

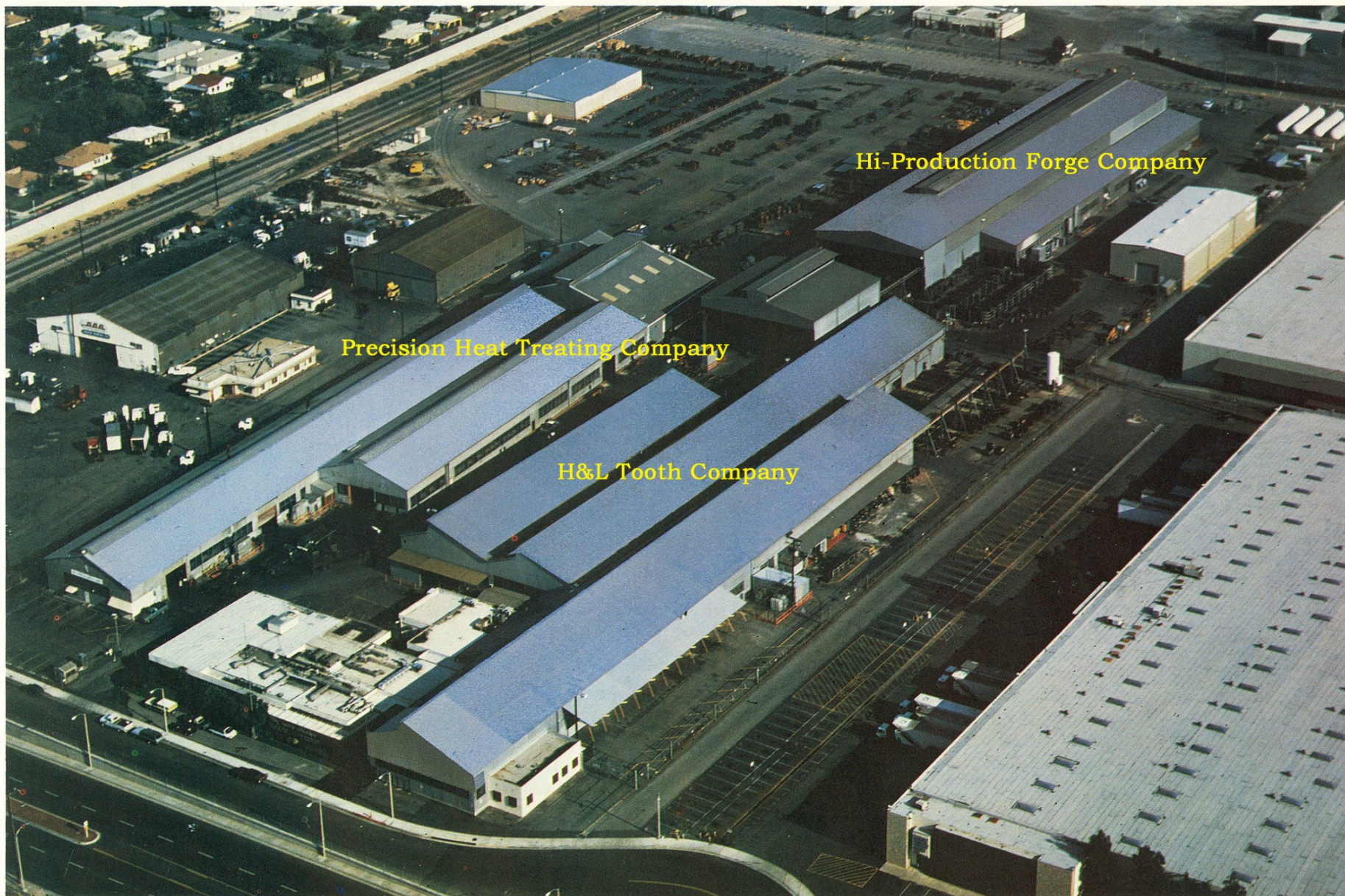


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Interchangeable Forged Teeth For Earth Moving Equipment

Catalog: HP-1002K

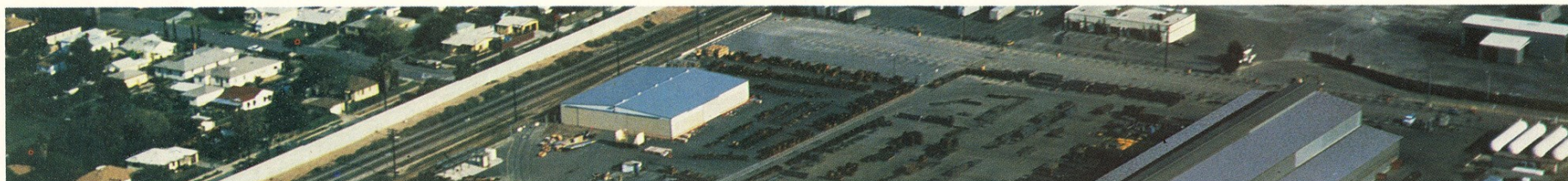




This picture shows H&L Tooth and Company's in 1987, prior to our relocating to Tulsa, Oklahoma

AERIAL VIEW OF OUR FACTORY IN MONTEBELLO, CALIFORNIA, U.S.A. OUR ENTIRE RESOURCES
ARE COMMITTED TO MAINTAINING OUR WORLD LEADERSHIP IN THE MANUFACTURING OF
FORGED EXCAVATING TEETH AND RELATED PARTS.

