	
31,75 *1,25"*	115 *4,53"*	- -	- -	-	-	-	**6J-8811**	-	-	-	-	-	-	-	**R400 / R450**
25,4 *1,00"*	128 *5,04"*	48 *1,89"*	- -	-	-	-	-	**6Y-3394**	**8E-4743**	-	-	-	-	-	
31,75 *1,25"*	153 *6,02"*	- -	- -	-	-	-	**3G-0500**	-	-	-	-	-	-	-	
31,75 *1,25"*	153 *6,02"*	64 *2,52"*	- -	-	-	-	-	-	-	-	**6Y-1204**	**6Y-1202**	**6Y-3909**	**4T-4707**	**R500**
34,93 *1,38"*	155 *6,10"*	- -	- -	-	-	-	**9W-1821**	-	-	-	-	-	-	-	
34,93 *1,38"*	170 *6,69"*	70 *2,76"*	- -	-	-	-	-	-	-	-	**9N-4245**	**6Y-1205**	**8E-2229**	**8E-2230**	**R550**
35 *1,38"*	115 *4,53"*	- -	- -	-	**8J-4889**	-	-	-	-	-	-	-	-	-	

Not reusable		Reusable		Not reusable		Reusable		
6Y-1204	>	**6Y-3909**		*6Y-1202*	>	**4T-4707**		**R500**
9N-4245	>	**8E-2229**		*6Y-1205*	>	**8E-2230**		**R550**

Cross Ref.
Not reusable system > reusable system

DRP

Esco

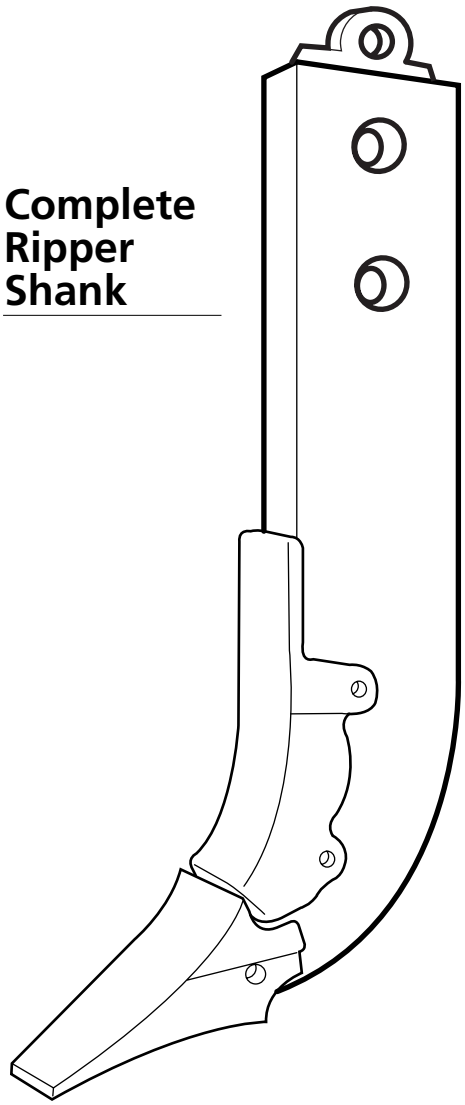
Ripper Shanks

Bold ref. number, product available

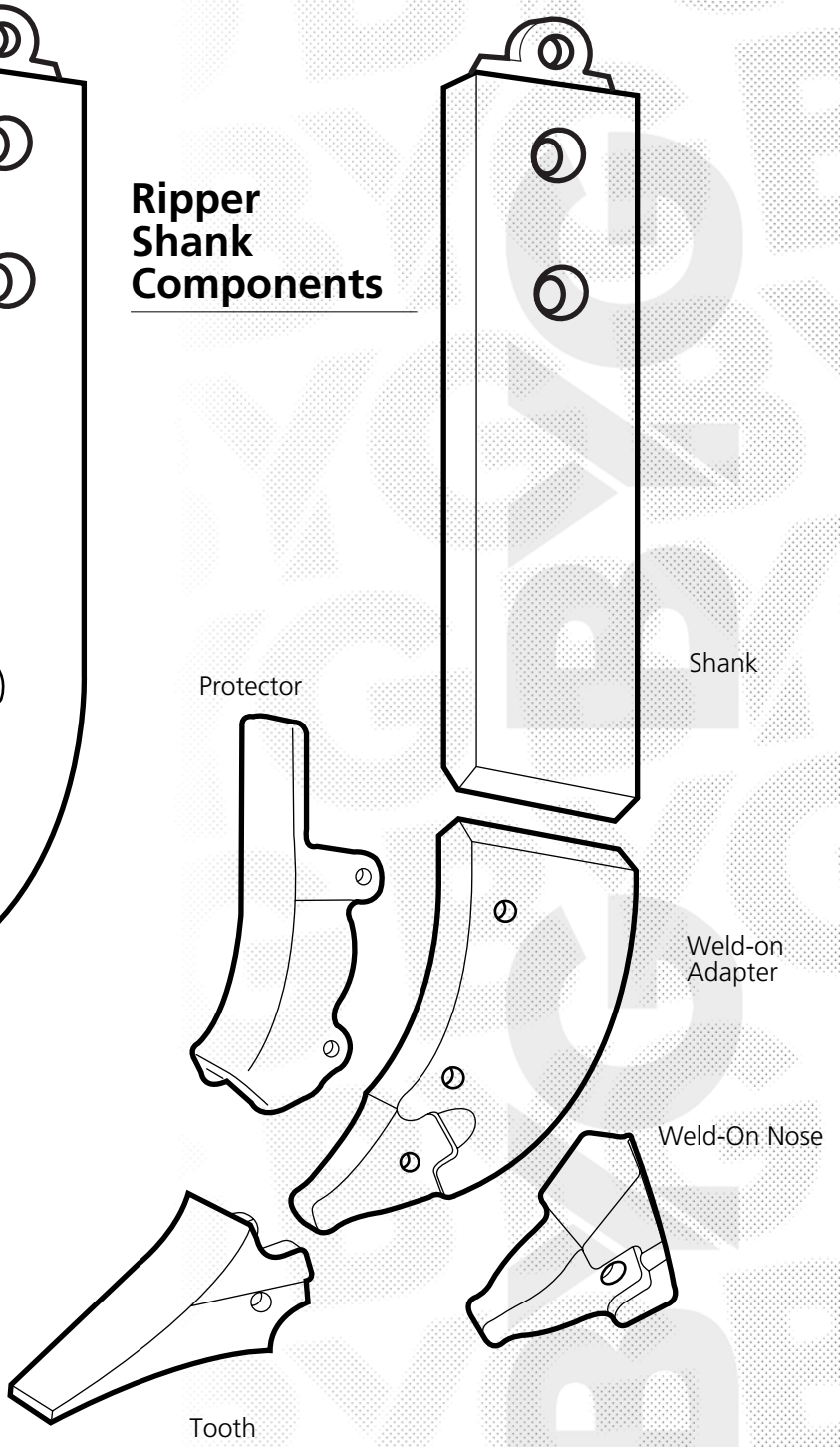
Other ref. number please consult.

Futura Alternative

Complete Ripper Shank



Ripper Shank Components



Rippers

What you need to know

Instructions for repairing an Esco Type Ripper Shank

The welding of an adapter on a ripper shank is delicate and requires the application of correct welding techniques as well as the employment of adequate measures. The success and the advantages of the ESCO system greatly depend on it.

General Rules

1 Weld with a rube thread according to norm aws A5 20: E71 T-5. This guarantees a very low contents of hydrogen.

2 Employ a gas with a composition of Ar + 25 % CO2. Specify that it must not contain any humidity. The recommended minimum Flow is 16,52 l/m.

3 During the whole welding process you have to work with absolute cleanliness. Do not rub the welding with gloves , rags, greasy bushes or other contaminating material.

4 It is very important to hammer the welding strings after each pass.

5 Preheat the area between 120° C and 200° C before welding has been carried out let cool off slowly. If needed, wrap an asbestos blanket around the ripper.

6 During the whole process make sure that the interpass temperature does not reach 250° C at a distance of 2 inches from the welding.

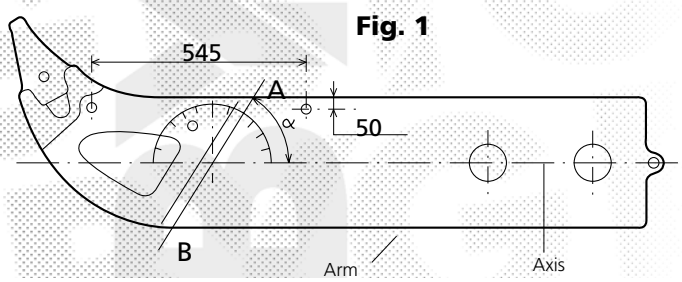
Welding Process

1 Place the ripper flat on the floor and draw a parallel line along its axis. *(Fig. 1)*

2 Determine the cutting angle degree. It is important to respect this angle to achieve a good penetration and sharpness of the tooth. Draw a line AB on the shank according to the angle .

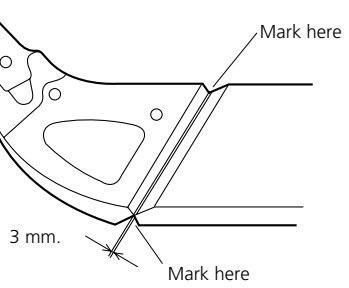
3 Place the adapter on the shank so that its welding bevel is kept parallel to the AB line. Move the adapter upwards and downwards considering carefully the adequate total length so that possible repairs, weldings or wear of the shank remain in the area that is going to be eliminated. Once the idea situation has been determined mark the cutting line that has to be parallel to AB. Withdraw the adapter.

Fig. 1



4 Preheat the area to be cut at 200ºC and carry out a first cut across the marked line *(Fig. 2)*. Maintaining the temperature at 200ºC. Cut bevels similar to the adapter. Clean off the rest of slag, oxyde etc. in case of using a grindstone with compressed air, avoid pointing the jet on the hot metal.

Fig. 2



5 Prepare the adapter in the same way eliminating any paint and dirt in the area that is to be welded.

6 Place the adapter in position so that the front border is in line with the front border of the shank. Preheat the assembly and weld. Follow the general welding instructions.

7 Make the first passes lengthwise the bevel making sure that the penbetration is 100%. Hammer after each welding string. Turn the assembly around and grind the first strings until you reach clean material. Continue welding alternatively on each side to correct deformations. Deformations are corrected by welding on the convex side. Make some more passes to ensure a thickness that can be ground remaining totally smooth without any cavity.

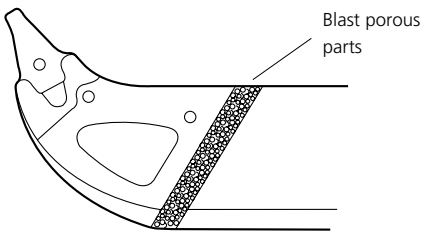
8 Once the welding has been finished blast the porous parts which have been accumulating at the end of each welding **(Fig. 3)**, with air until you reach clean material. Fill the space by welding in the same way.

9 Grind the welding carefully leaving the surface of the juntions smooth without roughness. Use a find grindstone for the last passes and grind always parallel with the length of the shank. In case of using a grindstone of compressed air, avoid the jet on the hot material.

10 Only once the welding process has been concluded verify if there are any cracks by using penetrating liquids. Any crack must be repared.

11 During the whole operation maintain the temperature under 260ºC.

Fig. 3



Codification of non OEM Ripper Shanks

The reference number of the shanks is composed of 5 blocks of characters. Each block indicates a characteristic of the shank.

A BB CC DDD EEEE

(12 characters without blank spaces)

A

The first block (one character) indicates the type of part.

R COMPLETE RIPPER SHANK
Z SHANK

Example:

R ** ** * ****

BB

The second block (2 characters) indicates the quality of the part (Brinell scale), as shown.

40 400 Brinell
45 450 Brinell
NX HIGH YIELD STRENGTH

Example:

R 40 ** * ****

CC

The third block (2 digits) indicates the shank thickness. The digits correspond exactly to the thickness (milimeters) with the exception of: 100mm, 110mm and 120mm thickness, as shown in the following list:

35 35mm. thickness (450 Brinell)
40 40mm. thickness (450 Brinell)
45 45mm. thickness (450 Brinell)
50 50mm. thickness (450 Brinell)
60 60mm. thickness (450 Brinell)
63 63mm. thickness (450 Brinell)
75 75mm. thickness (400 Brinell)
80 80mm. thickness (400 Brinell)
90 90mm. thickness (400 Brinell)
00 100mm. thickness (400 Brinell)
01 110mm. thickness (High Yield Strength)
02 120mm. thickness (High Yield Strength)

Example:

R 40 75 * ****

DDD

This block (3 digits) indicates the width of the shank, in milimeters.

Example:

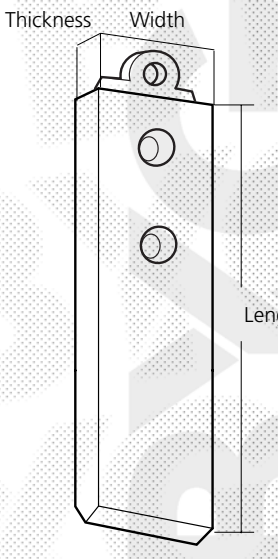
R 40 75 305 **

EEEE

The last block (4 digits) indicates the length (in milimeters) of the shank, always in multiples of 50mm.

Example:

R 40 75 305 1650



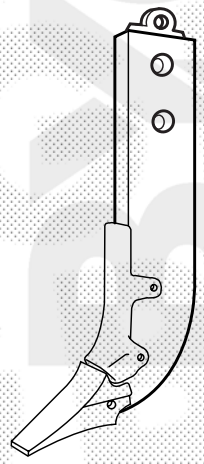
Reference example (12 characters without blank spaces)

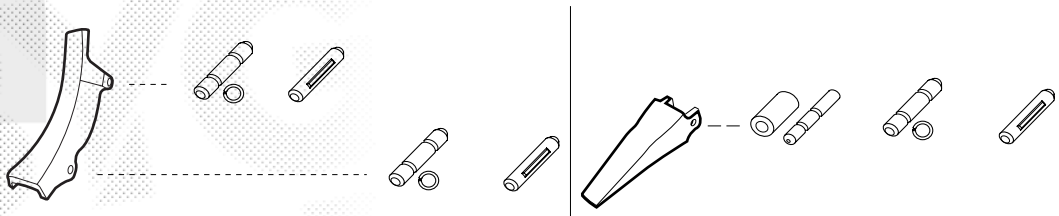
R40753051650

Type Quality Thickness Width Length

Customer should supply reference of teeth and protector to fit shank, number of holes and diameter of holes.

Complete Ripper Shank



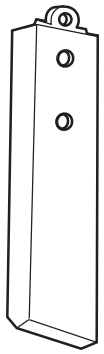


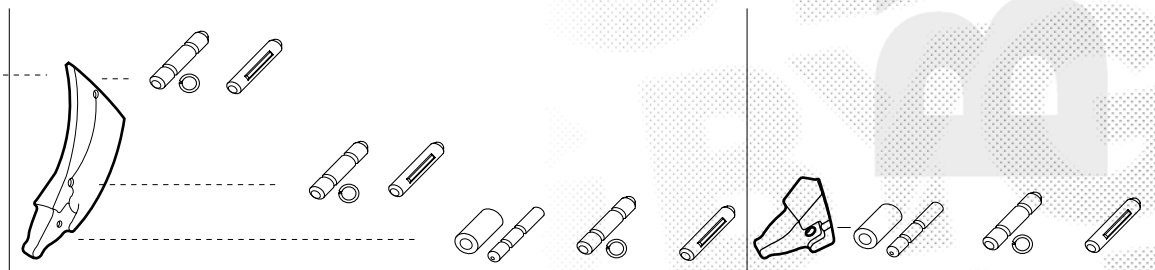
Power HP	Shank Reference	Protector	Pin+Washer	Pin	Pin+Washer	Pin	Tooth	Pin+Rubber	Pin+Washer	Pin	
60-100	**22-RC4**						22-R10	22-RPG 22-RBG			
100-160	**25-RC6**						25-R12 G25R 25-R12VIP	25-RPG 25-RBG			⇨
160-300	**35-RC9P4**	35-RSLH	35-RPH 49-SR		35-RPH 49-SR		35-R14A G35R	35-RPG 35-RBG			
	35-RK155						35-RH14A 35-RH15A 35-RH16-1A		35-RPH 49-SR		⇨
	35-RK9 C176										
	*35-5RK155-76**	35-5RSL		35-RSP		35-RSP	35-5R14 35-5R15			35-RSP	
	*35-5RC9P4**										
	39-RFA31-SHD										
	39-RK41-11						39-R16A	39-RPG 39-RBG			
	39-RK9 C176						39-R17E				
	39-RK9 C1104										
	39-RK9 DO76	39-RHSL	39-SPH 39-SRH		39-SPH 39-SRH						
	39-RC89						39-RH16A				
	39-RC8L						39-RH17E		49RP-39RPH 49-SR		
	39-RC9L						39-RH18A				
	39-RK355										
300-500	*39-5RC8L100**										⇨
	*39-5RC9L97**										
	*39-5RK375-84**										
	*39-5RC89PS4**										
	*39-5RC10-76**										
	*39-5RC9L70**	39-5RSLA		39-RSP		39-RSP	39-5R17A 39-5R18A			39-RSP	
	*39-5RC9L70-1**										
	39-5RC8-132										
	39-5RK375-130										
	39-5R375A-130										
	39-5RC9LPS-102										
	39-5R09L-101										
	Pag. 2.8	Pag. 2.9	Pag. 2.14	Pag. 2.14	Pag. 2.14	Pag. 2.14	Pag. 2.12-2.13	Pag. 2.14	Pag. 2.14	Pag. 2.14	

***** Cast Shank

Esco Ripper shanks can be replaced by CAT. shanks for example:
49-5RC9L Esco by 6Y-6138 CAT
49-5RC10 Esco by 6Y-4679 CAT
49-5RC11 Esco by 8E-0467 CAT
39-RC Esco by 7J-1792 CAT
39-RC8L Esco by 4T-0135 CAT

Repair Components of the Shanks

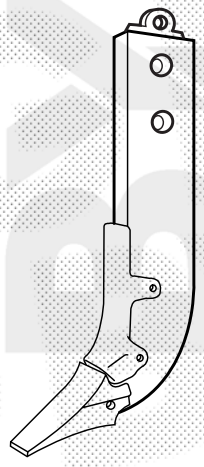


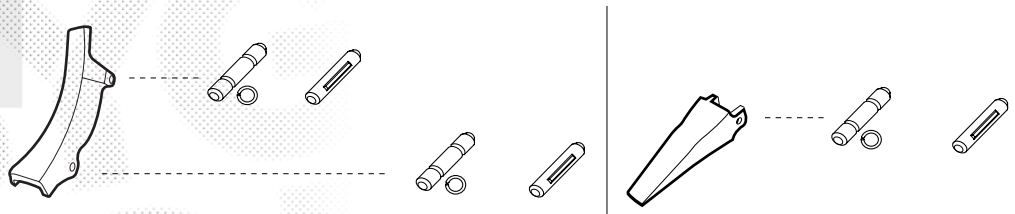


Arm of Shank	Adapter	Pin+ Washer	Pin	Pin+ Washer	Pin	Pin+Rubber	Pin+Washer	Pin	Nose	Pin+Rubber	Pin+Washer	Pin	Power HP
Z4560140	22-RNSEF (a) 22-RNSLF (b)					22-RPG 22-RBG			22-RN	22-RPG 22-RBG			60-100
Z4075178	25-RNSPF (c) 25-RNSEF (b)					25-RPG 25-RBG			25-RN	25-RPG 25-RBG			100-160
Z40753301150	35-RNSEF					35-RPG 35-RBG							
Z40753181150	35-RNSPF Short						35-RPH 49-SR		35-RN	35-RPG 35-RBG			
Z40753561450	35-RWNSA Long	35-RPH 49-SR		35-RPH 49-SR									160-300
Z40753561350 **Z40753301300**	35-5RWNS		35-RSP		35-RSP			35-RSP	35-5RN			35-RSP	
Z40014151450 **Z40014002700** **Z40903561350** **Z40903562050** **Z40903561650** **Z40903561400** **Z40753301200** **Z40903561550** **Z40903951500**	39-RWNS1A	39-SPH 39-SRH		39-SPH 39-SRH			49RP-39RPH 49-SR		39-RWN		49RP-39RPH 49-SR		
Z40753302050 **Z40903561900** **Z40903561550** **Z40753561550** **Z40903561350** **Z40903561200** **Z40903561200** **Z40903562750** **Z40903562700** **Z40903562700** **Z40903562000** **Z40903562000**	39-5RWNS		39-RSP		39-RSP			39-RSP	39-5RWN			39-RSP	300-500
Pag. 2.8	Pag. 2.10	Pag. 2.14	Pag. 2.14	Pag. 2.14	Pag. 2.14	Pag. 2.14	Pag. 2.14	Pag. 2.14	Pag. 2.11	Pag. 2.14	Pag. 2.14	Pag. 2.14	

a: Width of the adapter 51 mm
b: Width of the adapter 61mm
c: Width of the adapter 71mm

Complete Ripper Shank

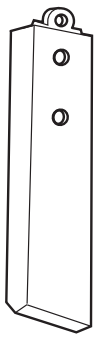


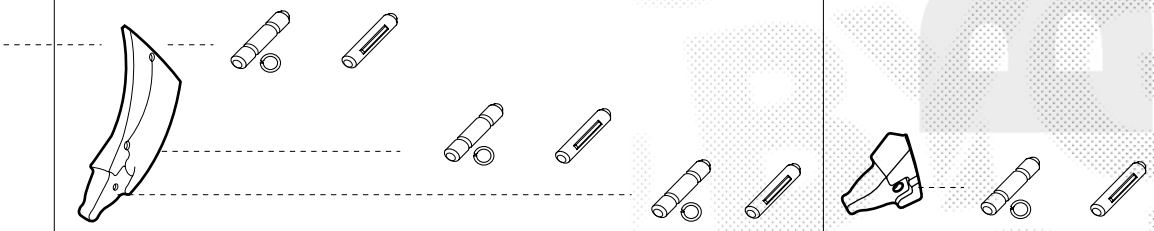


Power HP	Shank Reference	Protector	Pin+Washer	Pin	Pin+Washer	Pin	Tooth	Pin+Washer	Pin	
300-500	**39-5RC9H-84** **39-5RC9-84** **39-5RC8L-80** **39-5RK375A-71** **39-RC9H-70** **39-5RC9L-70** **39-5RC9-65** *39-5RCD10** **39-5RC10N-111** **39-5RD10-102** **39-59C9LPS-92** **39-59C9H-88A** **39-5RC9H-88** **39-5RK355P-72** **39-5RK375-72**	39-5RSLA		39-RSP		39-RSP	39-5R17A 39-5R18A		39-RSP	⇨
	49-RC10 **49-RC11** **49-RK375** **49-RK475**	49-RSL	49RP-39RPH 49-SR		49RP-39RPH 49-SR		49-R18A 49-R20E 49-R21V	49RP-39RPH 49-SR		
500-900	**49-5RC9L** **49-5RK455** **49-5RC10** **49-5RK375** **49-5RC11** *49-5RC10107** **49-5RC109-113** **49-5RC11N-107** **49-5RD11-107** **49-5RK475-102** **49-5RD11-102** **49-5RD11-101** **49-5RK475-87** **49-5RK475-84** **49-5RC9LPS-85**	49-5RSL		49-RSP		49-RSP	49-5R18 49-5R19V 49-5R21V		49-RSP	⇨
	Pag. 2.8	Pag. 2.9	Pag. 2.14	Pag. 2.14	Pag. 2.14	Pag. 2.14	Pag. 2.12-2.13	Pag. 2.14	Pag. 2.14	

***** Cast Shank

Repair Components of the Shanks

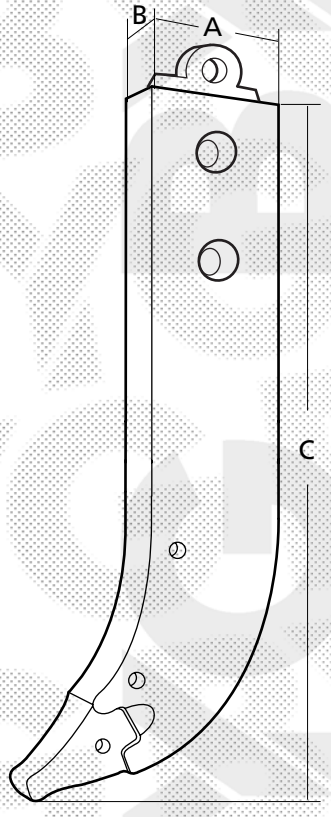




Arm of Shank	Adapter	Pin+Washer	Pin	Pin+Washer	Pin	Pin+ Washer	Pin	Nose	Pin+Washer	Pin	Power HP
Z40753301650											
Z40753301650											
Z40753301450											
Z40903601200	39-5RWNS										
Z40753301200											
Z40903561200											
Z40753301050											
Z40014001650			39-RSP		39-RSP		39-RSP	39-5RWN		39-RSP	300-500
Z40013802150											
Z40903802000											
Z40903562000	39-5RWNS2										
Z40903561650											
Z40903561650											
Z40904001100											
Z40903561250											
Z40004001850											
Z40014501800	49-RWNS1A	49RP-39-RPH 49-SR		49RP-39-RPH 49-SR		49RP-39-RPH 49-SR		49-RWN	49RP-39-RPH 49-SR		
Z40004001100											
Z40014601900											
Z40903561500											
Z40014601900											
Z40004001850											
Z40004001100											
Z40014501800											
Z40004001900											500-900
Z40004002050											
Z40014501900	49-5RWNS		49-RSP		49-RSP		49-RSP	❑			
Z40014501900											
Z40014601800											
Z40004001850											
Z40014501750											
Z40014601400											
Z40014601350											
Z40903561200											
	Pag. 2.8	Pag. 2.10	Pag. 2.14	Pag. 2.14	Pag. 2.14	Pag. 2.14	Pag. 2.14	Pag. 2.14	Pag. 2.11	Pag. 2.14	Pag. 2.14	Pag. 2.14

❑ Is not manufactured

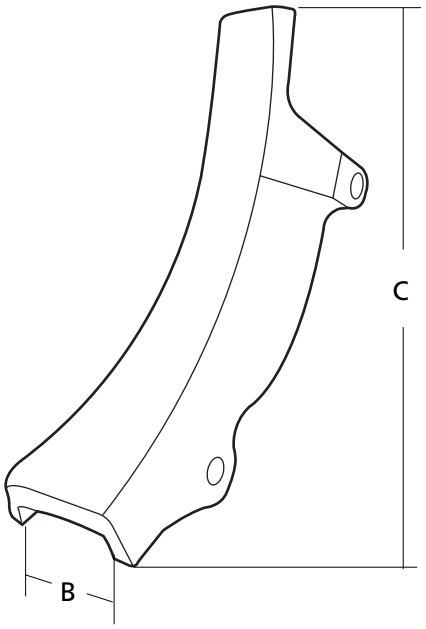
Ripper Shanks & Shanks´ Arms

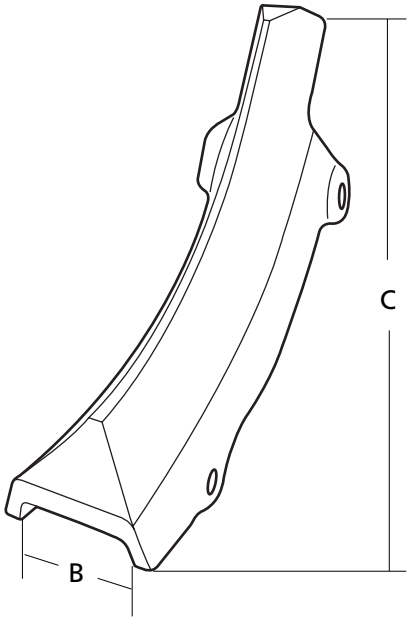


Power HP			mm. A	"	B	"	C	"	H	"	Holes
60-100	**22-RC4**	**Z4560140**	140	*5,51"*	60	*2,36"*	500	*19,69"*	-	-	**1**
100-160	**25-RC6**	**Z4075178**	178	*7,01"*	75	*2,95"*	600	*23,62"*	-	-	**1**
160-300	**35-RK155**	**Z40753181150**	318	*12,52"*	75	*2,95"*	1622	*63,86"*	1120	*44,09"*	**2**
	35-RC9P4	**Z40753301150**	330,2	*13,00"*	75	*2,95"*	1650	*64,96"*	1150	*45,28"*	**2**
	*35-5RC9P4**	**Z40753301300**					1772	*69,76"*	1265	*49,80"*	**2**
	35-RK9 C176	**Z40903561450**	355,6	*14,00"*	90	*3,54"*	1930	*75,98"*	1430	*56,30"*	**3**
	*35-5RK155-76**	**Z40903561350**			94	*3,70"*	1930	*75,98"*	1320	*51,97"*	**3**
300-500	**39-RC8L**	**Z40753301200**	330,2	*13,00"*	75	*2,95"*	1805	*71,06"*	1200	*47,24"*	**3**
	*39-5RC8L100**	**Z40753302050**					2540	*100,00"*	2032	*80,00"*	**4**
	39-5RC9H-84	**Z40753301650**					2134	*84,02"*	1626	*64,02"*	**4**
	39-5RC9-84	**Z40753301650**					2134	*84,02"*	1626	*64,02"*	**3**
	39-5RC8L-80	**Z40753301450**					2032	*80,00"*	1424	*56,06"*	**4**
	39-RC9H-70	**Z40753301200**					1778	*70,00"*	1168	*45,98"*	**2**
	39-5RC9-65	**Z40753301050**					1651	*65,00"*	1041	*40,98"*	**2**
	*39-5RC89PS4**	**Z40753561550**	355,6	*14,00"*	75	*2,95"*	2121	*83,50"*	1511	*59,49"*	**3**
	39-RC9L	**Z40903561550**	355,6	*14,00"*	90	*3,54"*	2125	*83,66"*	1525	*60,04"*	**4**
	39-RC89	**Z40903561400**					2035	*80,12"*	1400	*55,12"*	**3**
	39-RK9 C176	**Z40903561350**					1930	*75,98"*	1320	*51,97"*	**3**
	39-RK9 C1104	**Z40903562050**					2641	*103,98"*	2030	*79,92"*	**5**
	39-RK9 DO76	**Z40903561650**					1930	*75,98"*	1620	*63,78"*	**3**
	*39-5RC9L97**	**Z40903561900**					2464	*97,01"*	1854	*72,99"*	**4**
	*39-5RK375-84**	**Z40903561550**					2134	*84,02"*	1524	*60,00"*	**3**
	*39-5RC10-76**	**Z40903561350**					1930	*75,98"*	1320	*51,97"*	**2**
	*39-5RC9L70**	**Z40903561200**					1765	*69,49"*	1155	*45,47"*	**2**
	*39-5RC9L70-1**	**Z40903561200**					1765	*69,49"*	1155	*45,47"*	**2**
	39-5RC8-132	**Z40903562750**					3353	*132,01"*	2743	*107,99"*	**7**
	39-5RK375-130	**Z40903562700**					3302	*130,00"*	2692	*105,98"*	**7**
	39-5R375A-130	**Z40903562700**					3302	*130,00"*	2692	*105,98"*	**5**
	39-5RC9LPS-102	**Z40903562000**					2591	*102,01"*	1981	*77,99"*	**4**
	39-5R09L-101	**Z40903562000**					2565	*100,98"*	1955	*76,97"*	**4**
	39-59C9LPS-92	**Z40903562000**					2337	*92,01"*	1955	*76,97"*	**4**
	39-59C9H-88A	**Z40903561650**					2235	*87,99"*	1625	*63,98"*	**4**
	39-5RC9H-88	**Z40903561650**					2235	*87,99"*	1625	*63,98"*	**2**
	39-5RK375-72	**Z40903561250**					1829	*72,01"*	1219	*47,99"*	**2**
	39-5RC9L-70	**Z40903561200**					1765	*69,49"*	1155	*45,47"*	**2**
	39-5RK375A-71	**Z40903601200**	360	*14,17"*	90	*3,54"*	1797	*70,75"*	1187	*46,73"*	**2**
	39-5RD10-102	**Z40903802000**	380	*14,96"*	90	*3,54"*	2591	*102,01"*	1981	*77,99"*	**4**
	39-RK355	**Z40903951500**	395	*15,55"*	90	*3,54"*	2100	*82,68"*	1500	*59,06"*	**3**
	39-5RK355P-72	**Z40904001100**	400	*15,75"*	90	*3,54"*	1829	*72,01"*	1067	*42,01"*	**2**
	39-RFA31-SHD	**Z40014151450**	415	*16,34"*	100	*3,94"*	2050	*80,71"*	1450	*57,09"*	**3**
	39-5RC10N-111	**Z40013802150**	380	*14,96"*	100	*3,94"*	2870	*112,99"*	2108	*82,99"*	**3**
	*39-5RCD10**	**Z40014001650**	400	*15,75"*	100	*3,94"*	2405	*94,69"*	1643	*64,69"*	**2**
	39-RK41-11	**Z40014002700**	400	*15,75"*	114	*4,49"*	3300	*129,92"*	2690	*105,91"*	**6**
500-900	**49-5RC9LPS-85**	**Z40903561200**	355,6	*14,00"*	89	*3,50"*	2007	*79,02"*	1181	*46,50"*	**2**
	49-5RC9L	**Z40903561500**			90	*3,54"*	2355	*92,72"*	1500	*59,06"*	**4**
	49-RC10	**Z40004001850**	400	*15,75"*	100	*3,94"*	2695	*106,10"*	1845	*72,64"*	**4**
	49-RK375	**Z40004001100**					1451	*57,13"*	1056	*41,57"*	**4**
	49-5RC10	**Z40004001850**					2695	*106,10"*	1845	*72,64"*	**4**
	49-5RK375	**Z40004001100**					1451	*57,13"*	1056	*41,57"*	**4**
	*49-5RC10107**	**Z40004001900**					2718	*107,01"*	1892	*74,49"*	**3**
	49-5RC109-113	**Z40004002050**					2870	*112,99"*	2044	*80,47"*	**3**
	49-5RD11-102	**Z40004001800**					2591	*102,01"*	1765	*69,49"*	**4**
	49-RC11	**Z40014501800**	450	*17,72"*	110	*4,33"*	2651	*104,37"*	1800	*70,87"*	**4**
	49-5RC11	**Z40014501800**					2651	*104,37"*	1800	*70,87"*	**4**
	49-5RC11N-107	**Z40014501900**					2718	*107,01"*	1892	*74,49"*	**4**
	49-5RD11-107	**Z40014501900**					2718	*107,01"*	1892	*74,49"*	**3**
	49-RK475	**Z40014601900**	460	*18,11"*	110	*4,33"*	2730	*107,48"*	1880	*74,02"*	**5**
	49-5RK455	**Z40014601900**					2730	*107,48"*	1880	*74,02"*	**5**
	49-5RD11-101	**Z40014501750**	450	*17,72"*	114	*4,49"*	2565	*100,98"*	1739	*68,46"*	**4**
	49-5RK475-102	**Z40014601800**	460	*18,11"*			2591	*102,01"*	1765	*69,49"*	**3**
	49-5RK475-87	**Z40014601400**					2210	*87,01"*	1384	*54,49"*	**4**
	49-5RK475-84	**Z40014601350**					2134	*84,02"*	1304	*51,34"*	**4**

***** Cast Shank

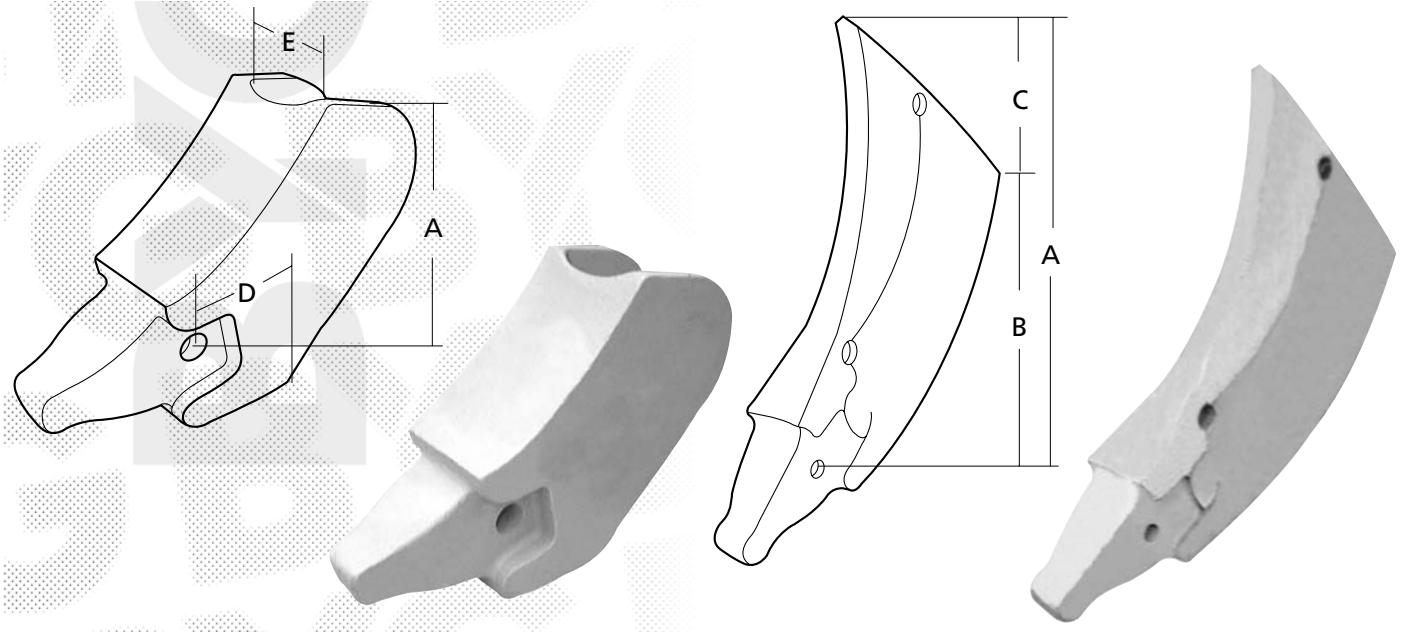
Ripper Protectors





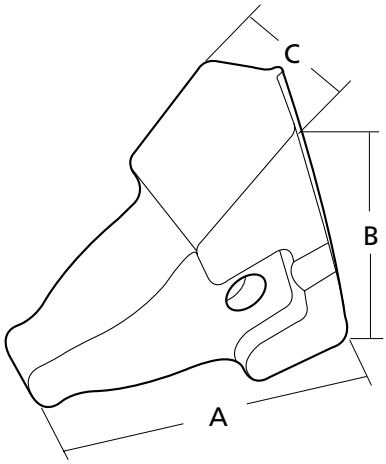
mm. B	C	KG lb						Power HP
60 2,36"	75 2,95"	90 3,54"	70 2,76"	537 21,14"	- -	-	*35-RSLH*	35-RPH 49-SR	35-RPH 49-SR	35-RWNSA	160-300
60 2,36"	75 2,95"	90 3,54"	70 2,76"	537 21,14"	24,00 52,91	*35-5RSL*	-	35-RSP	35-RSP	35-5RWNS	
75 2,95"	90 3,54"	100 3,94"	85 3,35"	580 22,83"	30,70 67,68	-	**39-RHSL** FE39 RPT	39-SPH 39-SRH	39-SPH 39-SRH	39-RWNS1A	300-500
75 2,95"	90 3,54"	100 3,94"	85 3,35"	591 23,27"	41,30 91,05	*39-5RSLA*	-	39-RSP	39-RSP	39-5RWNS 39-5RWNS2	
- -	- -	- -	- -	- -	- -	-	*49-RSL*	49RP-39RPH 49-SR	49RP-39RPH 49-SR	49-RWNS1A	500-900
100 3,94"	110 4,33"	115 4,53"	100 3,94"	664 26,14"	42,20 93,03	*49-5RSL*	-	49-RSP	49-RSP	49-5RWNS	

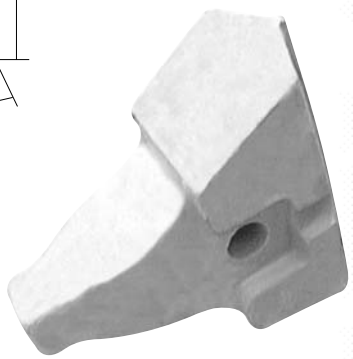
Ripper Adapters

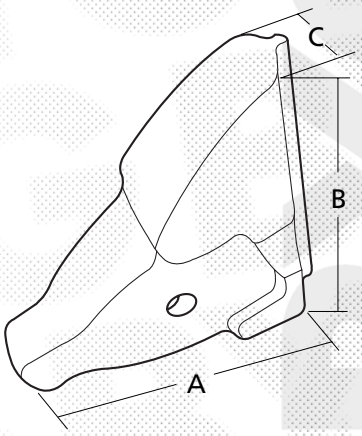


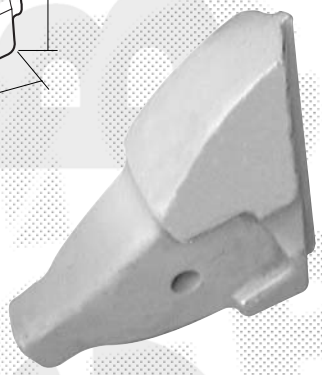
Power HP	mm. A	B	C	D	E											
60 100	138 *5,43"*	-	-	75 *2,95"*	51 *2,01"* 61 *2,40"*	**22-RNSEF** *22-RNSLF*	-	-	-	-	22-R10	22-RPG 22-RBG	**a**	22-RC4		⇨
100 160	173 *6,81"*	-	-	71 *2,80"*	61 *2,40"* 71 *2,80"*	**25-RNSEF** **25-RNSPF**	-	-	-	-	25-R12 G25R 25-R12VIP	25-RPG 25-RBG	**a**	25-RC6		⇨
160 300	173 *6,81"* 166 *6,54"* 508 *20,00"* 508 *20,00"*	- - 305 305	- - *12,01"* *12,01"*	78 *3,07"* 86 *3,39"* 203 *7,99"* 203 *7,99"*	71 *2,80"* 83 *3,27"* 70 *2,76"* 70 *2,76"*	**35-RNSEF** **35-RNSPF** **35-RWNSA** *35-5RWNS*	- - 35-RPH 49-SR	- - - 35-RSP	- - 35-RPH 49-SR 35-RSP	- - - 35-RSP	35-R14A G35R 35-RH14A 35-RH15A 35-RH16-1A 35-5R14 35-5R15	35-RPG 35-RBG 35-RPH 49-SR 35-RSP	**a** **b** **c**	35-RC9P4 35-RK155 35-RK9 C176 35-5RK155-76 35-5RC9P4		⇨
300 500	610 *24,02"* 610 *24,02"* 610 *24,02"*	356 *14,02"* 356 *14,02"* 356 *14,02"*	254 *10,00"* 254 *10,00"* 254 *10,00"*	- - - - - -	85 *3,35"* 103 *4,06"* 85 *3,35"*	**39-RWNS1A** *39-5RWNS2* *39-5RWNS*	39-SPH 39-SRH 39-RSP		39-SPH 39-SRH 39-RSP		39-R16A 39-R17E 39-RH16A 39-RH17E 39-RH18A 39-5R17A 39-5R18E	39-RPG 39-RBG 49RPH-39RPH 49-SR 39-RSP	**a** **b** **c**	39-RFA31-SHD 39-RK41-11 39RK9 C176 39-RK9 C1104 39-RK9 D076 39-5RCD10 39-5RC10N-111 39-5R10-102 39-59C9LPS-92 39-5RC8L100 39-5RC9L97 39-5RK375-84 39-5RC89PS4 39-5RC10-76 39-5RC9L70 39-5RC9L70-1 39-5RC8-132 39-5RK375-130 39-5R375A-130	39-RC89 39-RC8L 39-RC9L 39-RK355 39-59C9H-88A 39-5RC9H-88 39-5RK355-72 39-5RK375-72 39-5RC9LPS-102 39-5R09L-101 39-5RC9H-84 39-5RC9-84 39-5RC8L-80 39-5RC8L-80 39-5RK375A-71 39-RC9H-70 39-5RC9L-70 39-5RC9-65	⇨
-	- -					*49-RWNS1A*	49RPH-39RPH 49-SR		49RPH-39RPH 49-SR		49-R18A 49-R20EA 49-R21V	49RPH-39RPH 49-SR	**b**	49-RC10 49-RC11	49-RK375 49-RK475	
500 900	815 *32,09"*	524 *20,63"*	456 *17,95"*	- -	103 *4,06"*	*49-5RWNS*		49-RSP		49-RSP	49-5R18 49-5R19V 49-5R21V	49-RSP	**c**	49-5RK455 49-5RC9L 49-5RC10 49-5RC10107 49-5RC109-113 49-5RC11N-107 49-5RD1-107 49-5RK475-102	49-5RK375 49-5RC11 49-5RD11-102 49-5RD11-101 49-5RK475-87 49-5RK475-84 49-5RC9LPS-85	⇨