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FORGED TEETH

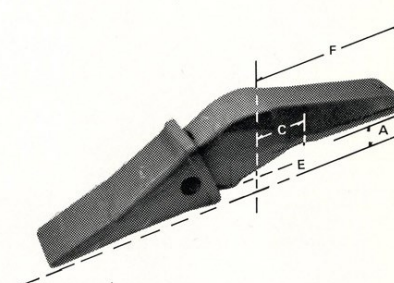
FOR THE REPAIR AND MAINTENANCE OF CATERPILLAR TYPE LOADERS



FLUSH MOUNT WELD-ON ADAPTERS



MODEL	Right Hand Integral Corner Adapter	Right Hand Adapter	Center Adapter	Left Hand Adapter	Left Hand Integral Corner Adapter	Short Tooth	Long Tooth	Abrasion Tooth	Penetration Tooth	TGR Tooth	Pin	Retainer
992; 992-B	Not Used	HP-7J-9555	HP-7J-9554	HP-7J-9556	Not Used	HP-9J-4551 HP-1U-3551	HP-9J-4552 HP-1U-3552	HP-9J-4553	HP-9J-4559	HP-1U-3552T	HP-9J-4558 HP-1U-1558	HP-7J-9559 HP-3G-9559
992-C	Not Used	HP-3G-4555	HP-3G-4554	HP-3G-4556	Not Used	HP-9J-4551 HP-1U-3551	HP-9J-4552 HP-1U-3552	HP-9J-4553	HP-9J-4559	HP-1U-3552T	HP-9J-4558 HP-1U-1558	HP-7J-9559 HP-3G-9559
988; 983	Not Used	HP-8J-1455	HP-8J-1454	HP-8J-1456	Not Used	HP-3G-4451 HP-1U-3451	HP-3G-4452 HP-1U-3452	HP-9J-4453	HP-9J-4459	HP-1U-3452T	HP-1U-1458 HP-4T-1458	HP-7J-6845 HP-3G-9549
988-B	Not Used	HP-9J-9585	HP-9J-9584	HP-9J-9586	Not Used	HP-3G-4451 HP-1U-3451	HP-3G-4452 HP-1U-3452	HP-9J-4453	HP-9J-4459	HP-1U-3452T	HP-1U-1458 HP-4T-1458	HP-7J-6845 HP-3G-9549
980-B; 977; 966-C	Not Used	HP-9J-2355	HP-9J-4354	HP-9J-2356	Not Used	HP-9J-4351 HP-1U-3351	HP-9J-4352 HP-1U-3352	HP-9J-4353 HP-4T-2353	HP-9J-4359	HP-1U-3352T	HP-7J-6846 HP-9J-2358	HP-7J-6845 HP-3G-9549
980-C	Not Used	HP-1U-1355	HP-1U-1354	HP-1U-1356	Not Used	HP-9J-4351 HP-1U-3351	HP-9J-4352 HP-1U-3352	HP-9J-4353 HP-4T-2353	HP-9J-4359	HP-1U-3352T	HP-7J-6846 HP-9J-2358	HP-7J-6845 HP-3G-9549
955-L; 950 944; 936	HP-9J-3083	HP-8J-5305	HP-9J-4304	HP-8J-5306	HP-9J-3084	HP-9J-4301 HP-1U-3301	HP-9J-4302 HP-1U-3302	HP-9J-4303 HP-4T-2303	HP-9J-4309	N/A	HP-8J-5308 HP-9J-2308	HP-8J-5309 HP-3G-9609
	Not Used	Not Used	HP-1U-1304	Not Used	Not Used	HP-9J-4301 HP-1U-3301	HP-9J-4302 HP-1U-3302	HP-9J-4303 HP-4T-2303	HP-9J-4309	N/A	HP-8J-5308 HP-9J-2308	HP-8J-5309 HP-3G-9609
953; 951-C 943; 941-B 933; 930 920	HP-9J-2883	Not Used	HP-9J-4254	Not Used	HP-9J-2884	HP-9J-4251 HP-1U-3251	HP-9J-4252 HP-1U-3252	HP-9J-4253 HP-4T-2253	HP-9J-4259	N/A	HP-8J-4258 HP-9J-2258	HP-8J-5309 HP-3G-9609
	Not Used	Not Used	HP-1U-1254	Not Used	Not Used	HP-9J-4251 HP-1U-3251	HP-9J-4252 HP-1U-3252	N/A	HP-9J-4259	N/A	HP-8J-4258 HP-9J-2258	HP-8J-5309 HP-3G-9609



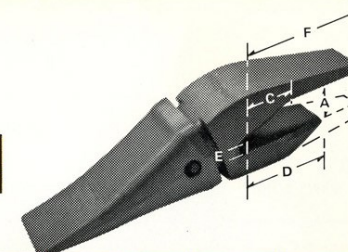
ADAPTER	A	C	E	F
HP-7J-9554	1.50	3.00	.37	11.00
	39	77	10	280
HP-3G-4554	3.25	4.50	1.25	12.37
	83	110	32	315
HP-8J-1454	1.25	1.75	.37	10.50
	32	45	10	267
HP-9J-9584	2.00	4.00	.37	12.25
	51	102	10	312
HP-9J-4354	1.25	2.00	.37	11.00
	32	51	10	280
HP-1U-1354	1.75	3.00	.50	11.00
	45	77	13	280
HP-9J-4304	.75	1.75	.00	8.75
	19	45	00	223
HP-1U-1304	1.25	1.75	.62	8.75
	32	45	16	223
HP-9J-4254	.75	1.62	.00	9.00
	19	42	00	229
HP-1U-1254	1.25	1.75	.50	9.00
	32	45	13	229

DOUBLE STRAP WELD-ON ADAPTERS



MODEL	Right Hand Adapter	Center Adapter	Left Hand Adapter	Short Tooth	Long Tooth	Abrasion Tooth	Penetration Tooth	TGR Tooth	Pin	Retainer
992-C; 983-B	HP-3G-9495	HP-3G-9494	HP-3G-9496	HP-9J-4551 HP-1U-3551	HP-9J-4552 HP-1U-3552	HP-9J-4553 HP-4T-1453	HP-9J-4559	HP-1U-3552T	HP-9J-4558 HP-1U-1558	HP-7J-9559 HP-3G-9559
988; 983	HP-9J-6701	HP-9J-6698	HP-9J-6702	HP-3G-4451 HP-1U-3451	HP-3G-4452 HP-1U-3452	HP-9J-4453	HP-9J-4459	HP-1U-3452T	HP-1U-1458 HP-4T-1458	HP-7J-6845 HP-3G-9549
988; 983	HP-4T-7455	HP-4T-7454	HP-4T-7456	HP-3G-4451 HP-1U-3451	HP-1U-3452	HP-9J-4453	HP-9J-4459	HP-1U-3452T	HP-1U-1458 HP-4T-1458	HP-7J-6845 HP-3G-9549
988	HP-4T-7555	HP-4T-7554	HP-4T-7556	HP-9J-4551 HP-1U-3551	HP-1U-3552	HP-9J-4553 HP-4T-1453	HP-9J-4559	HP-1U-3552T	HP-9J-4558 HP-1U-1558	HP-7J-9559 HP-3G-9559

INCHES
MILLIMETERS

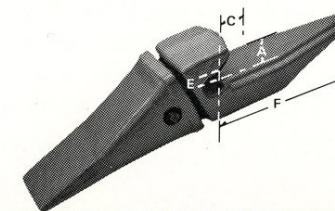


ADAPTER	A	C	D	E	F
HP-3G-9494	2.75 70	4.50 115	14.25 362	.93 24	14.25 362
HP-9J-6698	2.25 58	3.88 99	6.75 172	.81 21	10.00 254

BOTTOM STRAP WELD-ON ADAPTERS



MODEL	Right Hand Adapter	Center Adapter	Left Hand Adapter	Short Tooth	Long Tooth	Abrasion Tooth	Penetration Tooth	TGR Tooth	Pin	Retainer
992-C	HP-9J-3663	HP-9J-3662	HP-9J-3664	HP-9J-4551 HP-1U-3551	HP-9J-4552 HP-1U-3552	HP-9J-4553	HP-9J-4459	HP-1U-3552T	HP-9J-4558 HP-1U-1558	HP-7J-9559 HP-3G-9559
988-B; 983	HP-9J-3665	HP-9J-3667	HP-9J-3666	HP-3G-4451 HP-1U-3451	HP-3G-4452 HP-1U-3452	HP-9J-4453	HP-9J-4459	HP-1U-3452T	HP-1U-1458 HP-4T-1458	HP-7J-6845 HP-3G-9549
988 Ejector	HP-8J-1295	HP-8J-1294	HP-8J-1296	HP-3G-4451 HP-1U-3451	HP-3G-4452 HP-1U-3452	HP-9J-4453	HP-9J-4459	HP-1U-3452T	HP-1U-1458 HP-4T-1458	HP-7J-6845 HP-3G-9549
980; 977; 966-D	HP-9J-4295	HP-9J-4297	HP-9J-4296	HP-9J-4351 HP-1U-3351	HP-9J-4352 HP-1U-3352	HP-9J-4353 HP-4T-2353	HP-9J-4359	HP-1U-3352T	HP-7J-6846 HP-9J-2358	HP-7J-6845 HP-3G-9549
980-C	HP-1U-1351	HP-1U-1350	HP-1U-1352	HP-9J-4351 HP-1U-3351	HP-9J-4352 HP-1U-3352	HP-9J-4353 HP-4T-2303	HP-9J-4359	HP-1U-3352T	HP-7J-6846 HP-9J-2358	HP-3G-9549
955; 950; 944; 936	Not Used	HP-9J-8929	Not Used	HP-9J-4301 HP-1U-3301	HP-9J-4302 HP-1U-3302	HP-9J-4303 HP-4T-2303	HP-9J-4309	N/A	HP-8J-5308 HP-9J-2308	HP-8J-5309 HP-3G-9609
951-C; 941 933; 930 920	Not Used	HP-3G-0169	Not Used	HP-9J-4251 HP-1U-3251	HP-9J-4252 HP-1U-3252	HP-9J-4253 HP-4T-2253	HP-9J-4259	N/A	HP-8J-4258 HP-9J-2258	HP-8J-5309 HP-3G-9609
931; 910	Not Used	HP-8J-7525	Not Used	HP-8J-6201 HP-1U-3201	HP-8J-6202 HP-1U-3202	HP-8J-4203 HP-4T-2203	Not Used	N/A	HP-8J-6208 HP-1U-4208	HP-9J-4209 HP-4T-0001



ADAPTER	A	C	E	F
HP-9J-3662	2.00 51	3.00 77	.88 23	15.25 387
HP-9J-3667	1.75 45	2.50 64	.75 20	11.25 286
HP-8J-1294	1.63 41	2.00 51	.31 8	12.00 306
HP-9J-4297	1.25 32	2.00 51	.50 13	10.00 254
HP-1U-1350	1.25 32	1.50 38	.50 13	10.00 254
HP-9J-8929	1.12 29	1.63 42	.43 11	8.00 230
HP-3G-0169	1.00 26	1.31 33	.50 13	7.00 178
HP-8J-7525	.56 15	.75 19	.25 7	4.00 102