Ripper Noses









mm. A	B	C									Power HP
171 *6,73"*	145 *5,71"*	78 *3,07"*	*22-RN*		22-R10	22-RPG 22-RBG				22-RC4	60-100
190 *7,48"*	168 *6,61"*	90 *3,54"*	**25-RN**		25-R12 G25R 25-R12VIP	25-RPG 25-RBG				25-RC6	100-160
253 *9,96"*	225 *8,86"*	113 *4,45"*	**35-RN**		35-R14A G35R 35-RH14A 35-RH15A 35-RH16-1A	35-RPG 35-RBG	35-RPH 49-SR			35-RC9P4 35-RK155 35-RK9 C176	160-300
236 *9,29"*	216 *8,50"*	113 *4,45"*	*35-5RN*		35-5R14 35-5R15			35-RSP		35-5RK155-76 35-5RC9P4	
330 *12,99"*	243 *9,57"*	128 *5,04"*		**39-RWN**	39-R16 39-R17E 39-RH16A 39-RH17E 39-RH18A	39-RPG 39-RBG	49RP-39RPH 49-SR		39-RFA31-SHD 39-RK41-11 39-RK9 C176 39-RK9 C1104 39-RK9 DO76	39-RC89 39-RC8L 39-RC9L 39-RK355	
330 *12,99"*	243 *9,57"*	128 *5,04"*		*39-5RWN*	39-5R17A 39-5R18A			39-RSP	39-5RC8L100 39-5RC9L97 39-5RCD10 39-5RK375-84 39-5RC89PS4 39-5RC10-76 39-5RC9L70 39-5RC9L70-1 39-5RC8-132 39-5RK375-130 39-5R375A-130 39-5RC10N-111 39-5RC9LPS-10 39-5RD10-102	39-5R09L-101 39-59C9LPS-92 39-59C9H-88A 39-5RC9H-88 39-5RC9H-84 39-5RC9-84 39-5RC8L-80 39-5RC8L-80 39-5RK355P-72 39-5RK375-72 39-5RK375A-71 39-RC9H-70 39-5RC9L-70 39-5RC9-65	300-500
395 *15,55"*	292 *11,50"*	114 *4,49"*		*49-RWN*	49-R18A 49-R20EA 49-R21V		49RP-39RPH 49-SR		49-RC10 49-RC11	49-RK375 49-RK475	
				❑	49-5R18 49-5R19V 49-5R21V			49-RSP	49-5RK455 49-5RC96 49-5RC10 49-5RC10107 49-5RC109-113 49-5RC11N-107 49-5RD11-107 49-5RK475-102	49-5RK375 49-5RC11 49-5RD11-102 49-5RD11-101 49-5RK475-87 49-5RK475-84 49-5RCLPS-85	500-900

❑ Is not manufactured

Ripper Teeth

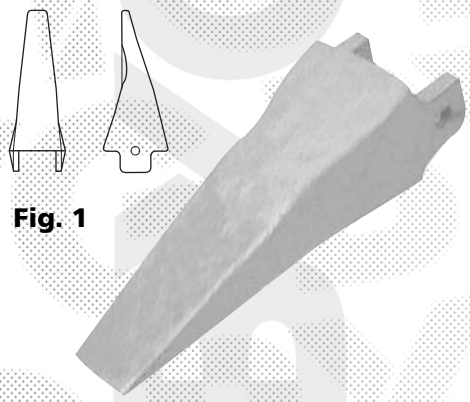


Fig. 1

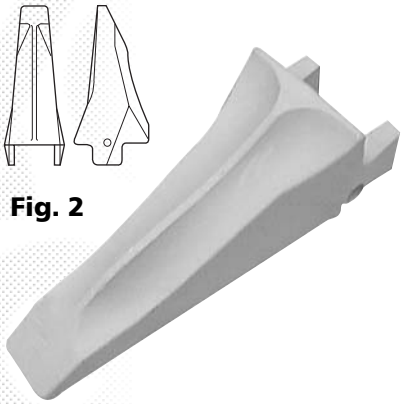
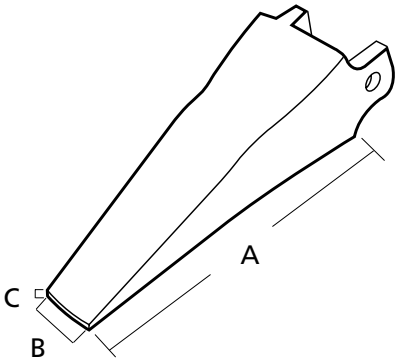


Fig. 2



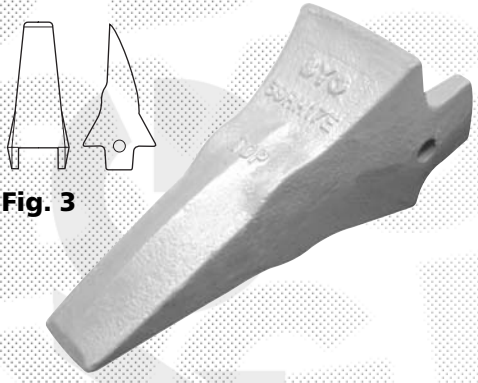


Fig. 3

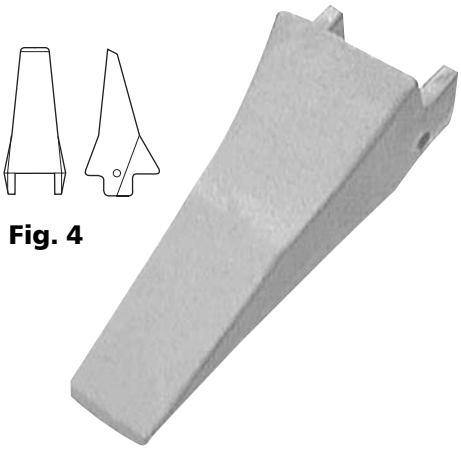
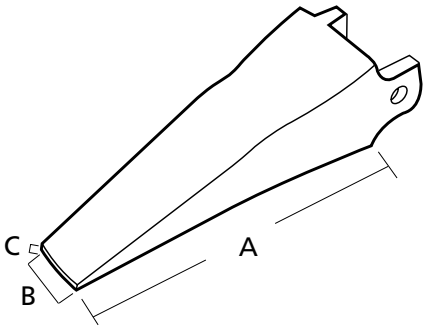


Fig. 4

A	mm. B	C	KG lb		Fig.						Power HP	
268 *10,55"*	45 *1,77"*	9 *0,35"*	4,30 *9,48*	**22-R10**	**1**	22-RPG	22-RBG	-	-	-	60-100	**22**
305 *12,01"*	51 *2,01"*	10 *0,39"*	5,18 *11,42*	**25-R12**	**1**	25-RPG	25-RBG	-	-	-	100-160	**25**
315 *12,40"*	10 *0,39"*	- -	5,40 *11,90*	*25-R12VIP*	**1**			-	-	-		
355 *13,98"*	76 *2,99"*	10 *0,39"*	12,00 *26,46*	**35-R14A**	**4**	35-RPG	35-RBG	-	-	-		
355 *13,98"*	76 *2,99"*	10 *0,39"*	12,00 *26,46*	**35-RH14A**	**4**	-	-			-		
381 *15,00"*	76 *2,99"*	10 *0,39"*	12,80 *28,22*	*35-RH15A*	**4**	-	-	35-RPH	49-SR	-		
407 *16,02"*	76 *2,99"*	12 *0,47"*	13,56 *29,89*	*35-RH16-1A*	**4**	-	-			-	160-300	**35**
360 *14,17"*	76 *2,99"*	- -	13,60 *29,98*	*35-5R14*	**6**	-	-	-	-	35-RSP		
387 *15,24"*		- -	14,50 *31,97*	*35-5R15*	**6**	-	-	-	-			

Ripper Teeth



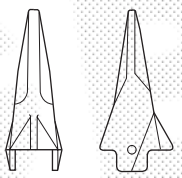
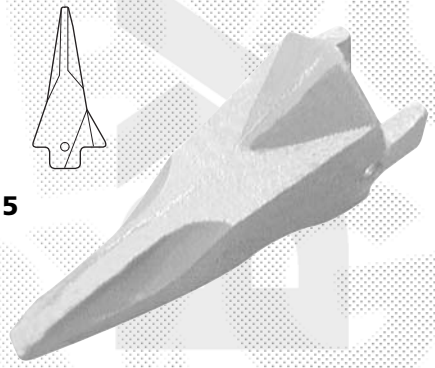


Fig. 5



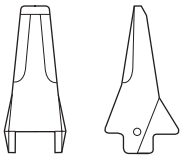


Fig. 6

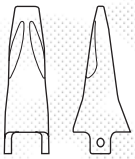
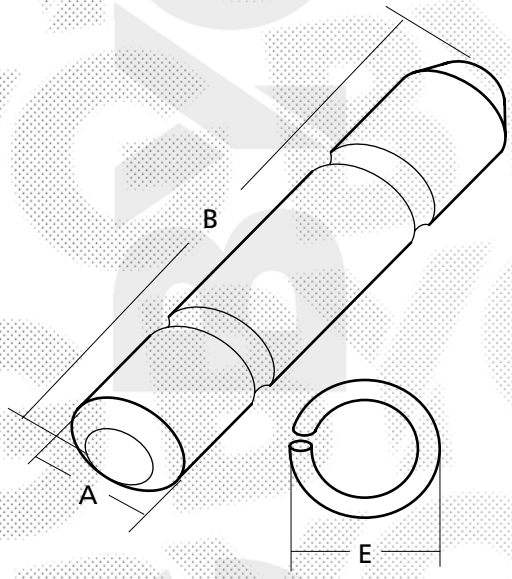


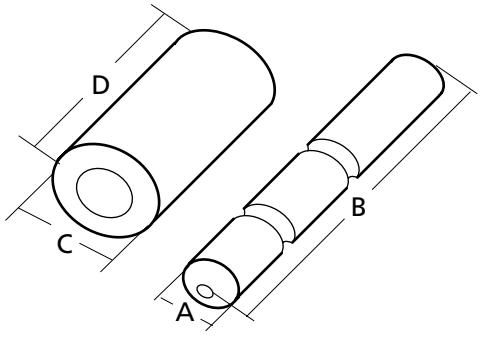
Fig. 7

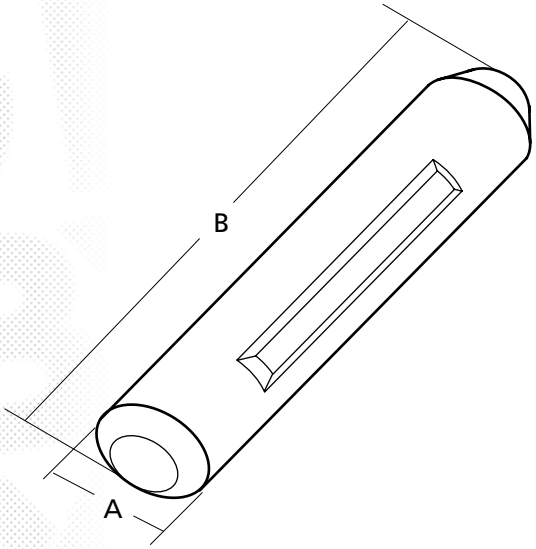
A	mm. B	C	KG lb		Fig.						Power HP	
406 *15,98"*	76 *2,99"*	19 *0,75"*	20,00 *44,09*	*39-R16A **	**4**	39-RPG	39-RBG	-	-	-		
406 *15,98"*	76 *2,99"*	19 *0,75"*	20,00 *44,09*	*39-RH16A **	**4**	-	-	49RP-39RPH	49-SR	-		
432 *17,01"*	76 *2,99"*	22 *0,87"*	19,50 *42,99*	**39-R17E** FE39 RZ	**3**	39-RPG	39-RBG	-	-	-		
432 *17,01"*	76 *2,99"*	22 *0,87"*	19,50 *42,99*	**39-RH17E** FE39 RZ	**3**	-	-	49RP-39RPH	49-SR	-	300-500	**39**
457 *17,99"*	80 *3,15"*	40 *1,57"*	24,30 *53,57*	**39-RH18A** FE39 RZ	**2**	-	-	-	-	-		
432 *17,01"*	76 *2,99"*	- -	20,4 *44,97*	*39-5R17A*	**2**	-	-	-	-	39-RSP		
457 *17,99"*	83 *3,27"*	- -	25,8 *56,88*	*39-5R18A*	**2**	-	-	-	-	-		
457 *17,99"*	89 *3,50"*	31 *1,22"*	29 *64,15*	*49-R18A*	**2**	-	-	49RP-39RPH	49-SR	-		
457 *17,99"*	89 *3,50"*	31 *1,22"*	31 *69,00*	*49-5R18*	**6**	-	-	-	-	49-RSP		
483 *19,02"*	38 *1,50"*	31 *1,22"*	33 *72,09*	*49-5R19V*	**5**	-	-	-	-	-		
508 *20,00"*	80 *3,15"*	31 *1,22"*	33 *72,31*	*49-R20E*	**6**	-	-	49RP-39RPH	49-SR	-	500-900	**49**
533 *20,98"*	38 *1,50"*	31 *1,22"*	35 *76,06*	*49-R21V*	**5**	-	-	-	-	-		
533 *20,98"*	38 *1,50"*	31 *1,22"*	35 *76,94*	*49-5R21V*	**5**	-	-	-	-	49-RSP		

* These teeth have been replaced by **39-RH17E**

Pins & Washers







mm.											
A	B	C	D	E							
12,7 *0,50"*	82 *3,23"*	20,6 *0,81"*	56 *2,20"*	- -	**22-RPG**	**22-RBG**	**-**	**-**	**-**	**22**
12,7 *0,50"*	92 *3,62"*	20,6 *0,81"*	64 *2,52"*	- -	**25-RPG**	**25-RBG**	**-**	**-**	**-**	**25**
12,7 *0,50"*	130 *5,12"*	20,6 *0,81"*	84 *3,31"*	- -	**35-RPG**	**35-RBG**	**-**	**-**	**-**	
22,2 *0,87"*	127 *5,00"*	- -	- -	32,6 *1,28"*	**-**	**-**	**35-RPH**	**49-SR**	**-**	**35**
19 *0,75"*	121 *4,76"*	- -	- -	- -	**-**	**-**	**-**	**-**	*35-RSP*	
12,7 *0,50"*	140 *5,51"*	20,6 *0,81"*	84 *3,31"*	- -	**39-RPG**	**39-RBG**	**-**	**-**	**-**	
22,2 *0,87"*	151 *5,94"*	- -	- -	32,6 *1,28"*	**-**	**-**	**49RP-39RPH**	**49-SR**	**-**	
30 *1,18"*	133 *5,24"*	- -	- -	40,5 *1,59"*	**-**	**-**	**39-SPH**	**39-SRH**	**-**	**39**
25 *0,98"*	127 *5,00"*	- -	- -	- -	**-**	**-**	**-**	**-**	*39-RSP*	
29 *1,14"*	149 *5,87"*	- -	- -	- -	**-**	**-**	**-**	**-**	*49-RSP*	**49**

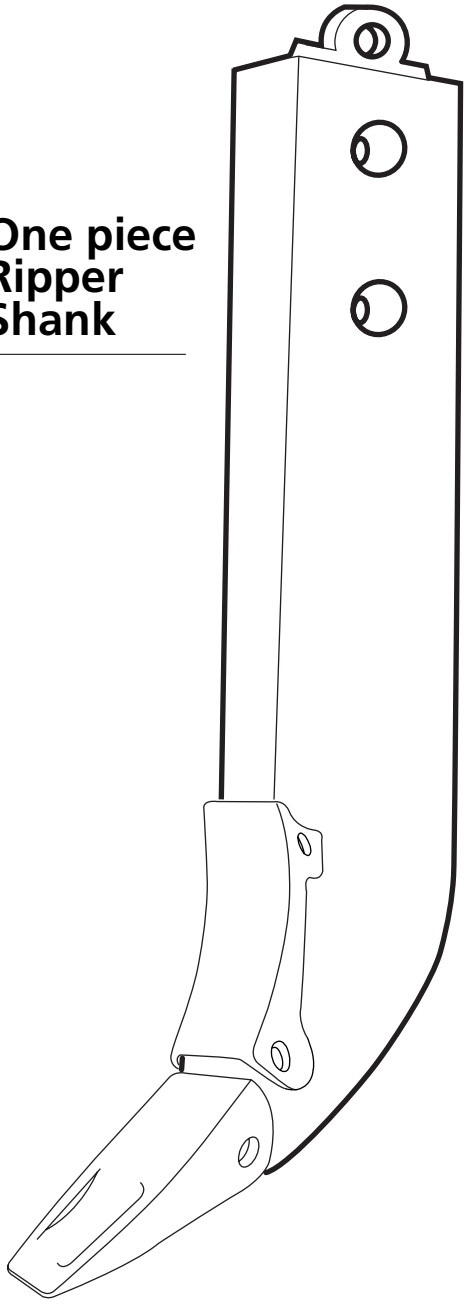
DRP

Komatsu

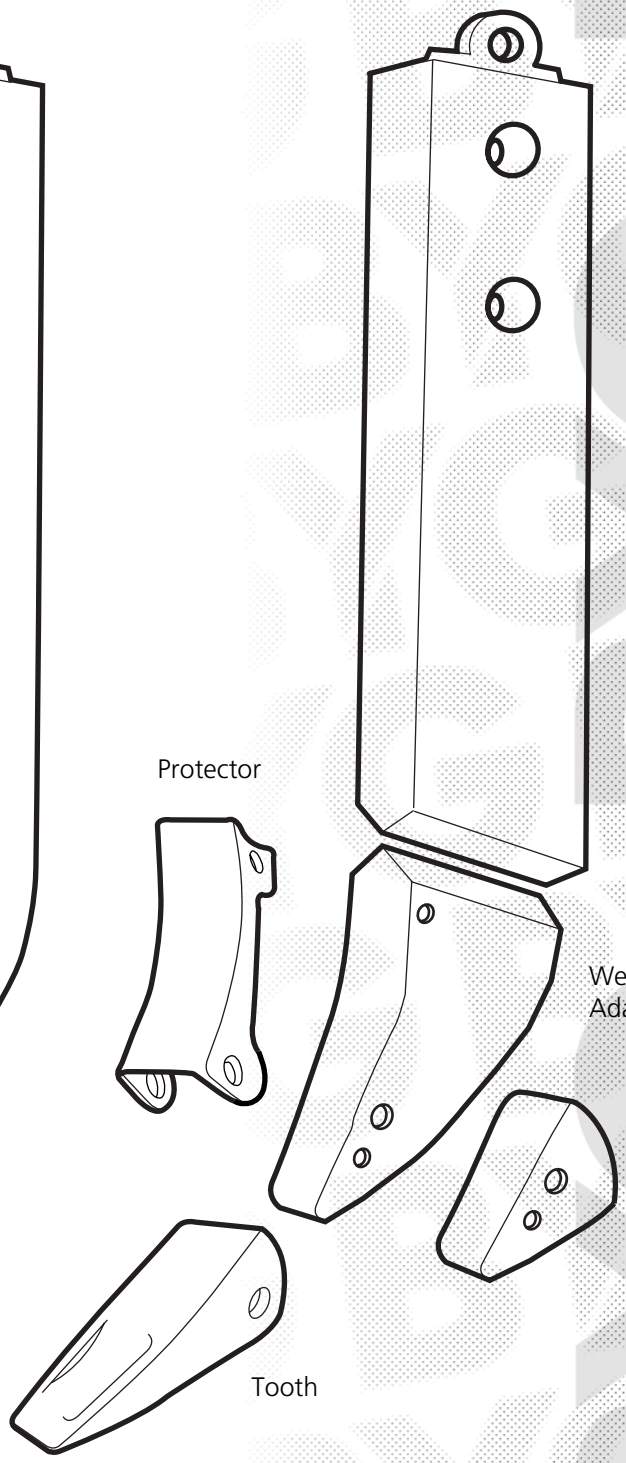
Ripper Shanks

Bold ref. number, product available
Other ref. number please consult.

One piece Ripper Shank



Ripper Shank Components



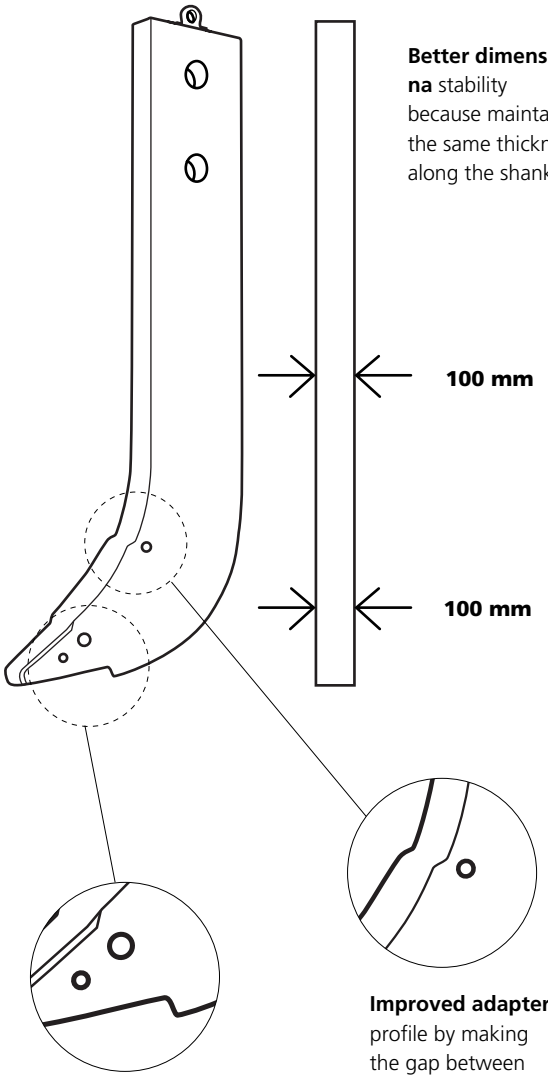
Rippers

Characteristics of BYG shanks

Ripper Shanks

BYG one-piece ripper shanks are cut to length, formed and fully machined. Made of tough abrasion resistant alloy steel and thru-hardened for strength and maximun wear life.

BYG offers a complete range of shanks for main O.E.M. brands on the market, covering from the smallest ripper shank up to the largest 110 mm thick, for the biggest dozers on the market.



Better dimensiona stability because maintains the same thickness along the shank

Improved adapter profile by making the gap between the adapter and the protector to the minimum.

Improved design
Reinforced adapter box keeps ripper teeth movement to the minimun as well as protecting the rear area of the tip.

One-piece machine finished Ripper Shanks, without any welding avoiding the risk of breakage on the welded areas

High toughness

Ripper toughness is very high even under difficult conditions, such us high rates of strain combined with low temperatures thanks to the most modern steel used in all our shanks.

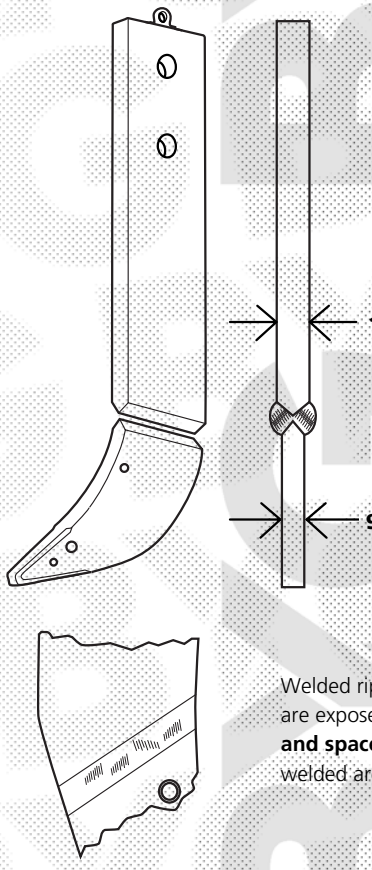
High strength

Due to its high strength, BYG shanks have better dimensional stability because they maintain the same thickness along the shank and thus sustain a smaller amount of permanent deformation.

Competitors' Shanks

Fabricated Ripper Shanks made out of **two pieces**, shank and adapter, are **welded** together.

The shank is always thicker than the adapter making the bottom part of the shank the most exposed section to impact, the weakest.



Difference in thickness between the shank and the adapter is in most cases responsable for **early failure**.

Welded ripper shanks are exposed to **cracks and spaces** along the welded area.

Rippers

Characteristics of BYG shanks

Steel Technical Information

CHEMICAL COMPOSITION (ladle analysis)

C	Si	Mn	P	S	B	Cr	Ni	Mo	CEV.
max	max	max	max	max	max	max	max	max	max
%	%	%	%	%	%	%	%	%	%
0,32	**0,70**	**1,60**	**0,025**	**0,010**	**0,004**	**1,40**	**1,50**	**0,60**	**0,70**

HARDNESS HBW 370-430

MECHANICAL PROPERTIES Typical values for 20 mm plate thickness

Yield Strength	Tensile Strength	Elongation	
R_e N/mm	R_m N/mm	A_5%	A_{50}%
1000	**1250**	**10**	**16**

IMPACT PROPERTIES

Testing	Impact energy
Temperature °C	Charpy-V, longitudinal
-40 (-40°F)	**45J**

Steelmaking and casting

Ore-based metallurgy and modern continuous casting produce high-quality slabs with precise chemical composition and with very low levels of residual elements. This lays the foundation for a good end product.

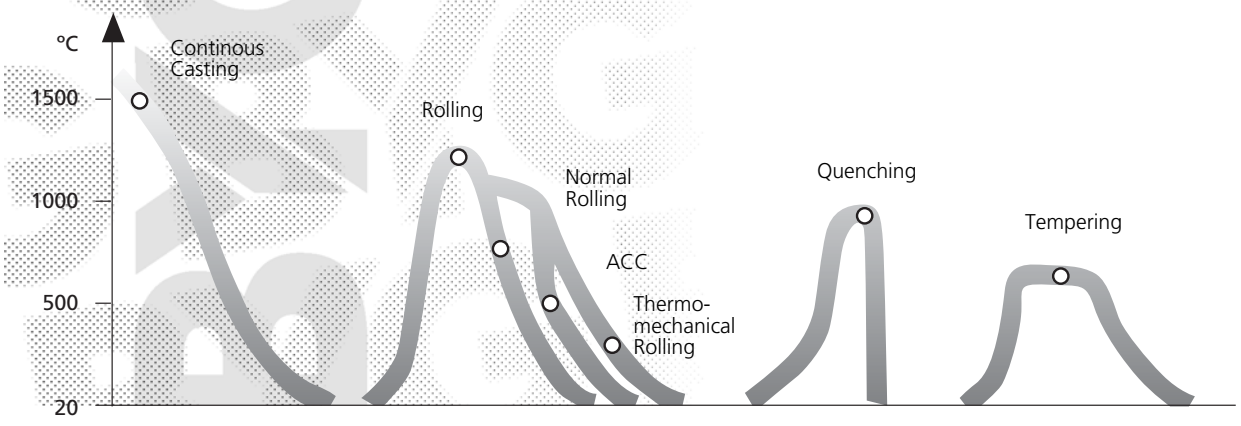
Selected rolling sequence

The slabs are heated uniformly to 1200°C to enable them to be rolled in a four-high mill. They are rolled accurately to the specified thickness and to the microstructure which is best suited to the subsequent cooling process.

Quenching and tempering

Plates are quenched and tempered. This involves cooling the plate quickly from 900° to room temperature by intensive spraying with water in a roller quenching equipment.

After being tempered at 580°-650°C, plate acquires uniformly high strength, excellent toughness and good weldability, machinability and workability. Due to the effective water quenching by Accelerated Continuous Cooling in the roller quenching equipment, we can minimize the content of alloying elements.



Codification of non OEM Ripper Shanks

The reference number of the shanks is composed of 5 blocks of characters. Each block indicates a characteristic of the shank.

A BB CC DDD EEEE

(12 characters without blank spaces)

A

The first block (one character) indicates the type of part.

R COMPLETE RIPPER SHANK
Z SHANK

Example:

R ** ** * ****

BB

The second block (2 characters) indicates the quality of the part (Brinell scale), as shown.

40 400 Brinell
45 450 Brinell
NX HIGH YIELD STRENGTH

Example:

R 40 ** * ****

CC

The third block (2 digits) indicates the shank thickness. The digits correspond exactly to the thickness (milimeters) with the exception of: 100mm, 110mm and 120mm thickness, as shown in the following list:

35 35mm. thickness (450 Brinell)
40 40mm. thickness (450 Brinell)
45 45mm. thickness (450 Brinell)
50 50mm. thickness (450 Brinell)
60 60mm. thickness (450 Brinell)
63 63mm. thickness (450 Brinell)
75 75mm. thickness (400 Brinell)
80 80mm. thickness (400 Brinell)
90 90mm. thickness (400 Brinell)
00 100mm. thickness (400 Brinell)
01 110mm. thickness (High Yield Strength)
02 120mm. thickness (High Yield Strength)

Example:

R 40 75 * ****

DDD

This block (3 digits) indicates the width of the shank, in milimeters.

Example:

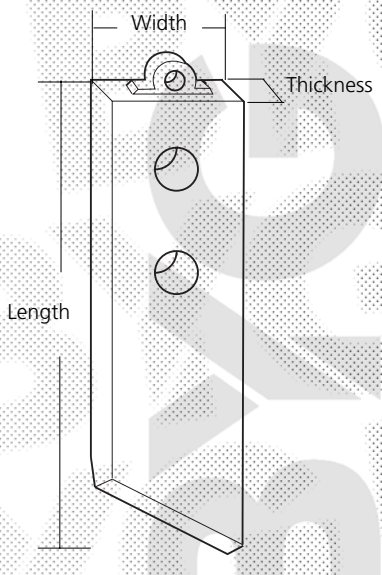
R 40 75 305 **

EEEE

The last block (4 digits) indicates the length (in milimeters) of the shank, always in multiples of 50mm.

Example:

R 40 75 305 1650



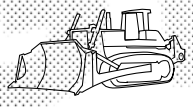
Reference example (12 characters without blank spaces)

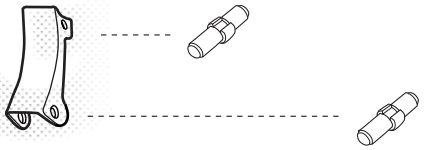
R40753051650

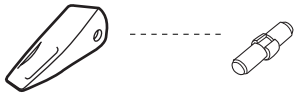
Type Quality Thickness Width Length

Customer should supply reference of teeth and protector to fit shank, number of holes and diameter of holes.

Complete Ripper Shank







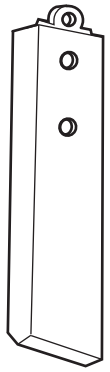
	Shank Reference	Type	Protector	Center Ring	Center Ring	Tooth	Center Ring	
D40/D45, D40/D41 D50/D53-16 D50/D53-17 D66S	**131-78-31180** 131-78-00141		-	-	-	131-78-31190	09244-02496	⇨
D60/D65-7 D60/D65-8 D65-12, D75A-1 D75S-3, D75S-5 D85E-SS-2A	**141-78-11241** 141-78-00081		-	-	-	141-78-11253 141-78-11330 141-78-11254	09244-02508	⇨
D85-18, D85-21 D135A-1, D135A-2 D150A-1, D155A-1 D155A-2, D155AX-3	**154-78-14344** **175-78-21613** **175-78-21614**		195-78-21320 195-78-21580*	09244-02508	09244-02508	175-78-31230 175-78-34131 175-78-61660 175-78-31293 175-78-34141 175-78-61670 175-78-31232	09244-02508	⇨
D275A-2 D355A-3 D455A-1	**195-79-31140** **195-78-41190**	SS MS	195-78-21320 195-78-21580*	09244-02508	09244-02508	17M-78-21350 195-78-21331 195-78-29130 195-78-71440 195-78-29140 195-78-71450 195-78-21333	09244-02508	⇨
D375A-1	**195-78-71120**		195-78-71110	09244-02508	09244-02508	195-78-71140 195-78-71250 195-78-71260 195-78-71240	09244-02508	⇨
D375A-1 D375A-2	**195-79-51110**		195-78-72410*	09244-03036	09244-03036	195-78-71420 195-78-71320 195-78-71370 195-78-71340 195-78-71350 195-78-71330 195-78-71390	195-78-71360	⇨
D455A-1	**198-79-11630** **198-78-11240**	SS MS	198-79-11220 198-79-11640*	09244-03036	09244-03036	198-79-11560 198-79-11551	09244-03036	⇨
D475A-1 D475A-2	-		198-78-21330	09244-03036	09244-03036	198-78-21420 198-78-21340 198-78-21350 198-78-21380	09244-03036 (A1) 198-78-21410 (A2)	⇨
D575A-2	-		-	-	-	19M-78-11520 19M-78-11450 19M-78-11510 19M-78-11450 19M-78-11341	19M-78-11370	⇨
	Pag. 3.8		Pag. 3.9	Pag. 3.14	Pag. 3.14	Pag. 3.12-3.13	Pag. 3.14	

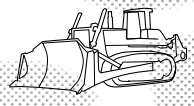
* Extended

MS - Multiple shank Ripper

SS - Single shank Ripper

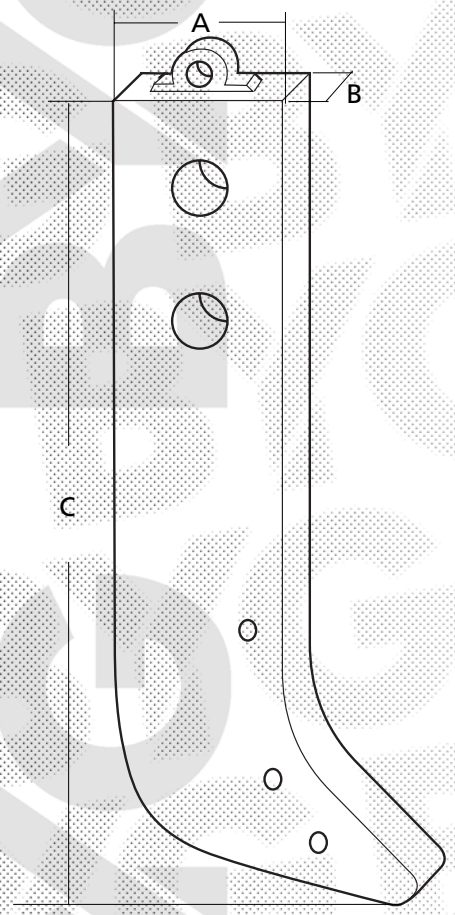
Repair Components of the Shank

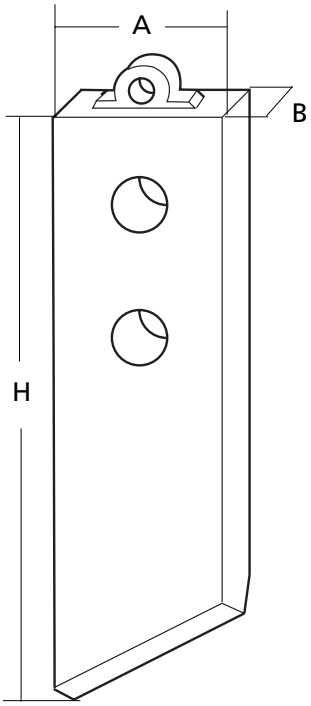


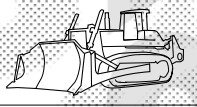


Arm of Shank	Adapter	Center Ring	Center Ring	Center Ring	
Z4550184-	-	-	-	-	D40/D45, D40/D41 D50/D53-16 D50/D53-17 D66S
Z4075178-	154-78-14340 175-78-21610	09244-02508	09244-02508	09244-02508	D60/D65-7 D60/D65-8 D65-12, D75A-1 D75S-3, D75S-5 D85E-SS-2A
Z4075235- **Z4075317-** **Z4075330-**	195-78-14350	09244-02508	09244-02508	09244-02508	D85-18, D85-21 D135A-1, D135A-2 D150A-1, D155A-1 D155A-2, D155AX-3
Z4090400- **Z4090360-**	198-79-11620	09244-02508	09244-02508	09244-02508	D275A-2 D355A-3 D455A-1
Z4090360-	195-78-71380	09244-02508	09244-02508	09244-02508	D375A-1
Z4095400-	195-78-71380	09244-03036	09244-03036	09244-03036	D375A-1 D375A-2
Z4001464- **Z4095400-**	-	-	-	-	D455A-1
-	198-78-21430	09244-03036	09244-03036	09244-03036	D475A-1 D475A-2
-	-	-	-	-	D575A-2
Pag. 3.8	Pag. 3.10-3.11	Pag. 3.14	Pag.3.14	Pag. 3.14	

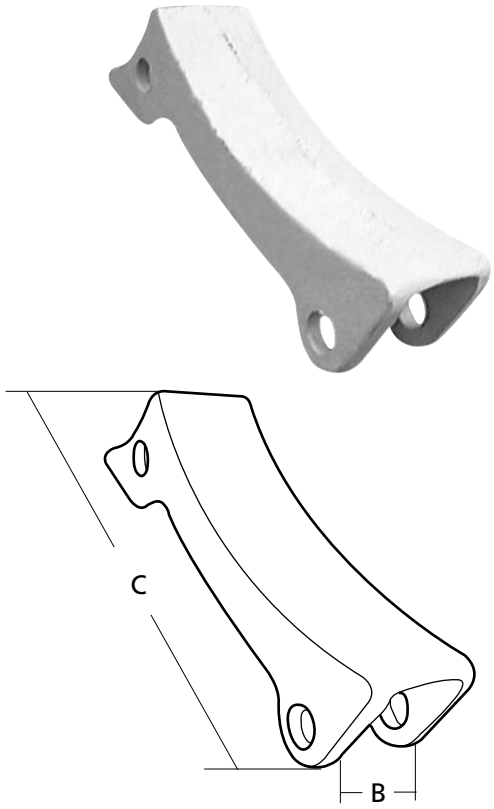
Ripper Shanks & Shanks´Arms

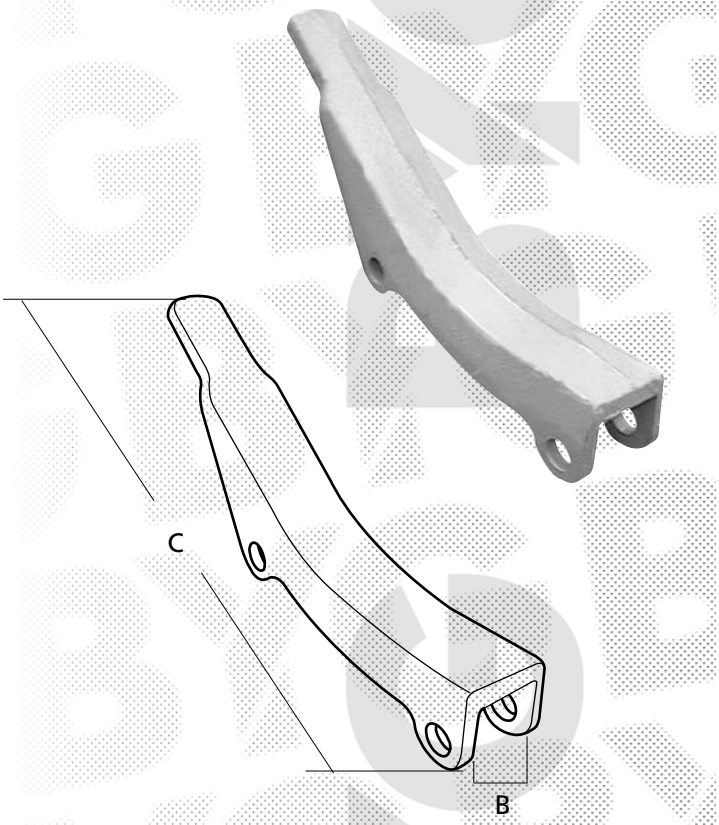




			mm. A	B	C	H	Holes
D40/D45, D40/D41 D50/D53-16 D50/D53-17 D66S	**131-78-31180** 131-78-00141	**Z4550184-**	184 *7,24"*	50 *1,97"*	864 *34,02"*	- -	**3**
D60/D65-7 D60/D65-8 D65-12, D75A-1 D75S-3, D75S-5 D85E-SS-2A	**141-78-11241** 141-78-00081	**Z4075178-**	178 *7,01"*	75 *2,95"*	686 *27,01"*	- -	**2**
D85-18, D85-21 D135A-1, D135A-2 D150A-1, D155A-1 D155A-2, D155AX-3	**154-78-14344**	**Z4075235-**	235 *9,25"*	75 *2,95"*	1320 *51,97"*	- -	**2**
	175-78-21613	**Z4075317-**	317 *12,48"*		1600 *62,99"*	- -	**2**
	175-78-21614	**Z4075330-**	330 *12,99"*		1640 *64,57"*	- -	**2**
D275A-2 D355A-3 D455A-1	**195-79-31140**	**Z4090400-**	400 *15,75"*	90 *3,54"*	2350 *92,52"*	- -	**4**
	195-78-41190	**Z4090360-**	360 *14,17"*		1800 *70,87"*	- -	**2**
D375A-1	**195-78-71120**	**Z4090360-**	360 *14,17"*	90 *3,54"*	1840 *72,44"*	- -	**-**
D375A-1 D375A-2	**195-79-51110**	**Z4095400-**	400 *15,75"*	95 *3,74"*	2350 *92,52"*	- -	**-**
D455A-1	**198-79-11630**	**Z4001464-**	464 *18,27"*	110 *4,33"*	2845 *112,01"*	- -	**5**
	198-78-11240	**Z4095400-**	400 *15,75"*	95 *3,74"*	2159 *85,00"*	- -	**2**
D475A-1 D475A-2	-	-	-	-	-	-	-
D575A-2	-	-	-	-	-	-	-