Page 5 LOADERS WELD-ON

Page 7 LOADERS BOLT-ON

Page 9 RIPPERS - CATERPILLAR TYPE

Page 11 SHANK ADAPTERS / RIPPERS - KOMATSU TYPE

Page 13 EXCAVATORS / SCARIFIERS

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FORGED TEETH

FOR THE REPAIR AND MAINTENANCE OF CATERPILLAR TYPE LOADERS



BOLT-ON ADAPTERS

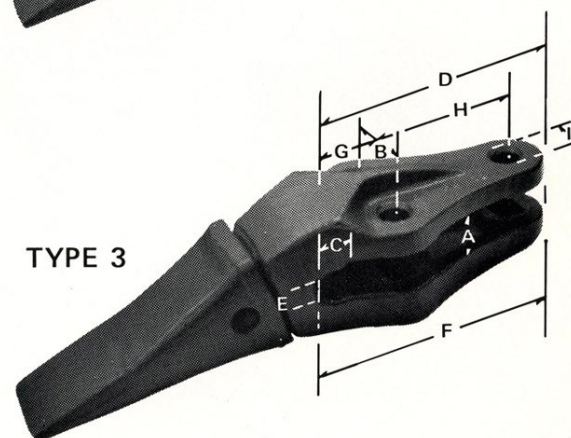
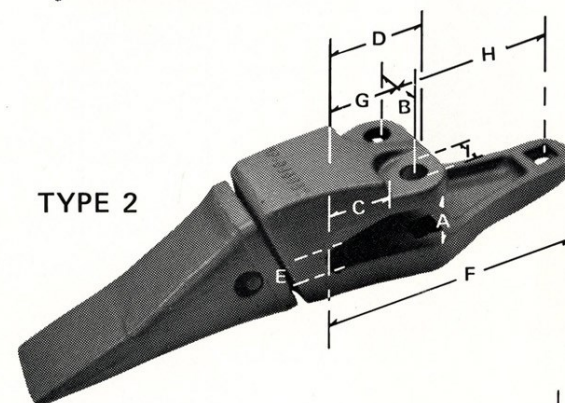
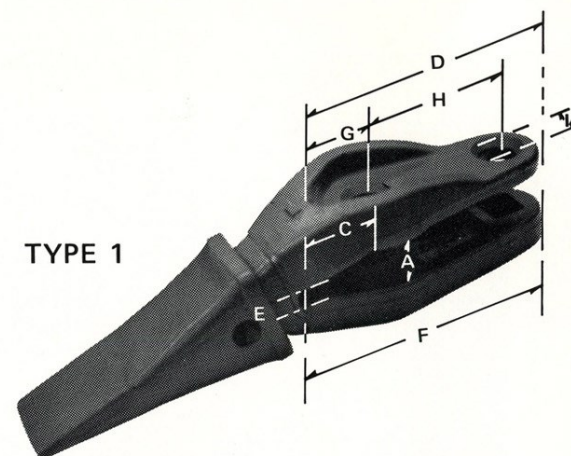
 MODEL	 Right Hand Adapter	 Center Adapter	 Left Hand Adapter	 Short Tooth	 Long Tooth	 Abrasion Tooth	 Penetration Tooth	 TGR Tooth	 Pin	 Retainer	 Center Adapter Bolt	 Center Adapter Nut	 Corner Adapter Bolt	 Corner Adapter Nut
980; 980-B; 980-C	Not Used	HP-8J-5357 HP-3G-2357	Not Used	HP-9J-4351 HP-1U-3351	HP-9J-4352 HP-1U-3352	HP-9J-4353 HP-4T-2353	HP-9J-4359	HP-1U-3352T	HP-7J-6846 HP-9J-2358	HP-7J-6845 HP-3G-9549	{(2)HP-1J-3527 {(1)HP-8J-2928 (3)HP-1J-3527	(3)HP-2J-3507 (3)HP-8J-2933	Not Used	Not Used
980-C	N/A	HP-1U-1357	N/A	HP-9J-4351	HP-9J-4352	HP-9J-4353	HP-9J-4359	HP-1U-3352T	HP-7J-6846 HP-9J-2358	HP-7J-6845 HP-3G-9549	(2)HP-5P-8361	(2)HP-5P-8362	(1)HP-5P-8361	(1)HP-5P-8362
977; 977-K; 977-L	Not Used	HP-9J-2357 HP-3G-1357	Not Used	HP-9J-4351 HP-1U-3351	HP-9J-4352 HP-1U-3352	HP-9J-4353 HP-4T-2353	HP-9J-4359	HP-1U-3352T	HP-7J-6846 HP-9J-2358	HP-7J-6845 HP-3G-9549	(3)HP-8J-2928	(3)HP-8J-2933	Not Used	Not Used
966-D; 977-L	N/A	HP-3G-3357	N/A	HP-9J-4351 HP-1U-3351	HP-9J-4352 HP-1U-3352	HP-9J-4353 HP-4T-2353	HP-9J-4359	HP-1U-3352T	HP-7J-6846 HP-9J-2358	HP-7J-6845 HP-3G-9549	(2)HP-5P-8361	(2)HP-5P-8362	(1)HP-5P-8823	(1)HP-5P-8362
966-C	N/A	HP-3G-9307	N/A	HP-9J-4301 HP-1U-3301	HP-9J-4302 HP-1U-3302	HP-9J-4303 HP-4T-2303	HP-9J-4309	N/A	HP-8J-5308 HP-9J-2308	HP-8J-5309 HP-3G-9609	(2)HP-5P-8361	(2)HP-5P-8362	(1)HP-5P-8823	(1)HP-5P-8362
966; 966-C	Not Used	HP-8J-5307 HP-3G-5307	Not Used	HP-9J-4301 HP-1U-3301	HP-9J-4302 HP-1U-3302	HP-9J-4303 HP-4T-2303	HP-9J-4309	N/A	HP-8J-5308 HP-9J-2308	HP-8J-5309 HP-3G-9609	{(2)HP-8J-2928 {(1)HP-4J-9058 (3)HP-5P-8136	(3)HP-2J-3507 (3)HP-8J-2933	Not Used	Not Used
950; 955	Not Used	HP-8J-6587	Not Used	HP-9J-4301 HP-1U-3301	HP-9J-4302 HP-1U-3302	HP-9J-4303 HP-4T-2303	HP-9J-4309	N/A	HP-8J-5308 HP-9J-2308	HP-8J-5309 HP-3G-9609	(2)HP-8J-2928	(2)HP-8J-2933	Not Used	Not Used
950-B; 955-L 963	HP-3G-4309	HP-3G-4307	HP-3G-4308	HP-9J-4301 HP-1U-3301	HP-9J-4302 HP-1U-3302	HP-9J-4303 HP-4T-2303	HP-9J-4309	N/A	HP-8J-5308 HP-9J-2308	HP-8J-5309 HP-3G-9609	{(1)HP-8J-2928 {(1)HP-1J-3527	(2)HP-8J-2933	(1)HP-5P-8823	(1)HP-5P-8362
950; 936	N/A	HP-1U-0307	N/A	HP-9J-4301 HP-1U-3301	HP-9J-4302 HP-1U-3302	HP-9J-4303 HP-4T-2303	HP-9J-4309	N/A	HP-8J-5308 HP-9J-2308	HP-8J-5309 HP-3G-9609	(2)HP-8J-2928	(2)HP-8J-2933	(1)HP-5P-8823	(1)HP-5P-8362
953; 951-C; 943; 941-B; 930; 920	N/A	HP-1U-0257	N/A	HP-9J-4251 HP-1U-3251	HP-9J-4252 HP-1U-3252	HP-9J-4253 HP-4T-2253	HP-9J-4259	N/A	HP-8J-4258 HP-9J-2258	HP-8J-5309 HP-3G-9609	(2)HP-8J-2928	(2)HP-8J-2933	(1)HP-4J-9058	(1)HP-8J-2933
951-C; 941-B; 933; 930; 920	Not Used	HP-8J-6656 HP-1U-0257	Not Used	HP-9J-4251 HP-1U-3251	HP-9J-4252 HP-1U-3252	HP-9J-4253 HP-4T-2253	HP-9J-4259	N/A	HP-8J-4258 HP-9J-2258	HP-8J-5309 HP-3G-9609	(2)HP-8J-2928	(2)HP-8J-2933	Not Used	Not Used
931; 910	Not Used	HP-9J-4207	Not Used	HP-8J-6201 HP-1U-3201	HP-8J-6202 HP-1U-3202	HP-9J-4203 HP-4T-2203	Not Used	N/A	HP-8J-6208 HP-1U-4208	HP-9J-4209 HP-4T-0001	(2)HP-5J-4771	(2)HP-2J-3506	Not Used	Not Used

N/A . . . Not Available

ADAPTER	TYPE	A	B	C	D	E	F	G	H	I
HP-8J-5357	2	1.75	3.25	2.62	5.38	0.87	11.50	4.12	6.12	1.06
		44	83	67	137	22	292	105	155	27
HP-3G-2357	3	1.88	3.25	3.00	11.75	0.87	11.75	4.12	6.12	1.06
		48	83	76	299	22	299	105	155	27
HP-1U-1357	1	1.87	----	2.74	11.75	0.71	11.75	4.05	6.12	1.45
		48	----	70	299	18	299	103	155	37
HP-9J-2357	3	1.25	3.25	2.05	10.62	0.87	10.62	3.38	5.75	1.06
		32	83	52	270	22	270	86	146	27
HP-3G-1357	3	1.34	3.25	1.77	10.75	0.75	10.75	3.38	5.75	1.12
		34	83	45	273	19	273	86	146	27
HP-8J-5307	2	1.25	3.25	1.50	4.63	0.75	10.57	3.37	5.75	1.06
		32	83	38	118	19	269	86	146	27
HP-3G-5307	3	1.31	3.25	1.62	10.75	0.69	10.75	3.50	5.75	1.06
		33	83	41	273	18	273	89	146	27
HP-3G-3357	1	1.64	----	2.90	11.45	0.41	11.45	3.95	5.88	1.44
		42	----	74	291	10	291	100	149	37
HP-3G-9307	1	1.35	----	2.29	11.24	0.38	11.24	3.31	6.30	1.44
		34	----	58	386	10	286	84	160	25
HP-8J-6587	1	1.06	----	1.28	9.00	0.67	9.00	2.75	4.88	1.06
		27	----	33	229	17	229	8	124	27
HP-1U-0307	1	1.06	----	1.17	9.03	0.63	9.03	2.80	4.85	1.10
		27	----	30	229	16	229	71	123	28
HP-3G-4307	1	1.36	----	2.21	11.12	0.42	11.12	3.15	6.53	1.10
		27	----	56	282	11	282	80	166	28
HP-8J-6656	1	1.06	----	1.11	9.00	0.66	9.00	2.75	4.88	1.06
		27	----	28	229	17	229	70	124	27
HP-1U-0257	1	1.06	----	1.17	9.03	0.62	9.03	2.80	4.85	1.10
		27	----	30	229	16	229	71	24	28
HP-9J-4207	1	.781	----	0.80	7.19	0.57	7.19	2.63	3.50	0.81
		20	----	20	183	15	183	67	89	21

All dimensions are part dimensions. Actual lip dimensions may vary.