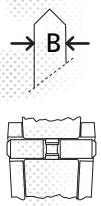
Ripper Protectors





mm. B	C	KG lb						
-	-	-	-	-	-	-	-	D40/D45, D40/D41 D50/D53-16 D50/D53-17 D66S
-	-	-	-	-	-	-	154-78-14340 175-78-21610	D60/D65-7 D60/D65-8 D65-12, D75A-1 D75S-3, D75S-5 D85E-SS-2A
75 *2,95"*	79 *3,11"*	467 *18,39"*	6,80 *14,99*	**195-78-21320**	**-**	09244-02508	09244-02508	195-78-14350	D85-18, D85-21 D135A-1, D135A-2 D150A-1, D155A-1 D155A-2, D155AX-3
		703 *27,68"*	12,24 *26,98*	**-**	**195-78-21580**			198-79-11620	D275A-2 D355A-3 D455A-1
75 *2,95"*	78 *3,07"*	513 *20,20"*	3,20 *7,05*	**195-78-71111** 195-78-71110	-	09244-02508	09244-02508	195-78-71380	D375A-1
80 *3,15"*	82 *3,23"*	862 *33,94"*	49,90 *110,01*	-	*195-78-72410*	09244-03036	09244-03036	198-78-71380	D375A-1 D375A-2
-	-	-	-	*198-79-11220*	-	09244-03036	09244-03036	-	D455A-1
-	-	-	-	-	*198-79-11640*				
95 *3,74"*	98 *3,86"*	683 *26,89"*	39 *85,98*	*198-78-21330*	-	09244-03036	09244-03036	198-78-21430	D475A-1 D475A-2
-	-	-	-	-	-	-	-	-	D575A-2

Ripper Adapters



Mounted with center ring pin

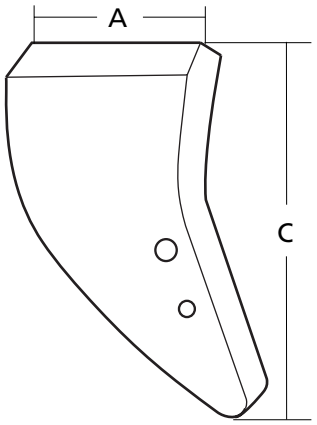
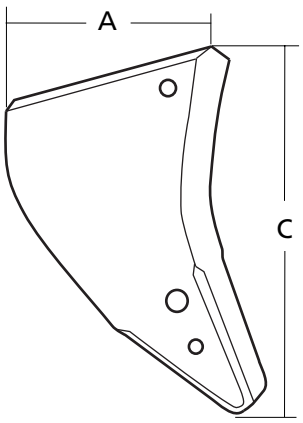
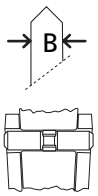


Fig. 1

	mm.			Fig. 1	Fig. 2					
	A	B	C							
D40/D45, D40/D41 D50/D53-16 D50/D53-17, D66S	-	-	-	-		-	-	131-78-31190	09244-02496	131-78-31180 131-78-00141
D60/D65-7 D60/D65-8 D65-12 D75A-1 D75S-3 D75S-5 D85E-SS-2A	178 *7,01"*	76 *2,99"*	-	**154-78-14340**		09244-02508	09244-02508	141-78-11253 141-78-11330 141-78-11254	09244-02508	141-78-11241 141-78-00081
	178 *7,01"*	76 *2,99"*	-	**175-78-21610**		-	09244-02508			
D85-18, D85-21 D135A-1 D135A-2 D150A-1 D155A-1 D155A-2 D155AX-3	300 *11,81"*	76 *2,99"*	-		**195-78-14350**	09244-02508	09244-02508	175-78-32230 175-78-34131 175-78-61660 175-78-31293 175-78-34141 175-78-61670 175-78-31232	09244-02508	154-78-14344 175-78-21613 195-79-21614
D275A-2 D355A-3 D455A-1	-	-	-		*198-79-11620*	09244-02508	09244-02508	17M-78-21350 195-78-21331 195-78-29130 195-78-71440 195-78-29140 195-78-71450 195-78-21333	09244-02508	195-79-31140 195-78-41190

Ripper Adapters





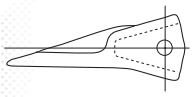
Mounted with center ring pin

Fig. 2

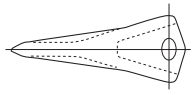
	mm.			Fig. 1	Fig. 2						
	A	B	C								
D375A-1	351 *13,82"*	76 *2,99"*	484 *19,06"*		**195-78-71380**	09244-02508	09244-02508	195-78-71140 195-78-71250 195-78-71260 195-78-71240	09244-02508	195-78-71120
D375A-1 D375A-2						09244-03036	09244-03036	195--78-71420 195-78-71320 195-78-71370 195-78-71340 195-78-71350 195-78-71330 195--78-71390	195-78-71360	195-79-51110
D455A-1	-	-	-		-	-	-	198-79-11560 198-79-11551	09244-03036	198-79-11630 198-78-11240
D475A-1 D475A-2	359 *14,13"*	95 *3,74"*	567 *22,32"*		**198-78-21430**	09244-03036	09244-03036	198-78-21420 198-78-21340 198-78-21350 198-78-21380	09244-03036(A-1) 198-78-21410(A-2)	-
D575A-2	-	-	-		-	-	-	19M-78-11520 19M-78-11450 19M-78-11510 19M-78-11450 19M-78-11341	19M-78-11370	-

Ripper Teeth

Fig. 1

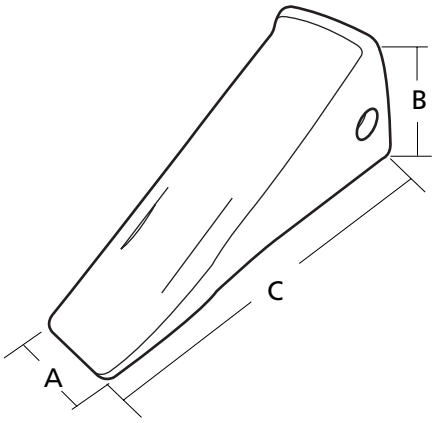


Penetration teeth: good penetration



Simmetric teeth: more wear material

Fig. 2
Short



mm. A	B	C	KG lb	Shape	Fig		Quality				
90 *3,54"*	115 *4,53"*	260 *10,24"*	17,56 *38,71*	-	**1**	**131-78-31190**	STD		•	09244-02496	D40/D45, D40/D41 D50/D53-16 D50/D53-17 D66S
116 *4,57"*	125 *4,92"*	277 *10,91"*	17,56 *38,71*	Standard	**3**	**141-78-11253**	STD		•	09244-02508	D60/D65-7 D60/D65-8 D65-12, D75A-1 D75S-3, D75S-5 D85E-SS-2A
		219 *8,62"*	- -	Short	**3**	*141-78-11330*			•		
		342 *13,46"*	- -	Long	**3**	*141-78-11254*			•		
118 *4,65"*	129,3 *5,09"*	335 *13,19"*	24,50 *54,01*	Short	**4**	**175-78-31230**	STD	•		09244-02508	D85-18, D85-21 D135A-1, D135A-2 D150A-1, D155A-1 D155A-2, D155AX-3
		- -	7,10 *15,65*	Short	**4**	**175-78-31232**	HD	•			
		379 *14,92"*	- -	Long	**2**	*175-78-34131*	STD		•		
		- -	- -	Long	**2**	*175-78-34141*	HD		•		
		385 *15,16"*	- -	Long	**4**	*175-78-31293*	HD	•			
		- -	- -			*175-78-61660*					
		- -	- -			*175-78-61670*					
118 *4,65"*	155 *6,10"*	365 *14,37"*	6,80 *14,99*	Short	**4**	**195-78-21331**	STD	•		09244-02508	D275A-2 D355A-3 D455A-1
			1,75 *3,86*	Short	**4**	**195-78-21333**	HD	•			
		418 *16,46"*	- -	Long	**2**	*195-78-29130*	STD		•		
			- -	Long	**2**	*195-78-29140*	HD		•		
			-			17M-78-21350					
			-			*195-78-71440*					
			-			*195-78-71450*					

STD - Standard, yellow colour
HD - Heavy Duty, red colour, are only supplied on order

Ripper Teeth

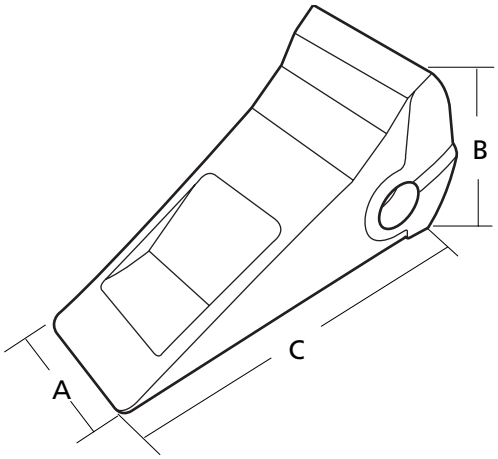


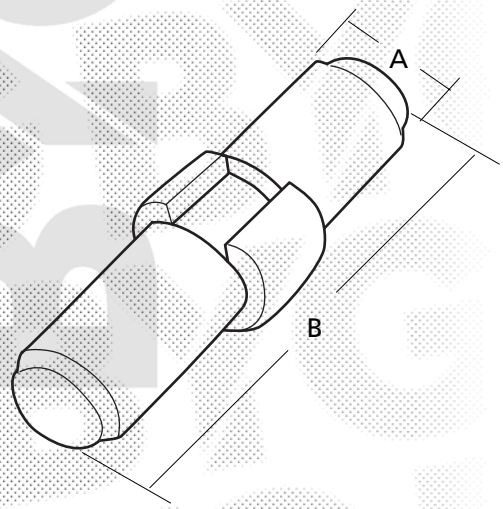
Fig. 3
STD

Fig. 4

mm. A	B	C	KG lb	Shape	Fig		Quality				
124 *273,37*	173 *381,39*	435 *958,99*	4,50 *9,92*	Long	**2**	**195-78-71140**	STD		•		
			-	Long	**2**	*195-78-71240*	HD		•	09244-02508	D375A-1
		487 *1073,63*	-	Short	**2**	*195-78-71250*	STD		•		
			-		**2**	*195-78-71260*	HD		•		
124 *273,37*	173 *381,39*	435 *958,99*	6,35 *14,00*	Long	**2**	**195-78-71320**	STD		•		
			3,10 *6,83*	Long	**2**	**195-78-71330**	HD		•		
		487 *1073,63*	-	Short	**2**	*195-78-71340*	STD		•		
			-	Long	**2**	*195-78-71350*	HD		•	195-78-71360	D375A-1 D375A-2
			-			*195-78-71420*					
			-			*195-78-71370*					
			-			*195-78-71390*					
137 *302,03*	183 *403,44*	430 *947,97*	-		**4**	*198-79-11560*	STD	•		09244-03036	D455A-1
			-		**4**	*198-79-11551*	HD	•			
150 *330,69*	201 *443,12*	465 *1025,13*	6,15 *13,56*	Long	**2**	**198-78-21340** (A-1)	STD		•	09244-03036 (A-1)	
			19,40 *42,77*	Long	**2**	**198-78-21350**	HD		•	198-78-21410 (A-2)	D475A-1
			-			*198-78-21420*				-	D475A-2
			-			*198-78-21380*				-	
			-			*19M-78-11520*					
			-			*19M-78-11450*					
			-			*19M-78-11510*				19M-78-11370	D575A-2
			-			*19M-78-11450*					
			-			*19M-78-11341*					

STD - Standard, yellow colour
HD - Heavy Duty, red colour, are only supplied on order

Ripper Fasteners



mm. A	mm. B	BYG Ref.	Alternative Ref.	
25 *0,98"*	97 *3,82"*	**09244-02496**	205-70-19610 205-70-69130	D40/D45, D40/D41, D50/D53-16 D50/D53-17, D66S
25 *0,98"*	109 *4,29"*	**09244-02508**	175-78-21740	D60/D65-7 D60/D65-8, D65-12, D75A-1 D75S-3, D75S-5, D85E-SS-2A D85-18, D85-21, D135A-1, D135A-2 D150A-1, D155A-1, D155A-2, D155AX-3 D275A-2, D355A-3 D455A-1 D375A-1
25 *0,98"*	145 *5,71"*	**09244-03036**	198-79-11320 A03-78-11730 426-847-1130	D455A-1, D475A-1, D375A-1, D375A-2
30 *1,18"*	113 *4,45"*	**195-78-71360**	-	D375A-1 D375A-2
-	-	*198-78-21410*	-	D475A-2
-	-	*198-78-21340*	-	D475A-1, D475A-2
35 *1,38"*	185 *7,28"*	**19M-78-11370**	19M-78-11371	D575 A-2

Cutting Edges

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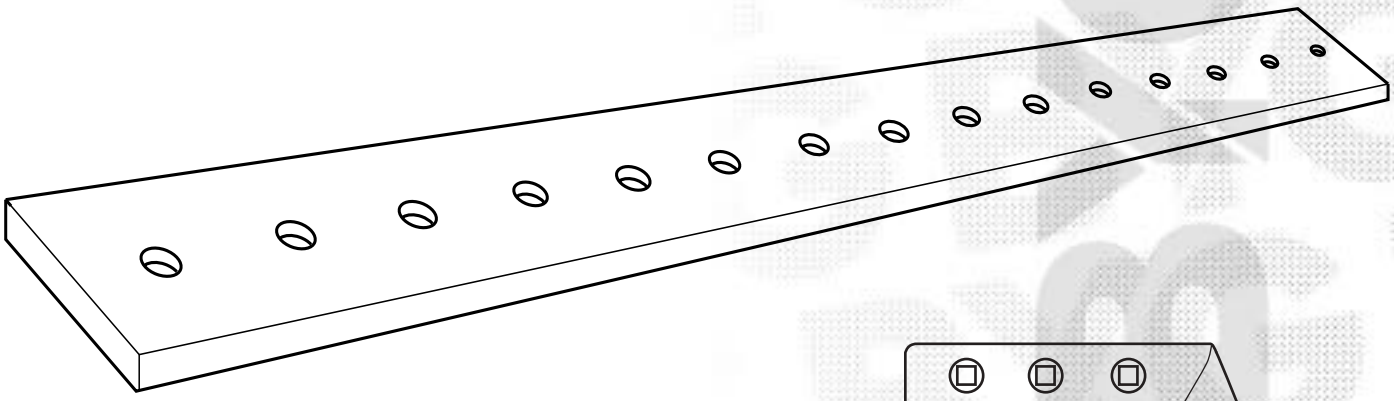
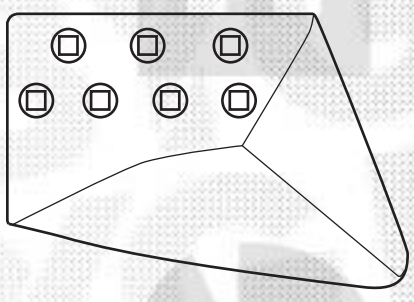
Warranty

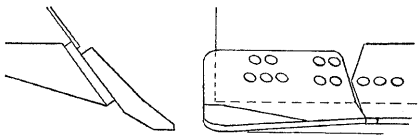
In the unlikely event of any of our products failling during normal operation, we will supply a new replacement free of charge.

All symbols, names and descriptions are only used for reference purposes
and it is not implied that any listed parts are the product of these manufacturers

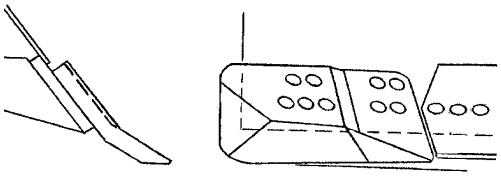
Bulldozer Cutting Edges



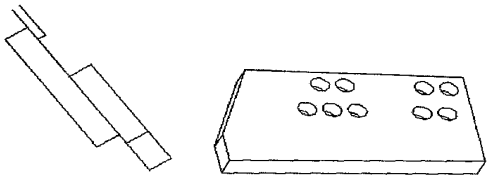




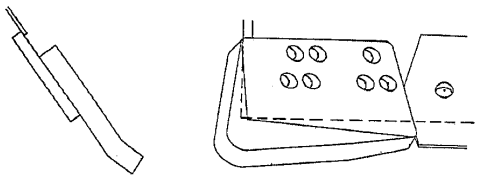
EWL
Extended wear l



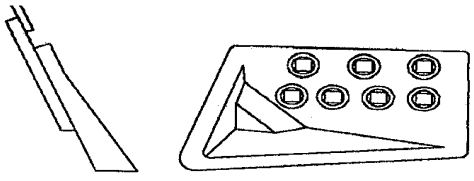
GD
General duty



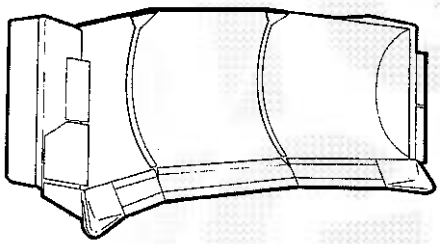
UTILITY
Flat plate design



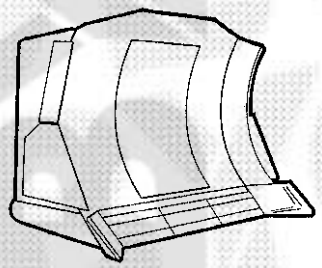
HOT CUPPED
3G, IU, 7T



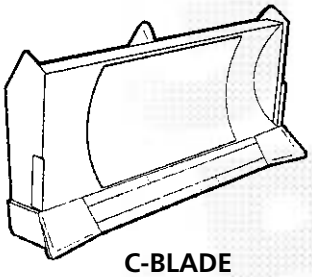
IMPACT FORGED
3J, 4J, 5J, 9J, 9F, 1U, 7T



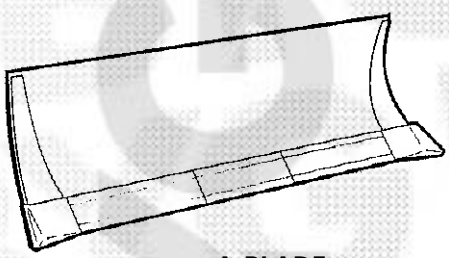
U-BLADE
Is designed wirh large "wings" to carry large loads over long distances more efficiently.



S-BLADE
Is a good general purpose blade for most dozing applications



C-BLADE
Is a relatively narrow blade designed primarily for pushing scrapers



A-BLADE
Is an economical, light to medium duty blade designed for use on D8 and smaller machines where the ability to side-cast is desired

	Type	Serie	Ref. Present	Ref. Old	Inches	nº	mm.				Descriptionn	nº	KG
D3	3A	3P, 85U	**4T-6230**	8J-7144	5/8x1/4	6	16	152	870		Center Blade	2	16
D3B	3S		**4T-6320 HD**	8J-7144 HD		6	16	152	870		Center Blade	2	16
			4T-6229	8J-6412		3	16	152	330		Lateral Blade		6
			4T-6229 HD	8J-6412 HD		3	16	152	330		Lateral Blade		6
	3S	31M, 86U,	**4T-6231**	8J-7145	5/8x2 1/4	7	16	152	1060		Center Blade	2	20
			4T-6231 HD	8J-1745 HD		7	20	152	1060		Center Blade	2	25
			4T-6229	8J-6412		3	16	152	305		Lateral Blade		6
			4T-6229 HD	8J-6412 HD		3	20	152	330		Lateral Blade		8
D3P LGP		96X	**4T-6232**	3G-3354	5/8x2 1/4	8	16	152	1216		Center Blade	2	23
			4T-6232 HD	3G-3354 HD		8	20	152	1216		Center Blade	2	29
			4T-6229	8J-6412		3	16	152	330		Lateral Blade		6
			4T-6229 HD	8J-6412 HD		3	20	152	330		Lateral Blade		8
D4	4S	93C	**8A-8580**	8A-7907	5/8x2	4	16	203	624		Center Blade	1	16
			8A-8531	8A-7914	5/8x2	4	16	203	586		Center Blade	3	15
			9F-7073/4		5/8x2 1/4	6	16				F End Bit		15
			3G-8321/2	6J-0277/8	5/8x3 1/2	6	22				HC End Bit		17
		2A, 67F,	**4T-2980**	5J-6902	5/8x2	16	16	203	1521		Center Blade		38
			9F-7073/4		5/8x2 1/4	6	16				F End Bit		15
			3G-8321/2	6J-0277/8	5/8x3 1/2	6	22				HC End Bit		17
		4A, 40D	**4T-2977**	5J-6862	5/8x2	18	16	203	1826		Center Blade		46
			4T-3021	5J-6903	5/8x2	18	20	203	1826		Center Blade		58
			9F-7073/4		5/8x2 1/4	6	16				F End Bit		15
			3G-8321/2	6J-0277/8	5/8x3 1/2	6	22				HC End Bit		17
D4, D4E	4S	67E, 27F, 94G	**5J-6876**	2J-7620	5/8x2 1/4	11	16	203	1743		Center Blade		44
			4T-2983	8J-4665		3	16	203	381		Center Blade	1	10
			4T-2972	8J-4666		4	16	203	673		Center Blade	2	17
			4T-3027	8J-1487		3	20	203	383		Center Blade	1	12
			4T-3028	8J-1488		4	20	203	675		Center Blade	2	21
			5J-6885	5J-2993		15	16	203	2353		Center Blade		59
			9F-7073/4		5/8x2 1/4	6	16				F End Bit		15
			3G-8321/2	6J-0277/8	5/8x3 1/2	6	22				HC End Bit		17
	4S, LGP	84E, 19J, 45J	**5J-6885**	5J-2993	5/8x2	15	16	203	2353		Center Blade		59
			4T-2982	8J-4667	5/8x2	7	16	203	991		Center Blade	1	25
			4T-2972	8J-4666	5/8x2	4	16	203	673		Center Blade	2	17
			9F-7073/4		5/8x2 1/4	6	16				F End Bit		15
			3G-8321/2	6J-0277/8	5/8x3 1/2	6	22				HC End Bit		17
D4H	4S	2TC	**4T-3720**		3/4x2 1/2	6	16	203	859		Center Blade	2	22
			3G-4285		3/4x2 1/2	4	20	203	425		Lateral Blade		13
			4T-5407/8		3/4x2 1/2	4	25				EWL End Bit		
	4S, LGP	4HC	**4T-8940**		3/4x2 1/2	8	16	203	1195		Center Blade	2	30
			3G-4285		3/4x2 1/2	4	20	203	425		Lateral Blade		13
			4T-5407/8		3/4x2 1/2	4	25				EWL End Bit		
D4	4A	12D, 78D, 5F1-2850	**4T-2977**	5J-6862	5/8x2	18	16	203	1826		Center Blade		46
			4T-3021	5J-6903	5/8x2	18	20	203	1826		Center Blade		58
			4T-3043	5J-6941/2	5/8x2 1/4	3	20				Flat End Bit		15
			4T-3043/4 HD	5J-6941/2 HD	5/8x2 1/4	3	25				HC End Bit		17
		97E, 24F,	**4T-2979**	5J-6874	5/8x2	13	16	203	2029		Center Blade		51
			4T-3043	5J-6941/2	5/8x2 1/4	3	20				Flat End Bit		15
			4T-3043/4 HD	5J-6941/2 HD	5/8x2 1/4	3	25				HC End Bit		17

	Type	Serie	Ref. Present	Ref. Old	Inches	n°	mm.				Description	n°	KG lb
D4, D4D	4A	52E, 96E,	**5J-6873**	2J-469	5/8x2	8	16	203	2537		Center Blade		64
		6F1300-UP,	**4T-2974**	8J-1489	5/8x2	5	16	203	808		Center Blade	1	20
		26F, 95G,	**4T-2973**	8J-1490	5/8x2	6	16	203	859		Center Blade	2	22
			4T-3043	5J-6941/2	5/8x2 1/4	3	20				Flat End Bit		15
			4T-3043/4 HD	5J-6941/2 HD	5/8x2 1/4	3	25				HC End Bit		17
D4H	4A	6AC	**4T-8940**		3/4x2 1/2	8	16	203	1195		Center Blade	2	30
			3G-4285		3/4x2 1/2	4	20	203	425		Lateral Blade		13
			4T-5407/8		3/4x2 1/2	4	25				EWL End Bit		
	4P	9ZB	**3G-9306**		3/4x2 1/2	6	16	203	883		Center Blade	2	22
			3G-4285		3/4x2 1/2	4	20	203	425		Lateral Blade		13
			4T-5407/8		3/4x2 1/2	4	25				EWL End Bit		
	4P, LGP	5EC	**4T-8940**		3/4x2 1/2	8	16	203	1195		Center Blade	2	30
			3G-4285		3/4x2 1/2	4	20	203	425		Lateral Blade		13
			4T-5407/8		3/4x2 1/2	4	25				EWL End Bit		
D5	5S	90H1-690	**5J-6879**	3J-7640	5/8x2 1/4	11	20	203	1743		Center Blade		55
			4T-2983	8J-4665	5/8x2 1/4	3	16	203	381		Center Blade	1	10
			4T-2972	8J-4666	5/8x2 1/4	4	16	203	673		Center Blade	2	17
			4T-3027	8J-1487	5/8x2 1/4	3	20	203	383		Center Blade	1	12
			4T-3028	8J-1488	5/8x2 1/4	4	20	203	675		Center Blade	2	21
			4T-3051/2	5J-6923	5/8x2 1/4	6	20	203	337		Flat End Bit		11
			9F-7073/4		5/8x2 1/4	6	16				F End Bit		15
			3G-8321/2	6J-0277/8	5/8x3 1/2	6	22				HC End Bit		17
		90H691-UP	**6J-2171**		5/8x2 1/4	15	20	203	2229		Center Blade		71
		92H, 97H,	**4T-3025**	7J-9493	5/8x2 1/4	7	20	203	1114		Center Blade	1	35
		10J, 12J	**4T-3026**	7J-9474	5/8x2 1/4	4	20	203	556		Center Blade	2	18
			9F-7073/4		5/8x2 1/4	6	16				F End Bit		15
			3G-8321/2	6J-0277/8	5/8x3 1/2	6	22				HC End Bit		17
D5H	5S	2BH	**3G-6062**		3/4x2 1/2	7	20	203	1162		Center Blade	2	37
			3G-4285		3/4x2 1/2	4	20	203	425		Lateral Blade		13
			3G-4285 HD		3/4x2 1/2	4	25	203	425		Lateral Blade		17
			4T-5407/8		3/4x2 1/2	4	25				EWL End Bit		
	5S PET	4AH	**4T-731**		3/4x2 1/2	5	20	203	833		Center Blade	2	26
			3G-4285		3/4x2 1/2	4	20	203	425		Lateral Blade		13
			3G-4285 HD		3/4x2 1/2	4	25	203	425		Lateral Blade		17
			4T-5407/8		3/4x2 1/2	4	25				EWL End Bit		
	5S LGP	1ZH	**1U-2211**		3/4x2 1/2	9	20	203	1470		Center Blade	2	47
			3G-4285		3/4x2 1/2	4	20	203	425		Lateral Blade		13
			3G-4285 HD		3/4x2 1/2	4	25	203	425		Lateral Blade		17
			4T-5407/8		3/4x2 1/2	4	25				EWL End Bit		
D5	5A	91H, 96H,	**4T-2978**	5J-6861	5/8x2 1/4	24	16	203	2435		Center Blade		61
		42K	**5J-6901**	1J-5	5/8x2 1/4	24	20	203	2435		Center Blade		77
			4T-3030	6J-2350	5/8x2 1/4	12	20	203	1216		Center Blade	2	39
			9F-7075/6		5/8x2 1/4	6	25				F End Bit		15
			3G-8295/6	6J-0893/4	5/8x2 1/4	6	25				HC End Bit		16
		93H, 98H,	**5J-6905**		5/8x2 1/4	29	16	203	2892		Center Blade		73
		11J, 13J	**5J-6897**	1J-3	5/8x2 1/4	29	20	203	2892		Center Blade		92
			4T-3008	7J-9475	5/8x2 1/4	11	20	203	1165		Center Blade	1	37
			4T-3020	7J-9476	5/8x2 1/4	9	20	203	859		Center Blade	2	27
			9F-7075/6		5/8x2 1/4	6	25				F End Bit		15
			3G-8295/6	6J-0893/4	5/8x2 1/4	6	25				HC End Bit		16

	Type	Serie	Ref. Present	Ref. Old	Inches	nº	mm.				Description	nº	KG
		93H3847-UP	**4T-3004**	9J-6853	3/4x2 1/2	9	20	203	1438		Center Blade	2	46
			4J-8261/2		3/4x2 1/2	6	25				F End Bit		16
			3G-8297/8		3/4x2 1/2	6	22				HC End Bit		15
	5S	16K, 19R	**4T-3024**	5J-9205	5/8x2 1/4	28	20	203	2816		Center Blade		89
			5A-8644		5/8x2 1/4	14	20	203	1407		Center Blade	2	45
			9F-7073/4		5/8x2 1/4	6	16				F End Bit		15
			3G-8321/2	6J-0277/8	5/8x3 1/2	6	22				HC End Bit		17
D5H	5A	3AH	**4T-3013**	7J-9477	3/4x2 1/2	7	20	203	1010		Center Blade	1	32
			1U-2207		3/4x2 1/2	6	20	203	960		Center Blade	2	30
			3G-4285		3/4x2 1/2	4	20	203	425		Lateral Blade		13
			3G-4285 HD		3/4x2 1/2	4	25	203	425		Lateral Blade		17
			4T-5407/8		3/4x2 1/2	4	25				EWL End Bit		
	5P	2AH	**3G-4282**		3/4x2 1/2	7	20	203	1149		Center Blade	2	36
			3G-4285		3/4x2 1/2	4	20	203	425		Lateral Blade		13
			3G-4285 HD		3/4x2 1/2	4	25	203	425		Lateral Blade		17
			4T-5407/8		3/4x2 1/2	4	25				EWL End Bit		
	5P LGP	1YH	**4T-2315**		3/4x2 1/2	10	20	203	1557		Center Blade	2	49
			3G-4285		3/4x2 1/2	4	20	203	425		Lateral Blade		13
			3G-4285 HD		3/4x2 1/2	4	25	203	425		Lateral Blade		17
			4T-5407/8		3/4x2 1/2	4	25				EWL End Bit		
D6	6S	9A, 1C, 6C,	**5J-6879**	3J-7640	5/8x2 1/4	11	20	203	1743		Center Blade		55
		15C1-5000	**4T-3027**	8J-1487	5/8x2 1/4	3	20	203	383		Center Blade	1	12
			4T-3028	8J-1488	5/8x2 1/4	4	20	203	675		Center Blade	2	21
			4T-2977	5J-6862	5/8x2 1/4	18	16	203	1826		Center Blade		46
			4T-3021	5J-6903	5/8x2 1/4	18	20	203	1826		Center Blade		58
			9F-7073/4		5/8x2 1/4	6	16				F End Bit		15
			3G-8321/2	6J-0277/8	5/8x3 1/2	6	22				HC End Bit		17
		16C1-5000,	**4T-2976**	5J-6906	5/8X 2 1/4	22	16	203	2232		Center Blade		56
		85C,80D,36D	**4T-3023**	5J-6898	5/8x2 1/4	22	20	203	2232		Center Blade		71
		38D,39H	**9F-7073/4**		5/8x2 1/4	6	16				F End Bit		15
		15E, 2G,3G	**3G-8321/2**	6J-0277/8	5/8x3 1/2	6	22				HC End Bit		17
		95E, 46G,	**4T-3017**	8J-7738	3/4x2 1/4	15	20	203	2334		Center Blade		74
		55G, 17H	**4T-3013**	7J-9477	3/4x2 1/4	7	20	203	1010		Center Blade	1	32
			4T-3010	7J-9478	3/4x2 1/4	4	20	203	657		Center Blade	2	21
			4T-3017 HD	8J-7738 HD	3/4x2 1/4	15	25	203	2334		Center Blade		94
			4T-3013 HD	7J-9477 HD	3/4x2 1/4	7	25	203	1010		Center Blade	1	41
			4T-3010 HD	7J-9478 HD	3/4x2 1/4	4	25	203	657		Center Blade	2	26
			5J-1419/20	5J-1419	3/4x2 1/4	6	22				F End Bit		15
			3G-8319/20	6J-0275/6	3/4x2 1/4	6	22				HC End Bit		16
			9W-9014/15		3/4x2 1/4	6	25				HC End Bit		17
	6S LGP	21H, 41 H	**4T-3011**	8J-7156	3/4x2 1/4	15	20	203	1619		Center Blade	1	51
			4T-3010	7J-9478	3/4x2 1/4	7	20	203	657		Center Blade	2	21
			4T-3011 HD	8J-7156 HD	3/4x2 1/4	4	25	203	1619		Center Blade	1	65
			4T-3010 HD	7J-9478 HD	3/4x2 1/4	15	25	203	657		Center Blade	2	26
			5J-1419/20	5J-1419	3/4x2 1/4	6	22				F End Bit		15
			3G-8319/20	6J-0275/6	3/4x2 1/4	6	22				HC End Bit		16
			9W-9014/15		3/4x2 1/4	6	25				HC End Bit		17
	6A	15C5001-UP	**4T-2978**	5J-6861	5/8x2 1/4	24	16	203	2435		Center Blade		61
		39D, 82D,	**5J-6901**	1J-5	5/8x2 1/4	24	20	203	2435		Center Blade		77
		8E, 9E	**4T-3030**	6J-2350	5/8x2 1/4	12	20	203	1216		Center Blade	2	39

	Type	Serie	Ref. Present	Ref. Old	Inches	nº	mm.				Description	nº	KG lb
			9F-7075/6		5/8x2 1/4	6	20				F End Bit		15
			3G-8295/6	6J-0893/4	5/8x2 1/4	6	25				HC End Bit		17
		16C5001-UP	**5J-6905**		5/8x2 1/4	29	16	203	2892		Center Blade		
		37D, 81D,	**5J-6897**	1J-3	5/8x2 1/4	29	20	203	2892		Center Blade		92
		16E, 3F, 4F,	**4T-3008**	7J-9475	5/8x2 1/4	11	20	203	1165		Center Blade	1	37
		40H	**4T-3020**	7J-9476	5/8x2 1/4	9	20	203	859		Center Blade	2	27
			9F-7075/6		5/8x2 1/4	6	20				F End Bit		15
			3G-8295/6	6J-0893/4	5/8x2 1/4	6	25				HC End Bit		17
		44E, 47G,	**5J-6878**	3J-5028	3/4x2 1/4	20	20	203	3048		Center Blade		97
		58G, 18H,	**4T-3009**	6J-1406	3/4x2 1/4	10	20	203	1521		Center Blade	2	48
		54U	**5J-6878 HD**	3J-5028 HD	3/4x2 1/4	20	25	203	3048		Center Blade		123
			4T-3009 HD	6J-1406 HD	3/4x2 1/4	10	25	203	1521		Center Blade	2	61
			4J-8261/2		3/4x2 1/4	6	19				F End Bit		15
			3G-8297/8	4J-8261/2	3/4x2 1/4	6	22				HC End Bit		16
			9W-9010/11		3/4x2 1/4	6	25				HC End Bit		17
D7	7S	17C1-5000,	**4T-2954**	5J-6856	3/4 X2 3/4	23	20	254	2334		Center Blade		92
		5A, 84C,2E	**4T-2864**	5J-6850	3/4x2 3/4	23	25	254	2334		Center Blade		117
		34D,83D,17E	**3J-2465/6**	1J-0979/80	3/4x4 1/2	7	28				F End Bit		28
		23F, 31F,	**5J-6889**	2J-6012	3/4 X2 2/1	17	20	254	2534		Center Blade		100
		59F, 14H	**4T-2946**	6J-256	3/4x2 2/1	7	20	254	1114		Center Blade	1	44
			4T-2945	6J-257	3/4x2 2/1	5	20	254	708		Center Blade	2	28
			5J-6830	2J-6011	3/4x2 2/1	17	25	254	2534		Center Blade		127
			4T-2990	6J-258	3/4x2 2/1	7	25	254	1114		Center Blade	1	56
			4T-2991	6J-259	3/4x2 2/1	5	25	254	708		Center Blade	2	36
			4J-8843/4		7/8x2 3/4	7	28				F End Bit		28
			3G-8293/4		7/8x2 3/4	7	22				HC End Bit		27
			3G-8315/6	5J-8767/8	7/8x2 3/4	7	25				HC End Bit		30
			9W-6198/9		7/8x2 3/4	7	35				HC End Bit		0
		60K	**4T-2922**	6J-5340	7/8x2 3/4	5	20	254	759		Center Blade	2	30
		53J, 49K,	**4T-2921**	7J-2363	7/8x2 3/4	7	20	254	1064		Center Blade	1	42
		64K	**4T-2992**	7J-2847	7/8x2 3/4	5	25	254	759		Center Blade	2	38
			4T-2993	7J-9481	7/8x2 3/4	7	25	254	1064		Center Blade	1	54
			4J-8843/4		7/8x2 3/4	7	28				F End Bit		28
			3G-8293/4		7/8x2 3/4	7	22				HC End Bit		27
			3G-8315/6	5J-8767/8	7/8x2 3/4	7	25				HC End Bit		30
			9W-6198/9		7/8x2 3/4	7	35				HC End Bit		0
D7H	7S	6KB1-UP	**4T-5318**		7/8x2 3/4	6	20	254	894		Center Blade	3	35
			7T-6678		7/8x2 3/4	6	25	279	894		Center Blade	3	49
			4J-8843/4		7/8x2 3/4	7	28				F End Bit		28
			3G-8293/4		7/8x2 3/4	7	22				HC End Bit		27
			3G-8315/6	5J-8767/8	7/8x2 3/4	7	25				HC End Bit		30
			9W-6198/9		7/8x2 3/4	7	35				HC End Bit		0
	7S-LGP	6JB1-UP	**4T-3901**		7/8x2 3/4	7	20	254	1094		Center Blade	3	43
			7T-6589		7/8x2 3/4	7	25	279	1094		Center Blade	3	61
			4J-8843/4		7/8x2 3/4	7	28				F End Bit		28
			3G-8315/6	5J-8767/8	7/8x2 3/4	7	25				HC End Bit		30
D7	7A	6A, 35D,	**5J-6866**	1J-10	3/4x2 3/4	30	20	254	3045		Center Blade		121
		17C5001-UP	**5J-6853**	1J-14	3/4x2 3/4	30	25	254	3045		Center Blade		153
		84D, 6E,	**4T-2949**	6J-2349	3/4x2 3/4	15	20	254	1521		Center Blade	2	60
		18E	**4T-2863**	6J-2348	3/4x2 3/4	15	25	254	1521		Center Blade	2	77

	Type	Serie	Ref. Present	Ref. Old	Inches	nº	mm.				Description	nº	KG lb
			3J-2465/6	1J-0979/80	3/4x4 1/2	7	28				F End Bit		28
			3G-8313/4		3/4x4 1/2	7	30				HC End Bit		30
		72F	**4T-2948**	5J-6888	3/4x2 3/4	7	20	254	1064		Center Blade	3	42
		13F, 22F,	**4T-2989**	5J-6849	3/4x2 3/4	7	25	254	1064		Center Blade	3	54
		30F, 13H	**4J-8843/4**		7/8x2 3/4	7	28				F End Bit		28
			3G-8293/4		7/8x2 3/4	7	22				HC End Bit		27
			3G-8315/6	5J-8767/8	7/8x2 3/4	7	25				HC End Bit		30
			9W-6198/9		7/8x2 3/4	7	35				HC End Bit		0
7DH	7A	4EB1-U	**4T-3901**		7/8x2 3/4	7	20	254	1094		Center Blade	3	43
			7T-6589		7/8x2 3/4	7	25	279	1094		Center Blade	3	61
			3G-8293/4		7/8x2 3/4	7	22	0	0		HC End Bit		27
			3G-8315/6	5J-8767/8	7/8x2 3/4	7	25	0	0		HC End Bit		30
7D	7G		**4T-2954**	5J-6856	3/4x2 3/4	23	20	254	2334		Center Blade		92
			4T-2864	5J-6850	3/4x2 3/4	23	25	254	2334		Center Blade		117
D7H	7 Semi-U	4DB1-UP	**4T-5318**		7/8x2 3/4	6	20	254	894		Center Blade		35
			7T-6678		7/8x2 3/4	6	25	279	894		Center Blade		49
			1U-1192		7/8x2 3/4	6	20	254	913		Lateral Blade		36
			7T-6936		7/8x2 3/4	6	25	279	913		Lateral Blade		51
			4J-8843/4		7/8x2 3/4	7	28				F End Bit		28
			3G-8293/4		7/8x2 3/4	7	22				HC End Bit		27
			3G-8315/6	5J-8767/8	7/8x2 3/4	7	25				HC End Bit		30
			9W-6198/9		7/8x2 3/4	7	35				HC End Bit		0
D7	7U	42G	**4T-2955**	5J-6895	3/4x2 1/2	9	20	254	1359		Center Blade		54
			4T-2890	5J-6896	3/4x2 1/2	9	25	254	1359		Center Blade		68
			4T-2952	5J-6839	3/4x2 1/2	5	20	254	803		Lateral Blade		32
			4T-2985	5J-6812	3/4x2 1/2	5	25	254	803		Lateral Blade		40
			3G-8293/4		7/8x2 3/4	7	22				HC End Bit		27
			3G-8315/6	5J-8767/8	7/8x2 3/4	7	25				HC End Bit		30
		61K, 85D, 94R	**4T-2917**	7J-2362	7/8x2 3/4	9	20	254	1356		Center Blade		54
			4T-3421	7J-2850	7/8x2 3/4	9	25	254	1356		Center Blade		68
			4T-2916	6J-9044	7/8x2 3/4	5	20	254	816		Lateral Blade		32
			4T-3420	7J-2851	7/8x2 3/4	5	25	254	816		Lateral Blade		41
			3G-8293/4		7/8x2 3/4	7	22				HC End Bit		27
			3G-8315/6	5J-8767/8	7/8x2 3/4	7	25				HC End Bit		30
D7H	7U	5SB1-UP	**4T-7110**		7/8x2 3/4	6	20	25	987		Center Blade	2	4
			7T-6591		7/8x2 3/4	6	25	279	987		Center Blade	2	55
			4T-7109		7/8x2 3/4	4	20	254	567		Lateral Blade		22
			7T-6592		7/8x2 3/4	4	25	279	567		Lateral Blade		31
			3G-8293/4		7/8x2 3/4	7	22				HC End Bit		27
			3G-8315/6	5J-8767/8	7/8x2 3/4	7	25				HC End Bit		30
D8	8S	8A, 12C,	**5J-6865**	1J-9	3/4x3	26	20	254	2638		Center Blade		105
		18C, 32D,	**4T-2944**	5J-6887	3/4x3	13	20	254	1318		Center Blade	2	52
		44C1-1192	**5J-6829**	1J-0013	3/4x3	26	25	254	2638		Center Blade		133
		86D, 3E	**4T-2860**	5J-6835	3/4x3	13	25	254	1318		Center Blade	2	66
			4T-6671	5J-6929	3/4x3 1/4	8	30	254	400		Flat End Bit		24
			4T-6672	5J-6930	3/4x4 1/2	6	30	254	400		Flat End Bit		24
			3J-2463/4		3/4x3 1/4	7	25				F End Bit		28
			3G-8311/12	3J-2463/4	3/4x4 1/2	7	30				HC End Bit		28
		44C1193-UP	**5J-6848**	1J-2668	3/4x3	28	25	254	2842		Center Blade		143
		73D	**4T-2862**	5J-6834	3/4x3	14	25	254	1419		Center Blade	2	71
			3J-2463/4		3/4x3 1/4	7	25				F End Bit		28
			3G-8311/12	3J-2463/4	3/4x4 1/2	7	30				HC End Bit		28