INCHES
MILLIMETERS



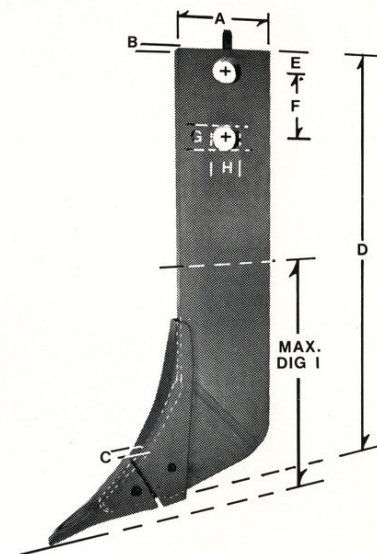
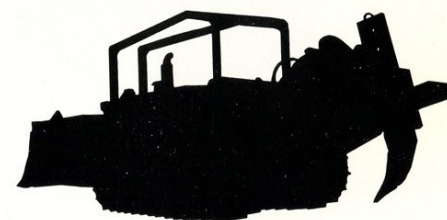


FORGED TEETH FOR THE REPAIR AND MAINTENANCE OF CATERPILLAR TYPE

RIPPERS

SINGLE SHANK RIPPERS

MODEL	SHANK	REGULAR TEETH			PENETRATION TEETH			Tooth Pin	Regular Protector	Extended Protector	Protector Pin
		Short	Intermediate	Long	Short	Intermediate	Long				
D-10	HP-3G-7507	HP-1U-4501	HP-1U-4502	HP-1U-4503	HP-3G-6501	HP-3G-6502	HP-3G-6503	HP-3G-0500	Discontinued	HP-3G-9594	HP-3G-0500
	HP-1U-4592									HP-1U-3644	
D-9L	HP-3G-2088 Regular	HP-1U-4501	HP-1U-4502	HP-1U-4503	HP-3G-6501	HP-3G-6502	HP-3G-6503	HP-3G-0500	None	HP-1U-3644	HP-3G-0500
	HP-3G-8566 Deep Dig	HP-4T-4501	HP-4T-4502	HP-4T-4503	HP-4T-5501	HP-4T-5502	HP-4T-5503				
D-8K & D-9H	HP-7J-1792 Regular	HP-6J-8812	HP-6J-8813	HP-6J-8815	HP-3G-5451	None	HP-3G-5452	HP-7J-9600	HP-6J-8814	HP-1U-4410	HP-6J-8811
	HP-7J-1793 Deep Dig	HP-4T-4451	HP-4T-4452	HP-4T-4453	HP-4T-5451		HP-4T-5452	HP-4T-2479			HP-4T-2479 1 Each Req.
D-8L	HP-4T-0135 Regular	HP-6J-8812	HP-6J-8813	HP-6J-8815	HP-3G-5451	None	HP-3G-5452	HP-7J-9600	HP-6J-8814	HP-1U-4410	HP-6J-8811
	HP-4T-0134 Deep Dig	HP-4T-4451	HP-4T-4452					HP-4T-2479			HP-4T-2479 1 Each Req.



MULTI-SHANK RIPPERS

D-10	HP-3G-6507	HP-1U-4501	HP-1U-4502	HP-1U-4503	HP-3G-6501	HP-3G-6502	HP-3G-6503	HP-3G-0500	Discontinued	HP-3G-9594	HP-3G-0500
	HP-1U-4873	HP-4T-4501	HP-4T-4502	HP-4T-4503	HP-4T-5501	HP-4T-5502	HP-4T-5503			HP-1U-3644	
D-9L	HP-9J-5954	HP-1U-4501	HP-1U-4502	HP-1U-4503	HP-3G-6501	HP-3G-6502	HP-3G-6503	HP-3G-0500	Discontinued	HP-1U-3644	HP-3G-0500
D-9H	HP-7J-1794	HP-6J-8812	HP-6J-8813	HP-6J-8815	HP-3G-5451	None	HP-3G-5452	HP-7J-9600	HP-6J-8814	HP-1U-4410	HP-6J-8811
		HP-4T-4451	HP-4T-4452					HP-4T-2479			HP-4T-2479 1 Each Req.
D-8K	HP-7J-1795	HP-6J-8812	HP-6J-8813	HP-6J-8815	HP-3G-5451	None	HP-3G-5452	HP-7J-9600	HP-6J-8814	HP-1U-4410	HP-6J-8811
		HP-4T-4451	HP-4T-4452					HP-4T-2479			HP-4T-2479 1 Each Req.
D-8L	HP-4T-0136	HP-6J-8812	HP-6J-8813	HP-6J-8815	HP-3G-5451	None	HP-3G-5452	HP-7J-9600	HP-6J-8814	HP-1U-4410	HP-6J-8811
		HP-4T-4451	HP-4T-4452					HP-4T-2479			HP-4T-2479 1 Each Req.

MULTI-SHANK RIPPERS



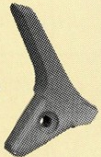
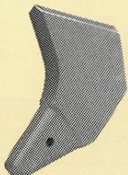
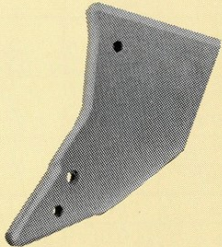
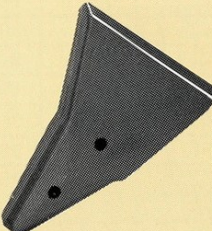
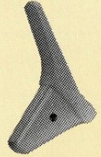
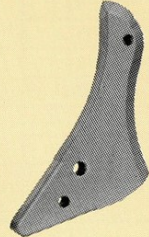
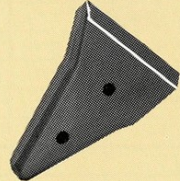
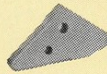
MODEL	Shank	Regular Tooth	Long Tooth	Pin	Retainer
D-7	HP-9J-1642	HP-7J-6844 HP-9J-8920	None	HP-9J-2358	HP-7J-6845 HP-1U-2405
983	HP-7J-6671	HP-7J-6844 HP-9J-8920	None	HP-9J-2358	HP-7J-6845 HP-1U-2405
#6; D-6; D-5; 16G; 977	HP-9J-3139 Straight	HP-7J-6844 HP-9J-8920	None	HP-9J-2358	HP-7J-6845 HP-1U-2405
	HP-9J-8923 Curved	HP-7J-6844 HP-9J-8920	None	HP-9J-2358	HP-7J-6845 HP-1U-2405
#4; D-4; 941; 951; 955; 12G; 14G; 130G; 140G 963	HP-9J-6586 Straight	HP-7J-7500 HP-9J-8910	None	HP-9J-6583	HP-7J-6845 HP-1U-2405
	HP-9J-8913 Curved	HP-7J-7500 HP-9J-8910	None	HP-9J-6583	HP-7J-6845 HP-1U-2405
943; 953	HP-1U-1257 Curved	HP-9J-4259	None	HP-9J-2258	HP-3G-9609
#3; 910; 931	HP-8J-5299	HP-8J-6201 HP-1U-3201	HP-8J-6202 HP-1U-3202	HP-8J-6208 HP-1U-4208	HP-9J-4209 HP-4T-0001