	Type	Serie	Ref. Present	Ref. Old	Inches	nº	mm.				Description	nº	KG lb
		78C, 29E,	**4T-6531**	5J-6831	7/8x3	10	25	254	1521		Center Blade	2	77
		94E	**4T-6531 HD**	5J-6831 HD	7/8x3	10	30	254	1521		Center Blade	2	90
			4T-6299	3G-3798	7/8x3	10	35	254	1521		Center Blade	2	105
			4J-8849/50		7/8x3	7	28				F End Bit		27
			3G-8299/8300	5J-8769/70	7/8x3	7	30				HC End Bit		27
			3G-8277/78	7J-3459/60	7/8x3	7	40				HC End Bit		37
		69E, 14J,	**4T-3418**	6J-7116	7/8x3	10	25	254	1534		Center Blade	2	77
		44K, 47K	**4T-3418 HD**	6J-7116 HD	7/8x3	10	30	254	1534		Center Blade	2	91
			4T-6298	3G-3807	7/8x3	10	35	254	1534		Center Blade	2	106
			4J-8849/50		7/8x3	7	28				F End Bit		27
			3G-8299/8300	5J-8769/70	7/8x3	7	30				HC End Bit		27
			3G-8277/78	7J-3459/60	7/8x3	7	40				HC End Bit		37
		29V	**4T-2988**	8J-8118	1x3 1/4	7	25	254	1033		Center Blade	3	52
			1U-4933	8J-8118 HD	1x3 1/4	7	30	254	1033		Center Blade	3	61
			4T-6301	3G-3979	1x3 1/4	7	35	254	1033		Center Blade	3	72
			9J-1479/80		1x3 1/4	7	30				F End Bit		27
			3G-8301/2	8J-8116/17	1x3 1/4	7	30				HC End Bit		27
			3G-8279/80	9J-1472/3	1x3 1/4	7	40				HC End Bit		37
			9W-8651		1x3 1/4	7	50				HC End Bit		47
		29V1-UP	**7T-4353**		1x3 1/2	7	45	330	1033		Center Blade	3	120
			7T-4088/9		1x3 1/2	7					EWL End Bit		66
D8L	8S	4Y1-1939	**4T-3423**	6J-9606	1x3 1/2 **	6	25	254	857		Center Blade	2	43
			4T-3417	3G-6289	1x3 1/2 **	5	25	254	810		Center Blade	2	41
			1U-4930		1x3 1/2 **	6	30	254	857		Center Blade	2	51
			1U-4929		1x3 1/2 **	5	35	254	810		Center Blade	2	56
			4T-3445	1U-4295	1x3 1/2 **	6	35	254	857		Center Blade	2	59
			4T-6302	1U-4293	1x3 1/2 **	5	40	254	810		Center Blade	2	64
		4Y1-1939	**9J-1477/8**		1x3 1/2**	7	28				F End Bit		28
			3G-8317/8	8J-8119/20	1x3 1/2**	7	30				HC End Bit		28
			3G-8287/8	9J-1474/5	1x3 1/2**	7	40				HC End Bit		38
			9W-8653/4		1x3 1/2**	7	50				HC End Bit		48
			7T-5235		1x3 1/2	6	45	330	856		Center Blade	2	99
			7T-4346		1x3 1/2	5	45	330	810		Center Blade	1	94
			7T-4345		1x3 1/2	5	45	330	810		Center Blade	1	94
			7T-4090/1		1x3 1/2	7	0				EWL End Bit		68
		4Y1940-UP	**4T-9586**		1x3 1/4	11	30	330	1699		Center Blade	1	131
		Excepto	**4T-9587**		1x3 1/4	5	30	330	797		Center Blade	2	62
		4Y1968,	**4T-9836**		1x3 1/4	11	35	356	1699		Center Blade	1	165
		4Y1969,	**4T-9838**		1x3 1/4	5	35	330	797		Center Blade	2	72
		4Y2011 y	**4T-9836 HD**		1x3 1/4	11	35	330	1699		Center Blade	1	153
		4Y2055 -	**4T-9838 HD**		1x3 1/4	5	35	330	797		Center Blade	2	72
		4Y2087	**4J-8723/4**		1x5 1/2	7	32				F End Bit		43
			3G-8291/2	7J-6711/2	1x5 1/2	7	35				HC End Bit		60
			3G-8283/4	7J-3463/4	1x5 1/2	7	40				HC End Bit		65
			9W-6192/3		1x5 1/2	7	50				HC End Bit		70
D8	8A	7A, 18C,	**5J-6886**	1J-11	3/4x3	32	20	254	3248		Center Blade		129
		33D, 72D,	**4T-2943**	5J-6890	3/4x3	16	20	254	1622		Center Blade	2	64
		87D, 99D,	**5J-6852**	1J-12	3/4x3	32	25	254	3248		Center Blade		163
		7E, 22E	**4T-2888**	5J-6851	3/4x3	16	25	254	1622		Center Blade	2	82
			3J-2465/6	1J-0979/80	3/4x4 1/2	7	28				F End Bit		28

	Type	Serie	Ref. Present	Ref. Old	Inches	nº	mm.				Description	nº	KG
			3G-8313/4		3/4x4 1/2	7	30				HC End Bit		28
		28E1-11125	**5J-6833**	2J-1487	7/8x3	3	25	254	1826		Center Blade	2	92
			5J-5833 HD	2J-1487 HD	7/8x3	3	30	254	1826		Center Blade	2	109
			4T-6532	5J-6832	7/8x3	3	25	254	911		Center Blade	4	45
			4T-6532 HD	5J-6832 HD	7/8x3	3	30	254	911		Center Blade	4	54
			4T-6296	3G-3808	7/8x3	3	35	254	911		Center Blade	4	63
			4J-8843/4		7/8x3	7	28				F End Bit		28
			3G-8315/6	5J-8767/8	7/8x3	7	30				HC End Bit		30
			3G-8285/6	7J-3457/8	7/8x3	7	40				HC End Bit		38
		28E11126 -	**4T-2994**	8J-9668	1x3 1/4	8	25	254	1213		Center Blade	3	61
		UP, 93E,	**4T-2994 HD**	8J-9668 HD	1x3 1/4	8	30	254	1213		Center Blade	3	72
		14F	**4T-3447**	3G-3982	1x3 1/4	8	35	254	1213		Center Blade	3	84
			9J-1477/8		1x3 1/2**	7	28				F End Bit		28
			3G-8317/8	8J-8119/20	1x3 1/2**	7	30				HC End Bit		28
			3G-8287/8	9J-1474/5	1x3 1/2**	7	40				HC End Bit		38
			9W-8653/4		1x3 1/2**	7	50				HC End Bit		48
			7T-4351		1x3 1/2	8	45	330	1214		Center Blade	3	141
			7T-4090/1		1x3 1/2	7					EWL End Bit		68
D8L	8A	5Y1-UP	**4T-2987**	8J-9565	1x3 1/2 **	6	25	254	921		Center Blade	2	46
			4T-2988	8J-8118	1x3 1/2 **	7	25	254	1033		Center Blade	2	52
			1U-4932		1x3 1/2 **	6	30	254	921		Center Blade	2	55
			1U-4933		1x3 1/2 **	7	30	254	1033		Center Blade	2	61
			4T-6303	3G-3980	1x3 1/2 **	6	35	254	921		Center Blade	2	64
			4T-6301	3G-3979	1x3 1/2 **	7	35	254	1033		Center Blade	2	72
			9J-1477/8		1x3 1/2**	7	28				F End Bit		28
			3G-8317/8	8J-8119/20	1x3 1/2**	7	30				HC End Bit		28
			3G-8287/8	9J-1474/5	1x3 1/2**	7	40				HC End Bit		38
			9W-8653/4		1x3 1/2**	7	50				HC End Bit		48
			7T-4353		1x3 1/2	7	45	330	1033		Center Blade	2	120
			7T-4352		1x3 1/2	6	45	330	922		Center Blade	2	107
			7T-4090/1		1x3 1/2	7					EWL End Bit		68
D8	8U	11C, 74D,	**4T-3419**	5J-6892	3/4x2	12	25	254	1213		Center Blade		61
		88D, 24E	**4T-2861**	5J-6854	3/4x3	9	25	254	908		Lateral Blade		46
			3J-2465/6	1J-0979/80	3/4x4 1/2	7	28				F End Bit		28
			3G-8313/4		3/4x4 1/2	7	30				HC End Bit		28
		30E, 73E	**4T-6513**	5J-6894	7/8x3	10	25	254	1521		Center Blade		77
			4T-6513 HD	5J-6894 HD	7/8x3	10	30	254	1521		Center Blade		90
			4T-6300	3G-3977	7/8x3	10	35	254	1521		Center Blade		105
			4T-6532	5J-6832	7/8x3	6	25	254	911		Lateral Blade		46
			4T-6532 HD	5J-6832 HD	7/8x3	6	30	254	911		Lateral Blade		54
			4T-6296	3G-3808	7/8x3	6	35	254	911		Lateral Blade		63
			4J-8843/4		7/8x3	7	28				F End Bit		28
			3G-8315/6	5J-8767/8	7/8x3	7	30				HC End Bit		30
			3G-8285/6	7J-3457/8	7/8x3	7	40				HC End Bit		38
		20F, 45K,	**4T-6513**	5J-6894	7/8x3	10	25	254	1521		Center Blade		77
		48K	**4T-6513 HD**	5J-6894 HD	7/8x3	10	30	254	1521		Center Blade		90
			4T-6300	3G-3977	7/8x3	10	35	254	1521		Center Blade		105
			4T-6512	6J-9284	7/8x3	6	30	76	203		Lateral Blade		4
			4T-6512 HD	6J-9284 HD	7/8x3	6	30	254	924		Lateral Blade		55
			4T-6297	3G-3978	7/8x3	6	35	254	924		Lateral Blade		64

	Type	Serie	Ref. Present	Ref. Old	Inches	n°	mm.				Description	n°	KG lb
			4J-8843/4		7/8x3	7	28				F End Bit		28
			3G-8315/6	5J-8767/8	7/8x3	7	30				HC End Bit		30
			3G-8285/6	7J-3457/8	7/8x3	7	40				HC End Bit		38
		30V	**4T-2986**	8J-9564	1x3 1/4	5	25	254	781		Center Blade		39
			4T-2986 HD	8J-9564 HD	1x3 1/4	5	30	254	781		Center Blade		46
			4T-6295	3G-3981	1x3 1/4	5	35	254	781		Center Blade		54
			4T-2987	8J-9565	1x3 1/4	6	30	25	102		Lateral Blade		1
			4T-2987 HD	1U-4932	1x3 1/4	6	30	254	921		Lateral Blade		55
			4T-6303	3G-3980	1x3 1/4	6	35	254	921		Lateral Blade		64
			9J-1477/8		1x3 1/2**	7	28				F End Bit		28
			3G-8317/8	8J-8119/20	1x3 1/2**	7	30				HC End Bit		28
			3G-8287/8	9J-1474/5	1x3 1/2**	7	40				HC End Bit		38
			9W-8653/4		1x3 1/2**	7	50				HC End Bit		48
		30V-UP	**7T-4352**		1x3 1/2	6	45	330	922		Center Blade	2	107
			7T-4350		1x3 1/2	5	45	330	779		Lateral Blade		90
			7T-4349		1x3 1/2	5	45	330	779		Lateral Blade		90
			7T-4090/1		1x3 1/2	7					EWL End Bit		68
D8L	8U	6Y1-1395	**4T-3422**	3G-1041	1x3 1/2**	7	25	254	1092		Center Blade	2	55
			1U-4931	1U-4931	1x3 1/2**	7	30	254	1092		Center Blade	2	65
			4T-3446	1U-4294	1x3 1/2**	7	35	254	1092		Center Blade	2	76
			4T-3417	3G-6289	1x3 1/2**	5	25	254	810		Lateral Blade		41
			1U-4929	1U-4929	1x3 1/2**	5	30	254	810		Lateral Blade		48
			4T-6302	1U-4293	1x3 1/2**	5	35	254	810		Lateral Blade		56
			9J-1477/8		1x3 1/2**	7	28				F End Bit		28
			3G-8317/8	8J-8119/20	1x3 1/2**	7	30				HC End Bit		28
			3G-8287/8	9J-1474/5	1x3 1/2**	7	40				HC End Bit		38
			9W-8653/4		1x3 1/2**	7	50				HC End Bit		48
			7T-4347		1x3 1/2	7	45	330	1094		Center Blade	2	127
			7T-4346		1x3 1/2	5	45	330	810		Right End Blade		94
			7T-4345		1x3 1/2	5	45	330	810		Left End Blade		94
			7T-4090		1x3 1/2	7					EWL End Bit		68
		6Y1396-UP	**4T-9590**		1x3 1/4	14	30	330	2165		Center Blade		167
			4T-9837		1x3 1/4	14	35	330	2165		Center Blade		195
			4T-9587		1x3 1/4	5	30	330	797		Lateral Blade		62
			4T-9838		1x3 1/4	5	35	330	797		Lateral Blade		72
			4J-8723/4		1x5 1/2	7	32				F End Bit		43
			3G-8291/2	7J-6711/2	1x5 1/2	7	35				HC End Bit		60
			3G-8283/4	7J-3463/4	1x5 1/2	7	40				HC End Bit		65
			9W-6192/3		1x5 1/2	7	50				HC End Bit		70
D8	8R	62E, 43K	**4T-3418**	6J-7116	7/8x3	10	25	254	1534		Center Blade	2	77
			4T-3418 HD	6J-7116 HD	7/8x3	10	30	254	1534		Center Blade	2	91
			3G-3807		7/8x3	10	35	254	1534		Center Blade	2	106
	8C	71F, 77G	**4T-2867**	5J-6809	7/8x3	13	25	254	2042		Center Blade		103
			4T-2867 HD	5J-6809 HD	7/8x3	13	30	254	2042		Center Blade		121
			4J-8843/4		7/8x3	7	28				F End Bit		28
			3G-8315/6	5J-8767/8	7/8x3	7	30				HC End Bit		30
			3G-8285/6	7J-3457/8	7/8x3	7	40				HC End Bit		38
D9	9S	21E1-831,	**5J-6802**	1J-0019	1 x 4	21	30	305	3239		Center Blade		231
		25E	**4T-6459**	5J-6806	1 x 4	9	30	305	1327		Center Blade	1	95
			4T-6456	5J-6800	1 x 4	6	30	305	953		Center Blade	2	68

	Type	Serie	Ref. Present	Ref. Old	Inches	nº	mm.				Description	nº	KG
			8J-7142	8J-7142	1 x 4	9	35	305	1327		Center Blade	1	110
			8J-7148	8J-7148	1 x 4	6	35	305	953		Center Blade	2	79
			4T-2327		1 x 4	9	35	330	1327		Center Blade	1	120
			4T-2329		1 x 4	6	35	330	953		Center Blade	2	86
			7J-2961	7J-2961	1 x 4	9	40	305	1327		Center Blade	1	126
			7J-2960	7J-2960	1 x 4	6	40	305	953		Center Blade	2	91
			5J-1279/80		1x3 1/2	7	32				F End Bit		43
			3G-8289/90	7J-6713/4	1x5 1/2	7	35				HC End Bit		60
			3G-8281/2	7J-3461/2	1x3 1/2	7	40				HC End Bit		65
			9W-9193/4		1x5 1/2	7	50				HC End Bit		70
		53C, 89D, 21E832-UP	**4T-6448**	5J-6803	1x3 1/2	10	30	305	1521		Center Blade	2	108
			4T-2324		1x3 1/2	10	35	330	1521		Center Blade	2	137
			7J-2962		1x3 1/2	10	40	305	1521		Center Blade	2	145
			5J-1279/80		1x3 1/2	7	32				F End Bit		43
			3G-8289/90	7J-6713/4	1x5 1/2	7	35				HC End Bit		60
			3G-8281/2	7J-3461/2	1x3 1/2	7	40				HC End Bit		65
			9W-9193/4		1x5 1/2	7	50				HC End Bit		70
		5A, 18K, 46K	**4T-2310**	1U-4941	1x3 1/2**	7	30	330	1038		Center Blade	3	80
			4T-2334	8J-7155	1x3 1/2**	7	35	330	1038		Center Blade	3	94
			7J-2980		1 x 4	7	40	330	1038		Center Blade	3	107
			5J-1279/80		1x3 1/2	7	32				F End Bit		43
			3G-8289/90	7J-6713/4	1x5 1/2	7	35				HC End Bit		60
			3G-8281/2	7J-3461/2	1x3 1/2	7	40				HC End Bit		65
			9W-9193/4		1x5 1/2	7	50				HC End Bit		70
D9L	9S	18Y1-1875, 52Y1-UP	**4T-6386**	6J-2084	1x3 1/2	7	30	330	1038		Center Blade	1	80
			4T-2310	1U-4941	1x3 1/2								0
			4T-6385	3G-7762	1x3 1/2	8	30	330	1219		Center Blade	2	94
			4T-2309	1U-4942	1x3 1/2								0
			4T-2334	8J-7155	1x3 1/2	7	35	330	1038		Center Blade	1	94
			4T-2333	1U-1560	1x3 1/2	8	35	330	1219		Center Blade	2	110
			7J-2980		1x3 1/2	7	40	330	1038		Center Blade	1	107
			1U-1560 HD		1x3 1/2	8	40	330	1219		Center Blade	2	126
			1U-1545		1 1/4x4	7	40				HC End Bit		66
			1U-1546		1 1/4x4	7	40				HC End Bit		66
			8E-4198		1 1/4x4	7	55				HC End Bit		90
			8E-4199		1 1/4x4	7	55				HC End Bit		90
			7T-4688		1 1/4x4	7	60				HC End Bit		99
			7T-4689		1 1/4x4	7	60				HC End Bit		99
			7T-4342		1x3 3/4	7	45	406	1039		Center Blade	1	148
			7T-6788		1x3 3/4	8	45	406	1222		Center Blade	1	174
			7T-6787		1x3 3/4	8	45	406	1222		Center Blade	1	174
		18Y-1876-UP	**7T-9782**		1 1/4x4	6	35	406	908		Center Blade	2	101
			7T-9779		1 1/4x4	5	35	406	832		Center Blade	2	92
			7T-4689/9		1 1/4x4	7					HC End Bit		106
		90F	**4T-6450**	5J-6836	1 x 4	15	30	305	2210		Center Blade		158
			5J-1279/80		1x3 1/2	7	32				F End Bit		43
			3G-8289/90	7J-6713/4	1x5 1/2	7	35				HC End Bit		60
			3G-8281/2	7J-3461/2	1x3 1/2	7	40				HC End Bit		65
			9W-9193/4		1x5 1/2	7	50				HC End Bit		70
	9A	52C, 90D,	**5J-6801**	1J-20	1 x4	25	30	305	3794		Center Blade		271

	Type	Serie	Ref. Present	Ref. Old	Inches	n°	mm.				Description	n°	KG lb
		11E, 26E	**4T-6388**	5J-6805	1 x4	7	30	330	1064		Center Blade	1	82
			4T-6387	5J-6804	1 x4	9	32	330	1368		Center Blade	2	112
			4T-2328	8J-7153	1 x4	7	30	330	1064		Center Blade	1	82
			4T-2325	8J-7152	1 x4	9	35	330	1368		Center Blade	2	123
			7J-2966		1 x4	7	40	330	1064		Center Blade	1	110
			7J-2965		1 x4	9	40	330	1368		Center Blade	2	141
			4J-8723/4		1x5 1/2	7	32				F End Bit		43
			3G-8291/2	7J-6711/2	1x5 1/2	7	35				HC End Bit		60
	9U	55C	**4T-6453**	5J-6893	1x3 1/4	13	35	305	1975		Center Blade		164
			8J-7150		1x3 1/4	13	35	305	1975		Center Blade		164
			4T-2331		1x3 1/4	13	35	330	1975		Center Blade		178
			7J-2963		1x3 1/4	13	40	305	1975		Center Blade		188
			4T-6457	5J-6837	1x3 1/4	6	30	305	908		Lateral Blade		65
			8J-7151		1x3 1/4	6	35	305	908		Lateral Blade		76
			4T-2330		1x3 1/4	6	35	330	908		Lateral Blade		82
			7J-2964		1x3 1/4	6	40	305	908		Lateral Blade		86
			4J-8723/4		1x5 1/2	7	32				F End Bit		43
			3G-8291/2	7J-6711/2	1x5 1/2	7	35				HC End Bit		60
			3G-8283/4	7J-3463/4	1x5 1/2	7	40				HC End Bit		65
			8E-4196/7		1x5 1/2	7	50				HC End Bit		70
	9U SxS	50E, 20H	**4T-6378**	6J-5945	1x3 1/4**	6	30	330	899		Center Blade	4	69
			4T-6377	8J-2126	1x3 1/4**	4	30	330	586		Center Blade	3	45
			4T-6379	6J-6144	1x3 1/4**	4	30	330	587		Center Blade	2	45
			4T-2332	8J-7141	1x3 1/4**	6	35	330	899		Center Blade	4	81
			4T-9558										
			8J-2126 HD		1x3 1/4**	4	35	330	586		Center Blade	3	53
			4T-2326	8J-7154	1x3 1/4	4	35	330	587		Center Blade	2	53
			4T-9550										
			4J-8723/4		1x5 1/2	7	32				F End Bit		43
			3G-8291/2	7J-6711/2	1x5 1/2	7	35				HC End Bit		60
			3G-8283/4	7J-3463/4	1x5 1/2	7	40				HC End Bit		65
			8E-4196/7		1x5 1/2	7	50				HC End Bit		70
	9U	14C, 19K	**4T-6378**	6J-5945	1x3 1/4**	6	30	330	899		Center Blade	1	69
			4T-6379	5J-6144	1x3 1/4**	4	30	330	587		Center Blade	2	45
			4T-2332	8J-7141	1x3 1/4**	6	35	330	899		Center Blade	1	81
			4T-9558										
			4T-2326	8J-7154	1x3 1/4**	4	35	330	587		Center Blade	2	53
			4T-9550										
			7J-2959 D		1x3 1/4**	6	40	330	899		Center Blade	1	93
			7J-2979		1x3 1/4**	4	40	330	587		Center Blade	2	61
			4T-6378	6J-5945	1x3 1/4**	6	30	330	899		Lateral Blade		69
			4T-2332	8J-7141	1x3 1/4**	6	35	330	899		Lateral Blade		81
			4T-9558										
			7J-2959 D		1x3 1/4**	6	40	330	899		Lateral Blade		93
			4J-8723/4		1x5 1/2	7	32				F End Bit		43
			3G-8291/2	7J-6711/2	1x5 1/2	7	35				HC End Bit		60
			3G-8283/4	7J-3463/4	1x5 1/2	7	40				HC End Bit		65
			8E-4196/7		1x5 1/2	7	50				HC End Bit		70
D9L	9U	19Y1-1474	**4T-6381**	1U-4943	1x3 1/2	9	30	330	1348		Center Blade	2	104
			4T-2323	1U-1561	1x3 1/2	9	35	330	1348		Center Blade	2	121
			4T-9547										

	Type	Serie	Ref. Present	Ref. Old	Inches	nº	mm.				Description	nº	KG
			4T-2323HD	1U-1561 HD	1x3 1/2	9	40	330	1348		Center Blade	2	139
			4T-9547HD										
			4T-6382	1U-4944	1x3 1/2	6	30	330	635		Lateral Blade		49
			4T-2322	1U-1562	1x3 1/2	6	35	330	635		Lateral Blade		57
			4T9546										
			4T-2322HD	1U-1562 HD	1x3 1/2	6	40	330	635		Lateral Blade		65
			4T-9546HD										
			1U-1545/6		1 1/4x4	7	40				HC End Bit		66
			8E-4198/9		1 1/4x4	7	55				HC End Bit		90
			7T-4688/9		1 1/4x4	7	60				HC End Bit		99
			7T-4335		1x3 3/4	9	45	406	1353		Center Blade	2	193
			7T-4343		1x3 3/4	6	45	406	635		Right End Blade		91
			7T-4344		1x3 3/4	6	45	406	635		Left End Blade		91
			7T-4096/7		1 1/4x4	7					HC End Bit		108
		19V1475-UP	**9W-775**		1 1/4x4	5	35	406	756		Center Blade	3	84
			7T-9781		1 1/4x4	5	35	406	879		Lateral Blade		98
			7T-4688/9		1 1/4x4	7					HC End Bit		106
D9	9C	70F, 45G,	**4T-6450**	5J-6836	1 x 4	15	30	305	2210		Center Blade		158
		20Y1-UP	**4T-6388**	5J-6805	1 x 4	7	30	330	1064		Lateral Blade	2	82
			4J-8723/4		1x5 1/2	7	32				F End Bit		43
			3G-8291/2	7J-6711/2	1x5 1/2	7	35				HC End Bit		60
			3G-8283/4	7J-3463/4	1x5 1/2	7	40				HC End Bit		65
			8E-4196/7		1x5 1/2	7	50				HC End Bit		70
	9R	63E, 39K	**4T-6386**	6J-2084	1x3 1/4**	7	30	330	1038		Center Blade	3	80
			4T-2310	1U-4941									
			4T-2334	8J-7155	1x3 1/4**	7	35	330	1038		Center Blade	3	94
			7J-2980		1 x 4**	7	40	330	1038		Center Blade	3	107
D10	10S	79W368-UP	**3G-0394**		1 1/4x4	9	40	330	1029		Center Blade	2	106
			3G-0393		1 1/4x4	9	40	330	1026		Center Blade	2	106
			1U-4455		1 1/4x4	9	35	400	1029		Center Blade	2	112
			1U-4459		1 1/4x4	9	35	400	1026		Center Blade	2	112
			4T-0081		1 1/4x4	9	40	400	1029		Center Blade	2	128
			4T-0082		1 1/4x4	9	40	400	1026		Center Blade	2	128
			6Y-0016		1 1/4x4	9	45	400	1029		Center Blade	2	144
			6Y-0017		1 1/4x4	9	45	400	1026		Center Blade	2	144
			4T-0604		1 1/4x4	9	50	400	1029		Center Blade	2	160
			4T-0607		1 1/4x4	9	50	400	1026		Center Blade	2	160
			6Y-0021		1 1/4x4	9	60	400	1029		Center Blade	2	193
			6Y-0020		1 1/4x4	9	60	400	1026		Center Blade	2	192
			8E-4543/4	9W-3674/5	1 1/4x4	9	60				HC End Bit		147
			8E-4545/6		1 1/4x4	9	60				EWL End Bit		147
		1RH	**9W-6608**		1 1/4x4	5	35	400	859		Center Blade	2	94
			9W-6609		1 1/4x4	6	35	400	992		End Blade	2	108
			9W-6657		1 1/4x4	5	45	400	859		Center Blade	2	121
			9W-6656		1 1/4x4	6	45	400	992		End Blade	2	139
			8E-2086		1 1/4x4	5	60	400	859		End Blade	2	161
			8E-2085		1 1/4x4	6	60	400	992		End Blade	2	187
			8E-4543/4	9W-3674/5	1 1/4x4	9	60				HC End Bit		147
			8E-4545/6		1 1/4x4	9	60				EWL End Bit		147
	10U	80W360-UP	**3G-0396**		1 1/4x4	9	40	330	1060		Center Blade	3	109
			3G-0395		1 1/4x4	7	40	330	779		Lateral Blade		80
			4T-0083	1U-4458	1 1/4x4	9	40	400	1060		Center Blade	3	132

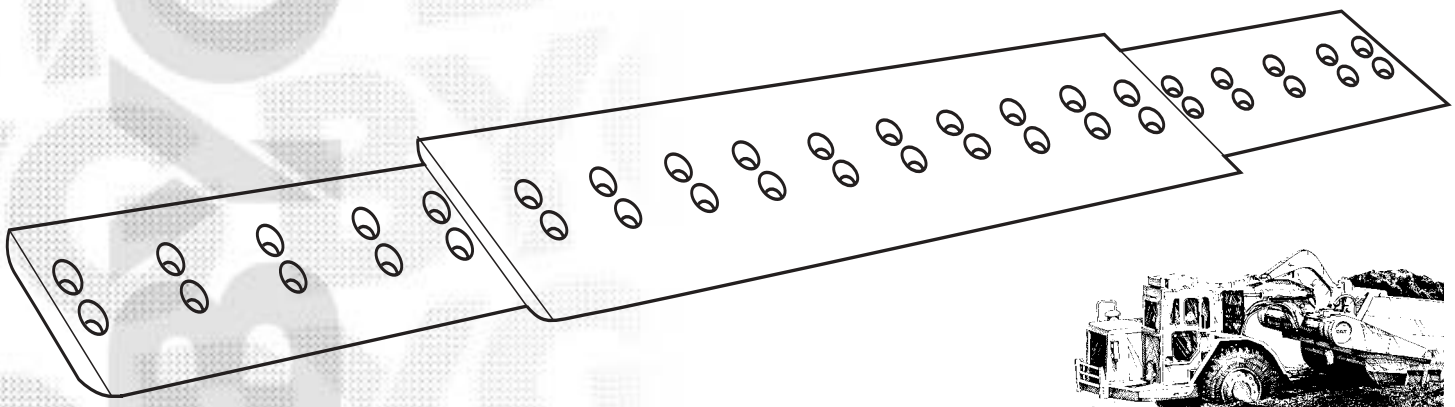
	Type	Serie	Ref. Present	Ref. Old	Inches	n°	mm.				Description	n°	KG lb
			4T-0084	1U-4457	1 1/4x4	7	40	400	779		Lateral Blade		97
			6Y-0018		1 1/4x4	9	45	400	1060		Center Blade	3	149
			6Y-0019		1 1/4x4	7	45	400	779		Lateral Blade		109
			4T-0609		1 1/4x4	9	50	381	1060		Center Blade	3	158
			4T-0608		1 1/4x4	7	50	400	779		Lateral Blade		122
			6Y-0023		1 1/4x4	9	60	381	1060		Center Blade	3	189
			6Y-0022		1 1/4x4	7	60	400	779		Lateral Blade		146
			8E-4543/4	9W-3674/5	1 1/4x4	9	60				HC End Bit		147
			8E-4545/6		1 1/4x4	9	60				EWL End Bit		147
		1SH	**9W-6608**		1 1/4x4	5	35	400	859		Center Blade	3	94
			9W-6609		1 1/4x4	6	35	400	992		End Blade	2	108
			9W-6657		1 1/4x4	5	45	400	859		Center Blade	3	121
			9W-6656		1 1/4x4	6	45	400	992		End Blade	2	139
			8E-2086		1 1/4x4	5	60	400	859		Center Blade	3	161
			8E-2085		1 1/4x4	6	60	400	992		End Blade	2	187
			8E-4543/4	9W-3674/5	1 1/4x4	9	60				HC End Bit		147
			8E-4545/6		1 1/4x4	9	60				EWL End Bit		147
D11 N	11S	4BB, 4KB	**9W-2426**		1 1/4x4	9	45	406	1099		Center Blade	2	157
			9W-2425			9	45	406	1022		Center Blade	2	146
			8E-4543/4	9W-3674/5	1 1/4x4	9	60				HC End Bit		147
			8E-4545/6		1 1/4x4	9	60				EWL End Bit		147
			9W-4495			9	60	406	1099		Center Blade	2	210
			9W-4494			9	60	406	1022		Center Blade	2	195
			9W-4491/2			9	75	0	0		HC End Bit		149
	11U	4CB, 5TB	**9W-2426**		1 1/4x4	9	45	406	1099		Center Blade	1	157
			9W-2424			9	45	406	1023		Center Blade	2	146
			9W-2425			9	45	406	1022		Lateral Blade		146
			8E-4543/4	9W-3674/5	1 1/4x4	9	60				HC End Bit		147
			8E-4545/6		1 1/4x4	9	60				EWL End Bit		147
			9W-4495			9	60	406	1099		Center Blade	1	210
			9W-4493			9	60	406	1026		Center Blade	2	196
			9W-4494			9	60	406	1022		Lateral Blade		195
			9W-4491/2			9	75				HC End Bit		149

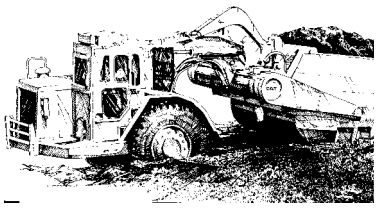
Cutting Edges for Compactors

	Type	Serie	Ref Present	Ref Old	Inches	nº	mm.				Description	nº	KG lb
814	S	23K, 56D	**4T-2921**	7J-2363	7/8 x 3	7	19	254	1064		Center Blade	1	38
			4T-2922	6J-5340	7/8 x 3	5	19	254	759		Center Blade	2	27
			4T-2993	7J-9481	7/8 x 3	7	25	254	1064		Center Blade	1	51
			4T-2992	7J-2847	7/8 x 3	5	25	254	759		Center Blade	2	37
			3G-8315/16	5J-8767/8	7/8x2 3/4	7	30				HC End Bit		30
			3G-8285/86	5J-8768	7/8x2 3/4	7	40				HC End Bit		40
			4T-3019	7J-7669	7/8 x 3	5	19	203	1364		Skid Shoe	2	39
815	S	39S, 17Z	**4T-3012**	3G-975	3/4x2 1/4	10	19	203	1495		Center Blade	2	42
			3G-8319/20	5J-1419/20	3/4x2 1/4	6					HC End Bit		21
	F	24K1-1044	**5J-6897**	1J-3	5/8x2 1/4	29	19	203	2892		Center Blade	1	82
		59E1-341	**4T-3008**	7J-9475	5/8x2 1/4	11	19	203	1165		Center Blade	1	33
			4T-3020	7J-9476	5/8x2 1/4	9	19	203	859		Center Blade	2	24
			3G-8295/6	9F-7075/6	5/8x2 1/4	6	0	0	0		HC End Bit		20
		24K1045-UP	**4T-3004**	9J-6853	3/4x2 1/2	9	19	203	1438		Center Blade	2	40
		59E342-UP	**3G-8297/8**	4J-8261/2	3/4x2 1/2	6					HC End Bit		19
816	Compactor	51K	**4T-6531**	5J-6831	7/8 x 3	10	25	254	1521		Center Blade	1	73
			4T-6532	5J-6832	7/8 x 3	6	25	254	911		Center Blade	2	44
			4T-6531HD	5J-6831HD	7/8 x 3	10	32	254	1521		Center Blade	1	92
			4T-6532HD	5J-6832HD	7/8 x 3	6	32	254	911		Center Blade	2	54
			4T-6299		7/8 x 3	10	38	254	1521		Center Blade	1	104
			4T-6296		7/8 x 3	6	38	254	911		Center Blade	2	63
			3G-8315/16	5J-8767/8	7/8x2 3/4	7	30				HC End Bit		30
			3G-8285/86	5J-8768	7/8x2 3/4	7	40				HC End Bit		40
		41S, 15Z	**4T-2922**	6J-5340	7/8 x 3	5	19	254	759		Center Blade	1	27
			4T-2923	9J-5228	7/8 x 3	7	19	254	1029		Center Blade	2	36
			4T-2992	7J-2847	7/8 x 3	5	25	254	759		Center Blade	1	37
			4T-2923HD	9J-5228HD	7/8 x 3	7	25	254	1029		Center Blade	2	49
824	S	35G1-222	**5J-6891**	3J-7566	3/4x2 3/4	10	19	254	1562		Center Blade	2	55
			5J-6891HD	3J-7566HD	3/4x2 3/4	10	25	254	1562		Center Blade	2	74
			3G-8315/16	5J-8767/8	7/8x2 3/4	7	30				HC End Bit		30
			3G-8285/86	5J-8768	7/8x2 3/4	7	40				HC End Bit		40
			7T-3491	4J-4361	3/4 x 3	7	25	203	1111		Skid Shoe	3	43
	F	93G	**4T-6514**	5J-6811	7/8x2 3/4	10	25	254	1562		Center Blade	2	74
	S	35G223-UP	**4T-6514HD**	5J-6811HD	7/8x2 3/4	10	32	254	1562		Center Blade	2	94
			3G-8315/16	5J-8767/8	7/8x2 3/4	7	30				HC End Bit		30
			3G-8285/86	5J-8768	7/8x2 3/4	7	40				HC End Bit		40
			7T-3492	5J-2827	7/8 x 3	7	25	203	1111		Skid Shoe	3	43
816		88H	**4T-6448**	5J-6803	1 x 3 1/2	10	32	305	1521		Center Blade	2	101
824	S		**7J-2962**		1 x 3 1/2	10	41	305	1521		Center Blade	2	144
834			**3G-8289/90**	7J-6713/14	1 x 3 1/2	7					HC End Bit		64
834	C	64G	**4T-2889**	5J-6810	7/8 x 3	9	25	254	1410		Center Blade	2	67
824			**4T-2889HD**	5J-6810HD	7/8 x 3	9	32	254	1410		Center Blade	2	85
			3G-8315/16	5J-8767/8	7/8x2 3/4	7	30				HC End Bit		30
			3G-8285/86	5J-8768	7/8x2 3/4	7	40				HC End Bit		40
			4T-6645	4J-5611	7/8 x 3	6	25	254	1410		Skid Shoe	2	68

	Type	Serie	Ref. Present	Ref. Old	Inches	n°	mm.				Description	n°	KG lb
824	F	93G	**4T-6531**	5J-6831	7/8 x 3	10	25	254	1521		Center Blade	2	73
	"U"		**4T-3561HD**	5J-6831HD	7/8 x 3	10	32	254	1521		Center Blade	2	92
			4T-6299	7J-2970 G-3798	7/8 x 3	10	38	254	1521		Center Blade	2	104
			4T-6532	5J-6832	7/8 x 3	6	25	254	911		Int. Ends Std.		44
			4T-6532HD	5J-3832HD	7/8 x 3	6	32	254	911		Int. Ends HD		54
			4T-6296	7J-2972 3G-3808	7/8 x 3	6	38	254	911		Int. Ends Ext. Ser.		63
			3G-8315/16	5J-8767/8	7/8x2 3/4	7	30				HC End Bit		30
			3G-8285/86	5J-8768	7/8x2 3/4	7	40				HC End Bit		40
825		89X	**4T-6238**	8J-8119	1 x 3	8	25	254	1200		Center Blade	3	56
			4T-6238HD	8J-8119HD	1 x 3	8	32	254	1200		Center Blade	3	71
			3G-8317/18	8J-8105/20	1 x 3	7	30				HC End Bit		30
			3G-8287/8	9j-1474/5	1 x 3	7	40				HC End Bit		40
835	F	27K	**4T-6515**	5J-6807	7/8x2 3/4	12	25	254	1775		Center Blade	2	85
834			**4T-6515HD**	5J-6807HD	7/8x2 3/4	12	32	254	1775		Center Blade	2	108
	S	36G, 96G	**3G-8315/16**	5J-8767/8	7/8x2 3/4	7	30				HC End Bit		30
826		97X, 90K	**3G-8285/86**	5J-8768	7/8x2 3/4	7	40				HC End Bit		40
			4J-4367		Weld On		19	133	406		R Shoe		5
			4J-4368		Weld On		19	133	406		L Shoe		5
			4T-6650	4J-4695	7/8x3	8	25	254	1162		Skid Shoe		56
			4T-6651	4J-4380	7/8x3	9	25	254	1318		Skid Shoe		63
834	U	14B	**4T-8797**	1U-1224	7/8x3	6	25	254	989		Center Blade	2	46
			4T-8797HD	1U-1224HD	7/8x3	6	32	254	989		Center Blade	2	58
			4T-8798	4T-3640	7/8x3	7	25	254	1076		Int. Ends Std.		51
			4T-8798HD	4T-3640HD	7/8x3	7	32	254	1076		Int. Ends HD		64
			3G-8315/16	5J-8767/8	7/8x2 3/4	7	30				HC End Bit		30
			3G-8285/86	5J-8768	7/8x2 3/4	7	40				HC End Bit		40
			4T-6645	4J-5611	7/8x3	6	25	254	1410		Skid Shoe	2	68

Cutting Edges for Scraper





	Type	Serie	Ref. Present	Ref. Old	Inches	nº	mm.				Description	KG lb
DW-10	Curved	3C	**4T-2882**	5J-6914	3/4x2 1/4	16	19	254	1.407		Center Blade	50
	Moldboard		**4T-6626**	7J-3790	3/4x2 1/4	16	25	330	1.407		Center Blade	85
	Curved		**4T-2883**	5J-6913	3/4x2 1/4	6	19	254	514		Lateral Blade	18
	Moldboard		**7J-3791**	5J-6907	3/4x2 1/4	6	19	305	511		Right End "flat cut"	20
			7J-3792	5J-6908	3/4x2 1/4	5	19	305	511		Left End "flat cut"	20
			8F-7232	4F-7838	3/4x2 1/4	5	19	203	406		End Bit	12
	Straihgt	19C	**4T-2939**	5J-6840	7/8x2 1/2	15	25	254	2.324		Center Blade	111
	Moldboard		**4T-2940**	5J-6843	7/8x2 1/2	7	25	254	1.073		Center Blade	51
			4T-6625	7J-3697	7/8x2 1/2	7	25	330	1.073		Center Blade	66
			4T-2953	5J-6841	7/8x2 1/2	4	25	254	622		Lateral Blade	29
			9F-1831	4F-4357	5/8x2 1/2	4	16	203	356		End Bit	9
DW-15	Straight	4W, 92D	**4T-2947**	5J-6855	7/8x2 1/2	17	25	254	2.578		Center Blade	124
	Moldboard		**4T-2941**	5J-6844	7/8x2 1/2	9	25	254	1.378		Center Blade	66
	(old type)		**4T-6627**	7J-3688	7/8x2 1/2	9	25	330	1.378		Center Blade	84
			4T-2942	5J-6847	7/8x2 1/4	4	25	254	597		Lateral Blade	29
			8F-7232	4F-7838	3/4x2 1/4	5	19	203	406		End Bit	12
40	Straight	1W	**4T-2962**	5J-6813	3/4x2	10	16	203	1.022		Center Blade	22
	Moldboard		**4T-2874**	5J-6946	3/4x2	10	19	254	1.022		Center Blade	36
			4T-2965	5J-6814	3/4x2	4	16	203	394		Lateral Blade	8
60	Curved	1D	**4T-2881**	5J-6916	3/4x2 1/4	14	19	254	1.245		Center Blade	44
	Moldboard		**4T-2884**	5J-6915	3/4x2 1/4	5	19	254	441		Lateral Blade	15
			7J-3795	5J-6867	3/4x2 1/4	5	19	305	441		Right End "flat cut"	17
			7J-3796	5J-6868	3/4x2 1/4	5	19	305	441		Left End "flat cut"	17
			9F-1831	4F-4357	5/8x2 1/2	4	16	203	356		End Bit	9
	Straight	2W	**4T-2939**	5J-6840	7/8x2 1/2	15	25	254	2.324		Center Blade	111
	Moldboard		**4T-2940**	5J-6843	7/8x2 1/2	7	25	254	1.073		Center Blade	51
10	Straight	19C	**4T-6625**	7J-3697	7/8x2 1/2	7	25	330	1.073		Center Blade	66
	Moldboard		**4T-2953**	5J-6841	7/8x2 1/2	4	25	254	622		Lateral Blade	29
			9F-1831	4F-4357	5/8x2 1/2	4	16	203	356		End Bit	9
70	Curved	8C	**4T-2882**	5J-6914	3/4x2 1/4	16	19	254	1.407		Center Blade	50
	Moldboard		**4T-3790**	7J-3790	3/4x2 1/4	16	25	330	1.407		Center Blade	85
10	Curved	3C	**4T-2883**	5J-6913	3/4x2 1/4	6	19	254	514		Lateral Blade	18
	Moldboard		**7J-3791**	5J-6907	3/4x2 1/4	6	19	305	511		Right End "flat cut"	20
			7J-3792	5J-6908	3/4x2 1/4	6	19	305	511		Left End "flat cut"	20
			8F-7232	4F-7838	3/4x2 1/2	6	19	203	406		End Bit	12

	Type	Serie	Ref. Present	Ref. Old	Inches	nº	mm.				Description	KG lb
70	Straight	3W, 91D	**4T-2947**	5J-6855	7/8x2 1/2	17	25	254	267		Center Blade	124
	Moldboard		**4T-2941**	5J-6844	7/8x2 1/2	9	25	254	1.378		Center Blade	66
			4T-6627	7J-3688	7/8x2 1/2	9	25	330	1.378		Center Blade	84
			4T-2942	5J-6847	7/8x2 1/2	4	25	254	597		Lateral Blade	29
			8F-7232	4F-7838	3/4x2 1/4	5	19	203	406		End Bit	12
80	Curved	2D	**5J-6912**	2J-1202	7/8x2 1/2	17	19	330	1.511		Center Blade	71
	Moldboard		**4T-6622**	7J-3661	7/8x2 1/2	17	25	330	1.511		Center Blade	91
			5J-6909	2J-1197	7/8x2 1/2	17	32	305	1.511		Center Blade	100
			4T-6624	7J-3952	7/8x2 1/2	7	19	330	616		Lateral Blade	29
			5J-6911	2J-1201	7/8x2 1/2	7	32	305	616		Lateral Blade	41
			4T-8805	5J-6883	7/8x2 1/2	7	25	394	616		Right End "flat cut"	38
			4T-8806	5J-6884	7/8x2 1/2	7	25	394	616		Left End "flat cut"	38
			8F-7232	4F-7838	3/4x2 1/2	5	19	203	406		End Bit	12
			1J-1299		Soldable		32	279	587		HD Plate Right	33
			1J-1300		Soldable		32	279	587		HD Plate Left	33
80	Straight	5W	**5J-6859**		1x3	19	25	330	2.883		Center Blade	176
	Moldboard		**4T-6617**	7J-3678	1x3	9	25	330	1.378		Center Blade	84
	(old type)		**4T-6565**	5J-6817	1x3	9	25	406	1.378		Center Blade	103
DW21	Straight	8J	**4T-2900**	5J-6828	1x3	9	32	406	1.378		Center Blade	130
	Moldboard		**CA1-ST0759**		1x3 1/2	9	64	483	1.378		Serrated Blade	220
	(old type)		**4T-6612**	7J-3193	1x3	5	25	330	749		Lateral Blade	46
DW20	Straight	11C	**4T-6380**	5J-6863	1x3	5	32	330	749		Lateral Blade	58
	Moldboard		**8F-7232**	4F-7838	3/4x2 1/2	5	19	203	406		End Bit	12
	(old type)		**6F-3319**		Soldable		32	222	578		HD Plate Right	25
			6F-3320		Soldable		32	222	578		HD Plate Left	25
90		9V	**5J-6869**		1x3	20	25	330	3.035		Center Blade	186
			4T-6620	7J-3558	1x3	10	25	330	1.530		Center Blade	93
			4T-2887	5J-6818	1x3	10	25	406	1.530		Center Blade	114
			4T-2895	5J-6827	1x3	10	32	406	1.530		Center Blade	144
			4T-6612	7J-3193	1x3	5	25	330	749		Lateral Blade	46
			4T-6380	5J-6881	1x3	5	32	330	749		Lateral Blade	58
			5F-6532		3/4x2 1/2	6	19	229	508		End Bit	19
428		43D, 44D	**4T-6621**	7J-3564	1x3	8	25	330	1.226		Center Blade	75
435		45D1-UP	**4T-6567**	5J-6819	1x3	8	25	406	1.226		Center Blade	91
		35E, 85F	**4T-2891**	5J-6822	1x3	8	32	406	1.226		Center Blade	117
		88F	**CA1-ST0773**		1x3 1/2	8	64	457	1.226		Serrated Blade	179
442		83E, 33F	**4T-6612**	7J-3193	1x3	5	25	330	749		Lateral Blade	46
619		68F	**4T-6380**	5J-6863	1x3	5	32	330	749		Lateral Blade	58
619-C		45F, 48F	**4T-2894**	7J-4805	1x3	5	32	406	749		Lateral Blade	72
		68F1-UP	**1J-1724**		3/4x2 1/2	5	25	254	406		End Blt	20
			1J-1299		Soldable		32	279	587		HD Plate Right ø 3/4"	33
			1J-1300		Soldable		32	279	587		HD Plate Left ø 3/4"	33
			2J-9193		Soldable		32	318	612		HD Plate Right ø 1"	41
			2J-9194		Soldable		32	318	612		HD Plate Leftt ø 1"	41
456		60C, 61C	**5J-6869**		1x3	20	25	330	3.035		Center Blade	186
463		62C, 62F	**4T-6620**	7J-3558	1x3	10	25	330	1.530		Center Blade	93
470		86F, 93D	**4T-2887**	5J-6818	1x3	10	25	406	1.530		Center Blade	114
		94D	**4T-2895**	5J-6820	1x3	10	32	406	1.530		Center Blade	144
			CA1-ST0760		1x3 1/2	10	64	483	1.530		Serrated Blade	261

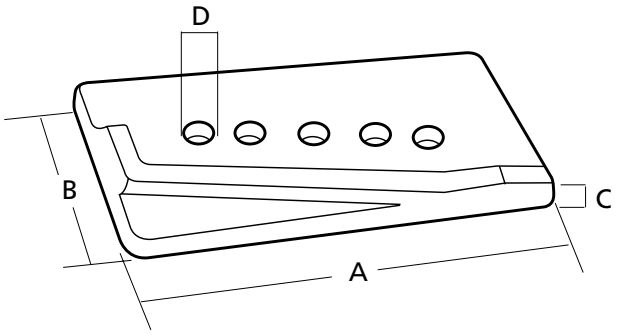
	Type	Serie	Ref. Present	Ref. Old	Inches	nº	mm.				Description	KG lb
			4T-6612	7J-3193	1x3	5	25	330	749		Lateral Blade	46
			4T-6380	5J-6863	1x3	5	32	330	749		Lateral Blade	58
			1J-1724		3/4x2 3/4	5	25	254	406		End Bit	20
			1J-1299		Soldable		32	279	587		HD Plate Right ø 3/4"	33
			1J-1300		Soldable		32	279	587		HD Plate Left ø 3/4"	33
			2J-9193		Soldable		32	318	610		HD Plate Right ø 1"	41
			2J-9194		Soldable		32	318	610		HD Plate Left ø 1"	41
482		72E	**5J-6875**	2J-6581	1x3	11	32	330	1.683		Center Blade	131
			5J-6821	2J-6593	1x3	11	32	406	1.683		Center Blade	159
			4T-6380	5J-6881	1x3	5	32	330	749		Lateral Blade	58
491		98C	**5J-6869**		1x3	20	25	330	3.035		Center Blade	186
			4T-6620	7J-3558	1x3	10	31	25	102		Center Blade	93
			4T-2887	5J-6818	1x3	10	25	406	1.530		Center Blade	114
			4T-2895	5J-6827	1x3	10	32	406	1.530		Center Blade	144
			CA1-ST0760		1x3 1/2	10	64	483	1.530		Serrated Blade	261
			4T-6612	7J-3193	1x3	5	25	330	749		Lateral Blade	46
			4T-6380	5J-6863	1x3	5	32	330	749		Lateral Blade	58
			1J-4348		3/4x3	6	32	229	508		End Bit	29
621		37G	**CA1-SC0356**		1x2 3/4	9	25	330	1.429		Center Blade	86
627		50K1-UP	**4T-6568**	5J-6845	1x2 3/4	9	25	406	1.429		Center Blade	108
		69M, 37V	**4T-5896**	6J-440	1x3	9	32	406	1.429		Center Blade	137
		38V	**4T-2896HD**	6J-440HD	1x3	9	38	406	1.429		Center Blade	166
621B		36V	**CA1-ST0652**		1x3 1/2	9	64	483	1.427		Serrated Blade	245
627B		37V, 38V	**4T-6612**	7J-3193	1x2 3/4	5	25	330	749		Lateral Blade	46
621E		6AB	**4T-6380**	5J-6881	1x3	5	32	330	749		Lateral Blade	58
627E		6FB, 6HB	**4T-6380HD**	5J-6881HD	1x3	5	38	330	749		Lateral Blade	72
			4T-2894	7J-4805	1x3	5	32	406	749		Lateral Blade	72
			5J-2171		Soldable		32	394	629		HD Plate Right	42
			5J-2172		Soldable		32	394	629		HD Plate Left	42
613	Elevating	72M	**4T-6611**	7J-4690	3/4x2 1/2	7	25	330	1.102		Center Blade	66
613B	Scraper		**4T-6611HD**	7J-4690HD	2/4x2 1/2	7	32	330	1.102		Center Blade	83
613C	Elevating	93X1-UP	**CA1-ST0588**		3/4x3	14	44	483	1.102		Serrated Blade	129
	Scraper		**4T-6613**	7J-4689	2/4x2 1/2	4	25	330	562		Lateral Blade	34
			4T-6613HD	7J-4689HD	2/4x2 1/2	4	32	330	562		Lateral Blade	43
			9F-1831	4F-4357	5/8x2 1/2	4	16	203	356		End Bit (S/N 72M)	9
			4T-4336		5/8x2 1/2	3	19	200	448		End Bit (S/N 93X)	10
615	Elevating	47Z1-1339	**7T-5104**	3G-4053	7/8x3	9	25	330	1.486		Center Blade	88
	Scraper		**7T-5105**	3G-4054	7/8x3	4	25	330	560		Lateral Blade	33
			CA2-ST0618		7/8x3	9	51	508	1.486		Serrated Blade	191
615C	Elevating	47Z1340-UP	**9W-5807**		1x3 1/4	9	25	406	1.508		Center Blade	111
	Scraper		**9W-5810**		1x3 1/4	4	25	330	538		Lateral Blade	32
			9W-5806		1x3 1/4	4	25	406	538		Lateral Blade	39
619	Elevating	43F-1-UP	**4T-6620**	7J-3558	1x3	10	25	330	1.530		Center Blade	93
	Scraper		**4T-2887**	5J-6818	1x3	10	25	406	1.530		Center Blade	114
621	Elevating	43H1-UP	**4T-2895**	5J-6827	1x3	10	32	406	1.530		Center Blade	144
	Scraper		**CA1-ST0479**		1x3 1/2	10	51	508	1.530		Serrated Blade	200
623	Elevating	26U	**4T-6612**	7J-3193	1x3	5	25	330	749		Lateral Blade	46
	Scraper		**4T-6380**	7J-6863	1x3	5	32	330	749		Lateral Blade	58
623B	Elevating	61E										
	Scraper											

	Type	Serie	Ref. Present	Ref. Old	Inches	nº	mm.				Description	KG lb
623E	Elevating Scraper	6DB										
630A		60F	**5J-6869**		1x2 3/4	20	25	330	3.035		Center Blade	186
631A		56F	**4T-6620**	7J-3558	1x2 3/4	10	25	330	1.530		Center Blade	93
			4T-2887	5J-6818	1x2 3/4	10	25	406	1.530		Center Blade	114
			4T-2895	5J-6827	1x3	10	32	406	1.530		Center Blade	144
			4T-6372	8J-7160	1x3	10	38	406	1.530		Center Blade	175
			7J-2958		1x3	10	44	406	1.530		Center Blade	195
			CA1-ST0760		1x3 1/2	10	64	483	1.530		Serrated Blade	261
			4T-6612	7J-3193	1x2 3/4	5	25	330	749		Lateral Blade	46
			4T-6380	5J-6863	1x3	5	32	330	749		Lateral Blade	58
			4T-6380HD	5J-6863HD	1x3	5	38	330	749		Lateral Blade	72
			4T-6380XHD	5J-6881XHD	1x3	5	44	330	749		Lateral Blade	79
			2J-9193		Soldable		32	318	610		HD Plate Right ø 1"	41
			2J-9194		Soldable		32	318	610		HD Plate Left ø 1"	41
491		47E	**4T-6617**	7J-3678	1x3	9	25	330	1.378		Center Blade	84
630,630B		10G1-UP	**4T-6565**	5J-6817	1x3	9	25	406	1.378		Center Blade	103
630BSA		SA32F1-UP	**4T-2900** **4T-6314**	5J-6828 8J-7192	1x3	9	32	406	1.378		Center Blade	130
631,631B		11G1-UP	**4T-6375**	7J-3026	1x3	9	38	406	1.378		Center Blade	154
631C			**7J-2957**		1x3	9	44	406	1.378		Center Blade	175
631BSA		SA28F1-UP	**CA1-ST0759**		1x3 1/2	9	64	483	1.378		Serrated Blade	220
637		64M, 91N	**4T-6614**	7J-3025	1x3	6	25	330	902		Lateral Blade	54
			4T-6378 **4T-2305**	6J-5945 8J-7187	1x3	6	32	330	902		Lateral Blade	70
			4T-2332	8J-7141	1x3	6	38	330	902		Lateral Blade	86
			7J-2959		1x3	6	44	330	902		Lateral Blade	95
			4T-6308	8J-7744	1x3	6	32	406	902		Lateral Blade	84
			4T-6374	8J-7158	1x3	6	38	406	902		Lateral Blade	103
			4J-9112		1x3	10	32	356	1.519		Grader Blade L	126
			4J-9113		1x3	11	32	356	1.670		Cuchilla nivel. der.	139
			5J-3101		Soldable		32	391	702		HD Plate Right	54
			5J-3102		Soldable		32	391	702		HD Plate Left	54
			3J-6939		Soldable		32	400	722		HD Plate Right	55
			3J-6940		Soldable		32	400	722		HD Plate Left	55
			4J-6773		Soldable		32	445	762		HD Plate Right	64
			4J-6774		Soldable		32	445	762		HD Plate Left	64
			7J-4227		Soldable		32	391	702		HD Plate Right	54
			7J-4228		Soldable		32	391	702		HD Plate Left	54
631D		28W1-UP	**4T-6566**	9J-565	1x3	10	25	406	1.572		Center Blade	117
631SA		29W	**4T-3444** **4T-6310**	9J-5901 1U-0695	1x3	10	32	406	1.572		Center Blade	149
637D			**4T-6371**	9J-4369	1x3	10	38	406	1.572		Center Blade	180
637SA		20W, 21W	**9J-5899**		1x3	10	44	406	1.572		Center Blade	212
		22W, 23W	**CA1-ST0977**		1x3 1/2	10	64	483	1.572		Serrated Blade	251
637D	Auger		**4T-6614**	7J-3025	1x3	6	25	330	902		Lateral Blade	54
631E		1BB	**4T-6378** **4T-2305**	6J-5945 8J-7187	1x3	6	32	330	902		Lateral Blade	70
637E		1HB, 1LB 7CB	**4T-2332**	8J-7141	1x3 1/2	6	38	330	902		Lateral Blade	86
			7J-2959		1x3 1/2	6	44	330	902		Lateral Blade	95
			7J-3023		1x3 1/2	5	32	254	584		End Bit	40
641		80F, 42M	**4T-6620**	7J-3558	1x3 1/2	10	25	330	1.530		Center Blade	93

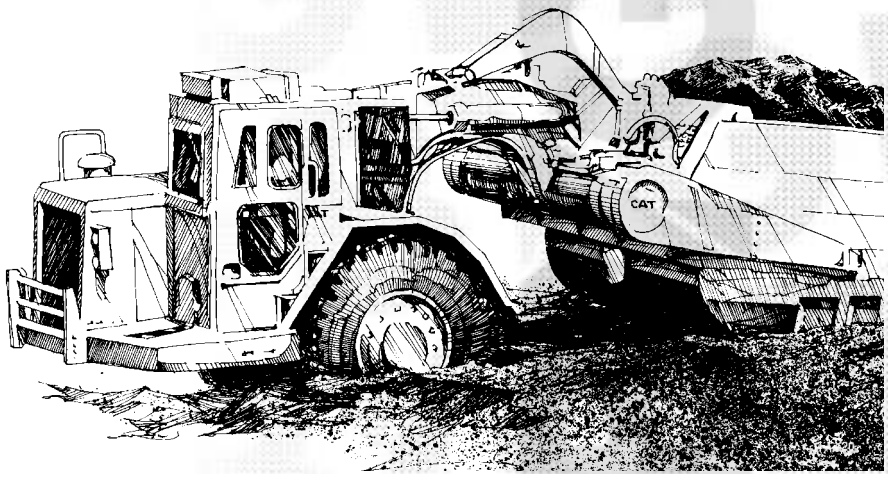
	Type	Serie	Ref. Present	Ref. Old	Inches	nº	mm.				Description	
		43M	**4T-2887**	5J-6820	1x3 1/2	10	25	406	1.530		Center Blade	114
		79F	**4T-2895**	5J-6827								
632			**4T-6309**	8J-7189	1x3 1/2	10	32	406	1.530		Center Blade	144
641SA		70G	**4T-6372**	8J-7160	1x3 1/2	10	38	406	1.530		Center Blade	175
632SA		71G	**7J-2958**		1x3 1/2	10	44	406	1.530		Center Blade	195
641B		42M, 43M	**CA1-ST0760**		1x3 1/2	10	64	483	1.530		Serrated Blade	261
		70G	**4T-6614**	7J-3025	1x3 1/2	6	25	330	902		Lateral Blade	54
			4T-6378	5J-5945								
			4T-2305	8J-7187	1x3 1/2	6	32	330	902		Lateral Blade	70
			4T-2332	8J-7141	1x3 1/2	6	38	330	902		Lateral Blade	86
			7J-2959		1x3 1/2	6	44	330	902		Lateral Blade	95
			4T-6308	8J-7744	1x3	6	32	406	902		Lateral Blade	84
			4T-6374	8J-7158	1x3 1/2	6	38	406	902		Lateral Blade	103
			4J-9113		1x3 1/2	11	32	356	1.670		2 Pc Level Cut	139
			3J-6939		Soldable		32	400	722		HD Plate Right	55
			3J-6940		Soldable		32	400	722		HD Plate Left	55
			7J-3023		1x3 1/2	5	32	254	584		End Bit	40
		86H	**4T-6316**	8J-7188								
633	Elevating		**4T-2892**	5J-6826	1x3 1/2	11	32	406	1.734		Center Blade	164
633B	Scraper		**4T-6373**	8J-7161	1x3 1/2	11	38	406	1.734		Center Blade	197
633C	Elevating		**5J-860**		1x3 1/2	22	32	483	1.734		Center Blade	203
	Scraper		**5J-8060HD**		1x3 1/2	22	38	483	1.734		Center Blade	234
			CA1-ST0643		1x4	22	57	584	1.732		Serrated Blade	285
			4T-3429	7J-3022								
			4T-6313	8J-7193	1x3 1/2	5	32	406	724		Lateral Blade	69
			7J-3192		1x3 1/2	5	38	406	724		Lateral Blade	84
			5J-8062		1x3 1/2	5	25	330	724		Lateral Blade	43
			5J-8062HD		1x3 1/2	5	32	330	724		Lateral Blade	56
			5J-8062XHD		1x3 1/2	5	38	330	724		Lateral Blade	68
			5J-8643		5/8x2 1/2	10	19	152	1.562		Strike Off, 2 Reqd	36
		19W1-UP	**4T-3428**	9J-1110								
633D	Elevating		**4T-6319**	1U-696	1x3 1/2	11	32	406	1.661		Center Blade	160
	Scraper		**9J-1111**		1x3 1/2	11	38	406	1.661		Center Blade	193
639D	Elevating	88X1-UP	**CA1-ST0978**		1x3 1/2	11	57	584	1.661		Serrated Blade	273
			4T-2899	9J-1112								
	Scraper		**4T-6318**	1U-0697	1x3 1/2	6	32	406	857		Lateral Blade	83
			9J-1109		1x3 1/2	6	38	406	857		Lateral Blade	100
651E		88Z1-145	**9W-4505**	4T-8795	1 1/4x4	13	32	406	1.734		Center Blade	157
657E		86Z1-240	**9W-4394**	4T-8802	1 1/4x4	13	38	406	1.734		Center Blade	186
		6MB1-90	**9W-4399**	4T-3892	1 1/4x4	8	32	330	965		Lateral Blade	72
			9W-4509	4T-3894	1 1/4x4	8	38	330	965		Lateral Blade	87
			4T-668		1 1/4x4	5	38	254	584		End Bit	49
651E		88Z146-UP	**9W-4901**		1x3 1/4	24	38	483	1.822		Center Blade	235
657E		86Z241-UP	**9W-9701**		1x3 1/4	24	44	483	1.822		Center Blade	275
		6M-B91-UP	**9W-4902**		1x3 1/4	12	38	406	904		Lateral Blade	102
			9W-9702		1x3 1/4	12	44	406	908		Lateral Blade	117
		22G1-164	**4T-6316**	8J-7188								
650			**4T-2892**	5J-6826	1x3 1/2	11	32	406	1.734		Center Blade	164
651		23G1-126	**4T-6373**	8J-7161	1x3 1/2	11	38	406	1.734		Center Blade	197
657		19G1-221	**7J-2981**		1x3 1/2	11	44	406	1.734		Center Blade	229
660		18G1-77	**CA1-ST0957**		1x4	11	64	610	1.732		Serrated Blade	394
		20G1-93	**4T-2305**	8J-7187								
666			**4T-6378**	6J-5945	1x3 1/2	6	32	330	902		Lateral Blade	70
660B		18G	**4T-2332**	8J-7141	1x3 1/2	6	38	330	902		Lateral Blade	86

Type	Serie	Ref. Present	Ref. Old	Inches	nº	mm.				Description	KG lb
		7J-2959		1x3 1/2	6	44	330	902		Lateral Blade	95
		4T-6374	8J-7158	1x3 1/2	6	38	406	902		Lateral Blade	103
		7J-2978		1x3 1/2	6	44	406	902		Lateral Blade	120
		4J-9209		1x3 1/2	11	38	356	1.695		Grader Blade R	163
		4J-9210		1x3 1/2	12	38	356	1.854		Grader Blade L	179
		7J-3023		1x3 1/2	5	32	254	584		End Bit	40
		3J-6939		Soldable		32	400	722		HD Plate Right	55
		3J-6940		Soldable		32	400	722		HD Plate Left	55
650	22G165-UP	**4T-6315**	8J-7191	1x3 1/2	11	32	406	1.734		Center Blade	163
650B	22G	**4T-6373**	8J-7161	1x3 1/2	11	38	406	1.734		Center Blade	202
651	23G127-UP	**7J-2981**		1x3 1/2	11	44	406	1.734		Center Blade	229
651B	45MI-UP	**4T-6556**	8J-7745	1x3 1/2	22	32	483	1.734		Center Blade	184
657	19G222-UP	**4T-6555**	8J-7568	1x3 1/2	22	38	483	1.734		Center Blade	234
657-B	47M1-UP	**7J-2977**		1x3 1/2	22	44	483	1.734		Center Blade	272
	53K	**CA1-ST0796**		1x4	22	64	584	1.732		Serrated Blade	372
660	18G78-UP	**4T-6308**	8J-7744	1x3 1/2	12	32	406	902		Lateral Blade	84
660-B	20G94-UP	**4T-6374**	8J-7158	1x3 1/2	12	38	406	902		Lateral Blade	103
666		**7J-2978**		1x3 1/2	12	44	406	902		Lateral Blade	120
		7J-3023		1x3 1/2	5	32	254	584		End Bit	40

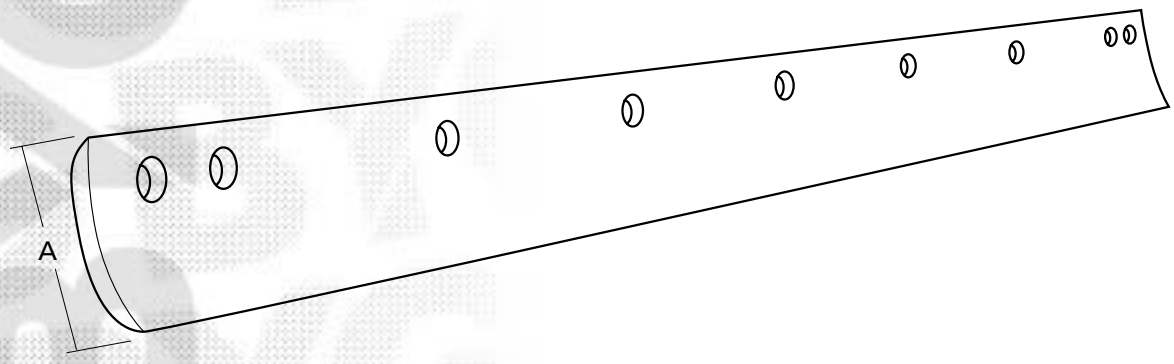
Rovier Bit for Cat Scraper



	mm. A	B	C	D	nº	
9F-1831	355	203	16	5/8"	4	PB-505
8F-7232	406	203	19	3/4"	5	PB-322
4J-8665	510	220	25	1"	5	PB-942
4T-0698	555	240	35	1"	5	PB-942
7J-3023	584	254	38	1"	5	PB-542



Curved Cutting Edges for Graders



A= 6" (152mm)

								Ø
	5' - 1524 mm.	5' - 1524 mm.	6' - 1828 mm.	6' - 1828 mm.	7' - 2133 mm.	7' - 2133 mm.	8' - 2438 mm.	
5/8"	**5B-5567**	**7D-4508**	***5B-5564-450**	***5D-9553-450**	***5B-5561-450**	***5D-9554-450**	**8J-4043**	5/8"
16 mm				**9J-3657**		**9J-3658**	**9J-3655**	3/4"
3/4"		**3G-7966**		***5D-9556-450**		**5D-9557**		5/8"
19 mm								3/4"
	7	11	8	13	9	15	17	

A= 8" (203mm)

							Ø
	2' - 610 mm	4' - 1219 mm.	5' - 1524 mm.	6' - 1828 mm.	7' - 2133 mm.	8' - 2438 mm.	
5/8"			**7D-4509**	**5D-9562**	**5D-9561**	**5D-9731**	5/8"
16 mm	**3G-2166**			**9J-7701**	**7D-1158**	**8J-9821**	3/4"
3/4"	**6G-8623**			***5D-9558-450**	***5D-9559-450**	**5D-9732**	5/8"
19 mm	**3G-2165**			**7D-1576**	***7D-1577-450**	**7D-1949**	3/4"
1"			**4T-2240**	**4T-2244**	**4T-2242**	**4T-2237**	5/8"
25 mm				**4T-2231**	***4T-2233-450**	***4T-2236-450**	3/4"
	4	9	11	13	15	17	

* Cutting edges de acero de 450 HB

Straight Cutting Edges for Graders

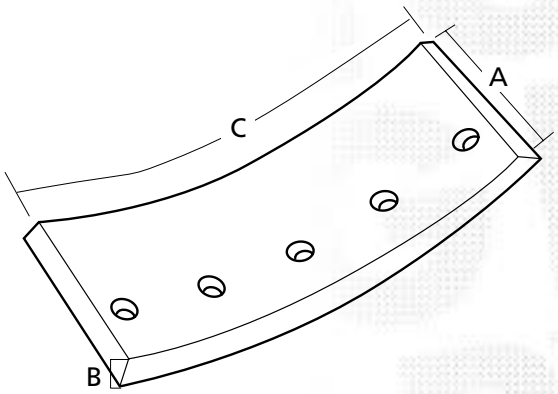
A= 8" (203mm)

					Ø
	5' - 1524 mm.	6' - 1828 mm.	7' - 2133 mm.	8' - 2438 mm.	
5/8"	**4T-2967**	**4T-2968**	**4T-2969**	**4T-2966**	5/8"
16 mm		**4T-2971**	**4T-2970**	**4T-9603**	3/4"
3/4"	**4T-3034**	**4T-3007**	**4T-3036**	**4T-3035**	5/8"
19 mm		**4T-3033**	**4T-3032**	**4T-3037**	3/4"
1"	**7T-3497**	**7T-3499**	**7T-3498**	**7T-3496**	5/8"
25 mm		**7T-3493**	**7T-3494**	**7T-3495**	3/4"
	11	13	15	17	

A= 10" (254mm)

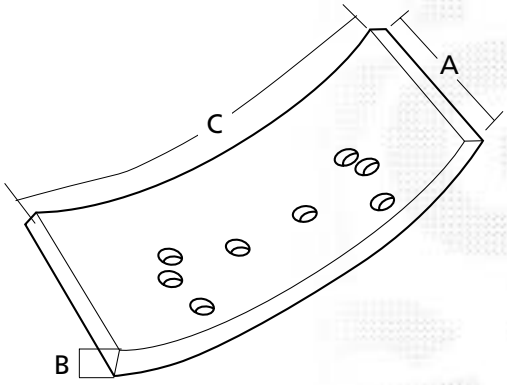
				Ø
	6' - 1828 mm.	7' - 2133 mm.	8' - 2438 mm.	
1"	**4T-6502**	**4T-6508**	**4T-6511**	3/4"
25 mm				
	13	15	17	

Grader Moldboard



mm. A	B"	C	KG	Nº				Nº Tal	Serie	
152	19,5	480	10		**9D-4880/1**	4F-7827	2J-3506	4	93U1-2777	16G
160	19,5	480	8,8	2	**8E-5530**	5J-4773	2J-3506	5	93U2778-UP	16G/H
152	5/8	480	7,3		**4D-9811/2**	3F-5108	4K-0367	4	Todas las demás	16
152	5/8	480	7,7		**9J-4405/6**	4F-7827	2J-3506	4	96U1-7324	14G
152	5/8	475	7,8	2	**8E-5529**	5J-4773	2J-3506	5	96U7325-UP	14G/H
152	1/2	553	6,5		**7D-2083/4**	3F-5108	4K-0367	5	Todas las demás	14
152	1/2	475	6,5	2	**7D-2052 9W-2945**	3F-5108	4K-0367	5	All	112,12, 120,130, 140
152	5/8	475	7,8	2	**8E-5531**	3F-5108	4K-0367	5	61M11716 y sigu 87V06135 y sigu) 74V02293 y sigu 72V09829 y sigu	12G/H 120G/H 130G 40G
			4,5	2	*9J-4411*	3F-5108	4K-0367	4	All	212
152	5/8	475	7,8	2	**8E-5529**	5J-4773	2J-3506	5	All	160H
152	5/8	475	7,9	2	**8E-5531**	3F-5108	4K-0367	5	All	135H

Grader Overlay



mm. A	B"	C	KG	Type				Nº tal Cutting Edge		Pulg	mm	
235	5/8	565	11,5		**6D-1948 HD**	4F-3658	4K-0367					
235	1/2	565	10,5		**6D-1948**	4F-3658	4K-0367					12,120,130,140
235	1/2	585	12	Rev-1	**7D-5583**	1J-6762	2J-3506					1ºSeries 14
235	1/2	605	12,5		**7D-1596**	4F-3658	4K-0367					1ºSeries 16
235	5/8	600	12,5		**7D-9999 HD**	1J-6762	2J-3506					14G, 16G
235	1/2	600	11,5		**7D-9999**	1J-6762	2J-3506					
235	1/2	565	11,5	Rev-1	**6Y-2805**	1J-6762	2J-3506		Curved		203	14H,16H,14G 96U7325-UP 160H,16G 93U2778-UP
235	1/2	565	11,6	Rev-1	**9W-1768**	4F-3658	4K-0367					12H,12G (61M11716 y sig),120H,120G, (87V06135 y sig), 135H,130G,(74V02293 & ...), 140H,140G, (72V09829 &...)
235	1/2	460	9,4		**9W-1767**	4F-3658	4K-0367					
235	5/8	475	10,5	Rev-1	**6D-1904 HD**	4F-3658	4K-0367					
235	1/2	475	9,5		**6D-1904**	4F-3658	4K-0367			6"	152	6, 152, 12,120,130,140, 1ºSeries 14-16
235	1/2	478	9	Rev-1	*7D-5582*	1J-6762	2J-3506			8"	203	1ºSeries 16
230	5/8	490	9,5	No Rev-1	**4D-5757/8**	4F-3658	4K-0367		Straight	8"	203	12,120,130,140, Ult. Series 14

Loader Blades

Fig 1

Fig 2

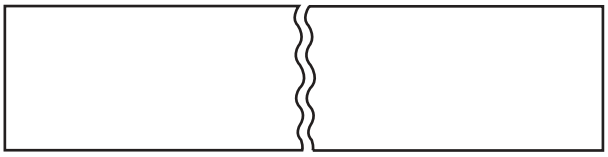


Fig 3

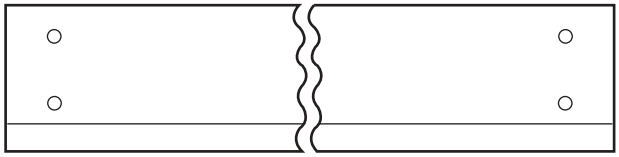


Fig 4

Ref.				N°		Type
5G-2808	19	191	1823	14		**5**
6S-6501	19	191	1898	12		**1**
5G-8467	19	191	1950	14		**5**
5V-7419	25	245	2006	10		**4**
6W-2977	25	245	2018	28	6	**2**
9K-8471	25	228	2076			**3**
4V-8335	25	245	2078	16		**1**
9V-6571	25	245	2078	28	6	**2**
5G-2809	19	191	2080	12		**5**
5G-3085	19	191	2150	12		**5**
5G-6133	20	191	2150	24	6	**2**
9V-6570	25	245	2202	28	6	**2**
4V-8850	25	245	2202	16		**1**
6W-2978	32	282	2237	30	6	**2**
6W-2978	30	300	2237	30	6	**2**
6W-2978	32	282	2237	30	6	**2**
6W-2976	25	245	2248	28	6	**2**
8V-7453	25	245	2248	16		**1**
5V-7437	25	245	2248	16		**4**
9R-4672	20	150	2262	16	8	**7**
6W-2979	32	282	2268	30	6	**2**
4V-4958	30	282	2268	18		**1**
1V-9077	25	228	2286			**3**
5V-7426	25	245	2314	16		**4**
6W-2975	25	245	2324	28	6	**2**
5G-3477	19	191	2330	12		**5**

Ref.				N°		Type
9V-6572	25	245	2370	16	6	**2**
5V-4670	25	245	2370	16		**1**
9R-5313	20	150	2396	16	8	**4**
6S-7291	20	191	2406	14	7	**4**
6W-2984	25	245	2408	28	8	**2**
6W-2986	25	245	2411	30		**7**
6W-2983	40	300	2430	30	6	**2**
5V-7263	32	282	2432	18		**1**
7V-0782	32	266	2438			**3**
5V-7423	25	245	2439	18		**4**
4V-3174	30	282	2474	18		**1**
6W-2980	30	282	2474	30	6	**2**
9K-8472	32	266	2489			**3**
8A-8443	25	245	2574	16		**1**
6W-2982	40	300	2602	30	6	**2**
5V-0600	40	300	2602	18		**1**
6W-2987	25	245	2615	30	6	**2**
6W-2985	25	245	2639	28	6	**2**
8V-1825	25	245	2639	16		**1**
5V-7422	25	245	2642	16		**4**
1V-3915	25	228	2686			**3**
5G-7303	40	300	2702	18		**1**
6W-2994	45	470	2705	12		**7**
9V-0255	51	330	2714			**3**
9V-6573	32	282	2736	30	6	**2**
5V-7421	25	245	2743	16		**4**

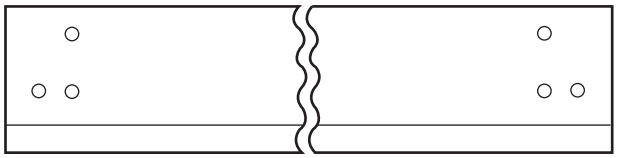


Fig 5

Fig 6

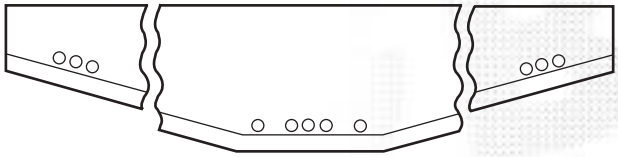


Fig 7

Ref.				Nº		Type
5V-7410	25	245	2744	12		**1**
5V-4696	30	282	2800	18		**1**
7V-0898	40	300	2805	18		**1**
6W-2973	35	493	2815	18		**7**
9C-0967	35	493	2815			**7**
6W-2989	32	282	2840	30	6	**2**
6W-2981	40	300	2846	30	6	**2**
4V-9714	40	300	2846	18		**1**
6W-2990	32	282	2856	30	6	**2**
5V-7418	25	245	2890			**3**
7V-6844	40	300	2912	18		**1**
1V-3917	32	266	2921			**3**
8K-9915	32	266	2997			**3**
7V-1490	40	300	3032	18		**1**
9V-6575	40	300	3032	30	6	**2**
9V-1306	64	540	3035			**3**
7V-0912	30	282	3040	12		**1**
8K-5000	45	304	3067			**3**
6W-2993	45	580	3085	20		**7**
9V-0170	40	580	3085			**7**
9V-0237	50	330	3100			**3**
6W-2991	45	305	3179	30	6	**2**
7K-2326	45	304	3200			**3**
5V-7415	25	245	3226			**3**
8V-5031	32	282	3251	18		**4**
8K-5056	45	304	3270			**3**

Ref.				Nº		Type
2V-6118	45	304	3286			**3**
9V-0235	50	330	3289			**3**
5V-7420	25	245	3302	18		**4**
7V-4188	45	305	3315	18		**1**
9V-6574	45	305	3315	30	6	**2**
7V-0909	40	300	3323	12		**1**
8V-9581	45	650	3370			**7**
9V-3561	45	647	3370	18		**7**
8V-5032	32	282	3404	20		**4**
8V-9583	60	700	3413			**7**
6W-9311	45	305	3560	18		**1**
3V-0187	45	304	3644	18		**6**
8V-9585	50	712	3644			**7**
9C-2932	50	330	3644	21	6	**2**
9V-0232	51	330	3644			**3**
9V-3562	50	706	3644	25		**7**
7V-0779	32	282	3810			**3**
8K-9048	57	830	4039			**7**
9V-0008	60	838	4312			**7**
9V-0009	57	445	4313			**3**
3V-3890	63,5	543	4597			**3**
9V-0006	63,5	838	4750			**7**
9V-0007	63,5	544	4750		8	**3**
9V-3570	63,5	921	4750			**7**
9V-3566	63,5	835	4750	28		**7**
9V-0005	63,5	921	4900			**7**
9V-4370	60	928	4900			**7**

Bolt-On Segments for Cutting Edges

Ref.				Fig.
4T-6691	25	280	175	**2**
4T-6692	25	280	195	**2**
4T-6693	25	280	210	**2**
4T-6694	25	280	225	**2**
4T-6695	30	280	265	**2**
4T-6696	30	360	190	**2**
4T-6697	30	360	210	**2**
4T-6698	30	360	240	**2**
4T-6699	30	360	270	**2**
4T-6700	30	360	290	**2**
4T-7139	30	360	305	**1**
4T-7140	30	360	305	**1**
4T-9123	30	360	265	**1**
4T-9124	30	360	265	**1**
4T-7183	35	483	323	**1**
4T-7184	35	483	323	**1**
4T-7189	35	483	312	**2**
9W-8367	35	483	367	**1**
9W-8368	35	483	367	**1**
4T-6760	40	590	410	**2**
4T-6761	40	590	451	**1**

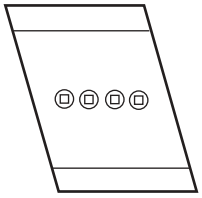


Fig 1

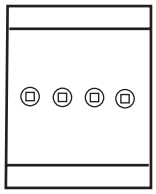


Fig 2

Corner End Bits

Ref.				Ø	Fig
1U-0761	40	556	265	1 1/4"	**1**
1U-0764	40	556	265	1 1/4"	**2**
3G-6395	35	510	200	1 1/4"	**1**
1U-1897	35	510	200	1 1/4"	**2**
4T-8101	30	496	170	1"	**1**
1U-1898	30	496	170	1"	**2**
4T-8091	25	342	160	1"	**3**
1U-1896	30	242	160	1"	**4**

Fig 1

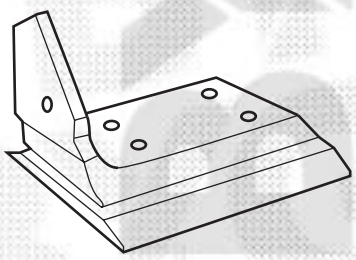
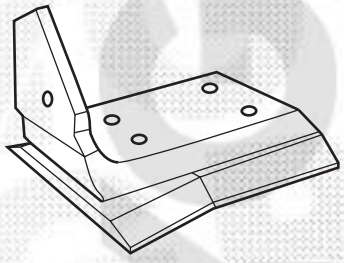


Fig 2



Sub-Loader Blades

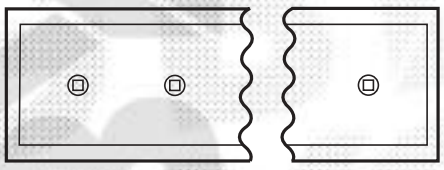


Fig 1

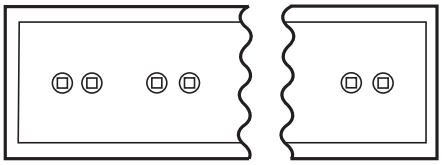


Fig 2

Ref.				Ø	Nº	Type
4T-8069	16	203	302	5/8"	3	**1**
4T-8071	16	203	257	5/8"	3	**1**
4T-8078	16	203	408	5/8"	4	**1**
4T-8082	16	203	349	5/8"	3	**1**
4T-8085	16	203	383	5/8"	3	**1**
4T-8353	20	203	463	3/4"	3	**1**
4T-8372	20	203	405	3/4"	3	**1**
1U-2357	20	254	1.308	3/4"	3	**1**
4T-2910	20	254	354	3/4"	2	**1**
4T-2911	20	254	1.143	3/4"	4	**1**
4T-2912	20	254	955	3/4"	4	**1**
4T-2913	20	254	1.308	3/4"	3	**1**
4T-2914	20	254	433	3/4"	2	**1**
4T-2915	20	254	1.486	3/4"	3	**1**
4T-2918	20	254	585	3/4"	2	**1**
4T-2919	20	254	946	3/4"	3	**1**
4T-8796	20	254	1.238	3/4"	3	**1**
9W-9944	20	254	373	3/4"	2	**1**
1U-0292	25	280	1.162	1"	3	**1**
1U-0293	25	280	941	1"	3	**1**
1U-0294	25	280	878	1"	3	**1**
1U-0295	25	280	1.025	1"	3	**1**
1U-0605	25	280	851	1"	3	**1**
1U-0607	25	280	1.044	1"	3	**1**
1U-1464	25	280	819	1"	3	**1**
1U-1465	25	280	788	1"	3	**1**
1U-1467	25	280	1.035	1"	4	**1**
4T-9563	25	280	967	1"	3	**1**
8A-8444	25	280	1.128	1"	3	**1**

Ref.				Ø	Nº	Type
1U-1531	30	360	660	19	4	**1**
4T-9126	30	360	655	19	3	**3**
1U-0599	30	360	976	1"	3	**1**
1U-0600	30	360	1.079	1"	3	**1**
1U-0601	30	360	1.210	1"	3	**1**
1U-1469	30	360	841	1"	3	**1**
1U-1470	30	360	991	1"	4	**1**
1U-1471	30	360	1.121	1"	4	**1**
1U-1473	30	360	1.140	1"	4	**1**
1U-1475	30	360	756	1"	4	**2**
1U-1478	30	360	1.416	1"	8	**2**
1U-1479	30	360	1.067	1"	6	**2**
1U-2410	30	360	960	1"	3	**1**
1U-2411	30	360	1.056	1"	3	**1**
1U-2412	30	360	1.148	1"	3	**1**
1U-2413	30	360	1.162	1"	3	**1**
1U-2414	30	360	1.044	1"	3	**1**
1U-0591	30	360	1.106	1"1/4	3	**1**
1U-0593	30	360	1.319	1"1/4	3	**1**
1U-1909	30	360	1.260	1"1/4	3	**1**
1U-2406	30	360	1.231	1"1/4	3	**1**
1U-2407	30	360	1.223	1"1/4	3	**1**
1U-2408	30	360	1.018	1"1/4	3	**1**
1U-2409	30	360	1.205	1"1/4	3	**1**
4T-9125	30	360	655	1"1/4	3	**3**
4T-9127	30	360	637	1"1/4	4	**3**
4T-9128	30	360	637	1"1/4	4	**3**
4T-9185	30	360	572	1"1/4	4	**4**
7T-5960	30	360	537	1"1/4	4	**3**