INCHES
MILLIMETERS

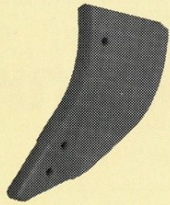
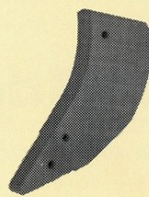
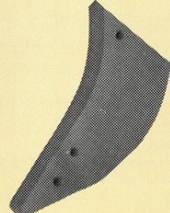
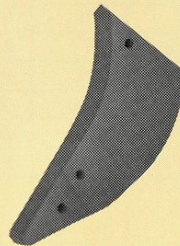
SHANK	HOLES	A	B	C	D	E	F	G	H	I
HP-3G-7507	4	16.00	4.00	4.00	108.00	7.75	11.00	4.50	4.50	74.00
		407	102	102	2,743	197	279	114	114	1,880
HP-3G-2088	4	14.00	3.50	4.00	92.00	8.50	9.50	3.75	4.37	53.80
		356	89	102	2,337	216	241	95	111	1,366
HP-3G-8566	4	14.00	3.50	4.00	113.00	8.50	9.50	3.75	4.37	75.40
		356	89	102	2,870	216	241	95	111	1,915
HP-7J-1792	4	14.00	3.50	3.50	86.50	4.50	12.00	3.37	3.37	55.00
		356	89	89	2,197	114	305	86	86	1,397
HP-7J-1793	6	14.00	3.50	3.50	109.00	4.50	12.00	3.37	3.37	77.00
		356	89	89	2,769	114	305	86	86	1,956
HP-3G-6507	2	16.00	4.00	4.00	81.37	4.00	14.00	4.50	4.50	45.00
		407	102	102	2,067	102	356	114	114	1,143
HP-9J-5954	2	14.00	3.50	4.00	69.50	3.25	10.00	3.75	4.37	39.80
		356	89	102	1,765	83	254	95	111	1,011
HP-7J-1794	2	13.00	3.00	3.00	70.00	4.00	10.00	3.37	3.37	35.00
		330	77	77	1,778	102	254	86	86	889
HP-7J-1795	2	13.00	3.00	3.00	62.50	4.50	10.00	3.37	3.37	31.00
		330	77	77	1,588	114	254	86	86	787
HP-9J-1642	2	8.75	2.75	2.75	48.37	4.00	9.00	2.37	2.37	29.00
		223	70	70	1,229	102	229	60	60	737
HP-7J-6671	1	7.00	3.00	3.00	34.34	4.50	----	2.12	2.12	18.75
		178	77	77	872	114	----	54	54	476
HP-9J-3139	1	6.88	2.88	2.88	28.50	4.00	----	2.12	2.12	20.00
		175	73	73	724	102	----	54	54	508
HP-9J-8923	1	7.00	3.00	3.00	26.50	4.00	----	2.12	2.12	18.00
		178	77	77	673	101	----	54	54	457
HP-9J-6586	1	5.50	2.25	2.25	21.00	3.50	----	1.87	1.87	13.00
		140	58	58	533	89	----	48	48	330
HP-9J-8913	1	5.50	2.37	2.37	20.00	3.75	----	1.87	1.87	12.50
		140	61	61	508	95	----	48	48	318
HP-1U-1257	1	4.37	2.00	2.00	19.62	3.50	----	1.43	1.43	12.50
		112	52	52	498	89	----	36	36	318
HP-8J-5299	1	3.00	1.50	1.50	17.25	2.00	----	1.00	1.00	12.50
		77	39	39	438	51	----	25	25	318
HP-4T-0134	6	13.00	3.00	3.00	99.50	4.25	12.00	3.12	3.58	67.00
		330	76	76	2,527	108	305	79	91	1,702
HP-4T-0135	4	13.00	3.00	3.00	75.50	4.25	12.00	3.12	3.58	45.00
		330	76	76	1,918	108	305	79	91	1,143
HP-4T-0136	2	13.00	3.00	3.00	59.50	3.25	10.00	3.12	3.58	32.00
		330	76	76	1,511	83	254	79	91	813



SHANK ADAPTERS TO REPAIR CATERPILLAR TYPE RIPPER SHANKS

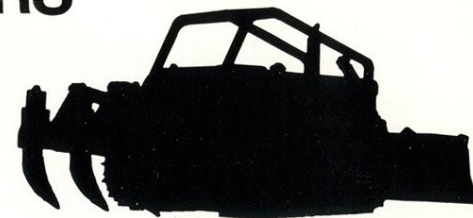
Ripper Group CR-3	Ripper Group CR-4	Ripper Group CR-5	Ripper Group CR-6
 <i>Hi-Pro type</i> HPW-J-1001 Shank Adapter for: HP-9J-6586 Shank	 <i>Caterpillar type</i> HP-9J-3661 Shank Adapter for: HP-9J-1642 Shank	 <i>Caterpillar type</i> HP-4T-4697 HP-7J-1791 Shank Adapter for: HP-7J-1792 HP-7J-1793 HP-7J-1794 HP-7J-1795 Shank	 <i>Caterpillar type</i> HP-1U-3630 Shank Adapter for: HP-3G-2088 HP-3G-8566 HP-9J-5954 HP-1U-4592 HP-1U-4873 Shank
 <i>Hi-Pro type</i> HPS-CR-3 Shank Adapter	 <i>Hi-Pro type</i> HPW-J-1002 Shank Adapter for: HP-7J-6671 HP-9J-3139 Shank	 <i>Hi-Pro type</i> HPW-J-1000 Shank Adapter for: HP-7J-1792 HP-7J-1793 HP-7J-1794 HP-7J-1795 Shank	 <i>Caterpillar type</i> HP-3G-7505 Shank Adapter for: HP-3G-6507 HP-3G-7507 Shank
	 <i>Hi-Pro type</i> HPS-CR-4 Shank Adapter	 <i>Hi-Pro type</i> HPS-4T-9776 Shank Adapter	 <i>Hi-Pro Type</i> HPS-CR-6 Shank Adapter