Sub-Loader Blades

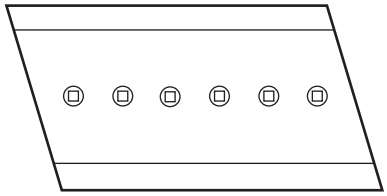


Fig 3

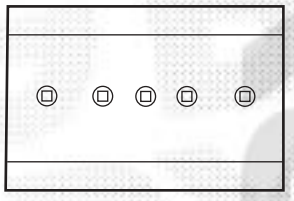


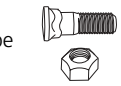
Fig 4

Ref.				Ø	Nº	Type
7T-5961	30	360	629	1"1/4	4	**3**
7T-5962	30	360	528	1"1/4	4	**4**
7T-5963	30	360	630	1"1/4	4	**3**
7T-5964	30	360	537	1"1/4	4	**3**
1U-1476	30	360	1.404	1"1/4	8	**2**
4T-6588	35	406	1.211	1"	6	**1**
4T-6589	35	406	1.667	1"	8	**2**
4T-6590	35	406	859	1"	4	**2**
4T-6592	35	406	858	1"	4	**2**
4T-6594	35	406	1.542	1"	8	**2**
1U-0762	35	406	1.406	1"1/4	3	**1**
4T-5273	35	406	1.337	1"1/4	3	**1**
4T-7141	35	406	620	1"1/4	4	**4**
4T-7142	35	406	682	1"1/4	4	**3**
4T-7143	35	406	682	1"1/4	4	**3**
4T-7144	35	406	735	1"1/4	4	**3**
4T-7145	35	406	735	1"1/4	4	**3**
9W-1375	35	406	1.524	1"1/4	3	**1**
9W-3676	45	406	917	1"1/4	4	**2**
9W-3677	45	406	927	1"1/4	6	**3**
9W-3678	45	406	927	1"1/4	6	**3**
9W-9943	20	425	1.231	7/8"	4	**1**
4T-7185	35	483	791	1"1/4	6	**3**
4T-7186	35	483	791	1"1/4	6	**3**
4T-7187	35	483	731	1"1/4	5	**3**
4T-7188	35	483	731	1"1/4	5	**3**
4T-7190	35	483	706	1"1/4	5	**4**
9W-8249	35	483	1.105	1"1/4	4	**2**
9W-8250	35	483	1.464	1"1/4	3	**1**

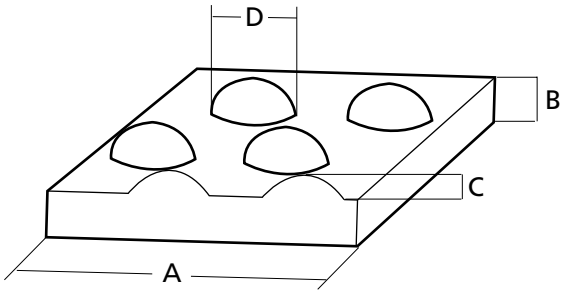
Loader Blades

		End Bit	Adapter	Type		Segments	Type		Sub-Loader	Type		Wear Plate
994	8X-0808	8X-0813/6	4T-4704 4T-4705 4T-4706	two strap	**70**	8E-3157 (2) 8E-3158 (3) 8E-3159 (3)	cent R L	6V-8360 (40) 3K-9770 (40)				8E-3160 (2)
992	9V-0009	3V-3893/4	7J-9554	flush	**55**							
992	3V-3890 9V-0007	3V-3893/4	3G-9494 3G-4554	two strap flush	**55**							
992	9V-0008	3V-3893/4	7J-9554 7J-9555 7J-9556	flush	**55**							
992	3V-3234 9V-0005 9V-0006 9V-3566 9V-3570	9V-6132	3G-9494 3G-9495 3G-9496 3G-4554 3G-4555 3G-4556	two strap flush	**55**	4T-6760 (1) 4T-6761 (3) 4T-6762 (3)	cent R L	5P-8823 (28) 3K-9770 (28)				
992	4E-6462	4E-6385	3G-9494 3G-9495 3G-9496 3G-4554 3G-4555 3G-4556	two strap flush	**55**	4T-6760 (1) 4T-6761 (3) 4T-6762 (3)	cent R L	5P-8823 (28) 3K-9770 (28)				1U-4933 (2)
988	8K-5056 8K-6588	7K-9309	7T-8454	flush	**45**							
988	9C-2932 9V-0232	2V-4314	4T-7454 7T-8454	two strap flush	**45**	9W-5734 (7)	cent	6V-6335 (21) 3K-9770 (21)				
988	8V-9583 8V-9585 8R-4649 6W-9311	2V-4314	4T-7454 4T-7455 4T-7456 7T-8454 7T-8455 7T-8456	two strap flush	**45**	9W-5734 (7) 9W-5737 (3) 9W-5730 (3)	cent R L	6V-6335 (21) 3K-9770 (21)	9W-5732 9W-5731 9W-5733 9W-5736 9W-5735	L cen L cen cen R R	6V-6335 (25) 3K-9770 (25)	1U-4929 (2)
983	8K-5000 8K-5056	7K-9309/10	4T-7454 7T-8454	two strap flush	**45**							
983	9K-5408 8V-9591	3V-3310/11	4T-7454 4T-7455 4T-7456 7T-8454 7T-8455 7T-8456	two strap flush	**45**							
983	9V-0235 9V-0237	3V-3310/11	7T-8454	flush	**45**							
980	9K-1619	7K-9309/10	3G-2357 (8) 1U-1354 (8) 1U-1350 (8)	bolt-on flush bottom strap	**35**				4T-6594 (1) 4T-6592 (2)	cen cen R	4J-9208 (16) 2J-3507 (16)	
980	2V-6118 2V-6286	2V-6299 (2)	1U-1354	flush	**35**							
980	6W-2991	7V-4180/1	1U-1357 (6) 1U-1358 / 9	bolt-on corner adap	**35**	4T-6700 (7)	cent	5P-8823 (14) 3K-9770 (14)	4T-5273(2) 1U-0761 (2) 1U-0764	cen corner cor ang	5P-8823 (12) 3K-9770 (12)	
980	7V-4188 7V-0909 9V-6574	7V-4180	1U-1357 (6) 1U-1358 / 9	bolt-on corner adap	**35**	4T-6700 (7)	cent	5P-8823 (14) 3K-9770 (14)	1U-0762 (2) 1U-0761 (2) 1U-0764	cen corn cor ang	5P-8823 (12) 3K-9770 (12)	
980	8V-9580 8V-9581 9V-3561 4E-6807				**35**	4T-3015 (1) 4T-7139 (3) 4T-7140 (3)	cent R L	6V-6535 (14) 3K-9770 (14)	4T-7141 4T-7144 4T-7145 4T-7142 4T-7143	cen cen R R corner cor ang	6V-6535 (18) 3K-9770 (18)	

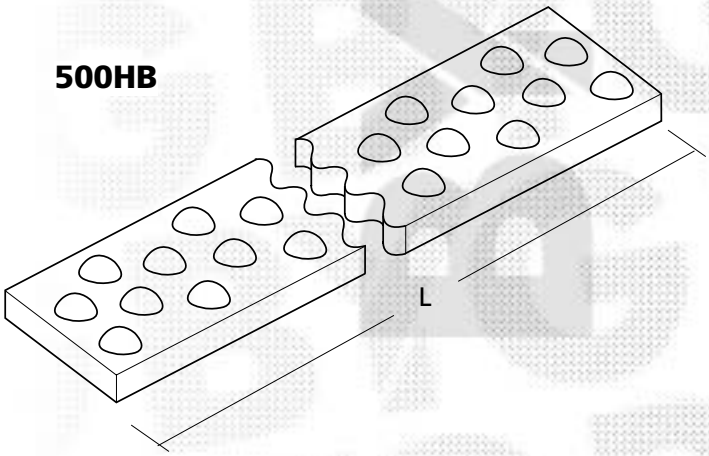
		End Bit	Adapter	Type		Segments	Type		Sub-Loader	Type		Wear Plate
977	9K-8472 1V-9018	1V-8664 (2)	1U-1354 1U-1350	flush bottom strap	**35**							
977	7V-0898	4V-7174/5	3G-3357 (6) 3G-5358/9	bolt-on corner adap	**35**				1U-2409 (2) 3G-6395 (2) 1U-1897 (2)	cen corner cor ang	5P-8823 (12) 3K-9770 (12)	
977	6W-2983	4V-7174/5	3G-3357 (6) 3G-5358/9	bolt-on corner adap	**35**	4T-6696 (7)	cent	5P-8823 (14) 3K-9770 (14)	1U-2408 (2) 3G-6395 (2) 1U-1897 (2)	cen corner cor ang	5P-8823 (12) 3K-9770 (12)	
973	6W-2982	4V-7174/5	3G-3357 (6) 3G-5358/9	bolt-on corner adap	**35**	4T-6697 (7)	cent	5P-8823 (12) 3K-9770 (12)	1U-0591 (2) 3G-6395 (2) 1U-1897 (2)	cen corner cor ang	5P-8823 (12) 3K-9770 (12)	
973	6W-2981	4V-7174/5	3G-3357 (6) 3G-5358/9	bolt-on corner adap	**35**	4T-6698 (7)	cent	5P-8823 (12) 3K-9770 (12)	1U-0592 (2) 3G-6395 (2) 1U-1897 (2)	cen corner cor ang	5P-8823 (12) 3K-9770 (12)	
977	9V-0171 9V-0178	8K-7525/6	1U-1354 (8) 1U-1350 (8)	flush bottom strap	**35**							
977	6W-2994	8K-7525/6	1U-1354 (7) 1U-1350 (7)	flush bottom strap	**35**	4T-3015 (2) 4T-9123 (2) 4T-9124 (2)	cent R L	6V-6535 (12) 3K-9770 (12)	9W-3676 9W-3678 9W-3677	cen corner cor ang	6V-6535 (12) 3K-9770 (12)	
966	6W-2989	5V-2772/3	3G-9307 (6) 3G-8308/9	bolt-on corner adap	**30**	4T-6698 (7)	cent	5P-8823 (14) 3K-9770 (14)	1U-2407 (2) 3G-6395 (2) 1U-1897 (2)	cen corner cor ang	5P-8823 (12) 3K-9770 (12)	
966	6W-2990	5V-2772/3	3G-9307 (6) 3G-8308/9	bolt-on corner adap	**30**	4T-6698 (7)	cent	5P-8823 (14) 3K-9770 (14)	1U-2406 (2) 3G-6395 (2) 1U-1897 (2)	cen corner cor ang	5P-8823 (12) 3K-9770 (12)	
966	7V-0912 7V-1490 9V-6575	4V-7174/5	3G-3357 (6) 3G-5358/9	bolt-on corner adap	**35**	4T-6699 (7)	cent	5P-8823 (14) 3K-9770 (14)	1U-0593 (2) 3G-6395 (2) 1U-1897 (2)	cen corner cor ang	5P-8823 (12) 3K-9770 (12)	
966	7V-6844	4V-7174/5	3G-3357 (6) 3G-5358/9	bolt-on corner adap	**35**				1U-1909 (2) 3G-6395 (2) 1U-1897 (2)	cen corner cor ang	5P-8823 (12) 3K-9770 (12)	
966	1V-3917 2V-3583 6W-5520	1V-8664 (2)	1U-1354 1U-1350	flush bottom strap	**35**							
966	9V-0170 9V-0176	8K-7525/6	1U-1354 1U-1350	flush bottom strap	**35**							
966	6W-2993	8K-7525/6	1U-1354 1U-1350	flush bottom strap	**35**	4T-6697 4T-9123 (3) 4T-9124 (3)	cent R L	6V-6535 (14) 3K-9770 (14)	4T-9127 4T-9125 4T-9185 4T-9126 4T-9128	L cen L cen cen R R	6V-6535 (18) 3K-9770 (18)	
963	6W-2979	5V-1783	4T-4307 (6) 3G-4308/9	bolt-on corner adap	**30**	4T-6692 (5) 4T-6693 4T-6693	cent R L	4F-4042 (14) 2J-3507 (14)	1U-0599 (2) 4T-8101 (2) 1U-1898 (2)	cen corner cor ang	4F-4042 (14) 2J-3507 (14)	
963	6W-2980	5V-1783	4T-4307 (6) 3G-4308/9	bolt-on corner adap	**30**	4T-6694 (7)	cent	4F-4042 (14) 2J-3507 (14)	1U-0600 (2) 4T-8101 (2) 1U-1898 (2)	cen corner cor ang	4F-4042 (14) 2J-3507 (14)	
955	5V-7263	5V-1783/4	4T-4307 (6) 3G-4308/9	bolt-on corner adap	**30**				1U-2411 (2) 4T-8101 (2) 1U-1898 (2)	cen corner cor ang	4F-4042 (14) 2J-3507 (14)	
955	5V-7437	8K-6455/6	1U-0307 (8) 1U-1304 9J-8929	bolt-on flush bottom strap	**30**				1U-1471 1U-1471	L R	4F-4042 (12) 2J-3507 (12)	
955	6W-2978	5V-1783/4	4T-4307 (6) 3G-4308/9	bolt-on corner adap	**30**	4T-6692 (7)	cent	4F-4042 (14) 2J-3507 (14)	1U-2410 (2) 4T-8101 (2) 1U-1898 (2)	cen corner cor ang	4F-4042 (14) 2J-3507 (14)	
953	9V-6570	4V-1544/5	1U-0257 (6) 3G-4258/9	bolt-on corner adap	**25**	4T-6692 (7)	cent	1J-5607 (14) 2J-3507 (14)	1U-0293 (2) 4T-8091 (2) 1U-1896 (2)	cen corner cor ang	1J-5607 (10) 2J-3507 (10)	
953	9V-6572	4V-1544/5	1U-0257 (6) 3G-4258/9	bolt-on corner adap	**25**	4T-6694 (7)	cent	1J-5607 (14) 2J-3507 (14)	1U-0295 (2) 4T-8091 (2) 1U-1896 (2)	cen corner cor ang	1J-5607 (10) 2J-3507 (10)	
951	6W-2977	4V-1544/5	1U-0257 (6) 3G-4258/9	bolt-on corner adap	**25**	4T-6691 (7)	cent	1J-5607 (14) 2J-3507 (14)	1U-0605 (2) 4T-8091 (2) 1U-1896 (2)	cen corner cor ang	1J-5607 (12) 2J-3507 (12)	
951	5V-4670 9V-6572	4V-1544/5	1U-0257 (6) 3G-4258/9	bolt-on corner adap	**25**	4T-6694 (7)	cent	1J-5607 (14) 2J-3507 (14)	1U-0295 (2) 4T-8091 (2) 1U-1896 (2)	cen corner cor ang	1J-5607 (10) 2J-3507 (10)	
951	9K-8471 1V-0074	4V-8285/6	1U-1254 3G-0169	flush bottom strap	**25**							

		End Bit	Adapter	Type		Segments	Type		Sub-Loader	Type		Wear Plate
950	5V-4696 5V-7410 9V-6573	5V-1783/4	4T-4307 (6) 3G-4308/9	bolt-on corner adap	**30**	4T-6695 (7)	cent	4F-4042 (14) 2J-3507 (14)	1U-0601 (2) 4T-8101 (2) 1U-1898 (2)	cen corner cor ang	4F-4042 (12) 2J-3507 (12)	
950	6W-2986	5V-7395/6	1U-0307 (6) 3G-4308/9	bolt-on corner adap	**30**	4T-6694 (5) 4T-6693 4T-6693	cent R L	1J-5607 (14) 2J-3507 (14)	1U-2414 (2) 4T-8101 (2) 1U-1898 (2)	cen corner cor ang	4F-4042 (12) 2J-3507 (12)	
950	6W-987	5V-7395/6	1U-0307 (6) 3G-4308/9	bolt-on corner adap	**30**	4T-6694 (5) 4T-6695 4T-6695	cent R L	1J-5607 (14) 2J-3507 (14)	1U-2412 (2) 4T-8101 (2) 1U-1898 (2)	cen corner cor ang	4F-4042 (12) 2J-3507 (12)	
950	6W-2988	5V-7395/6	1U-0307 (6) 3G-4308/9	bolt-on corner adap	**30**	4T-6694 (5) 4T-6695 4T-6695	cent R L	1J-5607 (14) 2J-3507 (14)	1U-2413 (2) 4T-8101 (2) 1U-1898 (2)	cen corner cor ang	4F-4042 (12) 2J-3507 (12)	
950	6W-2973 6W-9879 9C-0967	5W-3468 (2	1U-1354 1U-1350	flush bottom strap	**35**	4T-3015 4T-9123 (3) 4T-9124 (3)	cent R L	8T-9079 (14) 3K-9770 (14)	7T-5964 7T-5961 7T-5962 7T-5963 7T-5960	L cen L cen cen R R	8T-9079 (18) 3K-9770 (14)	
950	1V-3915 1V-396 7V-7416	8K-6455/6	1U-1304 9J-8929	flush bottom strap	**30**							
943	9V-6571	4V-1544/5	1U-0257 (6) 3G-4258/9	bolt-on corner adap	**25**	4T-6692 (5) 4T-6693 4T-6693	cent R L	1J-5607 (14) 2J-3507 (14)	4T-9563 (2) 1J-5607 (14) 2J-3507 (14) 4T-8091 (2) 1U-1896 (2)	L cen R corner cor ang	1J-5607 (10) 2J-3507 (10)	
943	9V-6570	4V-1544/5	1U-0257 (6) 3G-4258/9	bolt-on corner adap	**25**	4T-6892 (7)	cent	1J-5607 (14) 2J-3507 (14)	1U-0293 (2) 4T-8091 (2) 1U-1896 (2)	cen corner cor ang	1J-5607 (10) 2J-3507 (10)	
943	9V-6571	4V-1544/5	1U-0257 (6) 3G-4258/9	bolt-on corner adap	**25**	4T-6691 (7)	cent	1J-5607 (14) 2J-3507 (14)	1U-0294 (2) 4T-8091 (2) 1U-1896 (2)	cen corner cor ang	1J-5607 (10) 2J-3507 (10)	
941	9K-8471 1V-0074	4V-8285/6	1U-1254 3G-0169	flush bottom strap	**25**							
941	5V-4670 9V-6572	4V-1544/5	1U-0257 (6) 3G-4258/9	bolt-on corner adap	**25**	4T-6694 (7)	cent	1J-5607 (14) 2J-3507 (14)	1U-0295 (2) 4T-8091 (2) 1U-1896 (2)	cen corner cor ang	1J-5607 (10) 2J-3507 (10)	
941	6W-2977	4V-1544/5	1U-0257 (6) 3G-4258/9	bolt-on corner adap	**25**	4T-6691 (7)	cent	1J-5607 (14) 2J-3507 (14)	1U-0605 (2) 4T-8091 (2) 1U-1896 (2)	cen corner cor ang	1J-5607 (10) 2J-3507 (10)	
936	8V-1825 6W-2985	4V-1544/5	1U-0257 (6) 3G-4258/9	bolt-on corner adap	**25**	4T-6695 (7)	cent	1J-5607 (14) 2J-3507 (14)	1U-0292 (2) 4T-8091 (2) 1U-1896 (2)	cen corner cor ang	1J-5607 (10) 2J-3507 (10)	
935 **941**	5G-2808	5G-2806/7	9J-4207 (6) 1U-2208/9	bolt-on corner adap	**20**				4T-2911 4T-2910 (2)	cen corner	4F-7827 (8) 2J-3506 (8)	
935 **941**	5G-3085	5G-2806/7	9J-4207 (6) 1U-2208/9	bolt-on corner adap	**20**				4T-2913 4T-2914 (2)	cen corner	4F-7827 (7) 2J-3506 (7)	
930	6W-2984	4V-1544/5	1U-0257 (6) 3G-4258/9	bolt-on corner adap	**25**	4T-6694 (5) 4T-6693 4T-6693	cent R L	1J-5607 (14) 2J-3507 (14)	1U-0607 (2) 4T-8091 (2) 1U-1896 (2)	cen corner cor ang	1J-5607 (10) 2J-3507 (10)	
926	5V-4670 9V-6572	4V-1544/5	1U-0257 (6) 3G-4258/9	bolt-on corner adap	**25**	4T-6694 (7)	cent	1J-5607 (10) 2J-3507 (10)	1U-0295 (2) 4T-8091 (2) 1U-1896 (2)	cen corner cor ang	1J-5607 (14) 2J-3507 (10)	
920	6W-2984	4V-1544/5	1U-0257 (6) 3G-4258/9	bolt-on corner adap	**25**	4T-6694 (5) 4T-6693 4T-6693	cent der izq	1J-5607 (14) 2J-3507 (14)	1U-0607 (2) 4T-8091 (2) 1U-1896 (2)	cen corner cor ang	1J-5607 (10) 2J-3507 (10)	
916	5V-4670 9V-6572	4V-1544/5	1U-0257 (6) 3G-4258/9	bolt-on corner adap	**25**	4T-6694 (7)	cent	1J-5607 (14) 2J-3507 (14)	1U-0295 (2) 4T-8091 (2) 1U-1896 (2)	cen corner cor ang	1J-5607 (10) 2J-3507 (10)	
910	5G-3085 5G-6133	5G-2806/7	9J-4207 (5) 1U-2208/9 4T-1204 8J-7525	bolt-on corner adap flush bottom strap	**20**	7T-8935 (6)	cent	4F-7827 (7) 2J-3506 (7)	4T-2913 4T-2914 (2)	cen corner	4F-7827 (7) 2J-3506 (7)	

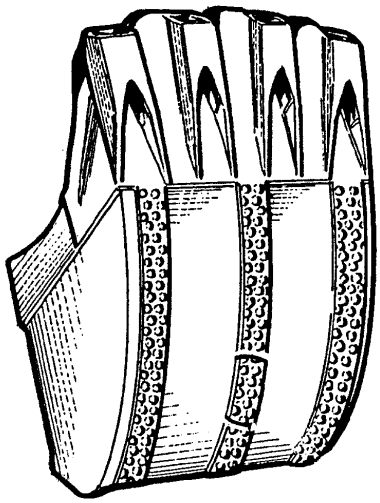
Armoured Bars

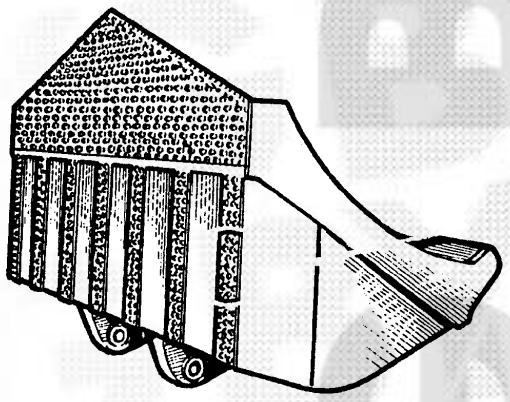


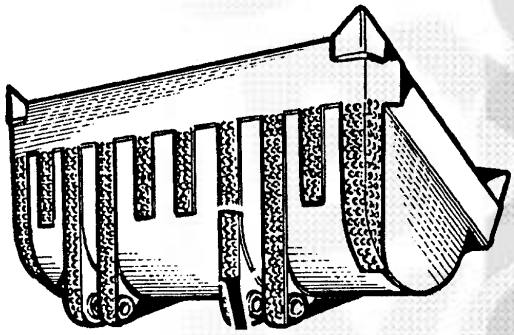
500HB



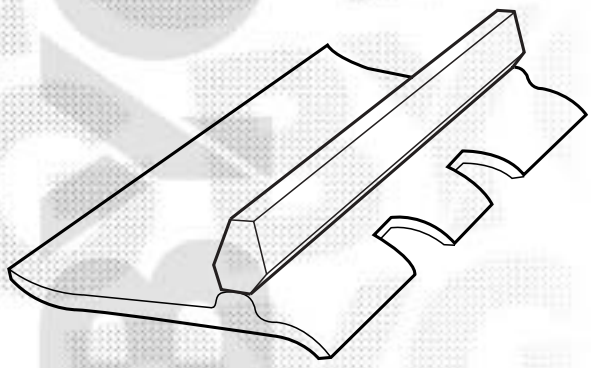
	mm.				L (mm.)	
	A	B	C	D		KG
BLI-10	80	10	2,5	22	3000	7,1 Kg/m.
BLI-15	100	15	3,0	25	3000	13,0 Kg/m.
BLI-20	120	20	3,5	28	3000	20,0 Kg/m.



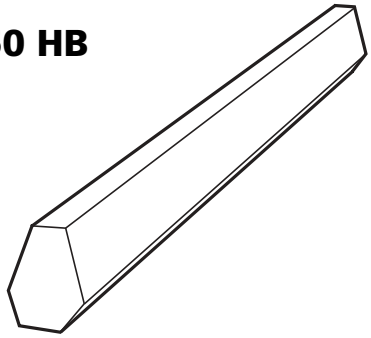




Grouser Bars to Rebuild Shoes



450 HB



BYG weld-on grouser bars are made of hight quality steel to rebuild the worn shoes without the need of replacing the whole unit.

Major Yield

Worn shoes may make the machine slip and lose traction and consequently waste time and fuel. By rebuilding the shoes your machine will get back the original yield.

Economy

The shape and special design of the grouser bar will ensure a quick and economical welding with a perfect finish saving a lot of material.

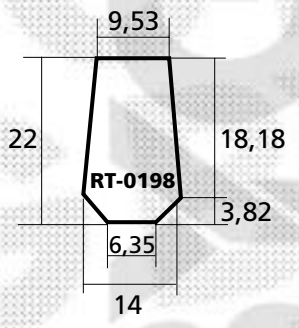
Sizes

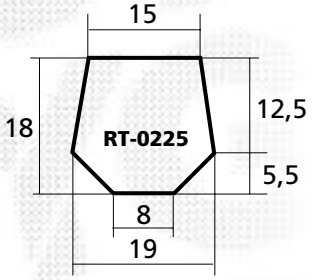
The BYG grouser bar is designed to fit the original shoe. Depending on the wear of your shoes you will be able to choose between various sizes available at BYG.

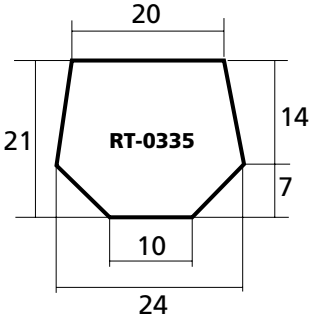
Specifications

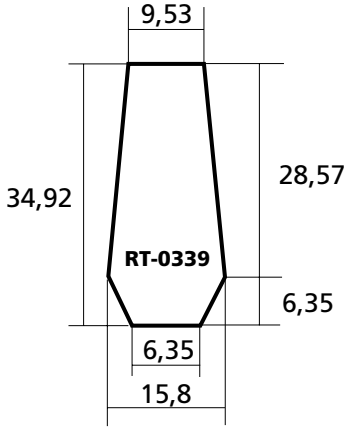
BYG grouser bars are made of SAE 1070 steel with a hardness of the treated bar of 450HB.

Ref.	Applications	Area mm^2	Weight Kg/m	Height mm.	Width mm.	m / ton.
RT-0198	Tractores Agrícolas	252	1,98	22,00	14,00	505
RT-0225	955H, 955K, 955L, D60S	287	2,25	18,00	19,00	444
RT-0335	FL12, FL14, 977	427	3,35	21,00	24,00	298
RT-0339	D4, D5, D6	432	3,39	34,92	15,88	295
RT-0423	D5, D6, AD7, D50	539	4,23	38,10	19,05	236
RT-0545	D6, AD7	694	5,45	38,00	23,00	183
RT-0794	D7F, D7G, D8H, D8K, AD20, D155	1011	7,94	44,45	28,50	126
RT-0945	D7F, D7G, D8H, D8K, AD20	1204	9,45	44,45	31,75	106
RT-1297	D9H, D9G, HD41, D355	1652	12,97	60,00	35,00	77
RT-1701	D9L, D10N, D375,, D455	2167	17,01	68,00	37,00	59
RT-2110	D10, D11, D455, D475	2690	21,10	76,00	43,00	47



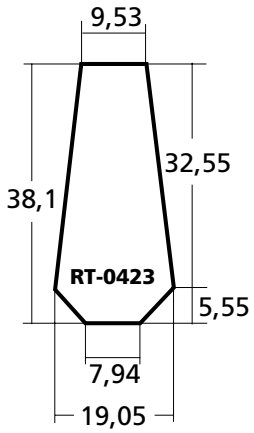


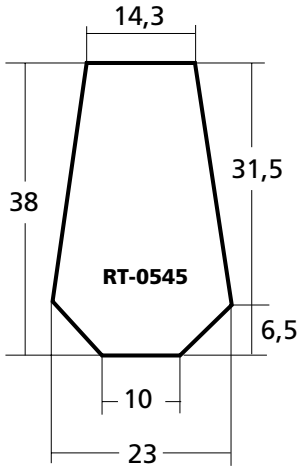


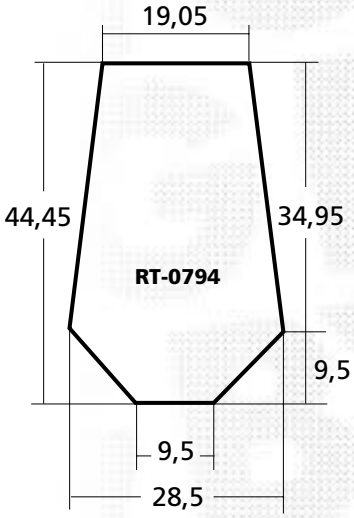


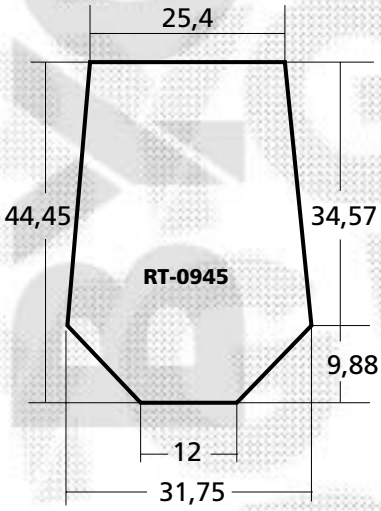
27/2/02

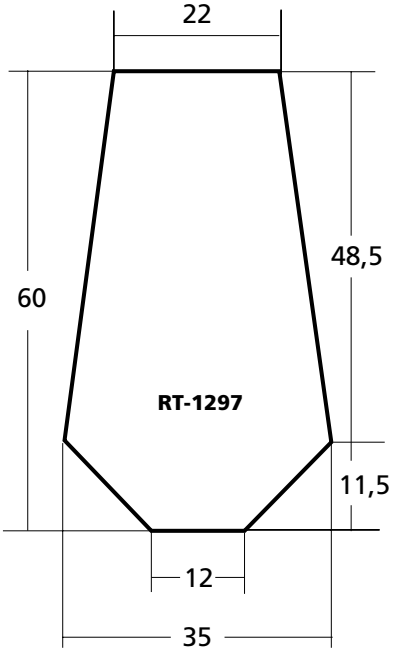
Grouser Bars to Rebuild Shoes

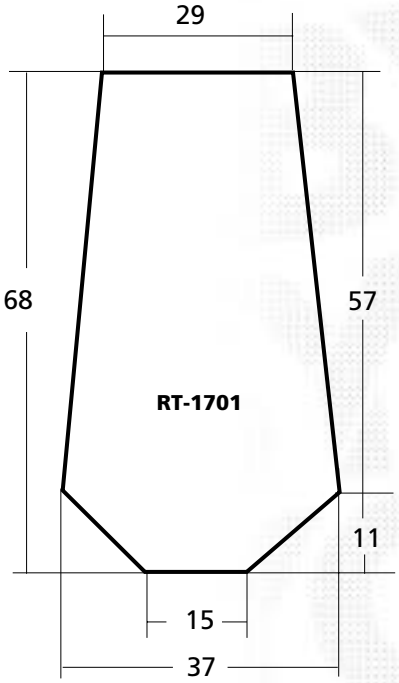


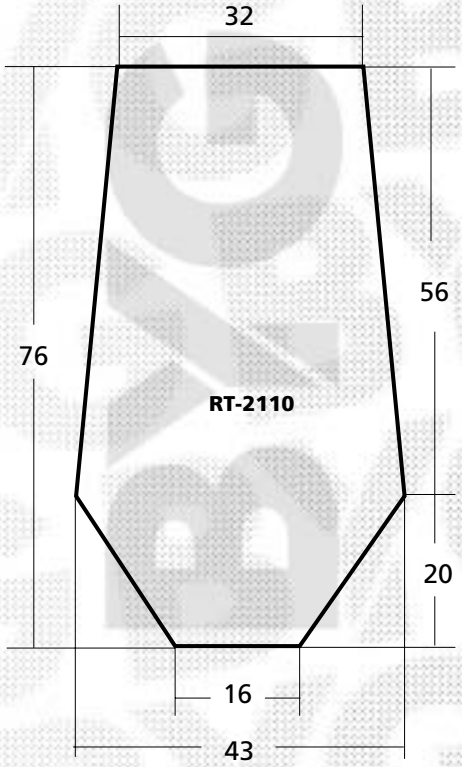








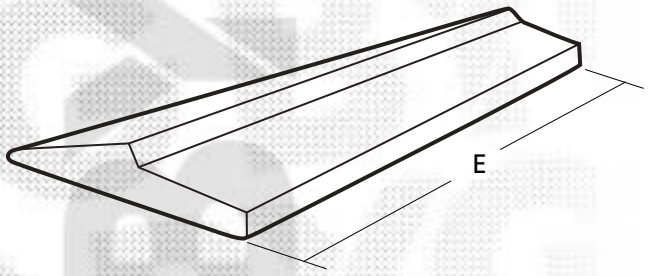


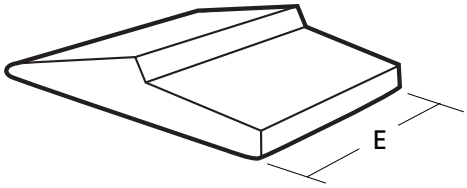


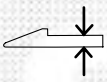
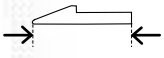
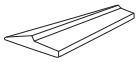
# Shoes per model	a Width of Shoe, meters needed									
	203 mm	**305 mm**	**330 mm**	**356 mm**	**381 mm**	**406 mm**	**457 mm**	**508 mm**	**559 mm**	**610 mm**
58	11,9 m	17,9 m	19,3 m	20,8 m	22,3 m	23,7 m	26,7 m	29,6 m	32,6 m	35,6 m
60	12,4 m	18,5 m	20,0 m	21,5 m	23,0 m	24,5 m	27,6 m	30,7 m	33,7 m	36,8 m
62	12,8 m	19,1 m	20,6 m	22,3 m	23,8 m	25,4 m	28,5 m	31,7 m	34,8 m	38,0 m
64	13,2 m	19,7 m	21,3 m	23,0 m	24,6 m	26,2 m	29,4 m	32,7 m	36,0 m	39,2 m
66	13,6 m	20,3 m	22,0 m	23,7 m	25,3 m	27,0 m	30,4 m	33,7 m	37,1 m	40,5 m
68	14,0 m	20,9 m	22,6 m	24,4 m	26,1 m	27,8 m	31,3 m	34,7 m	38,2 m	41,7 m
70	14,4 m	21,6 m	23,3 m	25,1 m	26,9 m	28,6 m	32,2 m	35,8 m	39,3 m	42,9 m
72	14,8 m	22,2 m	24,0 m	25,8 m	27,6 m	29,4 m	33,1 m	36,8 m	40,5 m	44,1 m
74	15,2 m	22,8 m	24,6 m	26,6 m	28,4 m	30,3 m	34,0 m	37,8 m	41,6 m	45,4 m
76	15,7 m	23,4 m	25,3 m	27,3 m	29,2 m	31,1 m	35,0 m	38,8 m	42,7 m	46,6 m
78	16,1 m	24,0 m	26,0 m	28,0 m	30,0 m	31,9 m	35,9 m	39,9 m	43,8 m	47,8 m

Cutting Edge: Half Arrow Edge Profiles

500 HB



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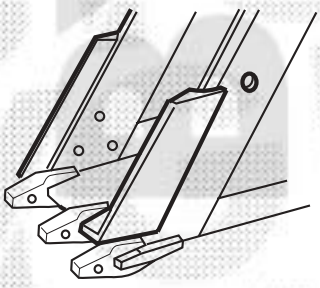
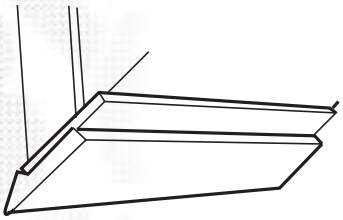
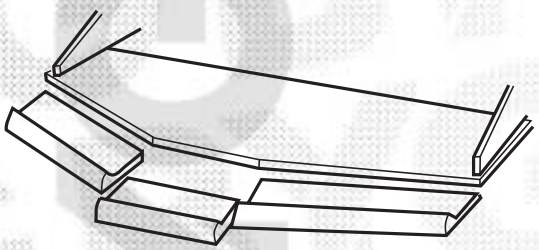
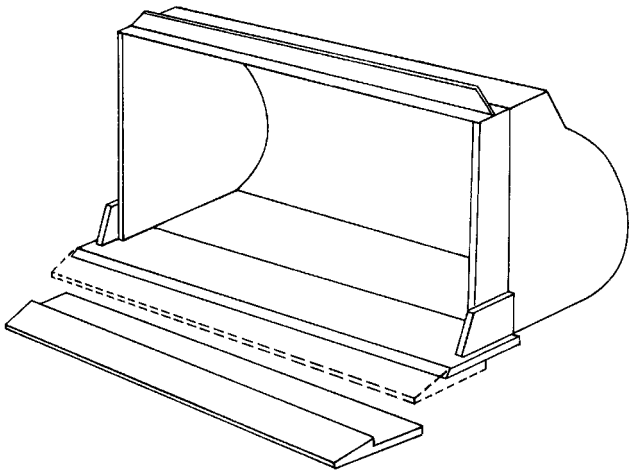
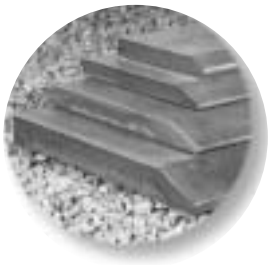
15mm.	150mm.	**F5215150EEEE**
20mm.	200mm.	**F5220200EEEE**
30mm.	250mm.	**F5230250EEEE**











Codification de References for Half Arrow Profiles

The reference number of profile is composed of 5 blocks of characters. Each block indicates a characteristic of the profile.

A BB CC DDD EEEE

(12 dígitos sin espacios)

A

The first block (one character) indicates the type of part.

F HALF ARROW PROFILE

Example:
F ** ** * ****

BB

The second block (2 characters) indicates the quality of the part (Brinell scale), as shown.

52 520 Brinell

Example:
F 52 ** * ****

CC

The third block (2 digits)indicates the shank thickness. The digits correspond exactly to the thickness (milimeters) with the exception of: 100mm, 110mm and 120mm thickness, as shown in the following list:

10 10mm. Thickness (520 Brinell)
15 15mm. Thickness (520 Brinell)
20 20mm. Thickness (520 Brinell)
30 30mm. Thickness (520 Brinell)

Example:
F 52 15 * ****

DDD

This block (3 digits) indicates the width of the profile, milimeters.

100mm. width (10 mm Thickness)
150mm. width (15 mm Thickness)
200mm. width (20 mm Thickness)
250mm. width (30 mm Thickness)

Example:
F 52 15 150 **

EEEE

The last block (4 digits) indicates the length (in milimeters) of the profile, always in multiples of 50 mm.