SHANK ADAPTERS TO REPAIR KOMATSU TYPE RIPPER SHANKS

Ripper Group KR-1	Ripper Group KR-2	Ripper Group KR-3
 HPW-J-1003 Shank Adapter for: HP-154-78-14344 Shank	 HPW-J-1004 Shank Adapter for: HP-175-78-21613 Shank	 HP-195-78-14350 Shank Adapter for: HP-198-79-31140 Shank
		 HP-198-79-11620 Shank Adapter for: HP-198-79-11630 Shank

FORGED TEETH

FOR THE REPAIR AND MAINTENANCE OF KOMATSU TYPE RIPPERS



Model	Shank	Regular Tooth	Long Tooth	Pins	Standard Protector	Long Protector
D-80; D-85E; D-90S	HP-154-78-14344 <i>Note (A)</i>	HP-175-78-31230	HP-175-78-31290	HP-175-78-21740	HP-195-78-21320	HP-195-78-21580
D-150; D-155A Fixed Multi-Shank	HP-175-78-21613 <i>Note (B)</i>	HP-175-78-31230	HP-175-78-31290	HP-175-78-21740	HP-195-78-21320	HP-195-78-21580
D-150; D-155A Variable Multi-Shank	HP-175-78-21614	HP-175-78-31230	HP-175-78-31290	HP-175-78-21740	HP-195-78-21320	HP-195-78-21580
D-355-2A Single Shank	HP-195-79-31140	HP-195-78-21331 HP-195-78-21333	N/A	HP-175-78-21740	HP-195-78-21320	HP-195-78-21580
D-355-2A Variable Multi-Shank	HP-195-78-41190	HP-195-78-21331 HP-195-78-21333	N/A	HP-175-78-21740	HP-195-78-21320	HP-195-78-21580
D-455 Variable Single Shank	HP-198-79-11630 <i>Note (C)</i>	HP-198-79-11230 HP-198-79-11560	HP-198-79-11550 HP-198-79-11551	HP-198-79-11320	HP-198-79-11220	HP-198-79-11640
D-455 Variable Multi-Shank	HP-198-78-11240	HP-198-79-11230 HP-198-79-11560	HP-198-79-11550 HP-198-79-11551	HP-198-79-11320	HP-198-79-11220	HP-198-79-11640

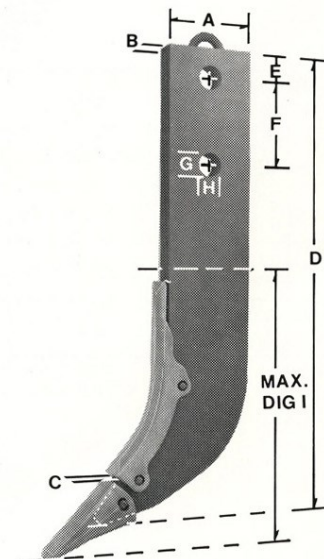
Note: (A) Use HP-154-78-14344 Shank also in place of Komatsu type 154-78-14340 and 154-78-14343

Note: (B) Use HP-175-78-21613 Shank also in place of Komatsu type 175-78-21610 and 175-78-21612

Note: (C) Use HP-198-79-11630 Shank and related items in place of Komatsu type 198-79-11400 Shanks.

SHANK	HOLES	A	B	C	D	E	F	G	H	I
HP-154-78-14344	2	9.00	3.00	3.00	51.50	4.25	12.25	2.50	2.50	----
		228	76	76	1,308	108	311	64	64	----
HP-175-78-21613	2	12.00	3.00	3.00	64.50	4.00	15.75	3.12	3.12	----
		305	76	76	1,638	101	400	79	79	----
HP-175-78-21614	2	12.87	2.87	2.87	65.00	4.00	15.75	3.12	3.12	----
		326	73	73	1,651	101	400	79	79	----
HP-195-78-41190	2	14.00	3.50	3.50	72.75	4.50	18.00	3.50	3.50	----
		356	89	89	1,848	114	457	89	89	----
HP-198-79-11630	5	18.25	4.37	3.93	112.00	5.75	13.00	4.25	4.25	----
		464	111	100	2,845	146	330	108	108	----
HP-198-78-11240	2	15.75	3.75	3.75	85.00	4.37	17.00	3.50	3.50	----
		400	95	95	2,159	111	431	89	89	----
HP-195-79-31140	4	15.75	3.75	3.00	86.37	4.50	13.25	3.50	3.50	----
		400	95	76	2,194	114	337	89	89	----

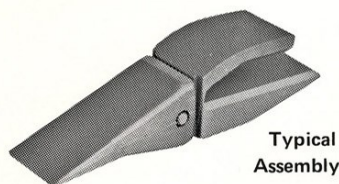
INCHES
MILLIMETERS



FORGED TEETH

FOR THE REPAIR AND MAINTENANCE OF CATERPILLAR TYPE **EXCAVATORS**

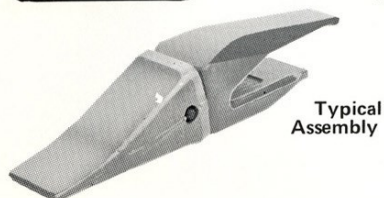
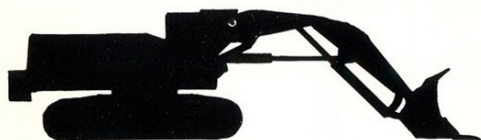
BACKHOE



Typical
Assembly

Model	Left Hand Adapter	Center Adapter	Right Hand Adapter	Short Tooth	Long Tooth	Penetration Tooth	TGR Tooth	Twin TGR Tooth	Pin	Retainer
215	HP-3G-6306	HP-3G-6304	HP-3G-6305	HP-9J-4301 HP-1U-3301	HP-9J-4302 HP-1U-3302	HP-9J-4309	N/A	N/A	HP-8J-5308 HP-9J-2308	HP-8J-5309 HP-3G-9609
225	HP-3G-8356	HP-3G-8354	HP-3G-8355	HP-9J-4351 HP-1U-3351	HP-9J-4352 HP-1U-3352	HP-9J-4359	HP-1U-3352T	HP-1U-3352TT	HP-7J-6846 HP-9J-2358	HP-3G-9549
235	HP-8J-9140 HP-1U-1456	HP-8J-9141 HP-1U-1454	HP-8J-9139 HP-1U-1455	HP-3G-4451 HP-1U-3451	HP-3G-4452 HP-1U-3452	HP-9J-4459	HP-1U-3452T	HP-1U-3452TT	HP-1U-1458 HP-4T-1458	HP-3G-9549
245	HP-9J-0173 HP-1U-1556	HP-9J-0174 HP-1U-1553	HP-9J-0172 HP-1U-1555	HP-9J-4551 HP-1U-3551	HP-9J-4552 HP-1U-3552	HP-9J-4559	HP-1U-3552T	HP-1U-3552TT	HP-9J-4558 HP-1U-1558	HP-7J-9559 HP-3G-9559
D3 / 931	None	HP-8J-7525	None	HP-8J-6201 HP-1U-3201	HP-8J-6202 HP-1U-3202	None	N/A	N/A	HP-8J-6208 HP-1U-4208	HP-9J-4209 HP-4T-0001