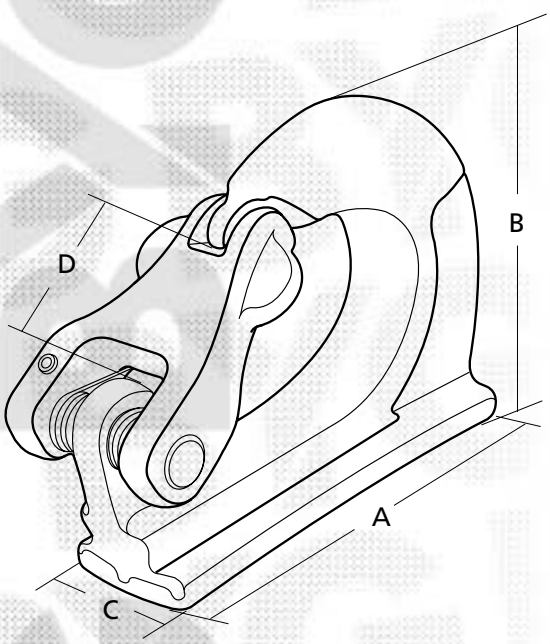
Ejemplo:
F 52 15 150 6000

Reference example (12 characters without blank spaces)

F52151505000

Type Quality Thickness Width Lenght

Safety Hook Weld-on

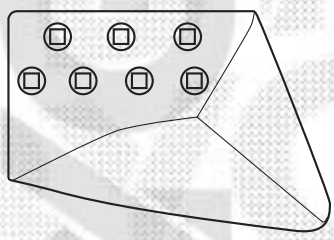


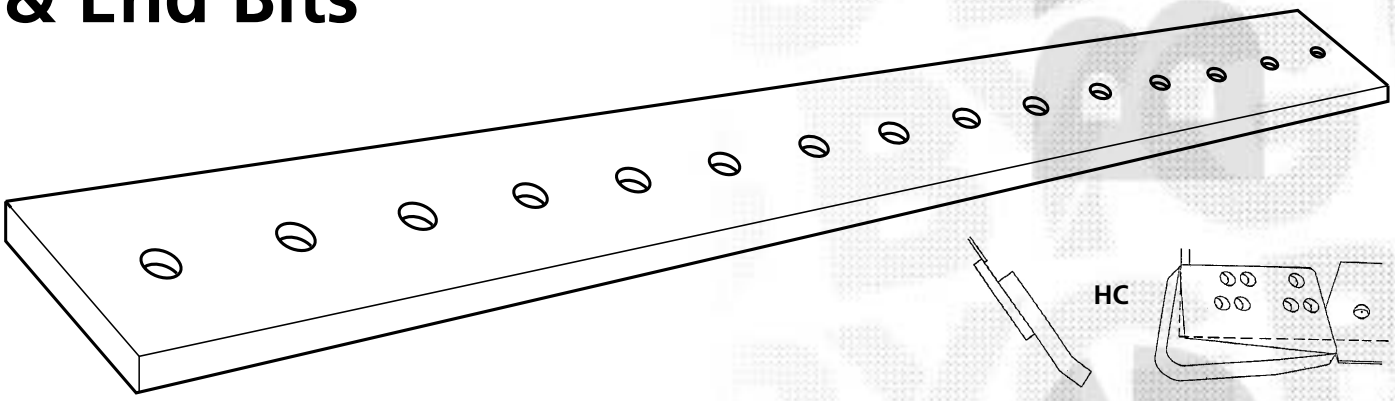
mm.				Kg.		Size
A	B	C	D	KG lb		
95	73	25	22	0,56 1,2 lbs.	**GH-1000**	1
114	88	30	29	0,96 2,1 lbs.	**GH-2000**	2
133	106	35	29	1,36 3 lbs.	**GH-3000**	3
142	112	42	31	1,89 4,1 lbs.	**GH-4000**	4
166	131	45	34	2,80 6,1 lbs.	**GH-5000**	5
173	133	50	35	3,50 7,7 lbs.	**GH-8000**	8
221	170	56	50	6,20 13,6 lbs.	**GH-10000**	10

DRP

Komatsu

Cutting Edges & End Bits

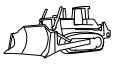


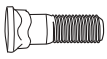


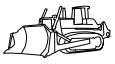
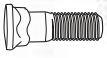
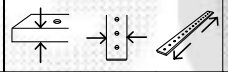
Komatsu Dozer Cutting Edges

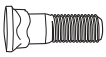
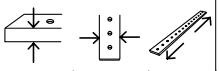
	Type	Series	Ref.	Inches	n°	mm.			Description	n°	KG
D10-A		1002-UP	**10A-71-11190**			10	76	1.349			
D20A-3	Angle	20007-UP	**101-71-12370**	1/2x2	11	16	152	1.670	Central Cutting Edge		26
D21A-3			**101-71-11190**	1/2x2	4	16	152	314	Straight Right End		5
			101-71-11220	1/2x2	4	16	152	314	Straight Left End		5
D30A-12	Angle	5002-UP	**112-70-31110**	5/8x2	13	16	152	1.999	Central Cutting Edge		30
D30A-15			**112-70-31130**	5/8x2	4	16	152	370	Straight Right End		5
			112-70-31120	5/8x2	4	16	152	370	Straight Left End		5
D31A-16	Angle Tilt	25001-UP	**114-72-21140**	5/8x2	6	16	152	841	Central Cutting Edge	2	13
			112-946-1510	5/8x2	4	16	152	370	Side Cutting Edge		5
			112-946-1510RHD	5/8x2	4				Right HC End		12
			112-946-1510LHD	5/8x2	4				Left HC End		12
D31P-16	Straight Tilt	25001-UP	**11G-71-21170**	5/8x2	6	16	152	870	Central Cutting Edge	2	13
			112-946-1510	5/8x2	4	16	152	370	Side Cutting Edge		5
			112-946-1510RHD	5/8x2	4				Right HC End		12
			112-946-1510LHD	5/8x2	4				Left HC End		12
	Angle Tilt	25001-UP	**12F-70-11640**	5/8x2	8	16	152	1.199	Central Cutting Edge	2	18
			112-946-1510	5/8x2	4	16	152	370	Side Cutting Edge		5
			112-946-1510RHD	5/8x2	4				Right HC End		12
			112-946-1510LHD	5/8x2	4				Left HC End		12
31P	Angle Tilt		**12F-70-31281**	5/8x2	8	16	152	1.218	Central Cutting Edge		21
			12F-70-31261	5/8x2	6	16	152	913	Central Cutting Edge	2	16
			120-Y46-5172	5/8x2	4				Right HC End		7
			120-Y46-5162	5/8x2	4				Left HC End		7
D31A			**125-70-31261**	5/8	6	25	203	911	Central Cutting Edge	2	35
			125-70-31251	5/8	5	25	203	759			29
				5/8	4	25	203	368	Side Cutting Edge		14
D31A-17	Angle Tilt	32001-UP	**12F-70-31261**	5/8x2	6	16	152	897	Central Cutting Edge		16
			12F-70-31251	5/8x2	5	16	152	760	Central Cutting Edge	2	13

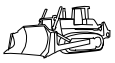
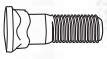
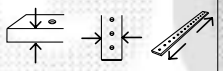
	Type	Series	Ref.	Inches	n°	mm.			Description	n°	KG lb
			112-946-1510	5/8x2	4	16	152	370	Side Cutting Edge		5
			112-946-1510RHD	5/8x2	4				Right HC End		12
			112-946-1510LHD	5/8x2	4				Left HC End		12
D31A-17	Angle		**12F-70-31281**	5/8x2	6	16	152	1.218	Central Cutting Edge		21
D31P-17A	Angle Tilt	32001-UP	**12F-70-31261**	5/8x2	5	16	152	913	Central Cutting Edge	2	16
			112-946-1510	5/8x2	4	16	152	370	Side Cutting Edge		5
			112-946-1510RHD	5/8x2	4				Right HC End		12
			112-946-1510LHD	5/8x2	4				Left HC End		12
D31P-17	Straiht Tilt	32001-UP	**12F-70-31261**	5/8x2	6	16	152	897	Central Cutting Edge		16
			12F-70-31251	5/8x2	5	16	152	760	Central Cutting Edge	2	13
			11G-71-31170	5/8x2	4	16	152	370	Side Cutting Edge		5
			11G-71-31170RHD	5/8x2	4				Right HC End		12
			11G-71-31170LHD	5/8x2	4				Left HC End		12
	Angle	32001-UP	**12F-70-31281**	5/8x2	8	16	152	1.218	Central Cutting Edge	2	21
			112-946-1510	5/8x2	4	16	152	370	Side Cutting Edge		5
			112-946-1510RHD	5/8x2	4				Right HC End		12
			112-946-1510LHD	5/8x2	4				Left HC End		12
41A, 41P			**12F-70-31251**	5/8x2 1/4	5	16	152	760	Central Cutting Edge	2	13
D40A-1		1501-UP	**12F-70-11640** **124-70-11640**	5/8x2 1/4	8	16	152	1.199	Central Cutting Edge	2	18
D45A-1			**124-70-21340RF**	5/8x2 1/4	6	19	165	322	Straight Right End		7
D45E-1	Angle	1803-UP	**124-70-21330RF**	5/8x3 1/4	4	19	165	322	Straight Left End		7
			124-70-21340	5/8x2 1/4	6				Right HC End		10
			124-70-21330	5/8x3 1/4	4				Left HC End		10
D40-1	Straight		**124-920-1280**	5/8x2 1/4	6	16	152	919	Central Cutting Edge	2	14
D45A			**130-817-1121**	5/8x2 1/4	6				Right HC End		10
			130-817-1131	5/8x3 1/4	4				Left HC End		10
D40P-1	Straight Tilt	1501-2200	**12F-70-11640** **124-70-11640**	5/8x2 1/4	8	16	152	1.199	Central Cutting Edge	2	18
D45P-1	Swamp	1501-1800	**130-817-1121**	5/8x2 1/4	6				Right HC End		10
			130-817-1131	5/8x3 1/4	4				Left HC End		10
D40A-3	Angle Tilt	6001-UP	**12F-70-31281**	5/8x2 1/2	8	16	152	870	Central Cutting Edge	2	21
D41A-3			**120-70-31411**	5/8x2 1/2	4	22	203	375	Side Cutting Edge		11
D41E-3			**120-70-31411R**	5/8x2 1/2	4				Right HC End		12
			120-70-31411L	5/8x2 1/2	4				Left HC End		12
D40A-1	Straight Tilt	1501-UP	**11G-71-21170**	5/8x2	6	16	152	870	Central Cutting Edge	2	13
D45A-1			**124-70-21180RF**	5/8x2 1/4	6	19	165	322	Straight Right End		7
D45E	Straight Tilt	1803-UP	**124-70-21170RF**	5/8x3 1/4	4	19	165	322	Straight Left End		7
			124-70-21180	5/8x2 1/4	6				Right HC End		10
			124-70-21170	5/8x3 1/4	4				Left HC End		10
D40P-1		2201-UP	**12F-70-11640** **124-70-11640**	5/8x2 1/4	8	16	152	1.199	Central Cutting Edge	2	18
D45P-1		1801-UP	**13F-A70-1580**	5/8x2 1/4	6				Right HC End		10
			13F-A70-1570	5/8x3 1/4	4				Left HC End		10
D40A-3	Straight	6001-UP	**12F-70-31261**	5/8x2 1/4	6	16	152	897	Central Cutting Edge		16
D41A-3	Straight Tilt		**12F-70-31251**	5/8x2 1/4	5	16	152	760	Central Cutting Edge	2	13
			120-70-31411RF	5/8x2 1/4	4	22	203	375	Side Cutting Edge		11
			120-70-31411RF	5/8x2 1/4	4				Right HC End		12
			120-70-31411L	5/8x2 1/4	4				Left HC End		12
D41E-3	Straight	6001-UP	**12F-70-31281**	5/8x2 1/4	8	16	152	1.218	Central Cutting Edge		21
	Straight Tilt		**12F-70-31251**	5/8x2 1/4	5	16	152	760	Central Cutting Edge	2	13
			120-70-31411	5/8x2 1/4	4	22	203	375	Side Cutting Edge		11

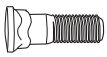
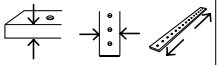
	Type	Series	Ref.	Inches	n°	mm.			Description	n°	KG
			120-70-31411R	5/8x2 1/4	4				Right HC End		12
			120-70-31411L	5/8x2 1/4	4				Left HC End		12
D40F-3	Straight	6221-UP	**12F-70-31281**	5/8x2 1/4	8	16	152	1.218	Central Cutting Edge		21
			12F-70-31251	5/8x2 1/4	5	16	152	760	Central Cutting Edge	2	13
			112-946-1510	5/8x2 1/4	4	16	152	370	Side Cutting Edge		5
			112-946-1510RHD	5/8x2 1/4	4				Right HC End		12
			112-946-1510LHD	5/8x2 1/4	4				Left HC End		12
D41A-3A	Angle Tilt	6001-UP	**12F-70-31261**	5/8x2 1/4	6	16	152	897	Central Cutting Edge	2	16
D40P-3	Straight	6001-UP	**12F-70-31251**	5/8x2	5	16	152	760	Central Cutting Edge	3	13
D41P-3	Straight Tilt		**112-946-1510**	5/8x2	4	16	152	370	Side Cutting Edge		5
D40P-3	Straight	6001-UP	**112-946-1510RHD**	5/8x2	4				Right HC End		12
D41P-3	Straight Tilt		**112-946-1510LHD**	5/8x2	4				Left HC End		12
D40P-3	Angle	6001-UP	**12F-70-31261**	5/8x2 1/4	6	16	152	897	Central Cutting Edge	3	16
			112-946-1510	5/8x2 1/4	4	16	152	370	Side Cutting Edge		5
			112-946-1510RHD	5/8x2 1/4	4				Right HC End		12
			112-946-1510LHD	5/8x2 1/4	4				Left HC End		12
D50A-15	Straight Tilt	35002-58999	**130-842-5120**	3/4	7	19	203	1.054	Central Cutting Edge	2	29
			130-842-5120HD	3/4	7	25	203	1.054	Central Cutting Edge	2	40
			140-70-11141/11180	3/4x3	6				Right HC End		18
			140-70-11131/11170	3/4x4 1/2	4				Left HC End		18
		59001-UP	**130-920-2180**	3/4	8	19	203	1.197	Central Cutting Edge	2	33
			130-920-2180HD	3/4	8	25	203	1.197	Central Cutting Edge	2	45
			140-70-11141/11180	3/4x3	6				Right HC End		18
			140-70-11131/11170	3/4x4 1/2	4				Left HC End		18
D53A-15		6001-UP	**130-70-41130**	3/4x2 3/4	9	19	203	1.349	Central Cutting Edge	2	38
			130-70-41130HD	3/4x2 3/4	9	29	25	203	Central Cutting Edge	2	51
			140-70-11180	3/4x4	4				Right HC End		18
			140-70-11170	3/4x2 3/4	6				Left HC End		18
D50A-SP-15	Angle Swamp	35002	**130-70-41130**	3/4x3	9	19	203	1.349	Central Cutting Edge	2	38
D50A-15 P-15	Angle Swamp	60107-UP	**130-70-41130HD**	3/4x3	9	25	203	1.349	Central Cutting Edge	2	51
D53A-15			**140-70-11141/11180**	3/4x3	6				Right HC End		18
D50S-15	Straight	35002-58999	**140-70-11131/11170**	3/4x4 1/2	4				Left HC End		18
D50A-16	Straight Tilt	65001	**130-Z20-1510**	3/4x2 3/4	8	19	203	1.254	Central Cutting Edge	2	35
D53A-16 /A	Straight		**130-Z20-1510HD**	3/4x2 3/4	8	25	203	1.254	Central Cutting Edge	2	48
D53A-16A			**140-70-11180**	3/4x2 3/4	6				Right HC End		18
D50F-16	Straight Tilt	69175	**140-70-11170**	3/4x4 1/2	4				Left HC End		18
D50A-16	Angle	65001-UP	**130-70-61170**	3/4x2 3/4	10	19	203	1.534	Central Cutting Edge	2	43
D53A-16	Angle Tilt		**130-70-61170HD**	3/4x2 3/4	10	25	203	1.534	Central Cutting Edge	2	58
D53A-16A			**140-70-11180**	3/4x4	4				Right HC End		18
D50F-16	Angle Tilt	69175-UP	**140-70-11170**	3/4x2 3/4	6				Left HC End		18
D50P-16	Straight Tilt	65001-UP	**13F-Z27-1510**	3/4x2 3/4	10	19	203	1.429	Central Cutting Edge	2	40
D50P-17	&	80001-UP	**13F-Z27-1510HD**	3/4x2 3/4	10	25	203	1.429	Central Cutting Edge	2	55
D53P-16	Straight	65280-UP	**13F-Z27-1571RF**	3/4x2 3/4	6	29	222	324	Straight Right End		15
D53P-17	Straight Tilt	80001-UP	**13F-Z27-1581RF**	3/4x4 1/2	4				Straight Left End		15
	Straight		**13F-Z27-1571**	3/4x2 3/4	6				Right HC End		17
			13F-Z27-1581	3/4x4 1/2	4				Left HC End		17
D50A-17	Straight Tilt	80001-UP	**130-Z20-1510**	3/4x2 3/4	8	19	203	1.254	Central Cutting Edge	2	35
D53A-17			**130-Z20-1510HD**	3/4x2 3/4	8	25	203	1.254	Central Cutting Edge	2	48
			144-70-11190	3/4x4	4				Right HC End		16
			144-70-11180	3/4x2 3/4	6				Left HC End		16

	Type	Series	Ref.	Inches 	n°	mm.			Description	n°	
D50A-17	Angle	80001-UP	**130-70-61170**	3/4x2 3/4	10	19	203	1.534	Central Cutting Edge	2	43
D53A-17	Angle Tilt		**130-70-61170HD**	3/4x2 3/4	10	25	203	1.534	Central Cutting Edge	2	58
			144-70-11190	3/4x4	4				Right HC End		16
			144-70-11180	3/4x2 3/4	6				Left HC End		16
D55S-2	Dozer	1007-UP	**130-70-41130**	3/4x2 3/4	9	19	203	1.349	Central Cutting Edge	2	38
	for shovel		**130-70-41130HD**	3/4x2 3/4	9	25	203	1.349	Central Cutting Edge	2	51
			140-70-11180	3/4x4	4				Right HC End		18
			140-70-11170	3/4x2 3/4	6				Left HC End		18
D60A	Angle		**140-70-11120**	5/8x2 1/4	10	16	152	1.448	Central Cutting Edge	2	21
D60E-3			**140-70-11140**	5/8x2 1/2	5	25	197	375	Straight Right End		11
			140-70-11130	5/8x2 1/2	5	25	197	375	Straight Left End		11
D60A-3			**140-920-1120**	3/4x3	8	19	203	1.235	Central Cutting Edge	2	35
			140-920-1120HD	3/4x3	8	25	203	1.235	Central Cutting Edge	2	47
D60A-3	Straight Tilt		**140-70-11121** **140-920-1121**	3/4x2 1/2	10	19	203	1.549	Central Cutting Edge	2	44
D60E-3			**140-920-1121HD**	3/4x2 1/2	10	25	203	1.549	Central Cutting Edge	2	63
D60P-3			**140-70-11180** **140-70-11141**	3/4x3	6				Right HC End		18
D-75A			**140-70-11170** **140-70-11131**	3/4x4 1/2	4				Left HC End		18
D60A-6	Angle	20006-UP	**144-70-11131**	3/4x3	11	19	203	1.658	Central Cutting Edge	2	47
D65A-6	Angle	20000-UP	**144-70-11131HD**	3/4x3	11	25	203	1.658	Central Cutting Edge	2	63
D60A-7 **D65A-7**	Angle	40001-UP	**140-70-11180** **140-70-11141**	3/4x3	6				Right HC End		18
D60E-7 **65E-7**			**140-70-11170** **140-70-11131**	3/4x4 1/2	4				Left HC End		18
D60A-6	Straight Tilt	20006-UP	**144-920-1120**	3/4x2 3/4	9	19	203	1.381	Central Cutting Edge	2	39
D65A-6	Straight Tilt	20000-UP	**144-920-1120HD**	3/4x2 3/4	9	25	203	1.381	Central Cutting Edge	2	52
D60A-7 **D65A-7**	Straight Tilt	40001-UP	**140-70-11180** **140-70-11141**	3/4x2 3/4	6				Right HC End		18
D60E-7 **65E-7**			**140-70-11170** **140-70-11131**	3/4x4 1/2	4				Left HC End		18
D60P-6	Straight Tilt	20006-UP	**144-70-11131**	3/4x2 3/4	11	19	203	1.658	Central Cutting Edge	2	47
D65P-6	Straight Tilt	30001-UP	**144-70-11131HD**	3/4x2 3/4	11	25	203	1.658	Central Cutting Edge	2	62
D60P-7 **D65P-7**	Straight Tilt	40001-UP	**13F-Z27-1571**	3/4x2 3/4	6				Right HC End		17
D60P-8 **D65P-8**	Straight Tilt	45001-UP	**13F-Z27-1581**	3/4x4 1/2	4				Left HC End		17
D60E-6			**144-87-15130**	3/4x2 1/2	11	25	254	1.594	Central Cutting Edge	2	75
			144-87-15130HD	3/4x2 1/2	11	32	254	1.594	Central Cutting Edge	2	94
			150-70-21346 /45	3/4x3 1/2	6				Right HC End		35
			150-70-21344 /43								
			150-70-21356/55	3/4x3 1/2	6				Left HC End		35
			150-70-21354/53								
D60P-6	Angle	20006-UP	**130-70-51130**	3/4	9	19	203	1.422	Central Cutting Edge	1	39
D65P-6	Angle	30001-UP	**130-920-2180**	3/4	8	19	203	1.197	Central Cutting Edge	2	33
D60P-7, **D65P-7**	Angle	40001-UP	**130-70-51130HD**	3/4	6	25	203	1.422	Central Cutting Edge	1	54
D60P-8, **D65P-8**	Angle	45001-UP	**130-920-2180HD**	3/4	8	25	203	1.197	Central Cutting Edge	2	45
D60P-6	Angle	20006-UP	**13F-Z27-1571RF**	3/4x3	6	29	222	324	Straight Right End		15
D65P-6	Angle	30001-UP	**13F-Z27-1581RF**	3/4x4 1/4	4	29	222	324	Straight Left End		15
D60P-7 **D65P-7**	Angle	40001-UP	**13F-Z27-1571**	3/4x 3	6				Right HC End		17
D60P-8 **D65P-8**	Angle	45001-UP	**13F-Z27-1581**	3/4x4 1/2	4				Left HC End		17
D60A-6	Angle Tilt	20006-UP	**154-70-11313/14**	3/4x3 1/4	8	25	254	1.156	Central Cutting Edge	2	55
D65A-6	Angle Tilt	20000-UP	**154-70-11313/14 HD**	3/4x3 1/4	8	32	254	1.156	Central Cutting Edge	3	69
D60E-6 **D65E-6**	Angle Tilt	20295-UP	**150-70-21345/46**	3/4x3 1/4	6				Right HC End		35

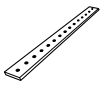
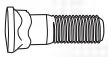
	Type	Series	Ref.	Inches 	nº	mm. 			Description	nº	
D60A-7 D60E-7	Angle Tilt	40001-UP	**150-70-21343/44**								
D65A-7P,			**150-70-21355/56**	3/4x3 1/4	6				Left HC End		35
65E-7			**150-70-21353/54**								
D60A-8	Angle	45001-UP	**144-70-11131**	3/4x2 1/2	11	19	203	1.658	Central Cutting Edge	2	47
D60E-8			**144-70-1131HD**	3/4x2 1/2	11	25	203	1.658	Central Cutting Edge	2	63
D65A-8			**144-70-11260**	3/4x3	6				Right HC End		16
D65E-8			**144-70-11250**	3/4x4 1/2	4				Left HC End		16
D60PL-7	Straight Tilt	40001-UP	**12F-70-31251**	5/8x2 1/4	5	16	152	760	Central Cutting Edge	5	13
D60PL-8		45001-UP	**13F-A70-1580**	5/8x2 1/4	6				Right HC End		10
			13F-A70-1570	5/8x3 1/2	4				Left HC End		10
D60A-8	Reinforced	45001-UP	**144-70-11131**	3/4x3	11	19	203	1.658	Central Cutting Edge	2	47
D60E-8	Angle		**144-70-11131HD**	3/4x3	11	25	203	1.658	Central Cutting Edge	2	63
D65A-8			**140-70-11180/141**	3/4x3	6				Right HC End		18
D65E-8			**140-70-11170/131**	3/4x4 1/2	4				Left HC End		18
	Straight Tilt	45001-UP	**144-920-1120**	3/4x2 3/4	9	19	203	1.381	Central Cutting Edge	2	39
			144-920-1120HD	3/4x2 3/4	9	25	203	1.381	Central Cutting Edge	2	52
			140-70-11180/141	3/4x2 3/4	6				Right HC End		18
			140-70-11170/131	3/4x4 1/2	4				Left HC End		18
	Angle Tilt	45001-UP	**154-70-11313/14**	3/4x3 1/4	8	25	254	1.156	Central Cutting Edge	3	55
			154-70-11313/14 HD	3/4x3 1/4	8	32	254	1.156	Central Cutting Edge	3	69
			150-70-21345/46	3/4x3 1/4	6				Right HC End		35
			150-70-21343/44								
			150-70-21355/56	3/4x3 1/4	6				Left HC End		35
			150-70-21353/54								
D80A D85A	Straight	10001-UP	**154-70-11313/14**	3/4x2 1/2	8	25	254	1.156	Central Cutting Edge	1	55
D85A-12	Straight Tilt		**154-81-11190/91**	3/4x2 1/2	6	25	254	837	Central Cutting Edge	2	40
D80A-18	Straight Tilt	25001-UP	**154-70-11313/14 HD**	3/4x2 1/2	8	32	254	1.156	Central Cutting Edge	1	69
D80E-18			**154-81-11190/91 HD**	3/4x2 1/2	6	32	254	837	Central Cutting Edge	2	50
D85A-18			**150-70-21345/46**	3/4x3 1/2	6				Straight Right End		35
D85E-18			**150-70-21343/44**								
			150-70-21355/56	3/4x3 1/2	6				Straight Left End		35
			150-70-21353/54								
D80A	Angle		**150-70-21311**	3/4x2 1/2	10	25	254	1.473	Central Cutting Edge	2	72
D80A-8			**150-70-21311 HD**	3/4x2 1/2	10	32	254	1.473	Central Cutting Edge	2	88
			150-70-21312/14	3/4x2 1/2	11	25	254	1.664	Central Cutting Edge	2	77
			150-70-21312/14 HD	3/4x2 1/2	11	32	254	1.664	Central Cutting Edge	2	100
			150-70-21342	3/4x3	6				Straight Right End		39
			150-70-21352	3/4x3	6				Straight Left End		39
D80A			**154-81-11190/91**	3/4x2 1/2	6	25	254	837	Central Cutting Edge	3	40
D85A			**154-81-11190/91 HD**	3/4x2 1/2	6	25	254	837	Central Cutting Edge	3	50
D80A-18	Angle	25001-UP	**154-70-11313/14**	3/4x2 1/2	8	25	254	1.156	Central Cutting Edge	3	55
D80E-18			**154-70-11313/14 HD**	3/4x2 1/2	8	32	254	1.156	Central Cutting Edge	3	69
D85A-18			**150-70-21345/46**	3/4x3 1/2	6				Straight Right End		35
D85E-18			**150-70-21343/44**								
D80P-18	Straight Tilt	2001-UP	**150-70-21355/56**	3/4x3 1/2	6				Straight Left End		35
D85P-18			**150-70-21353/54**								
D80A-12	"U"	15478-UP	**154-72-11121**	3/4x2 1/2	9	25	254	1.384	Central Cutting Edge		65
D80E-12			**154-72-11121HD**	3/4x2 1/2	9	32	254	1.384	Central Cutting Edge		81
D85A-12			**154-72-11150**	3/4x2 1/2	6	25	254	908	Side Cutting Edge		44
D85E-12			**154-72-11150HD**	3/4x2 1/2	6	32	254	908	Side Cutting Edge		54
			150-70-21345/46	3/4x3 1/2	6				Right HC End		35

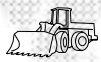
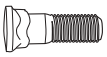
	Type	Series	Ref.	Inches 	n°	mm. 			Description	n°	KG lb
			150-70-21343/44								
			150-70-21355/56	3/4x3 1/2	6				Left HC End		35
			150-70-21353/54								
D120A-18	Angle		**175-70-11120/21**	3/4x3	13	25	254	1.927	Central Cutting Edge	2	93
D125A-18			**175-70-11120/21 HD**	3/4x3	13	32	254	1.927	Central Cutting Edge	2	116
			170-70-11195	3/4x3 1/2	7				Right HC End		33
			170-70-11185	3/4x3 1/2	7				Left HC End		33
D125A	Straight Tilt		**175-901-1130**	3/4x4 1/2	10	25	254	1.508	Central Cutting Edge	2	73
D125A-18			**175-901-1130HD**	3/4x4 1/2	10	32	254	1.508	Central Cutting Edge	2	90
			170-901-1233	3/4x4 1/2	7				Right HC End		44
			170-901-1223	3/4x4 1/2	7				Left HC End		44
D150A-1	Straight Tilt	5508-8328	**175-71-111240/41/42**	7/8x4	10	25	254	1.508	Central Cutting Edge	2	73
D155A-1	Straight Tilt	5508	**175-71-111240/41/42 HD**	7/8x4	10	32	254	1.508	Central Cutting Edge	2	91
		a	**175-71-11180/82-22281**	7/8x4	7				Right HC End		49
		10262	**175-71-11170/72-22271**	7/8x4	7				Left HC End		49
D150A-1	Straight Tilt	8329-UP	**175-70-26310**	7/8x3 1/2	7	25	254	1.062	Central Cutting Edge	3	51
D155A-1	Straight Tilt	10263-UP	**175-70-26310HD**	7/8x3 1/2	7	32	254	1.062	Central Cutting Edge	3	64
			175-71-22282	7/8x3 1/2	8				Right HC End		41
			175-71-22272	7/8x5	6				Left HC End		41
D150A-1	Angle	5513-8328	**175-70-21112/13/14**								
D155A-1	Angle	5513-10262	**175-70-21112/13/14 HD**								
			175-70-21133/35	7/8x3 1/2	7				Right HC End		35
			175-70-21123/25	7/8x3 1/2	7				Left HC End		35
D150A-1	Angle	8329-UP	**175-70-26310**	7/8x3	7	25	254	1.062	Central Cutting Edge	1	51
D155A-1	Angle	10263-UP	**175-70-21115**	7/8x3	9	25	254	1.397	Central Cutting Edge	2	68
			175-70-26310HD	7/8x3	7	32	254	1.062	Central Cutting Edge	1	64
			175-70-21115HD	7/8x3	9	32	254	1.397	Central Cutting Edge	2	85
			175-70-21136	7/8x3 1/2	7				Right HC End		43
			175-70-21126	7/8x3 1/2	7				Left HC End		43
D150A-1	"U"	6843-8328	**175/72/21120/21/22**	7/8x3	13	25	254	1.670	Central Cutting Edge	2	79
D155A-1		6843-10262	**175-70-21112/13/14 HD**	7/8x3	13	32	254	1.670	Central Cutting Edge	2	99
			175-72-21131/32/33	7/8x3	7	25	254	876	Side Cutting Edge		42
			175-72-21131/32/33 HD	7/8x3	7	32	254	876	Side Cutting Edge		53
			175-72-22250/51-21151	7/8x3 1/2	7						
			175-72-22240/41-21141	7/8x3 1/2	7						
D150A-1	"U"	8329-UP	**175-72-21123**	7/8x3	6	25	254	902	Central Cutting Edge	2	43
D155A-1		10263-UP	**175-72-21123HD**	7/8x3	6	32	254	902	Central Cutting Edge	2	54
			175-72-21123	7/8x3	6	25	254	902	Side Cutting Edge		43
			175-72-21123HD	7/8x3	6	32	254	902	Side Cutting Edge		54
			175-70-21136	7/8x3 1/2	7				Right HC End		43
			175-70-21126	7/8x3 1/2	7				Left HC End		43
D150A-1	Angle Tilt	6843-8407	**175-70-26310**	7/8x3 1/2	7	25	254	1.062	Central Cutting Edge	4	51
D155A-1		6843-15000	**175-70-26310HD**	7/8x3 1/2	7	32	254	1.062	Central Cutting Edge	4	64
			175-70-21333/35	7/8x3 1/2	7				Right HC End		35
			175/70/21123/25	7/8x3 1/2	7				Left HC End		35
D150A-1	Angle Tilt	8408-UP	**175-70-21115**	7/8x3	9	25	254	1.397	Central Cutting Edge	3	68
D155A-1		15001-UP	**175-70-21115HD**	7/8x3	9	32	254	1.397	Central Cutting Edge	3	85
			175-70-21136	7/8x3 1/2	7				Right HC End		43
			175-70-21126	7/8x3 1/2	7				Left HC End		43
D355A-1	Straight Tilt	1010-1121	**195-71-11651/53**	1x3 1/2	10	32	305	1.535	Central Cutting Edge	2	107
	Straight	1122-1631	**195-71-11651/53 HD**	1x3 1/2	10	38	305	1.535	Central Cutting Edge	2	128

	Type	Series	Ref.	Inches 	n°	mm. 			Description	n°	KG
			195-71-11180/81/82	1x3 1/2	7				Right HC End		74
			195-71-11170/71/72	1x3 1/2	7				Left HC End		74
D355A-1	Straight Tilt	1632-UP	**195-71-11654**	1 "	7	32	330	1.064	Central Cutting Edge	3	83
			195-71-11654HD	1 "	7	38	330	1.064	Central Cutting Edge	3	100
			195-71-11183	1 "	7				Right HC End		68
			195-71-11173	1 "	7				Left HC End		68
	Angle	1632-UP	**195-70-12492**	1 "	9	32	330	1.327	Central Cutting Edge	3	102
			195-70-12492HD	1 "	9	38	330	1.327	Central Cutting Edge	3	122
			195-70-12620	1 "	7				Right HC End		65
			195-70-12610	1 "	7				Left HC End		65
D355A-1	"U"	1010-1631	**195-72-11140/43**	1 "	13	32	305	1.975	Central Cutting Edge		137
			195-72-11140/43 HD	1	13	38	305	1.975	Central Cutting Edge		164
			195-72-1120/21	1 "	7				Right HC End		55
			195-72-11130/31	1 "	7				Left HC End		55
D355A-3	"U"	1632-UP	**195-72-11144**	1 "	6	32	330	879	Central Cutting Edge	2	67
			195-72-11144HD	1 "	6	38	330	879	Central Cutting Edge	2	81
			195-70-12620	1 "	7				Right HC End		65
			195-70-12610	1 "	7				Left HC End		65
D375A-1	Straight Tilt	15001-15207	**195-71-11654**	1 "	7	32	330	1.064	Central Cutting Edge	2	83
			195-71-51120	1 "	5	32	330	710	Central Cutting Edge	2	53
			195-71-11654HD	1 "	7	38	330	1.064	Central Cutting Edge	2	100
			195-71-51120HD	1 "	5	38	330	710	Central Cutting Edge	2	64
			195-70-12620	1 "	7				Right HC End		65
			195-70-12610	1 "	7				Left HC End		65
	"U" Tilt	15001-15217	**195-70-12492**	1 "	9	32	330	1.327	Central Cutting Edge	3	102
			195-70-12492HD	1 "	9	38	330	1.327	Central Cutting Edge	3	122
			195-71-51120	1 "	5	32	330	710	Side Cutting Edge		53
			195-71-51120HD	1 "	5	38	330	710	Side Cutting Edge		64
			195-70-12610	1 "	7				Right HC End		65
			195-70-12610	1 "	7				Left HC End		65
	Straight, Tilt Reinf. St. Tilt	15218-UP	**195-71-51651**	1 1/8x3 3/4	7	32	330	1.064	Central Cutting Edge	2	80
			195-71-51661	1 1/8x3 3/4	5	32	330	710	Central Cutting Edge	2	52
			195-71-51651HD	1 1/8x3 3/4	7	38	330	1.064	Central Cutting Edge	2	97
			195-71-51661HD	1 1/8x3 3/4	5	38	330	710	Central Cutting Edge	2	63
			195-71-51641	1 1/8x4 1/8	7				Right HC End		73
			195-71-51631	1 1/8x4 1/8	7				Left HC End		73
	"U"	15218-UP	**195-71-51671**	1 1/8x3 3/4	9	32	330	1.327	Central Cutting Edge	2	100
			195-71-51671HD	1 1/8x3 3/4	9	38	330	1.327	Central Cutting Edge	2	121
			195-71-51661	1 1/8x3 3/4	5	32	330	710	Side Cutting Edge		52
			195-71-51661HD	1 1/8x3 3/4	5	38	330	710	Side Cutting Edge		63
			195-71-51641	1 1/8x4 1/8	7				Right HC End		73
			195-71-51631	1 1/8x4 1/8	7				Left HC End		73
D455A-1	Semi U Tilt	1002-UP	**198-71-11181**	1 1/4x4	8	38	406	1.191	Central Cutting Edge	2	130
			198-71-11181HD	1 1/4x4	8	44	406	1.191	Central Cutting Edge	2	153
			198-72-11181	1 1/4x4	5	38	406	860	Side Cutting Edge		92
			198-72-11181HD	1 1/4x4	5	44	406	860	Side Cutting Edge		108
			198-72-11160	1 1/4x4	8				Right HC End		114
			198-72-11170	1 1/4x5 1/2	8				Left HC End		114
	"U" Tilt	1002-UP	**198-71-11181**	1 1/4x4	8	38	406	1.191	Central Cutting Edge	1	130
			198-72-11181	1 1/4x4	5	38	406	860	Central Cutting Edge	2	92
			198-71-11181HD	1 1/4x4	8	44	406	1.191	Central Cutting Edge	1	153

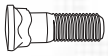
	Type	Series	Ref.	Inches 	nº	mm. 			Description	nº	
			198-72-11181HD	1 1/4x4	5	44	406	860	Central Cutting Edge	2	108
			198-71-11181	1 1/4x4	8	38	406	1.191	Side Cutting Edge		130
			198-71-11181HD	1 1/4x4	8	44	406	1.191	Side Cutting Edge		153
			198-72-11160	1 1/4x4	8				Right HC End		114
			198-72-11170	1 1/4x5 1/2	8				Left HC End		114
D475A-1	Straight Tilt	10001-UP	**198-71-21830**	1 3/8x4 1/2	8	38	406	1.191	Central Cutting Edge	2	127
			198-71-21840	1 3/8x4 1/2	5	38	406	860	Central Cutting Edge	2	90
			198-71-21830HD	1 3/8x4 1/2	8	44	406	1.191	Central Cutting Edge	2	151
			198-71-21840HD	1 3/8x4 1/2	5	44	406	860	Central Cutting Edge	2	106
			198/71-21820/21	1 3/8x5 3/8	4				Right HC End		112
			198-71-21810/11	1 3/8x5 3/8	4				Left HC End		112
	"U" Tilt	10001-UP	**198-71-21830**	1 3/8x4 1/2	8	38	406	1.191	Central Cutting Edge	1	127
			198-71-21840	1 3/8x4 1/2	5	38	406	860	Central Cutting Edge	2	90
			198-71-21830HD	1 3/8x4 1/2	8	44	406	1.191	Central Cutting Edge	1	151
			198-71-21840HD	1 3/8x4 1/2	5	44	406	860	Central Cutting Edge	2	106
D475A-1	"U" Tilt	10001-UP	**198-71-21830**	1 3/8x4 1/2	8	38	406	1.191	Side Cutting Edge		127
			198-71-21830HD	1 3/8x4 1/2	8	44	406	1.191	Side Cutting Edge		151
			198/71-21820/21	1 3/8x5 3/8					Right HC End		112
			198-71-21810/11	1 3/8x5 3/8					Left HC End		112

Loader Bolt-On Cutting Edges

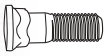
	Series		Type	nº		nº		nº		nº
WA70-1	10001 -	**415-815-1110**	Central	1	02090-11060	11	02290-11016	11	01643-31645	11
		415-815-1120	Lateral	2						
WA100-1	10001-19999	**416-815-1110**	Central	1	02090-11275	8	02290-11219	8	01643-32060	8
		416-815-1120	Lateral	2						
	20001-	**416-815-1210***	Central	1						
		416-815-1220*	Lateral	2						
		416-816-1310**	Central	1						
		416-816-1320**	Lateral	2						
WA-120-1	10001-	**416-816-1310**	Central	1	02090-11275	8	02290-11219	8	01643-32060	8
		416-816-1320	Lateral	2						
WA-120-3	50001-	**416-815-1310**	Central	1	02090-11275	8	02290-11219	8	01643-32060	8
		416-815-1320	Lateral	2						
WA150-1	10001-19999	**416-815-1110**	Central	1	02090-11275	8	02290-11219	8	01643-32060	8
		416-815-1120	Lateral	2						
	20001-	**416-815-1310**	Central	1						
		416-815-1320	Lateral	2						
WA180-1	10001-	**417-815-1210**	Central	1	02090-11475	8	02290-11422	8	01643-32260	8
		417-815-1220	Lateral	2						
WA180-3	50001-	**417-815-1210**	Central	1	02090-11475	8	02290-11422	8	01643-32260	8
		417-815-1220	Lateral	2						
WA200-1	100001-19999	**417-815-1120**	Central	1	02090-11475	8	02290-11422	8	01643-32260	8
		418-815-1110	Lateral	2						
	20001-	**417-815-1210**	Central	1						
		417-815-1220	Lateral	2						
WA250-1	10001-	**418-815-1211**	Central	1	02090-11685	8	02290-11625	8	01643-22460	8
		418-815-1221	Lateral	2						
WA250-3	50001-	**418-815-1211**	Central	1	02090-11685	8	02290-11625	8	01643-22460	8
		418-815-1221	Lateral	2						
WA300-1	10001-19999	**419-815-1110**	Central	1	02090-11685	8	02090-11685	8	01643-22460	8
		419-815-1120	Lateral	2						
	20001-	**418-815-1211**	Central	1						
		418-815-1221	Lateral	2						
WA320-1	10001-	**419-815-1211**	Central	1	02090-11685	8	02090-11625	8	01643-22460	8
		418-815-1221	Lateral	2						
WA320-3	50001-	**418-815-1211**	Central	1	02090-11685	8	02090-11625	8	01643-22460	8
		418-815-1221	Lateral	2						
WA-350-1	10001-	**423-815-1110**	Central	1	02090-11490	14	02290-11422	14	01643-32260	14
		423-815-1120	Lateral	2						
WA380-1	10001-19999	**423-815-1210**	Central	1	02090-11490	14	02290-11422	14	01643-32260	14
		423-815-1220	Lateral	2						
	20001	**423-815-1211**	Central	1						
		423-815-1221	Lateral	2						
WA380-3	50001-	**424-815-1111**	Central	1	02090-11485	14	02290-11422	14	01643-32260	14
		424-815-1131	Lateral	2						
WA400-1	10001-	**424-815-1111**	Central	1	02090-11485	14	02290-11422	14	01643-32260	14
		424-815-1131	Lateral	2						
WA420-1	10001-	**424-815-1211**	Central	1	02090-11485	14	02290-11422	14	01643-32260	14
		421-815-1221	Lateral	2						

	Series		Type	n°		n°		n°		n°
WA420-3	50001-	**424-815-1211**	Central	1	02090-11485	16	02290-11422	16	01643-32260	16
		421-815-1221	Lateral	2						
WA450-1	10001-	**421-815-1111**	Central	1	02090-11485	16	02290-11422	16	01643-32260	16
		421-815-1131	Lateral	2						
WA470-1	10001-	**421-815-1211**	Central	1	02090-11485	16	02290-11422	16	01643-32260	16
		421-815-1221	Lateral	2						
WA470-3	50001-	**421-815-1211**	Central	1	02090-11485	16	02290-11422	16	01643-32260	16
		421-815-1221	Lateral	2						
WA500-1	10001-19999	**425-815-1110**	Central	1	02091-11605	16	02290-11625	16	01643-32780	16
		425-815-1120	Lateral	2						
	20001-	**425-815-1310**	Central	1						
		425-815-1320	Lateral	2						
	10001-	**4215-815-1510**	Central	1						
		425-815-1520	Lateral	2						
WA-600-1	10001-	**426-815-1110**	Central	1	02091-12030	16	02290-12031	16	01643-33380	16
		426-815-1120	L.H.	2						
		426-815-1130	R.H.	2						

Loader Multi-Purpose Bucket Edge

	Serie	Ref.	nº		nº		nº		nº
WA70-1	10001-	**415-823-1311**	1	02090-10840	13	02290-10813	13	01643-31445	13
		415-823-1321	2						
WA100-1	10001-	**417-823-1310**	1	02090-11045	16	02290-11016	16	01643-31645	16
		418-823-1320	2						
WA-120-3	50001-	**417-823-1310**	1	02090-11045	16	02290-11016	16	01643-31645	16
		418-823-1320	2						
WA-150-1	10001-	**417-823-1310**	1	02090-11045	16	02290-11016	16	01643-31645	16
		417-823-1320	2						
WA180-1	10001-	**418-823-1310**	1	02090-11045	16	02290-11016	16	01643-31645	16
		418-823-1320							
WA180-3	50001-	**418-823-1310**	1	02090-11045	16	02290-11016	16	01643-31645	16
		418-823-1320	2						
WA200-1	10001-	**418-823-1310**	1	02090-11045	16	02290-11016	16	01643-31645	16
		418-823-1320	2						
WA300-1	10001-	**419-823-1310**	1	02090-11260	18	02290-11219	18	01643-32060	18
		423-823-1320	2						
WA350-1	10001-	**423-823-1310**	1	02090-11260	18	02290-11219	18	01643-32060	18
		423-823-1320	2						

Loader Segments

	Serie	Ref.	nº		nº		nº		nº
WA250-1	10001-	**419-838-1110**	5	02090-11690	14	02290-11625	14	01643-22460	14
		421-838-1110	2						
WA300-1	10001-	**419-838-1120**	5	02090-11690	14	02290-11625	14	01643-22460	14
		421-838-1110	2						
WA320-1	10001-	**419-838-1110**	5	02090-11690	14	02290-11625	14	01643-22460	14
		418-823-1320	2						
WA380-1	10001-	**421-838-1110**	7	02091-11600	14	02290-11625	14	01643-22460	14
WA420-1	10001-	**421-838-1120**	2	02091-11600	16	02290-11625	16	01643-22460	16
		421-838-1110	6						
WA450-1	10001-	**421-838-1120**	2	02091-11600	16	02290-11625	16	01643-22460	16
		418-823-1320	6						
WA470-1	10001-	**421-838-1120**	2	02091-11600	16	02290-11625	16	01643-22460	16
		421-838-1110	6						
WA470-3	50001-	**421-838-1120**	2	02091-11600	16	02290-11625	16	01643-22460	16
		423-823-1320	2						
WA500-1	10001-	**421-838-1110**	1	02091-12015	14	02290-12031	14	01643-33380	14

Hardness-strength Conversion

Hardness **Rockwell**		Hardness **Vickers**	Hardness **Brinell**	PSI	Resistance Kg/mm^2
HRB	HRC	HV	HB		
		245	229	113,500	80
-	22	250	235	116,000	82
-	23	256	241	119,000	84
-	24	263	244	120,500	85
-	25	270	248	122,000	86
-	26	275	255	126,000	89
-	27	281	262	129,000	91
-	28	283	269	133,000	94
-	29	295	277	138,000	97
-	30	302	285	142,000	100
-	31	310	294	146,000	103
-	32	316	299	147,500	104
-	33	325	302	150,000	106
-	34	334	311	154,500	109
-	35	341	321	159,000	112
-	36	350	331	163,000	115
-	37	360	341	168,500	119
-	38	370	352	174,500	123
-	39	380	363	180,000	127
-	40	390	376	185,500	131
-	41	401	388	192,500	136
-	42	414	394	195,500	138
-	43	426	401	198,500	140
100	44	439	415	205,000	145
-	45	450	429	212,000	150
-	46	465	436	215,000	152
-	47	472	444	220,000	155
-	48	492	461	228,000	161
-	49	508	477	237,000	167
-	50	525	486	251,000	170
-	51	540	496	253,000	175
-	52	560	512	262,000	180
-	53	575	525	269,000	183
-	54	595	543	278,000	187
-	55	610	560	287,000	-
-	56	630	577	295,000	-
-	57	650	595	305,000	-
-	58	670	615	315,000	-
-	59	690	634	325,000	-
-	60	720	654	-	-
-	61	740	670	-	-
-	62	760	688	-	-
-	63	785	705	-	-
-	64	-	722	-	-
-	65	-	739	-	-

Dimension Conversion

Inch	mm.	Decimals "	cm.	Inch
1/64	0,397	0,0156	0,05	0,0197
1/32	0,794	0,0313	0,10	0,0394
1/16	1,588	0,0625	0,15	0,0591
3/32	2,382	0,0938	0,20	0,0787
1/8	3,175	0,1250	0,25	0,0984
5/32	3,970	0,1563	0,30	0,1181
3/16	4,763	0,1875	0,35	0,1378
7/32	5,556	0,2188	0,40	0,1575
1/4	6,350	0,2500	0,45	0,1772
9/32	7,144	0,2813	0,50	0,1969
5/16	7,938	0,3125	0,55	0,2165
11/32	8,732	0,3438	0,60	0,2362
3/8	9,525	0,3750	0,65	0,2559
13/32	10,319	0,4063	0,70	0,2756
7/16	11,113	0,4375	0,75	0,2953
15/32	11,906	0,4688	0,80	0,3150
1/2	12,700	0,5000	0,85	0,3346
17/32	13,494	0,5313	0,90	0,3543
9/16	14,288	0,5625	0,95	0,3740
19/32	15,081	0,5938	1	0,3937
5/8	15,875	0,6250	2	0,7874
21/32	16,669	0,6563	3	1,1811
11/16	17,463	0,6875	4	1,5748
23/32	18,256	0,7187	5	1,9685
3/4	19,050	0,7500	6	2,3622
25/32	19,844	0,7813	7	2,7559
13/16	20,638	0,8125	8	3,1496
27/32	21,481	0,8457	9	3,5433
7/8	22,225	0,8750	10	3,9370
29/32	23,019	0,9063	20	7,8740
15/16	23,813	0,9375	30	11,8110
31/32	24,606	0,9687	40	15,7480
1	25,400	1,0000	50	19,6850

Dimensions

1 Inch = 25,4 mm.	**1 Yard** = 91,44 cm.
1 Inch = 2,54 cm.	**1 Yard** = 0,9144 m.
1 Foot = 30,48 cm.	**1 Mile** = 1609,3 m.
1 Foot = 0,3048 m.	**1 Mile** = 1,6093 Km.

Weight

1 Ounce = 28,3 gr.	**10 Pounds** = 4,5359 Kg.
1 Pound = 453,5 gr.	**1 Ton U.S.A.** = 907,18 Kg.

Pounds	Grams	Kilogram
0,2	90,7185	0,0907
0,4	181,4370	0,1814
0,6	272,1555	0,2722
0,8	362,8740	0,3629
1	453,5925	0,4536
2	907,1850	0,9072
3	1360,7775	1,3608
4	1814,3700	1,8144
5	2267,9625	2,2680

Cutting Tools

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picks, RP Series 86" (22 mm) **1.4**
Blocksystem **1.5**
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Picks - RP Series 1" (25,4 mm) **1.11**
Picks - TS Series 1,12" (29 mm) **1.12**
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Warranty

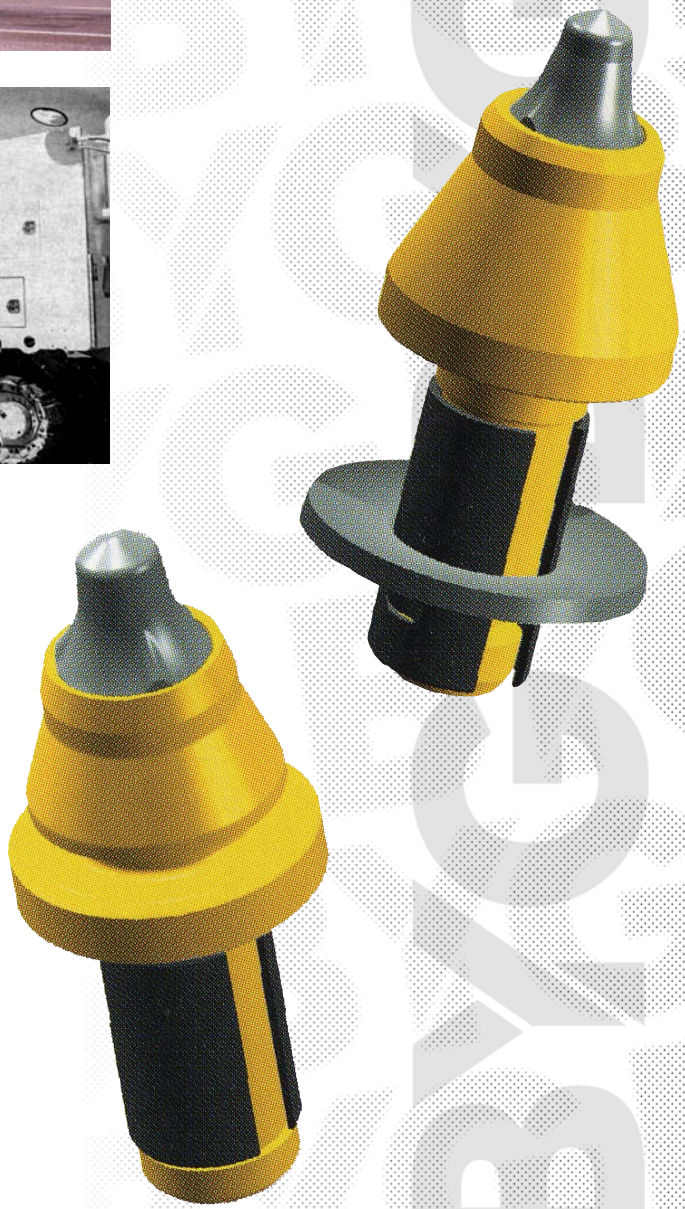
In the unlikely event of any of our products failing during normal operation, we will supply a new replacement free of charge.

Bold ref. number, product available

Other ref. number please consult.

Cutting Tools

Milling Machines



Picks for Asphalt Milling Machine - RP Series 76" (20 mm)

Fig A1

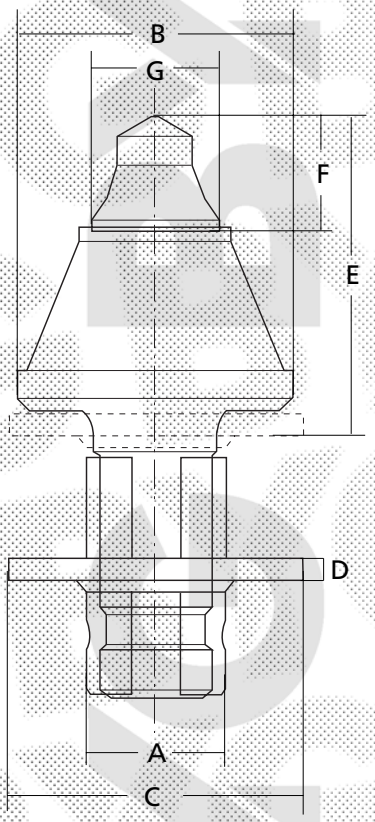


Fig A3

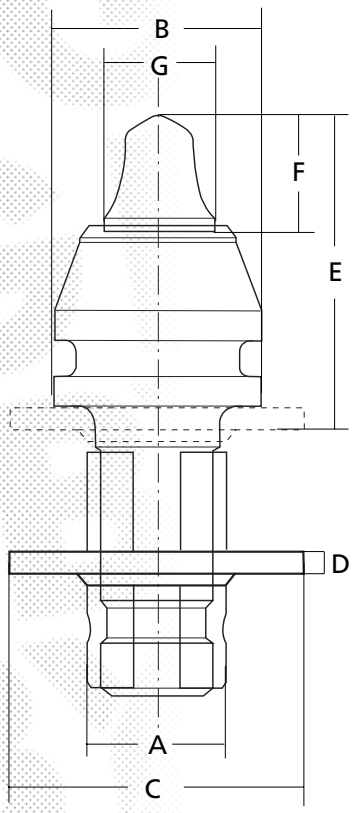
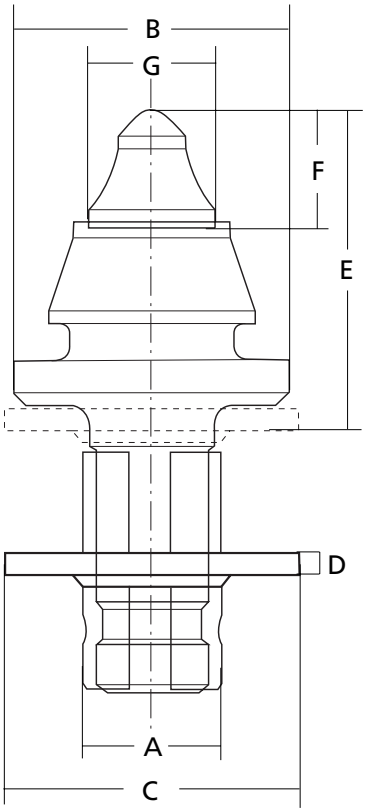


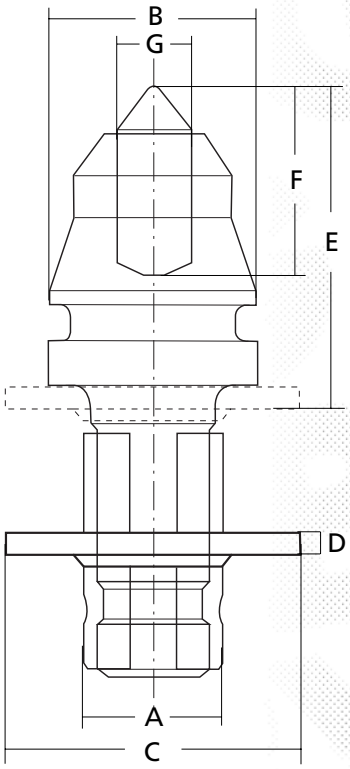
Fig A2



mm										
A	B	C	D	E	F	G	Ref	**Fig.**		Machine
19,80 *0,78*	31,80 *1,25*	44,40 *1,75*	3,50 *0,14*	48,90 *1,93*	16,30 *0,64*	15,90 *0,63*	**BRP18**	**A3**		Small Machine Drum 300 - 1000 mm.
19,80 *0,78*	41,90 *1,65*	44,40 *1,75*	3,50 *0,14*	48,90 *1,93*	17,02 *0,67*	17,50 *0,69*	*BRP01*	**A1**		
19,80 *0,78*	41,90 *1,65*	44,40 *1,75*	3,50 *0,14*	48,30 *1,90*	17,50 *0,69*	18,70 *0,74*	*BRP14*	**A2**		Medium Machine Drum 1000 - 1900 mm.
19,80 *0,78*	31,80 *1,25*	44,40 *1,75*	3,50 *0,14*	48,30 *1,90*	17,50 *0,69*	18,70 *0,74*	**BRP24**	**A3**		
19,80 *0,78*	31,80 *1,25*	44,40 *1,75*	3,50 *0,14*	48,00 *1,89*	16,30 *0,64*	17,50 *0,69*	**BRP28**	**A3**	50	
19,80 *0,78*	41,90 *1,65*	44,40 *1,75*	3,50 *0,14*	51,00 *2,01*	20,30 *0,80*	18,70 *0,74*	*BRP16*	**A2**		
19,80 *0,78*	41,90 *1,65*	44,40 *1,75*	3,50 *0,14*	48,30 *1,90*	21,30 *0,84*	19,00 *0,75*	**BRP19**	**A1**		Big Machine Drum 2000 - 2200 mm.
19,80 *0,78*	31,80 *1,25*	44,40 *1,75*	3,50 *0,14*	48,30 *1,90*	19,00 *0,75*	18,70 *0,74*	*BRP25*	**A3**		

Picks for Concrete Milling Machine - RP Series 76" (20 mm)

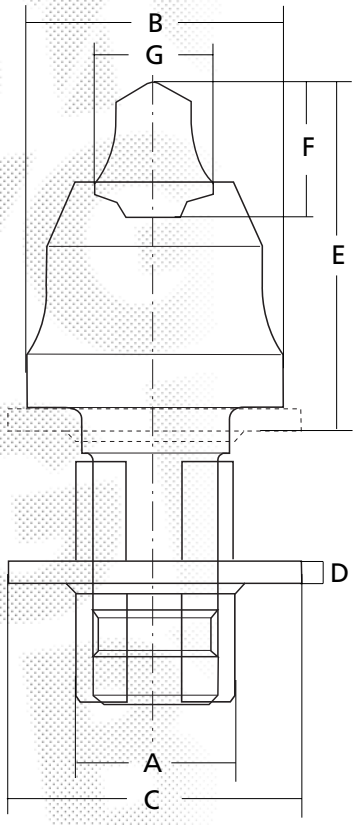
Fig A4



A	B	C	D	E	F	G	Ref.	Fig.		Machine
18,80 *0,74*	31,80 *1,25*	44,40 *1,75*	3,50 *0,14*	48,60 *1,91*	27,40 *1,08*	12,20 *0,48*	**BRP21**	**A4**	50	Holder 19 mm.
19,80 *0,78*	31,80 *1,25*	44,40 *1,75*	3,50 *0,14*	48,90 *1,93*	26,20 *1,03*	9,20 *0,36*	*BRP22*	**A4**		

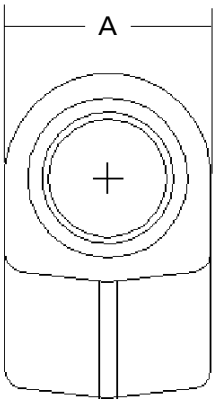
Picks for Recycling Machines - RP Series 86" (22 mm)

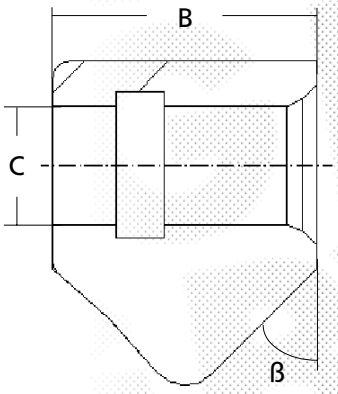
Fig D1



A	B	C	D	E	F	G	Ref.	Fig.		Machine
22,40 *0,88*	38,10 *1,50*	43,90 *1,73*	3,50 *0,14*	52,15 *2,05*	19,43 *0,76*	12,22 *0,48*	*BSR02*	**D1**	50	Holder 22 mm.
22,40 *0,88*	38,10 *1,50*	43,90 *1,73*	3,50 *0,14*	52,30 *2,06*	21,30 *0,84*	19,10 *0,75*	**BSR03**	**D1**		

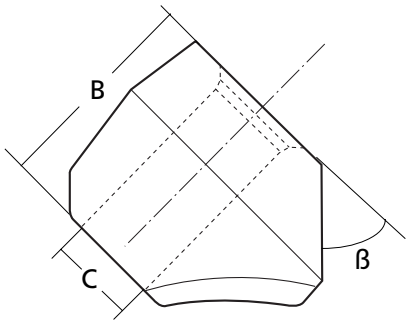
Blocksystem - RP Series 76" (20 mm)

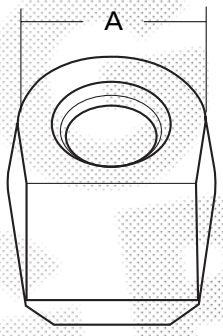




A	B	C	ß	Ref.		Utility
35,05 *1,38*	44,20 *1,74*	19,94 *0,79*	45 °	**BC10**	60	Holder 19 mm

Blocksystem - RP Series 86" (22 mm)



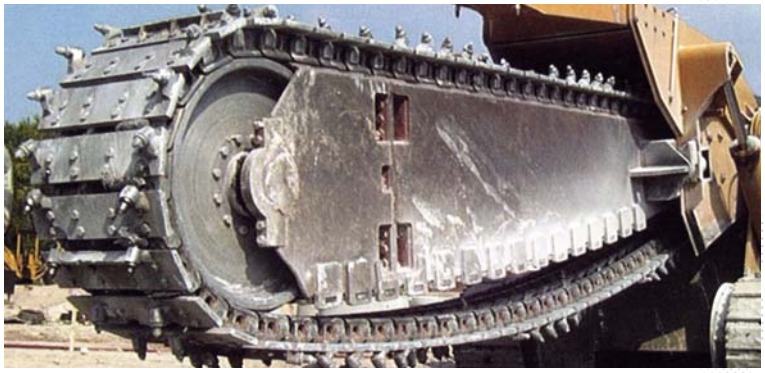


A	B	C	ß	Ref.		Utility
41,15 *1,62*	46,99 *1,85*	22,35 *0,88*	45 °	**BC87HDS**	25	Holder 22 mm

Bold ref. number, product available

Other ref. number please consult.

Cutting Tools



Trenching & Engineering

Picks - RP Series 76" (20 mm)

Fig C3

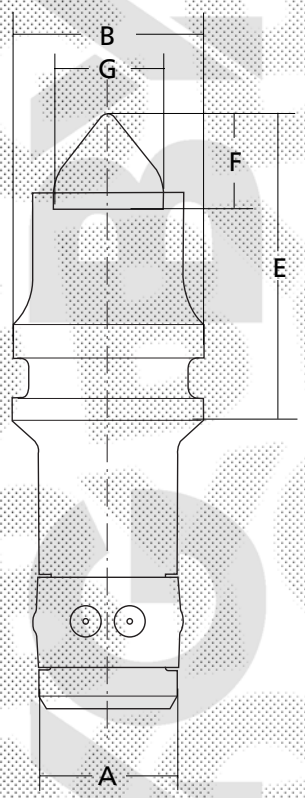


Fig C1

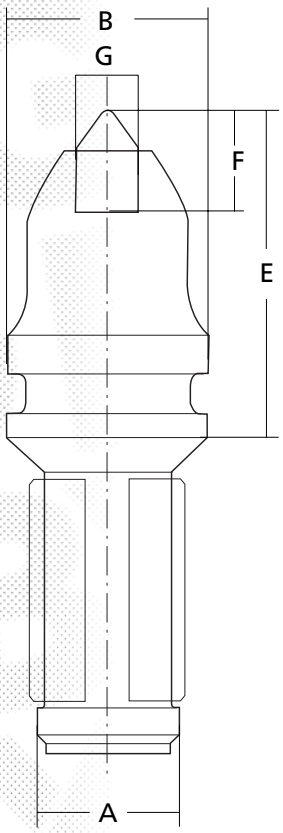
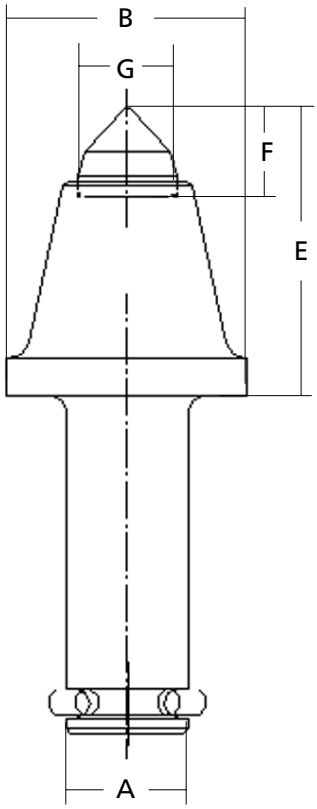


Fig J1



mm									Block		
A	B	C	D	E	F	G	Ref.	**Fig.**			Machine
19,40 *0,76*	38,10 *1,50*	- -	- -	45,33 *1,78*	13,46 *0,53*	15,88 *0,63*	**BC3R**	**J1**	1012120	60	Holder 19 mm.
19,40 *0,76*	26,90 *1,06*	- -	- -	45,33 *1,78*	18,03 *0,71*	12,22 *0,48*	**BRL07**	**C1**	-	70	
19,40 *0,76*	26,90 *1,06*	- -	- -	43,07 *1,70*	13,46 *0,53*	26,97 *1,06*	**BC3LR**	**C1**	-	100	
19,40 *0,76*	26,90 *1,06*	- -	- -	44,67 *1,76*	18,03 *0,71*	12,22 *0,48*	*BRL10*	**C3**	-	75	

Picks - RP Series 76" (20 mm)

Fig B5

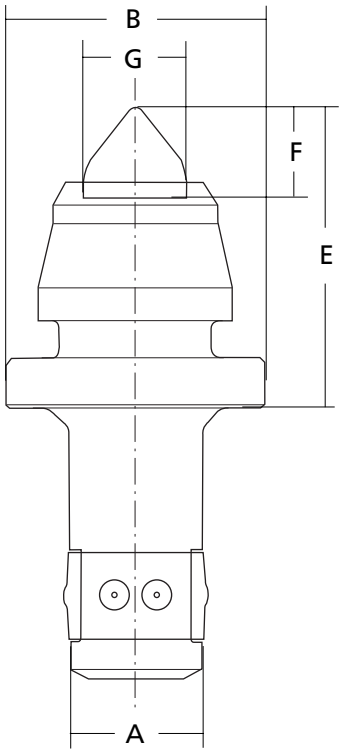
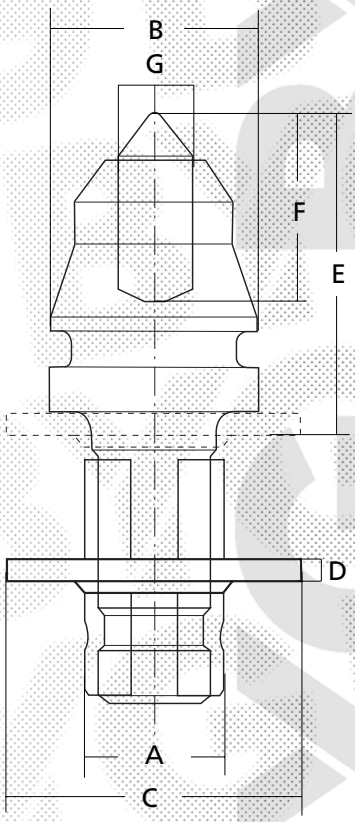


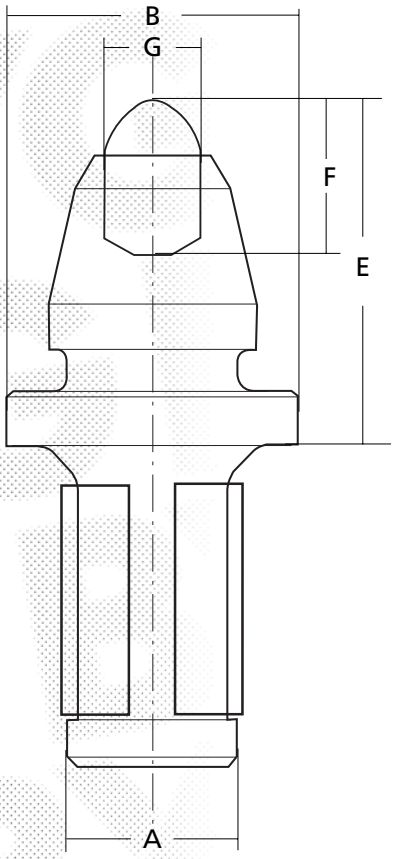
Fig A4



mm										
A	B	C	D	E	F	G	Ref.	**Fig.**		Machine
19,40 *0,76*	38,10 *1,50*	- -	- -	45,70 *1,80*	19,90 *0,78*	12,20 *0,48*	*BRS16*	**B5**	50	
19,80 *0,78*	31,80 *1,25*	44,40 *1,75*	3,50 *0,14*	48,60 *1,91*	27,40 *1,08*	12,20 *0,48*	**BRP21**	**A4**	50	Holder 19 mm.
19,80 *0,78*	31,80 *1,25*	44,40 *1,75*	3,50 *0,14*	48,60 *1,91*	26,20 *1,03*	9,20 *0,36*	*BRP22*	**A4**	50	

Picks - RP Series 86" (22 mm)

Fig E1



A	B	C	D	E	F	G	Ref.	Fig.		Machine
22,40 *0,88*	38,10 *1,50*	- -	- -	45,70 *1,80*	20,37 *0,80*	38,10 *1,50*	**BSM06**	**E1**	50	Holder 22 mm.

Picks - RP Series 1" (25,4 mm)

Fig G1

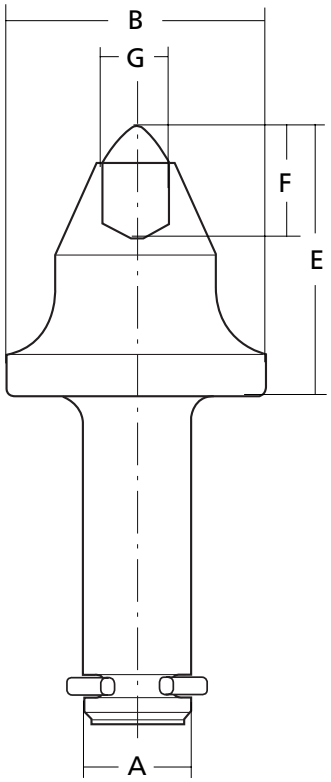


Fig I2

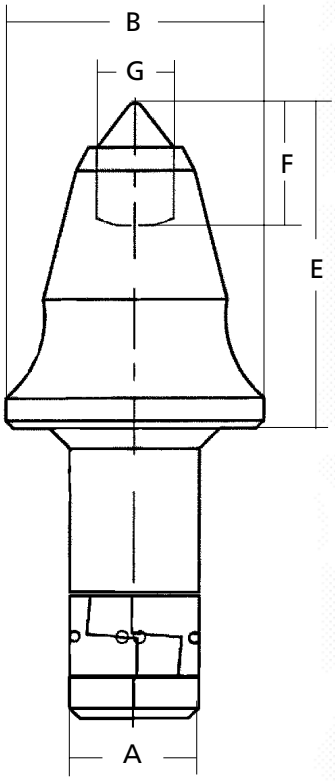


Fig H1

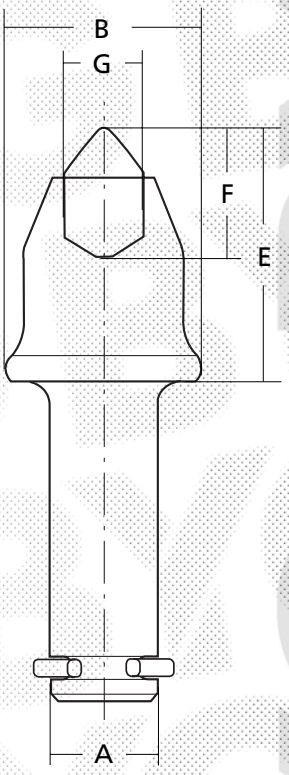
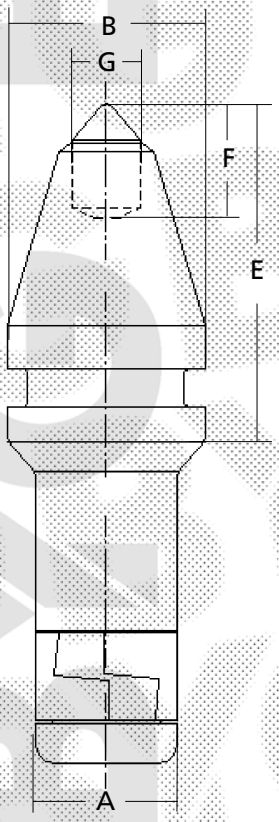


Fig I1



mm									Blocks			
A	B	C	D	E	F	G	Ref.	Fig.				Machine
25,15 *0,99*	60,96 *2,40*	- -	- -	63,50 *2,50*	28,16 *1,11*	14,99 *0,59*	**BT5**	**G1**	1012065	-	18	
25,15 *0,99*	60,96 *2,40*	- -	- -	63,50 *2,50*	32,26 *1,27*	19,30 *0,76*	**BT11**	**G1**	-	1900186	18	
25,15 *0,99*	60,96 *2,40*	- -	- -	76,20 *3,00*	32,26 *1,27*	19,30 *0,76*	*BT12*	**G1**		1900186	18	
25,15 *0,99*	46,74 *1,84*	- -	- -	60,45 *2,38*	30,23 *1,19*	18,80 *0,74*	*BC34R*	**H1**	1012065	-	15	
25,15 *0,99*	46,74 *1,84*	- -	- -	64,52 *2,54*	26,15 *1,03*	16,00 *0,63*	*BC35R*	**H1**	1012065	-	15	Holder 25 mm
25,15 *0,99*	33,27 *1,31*	- -	- -	61,98 *2,44*	17,53 *0,69*	9,14 *0,36*	**BC31**	**I1**	-	-	25	
25,15 *0,99*	33,27 *1,31*	- -	- -	60,71 *2,39*	21,84 *0,86*	12,22 *0,48*	**BC31HD**	**I1**	-	-	40	
25,15 *0,99*	38,10 *1,50*	- -	- -	67,56 *2,66*	28,16 *1,11*	14,99 *0,59*	*BU40HD*	**I1**	-	-	25	
25,15 *0,99*	50,00 *1,97*	- -	- -	63,50 *2,50*	23,88 *0,94*	14,99 *0,59*	**BB40HDS50**	**I2**	-	-	30	

Picks - TS Series 1,12" (29 mm)

Fig F1

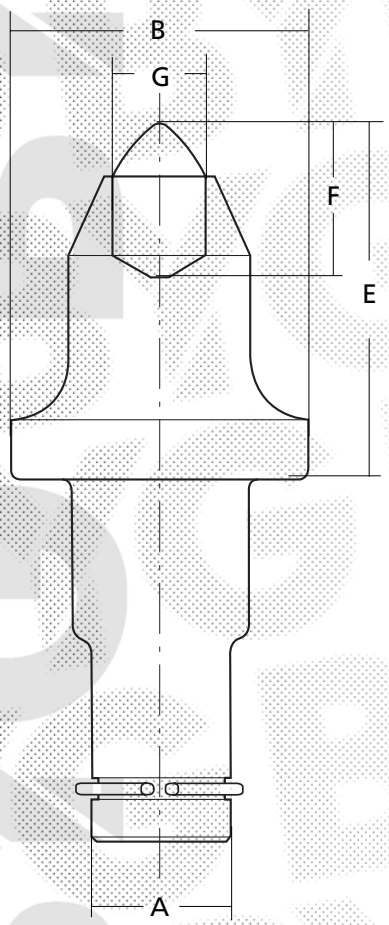
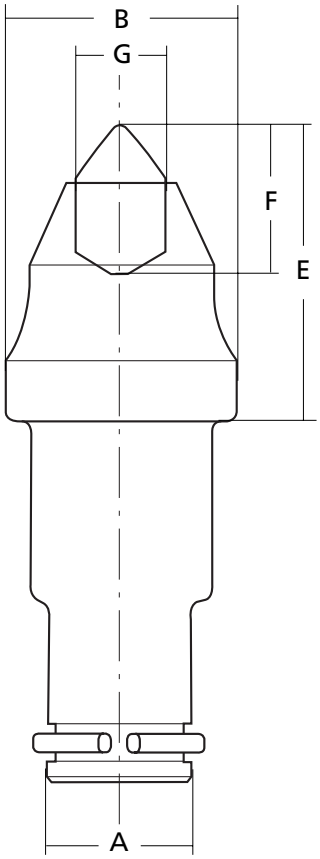
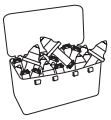
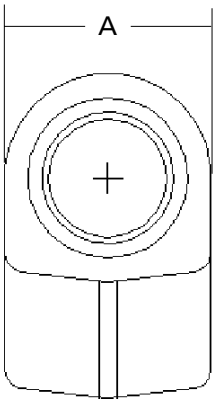


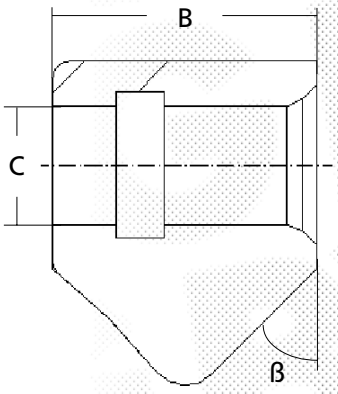
Fig F3



mm									Block		
A	B	C	D	E	F	G	Ref.	**Fig.**			Machine
29,46 *1,16*	63,50 *2,50*	- -	- -	63,50 *2,50*	32,26 *1,27*	19,30 *0,76*	**BTS5**	**F1**		15	
29,46 *1,16*	63,50 *2,50*	- -	- -	76,20 *3,00*	32,26 *1,27*	19,30 *0,76*	**BTS7**	**F1**		14	
29,46 *1,16*	63,50 *2,50*	- -	- -	63,50 *2,50*	36,83 *1,45*	21,84 *0,86*	*BTS9*	**F1**		15	
29,46 *1,16*	63,50 *2,50*	- -	- -	76,20 *3,00*	36,83 *1,45*	21,84 *0,86*	*BTS10*	**F1**	1011979	14	Holder 30 / 38 mm.
29,46 *1,16*	63,50 *2,50*	- -	- -	63,50 *2,50*	39,37 *1,55*	24,64 *0,97*	*BTS12*	**F1**		10	
29,46 *1,16*	63,50 *2,50*	- -	- -	76,20 *3,00*	39,37 *1,55*	24,64 *0,97*	*BTS13*	**F1**		10	
29,46 *1,16*	47,75 *1,88*	- -	- -	30,23 *1,19*	30,23 *1,19*	18,80 *0,74*	**BC7**	**F3**		15	

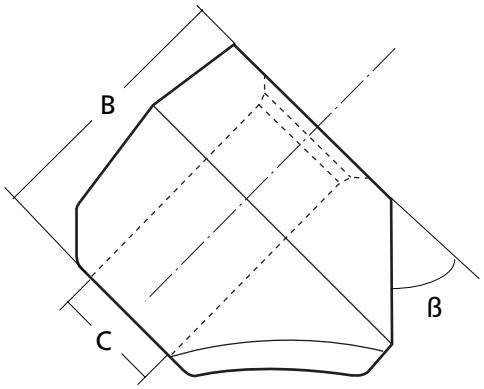
Blocksystem - RP series 76" (20 mm)

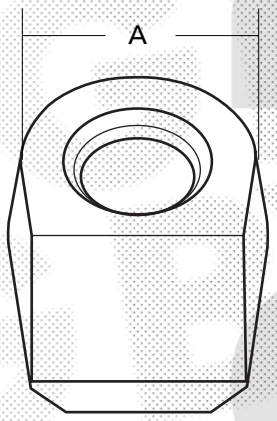




A	B	C	ß	Ref.		Utility
35,05 *1,38*	44,20 *1,74*	19,94 *0,79*	45 °	**BC10**	60	Holder 19 mm.

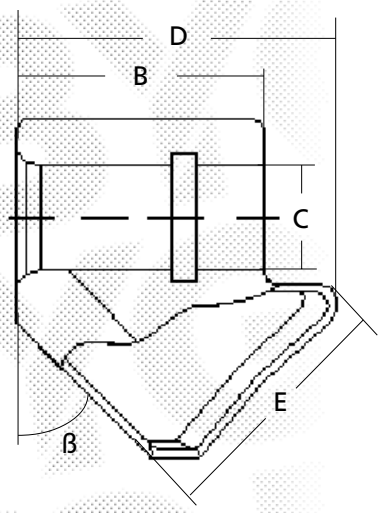
Blocksystem - RP series 86" (22 mm)

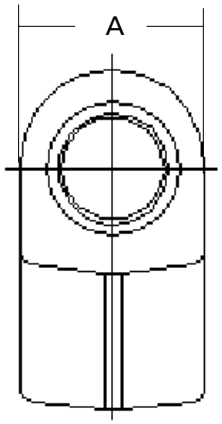




A	B	C	ß	Ref.		Utility
35,05 *1,38*	44,20 *1,74*	19,94 *0,79*	45 °	**BC87HDS**	25	Holder 22 mm.

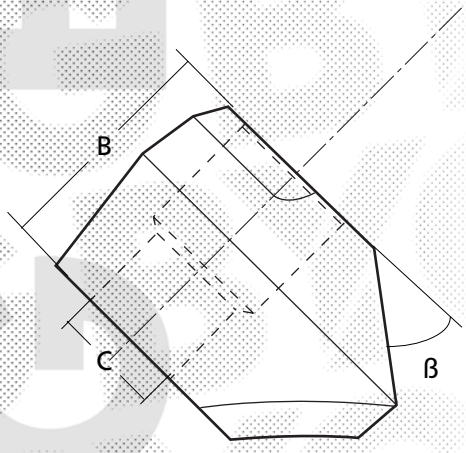
Blocksystem - RP series 1" (25,4 mm)

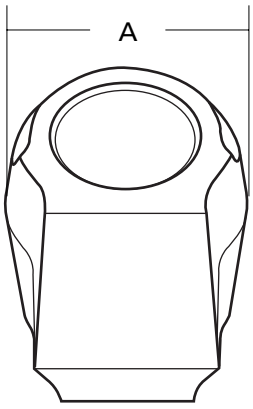




A	B	C	D	E	ß	Ref.		Utility
44,00 *1,73*	61,00 *2,40*	25,60 *1,01*	79,00 *3,11*	62,00 *2,44*	45 °	**BC30**	20	Holder 25 mm.

Blocksystem - TS series 1,12" (29 mm)





mm						
A	B	C	ß	Ref.		Utility
66,55 *2,62*	64,26 *2,53*	30,23 *1,19*	45 °	**BC4**	20	Holder 30 / 38 mm.

Bold ref. number, product available

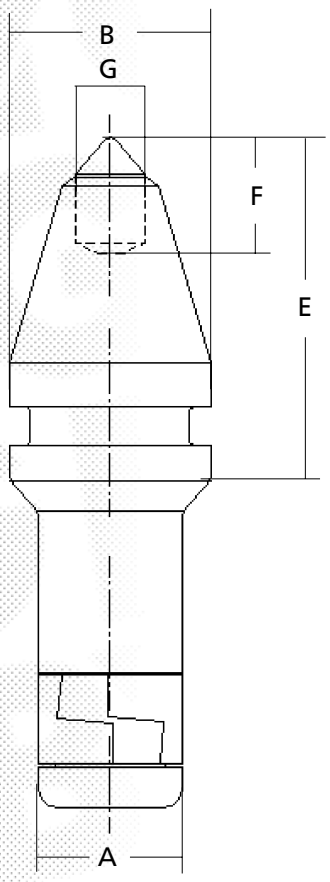
Other ref. number please consult.

Cutting Tools

Drilling

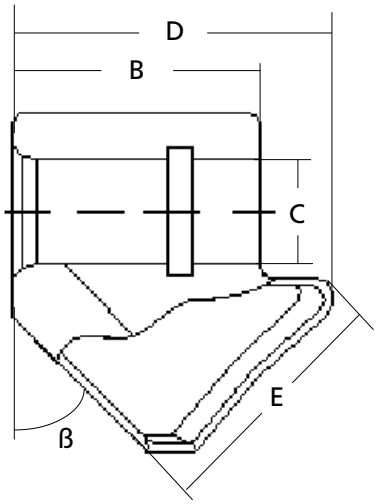
Picks, 1" (25,4 mm)

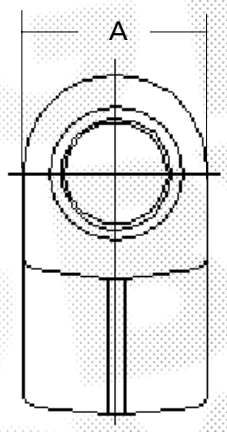
Fig I1



mm										
A	B	C	D	E	F	G	Ref.	**Fig.**		Machine
25,15 *0,99*	33,27 *1,31*	- -	- -	61,98 *2,44*	17,53 *0,69*	9,14 *0,36*	**BC31**	**I1**	25	
25,15 *0,99*	33,27 *1,31*	- -	- -	60,71 *2,39*	21,84 *0,86*	12,22 *0,48*	**BC31HD**	**I1**	40	Holder 25 mm
25,15 *0,99*	38,10 *1,50*	- -	- -	67,56 *2,66*	28,16 *1,11*	14,99 *0,59*	*BU40HD*	**I1**	25	

Blocksystem





A	B	C	D	E	ß	Ref.		Utility
35,05 *1,38*	44,20 *1,74*	19,94 *0,79*	79,00 *3,11*	62,00 *2,44*	45 °	**BC30**	20	Holder 25 mm.

Cross Reference

BETEK	BYG
B10	**BC10**
B3	**BC3LR**
B3KS	**BC3R**
B40HDK12,5	**BC31HD**
B40HDS/50	**BB40HDS50**
BC26	**BC3R**
BHR05	**BC10**
BHR31	**BC30**
BSH09	**BC3LR**
BTK03	**BC31HD**
BTK08	**BB40HDS50**
DV25	**BC30**

BOART	BYG
11030028	**BC3R**
11050003	**BC31HD**
13110021	**BC10**
13110028	**BC30**
3312C6501	**BC31HD**
3816HS4601	**BC3R**
RH3-20-W	**BC10**
RH5-25-W	**BC30**
RM5 WHDC	**BC31HD**

KENAMETAL	BYG
1010304	**BC31**
1010742	**BC7**
1010761	**BC4**
1010767	**BC3LR**
1010787	**BC31HD**
1010792	**BRL07**
1010815	**BSM06**
1010910	**BC3R**
1012278	**BC10**
1012279	**BC30**
1012290	**BC87HDS**
1317494	**BSM06**
1317501	**BT11**
1317507	**BT5**
1317519	**BTS5**
1318426	**BTS7**
1758414	**BRP18**
1758415	**BRP19**
1781713	**BRP21**

KENAMETAL	BYG
1845045	**BRP24**
1887014	**BTS5**
1971588	**BTS7**
2040526	**BSR03**
2047904	**BRP28**
15P42J	**BTS5**
15P43	**BTS7**
15P43J	**BTS7**
15P43L	**BTS7**
1P3F	**BT5**
1P4FJ	**BT11**
78P2	**BSM06**
B40HDS50	**BB40HDS50**
C10	**BC10**
C1HDLR	**BRL07**
C30	**BC30**
C31	**BC31**
C31HD	**BC31HD**
C34RWC	**BT11**
C3LR	**BC3LR**
C3R	**BC3R**
C4	**BC4**
C7	**BC7**
C7WC	**BTS5**
C87BF	**BSM06**
C87HDS	**BC87HDS**
RL07	**BRL07**
RL08	**BC3LR**
RP18	**BRP18**
RP19	**BRP19**
RP21	**BRP21**
RP24	**BRP24**
RP28	**BRP28**
SM06	**BSM06**
SR03	**BSR03**
T11	**BT11**
T5	**BT5**
TS5	**BTS5**
TS5C	**BTS5**
TS7	**BTS7**
TS7C	**BTS7**
U40KH	**BC31**
U40KHD	**BC31HD**
U43H	**BC4**
U47	**BC7**

Cross Reference

PIGMA GRAND	BYG
A30WE-16E	**BRP18**
A34W-20F	**BRP19**
A34WE-12,3D	**BRP21**
A34WEL-12,3D	**BRP21**
A34WL-20F	**BRP19**
C27-12,3D	**BRL07**
C27-16T	**BC3LR**
C38N-36T	**BC3R**
D38-19,5	**BC4**
D48-19,5	**BC7**
D64-19,5	**BTS5**
DC64-19,5	**BTS5**
D64/77-19,5	**BTS7**
E38EC-12,3D	**BSM06**
F33P-9	**BC31**
F34P-12,3	**BC31HD**
F60N-15,5	**BT5**
F60N-19,5	**BT11**
H50P-15,5	**BB40HDS50**

VERMER	BYG
308000--866	**BC3R**
308000-871	**BRL07**
308000-882	**BSM06**
308000-901	**BT11**
308000-921	**BTS7**
308000-935	**BC7**
4418-001	**BC31**
86121-001	**BC31HD**
86126-001	**BC4**

SANDVIK	BYG
990HB	**BC31HD**
P90A-2560-35XX	**BC31HD**