SHOVEL

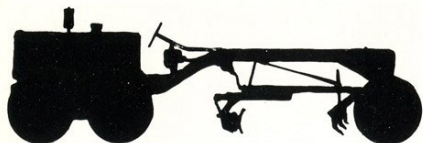


Typical
Assembly

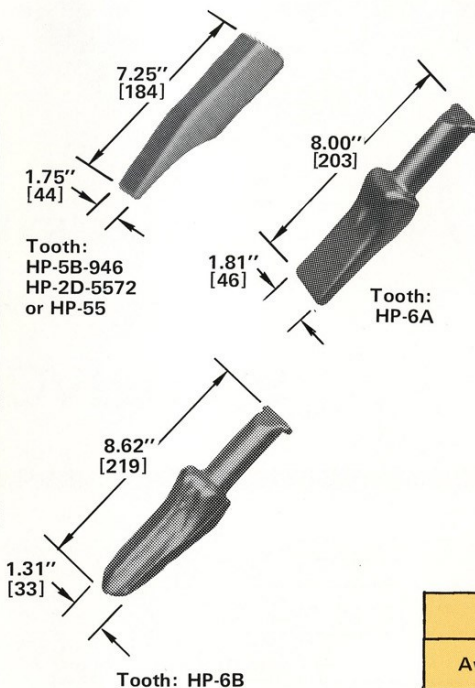
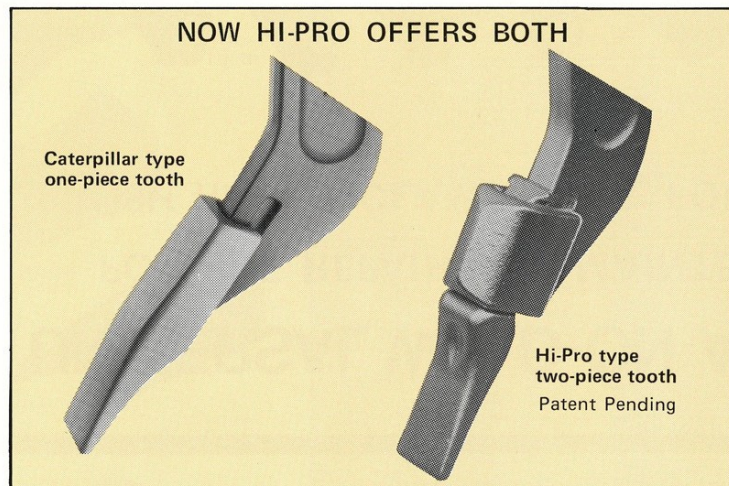
Model	Right Hand Adapter	Left Hand Adapter	Short Tooth	Long Tooth	Penetration Tooth	TGR Tooth	Twin TGR Tooth	Pin	Retainer
235	HP-3G-7455	HP-3G-7456	HP-3G-4451 HP-1U-3451	HP-3G-4452 HP-1U-3452	HP-9J-4459	HP-1U-3452T	HP-1U-3452TT	HP-1U-1458 HP-4T-1458	HP-3G-9549
245 (A)	HP-9J-6179	HP-9J-6180	HP-9J-4551	HP-9J-4552	HP-9J-4559	HP-1U-3552T	HP-1U-3552TT	HP-9J-4558	HP-7J-9559
(B)	HP-3G-9495	HP-3G-9496	HP-1U-3551	HP-1U-3552				HP-1U-1558	HP-3G-9559

Note (A): 2V825 Shovel bucket group.
2V8388 Shovel bucket group.
3V5395 Shovel bucket group.
3V5430 Shovel bucket group.

Note (B): 3V9624 Shovel bucket group.



FORGED TEETH FOR THE REPAIR AND MAINTENANCE OF CATERPILLAR, CHAMPION AND OTHER UNIVERSAL TYPE SCARIFIERS



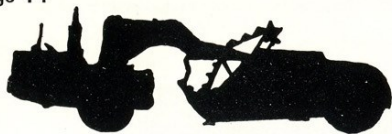
UNIVERSAL SCARIFIER SHANK HP-5-940

MODEL	SHANK	SHANK LOCK		DIMENSIONS[METRIC]
		Grommet	Pin	
#12; 12G; #14; #112; #120; 12DG; 130G; 140G; #212	HP-5-0940 Notches Front & Rear	HP-5K-1458	HP-5K-1459	1" [25] x 3.0" [76] x 17.75" [451] Ref.
	HP-5B-0947 Notches in Rear	HP-5K-1458	HP-5K-1459	1" [25] x 3.0" [76] x 17.0" [432] Ref.
	HP-5B-6251 Notches in Rear	HP-5K-1458	HP-5K-1459	1" [25] x 2.5" [64] x 15.4" [391] Ref.
	HP-9F-5124 Notches in Front	HP-5K-1458	HP-5K-1459	1" [25] x 3.0" [76] x 16.5" [419] Ref.

CATERPILLAR SCARIFIERS

Type	Models	Replace Shanks
Aveling-Barford	MG; Super MG; Super 500 & 600	PGQ-75611
Austin-Western	Pacer 300 & 400 Super 300; 400; 500	PGF-5375
Caterpillar	12; 14 112; 120; 212	5B-947; 5B-6251; 9F-5124
Champion	700 Series D-565T; D-605T; D-686	2580; 8110
Fiat-Allis	M65; 100-C; 150-C; 200-C	062159
Galion	503; T-400; T-500; T-600	B-31280C; 20867
Komatsu	GD-40-HT	09271-00045
Wabco	666	120745 429578

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FORGED TEETH

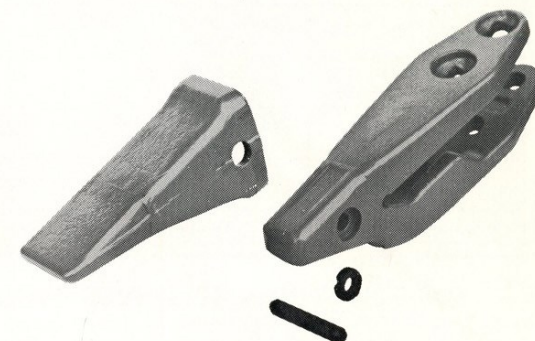
FOR THE REPAIR AND MAINTENANCE OF CATERPILLAR TYPE

ELEVATING SCRAPERS

Typical
Assembly

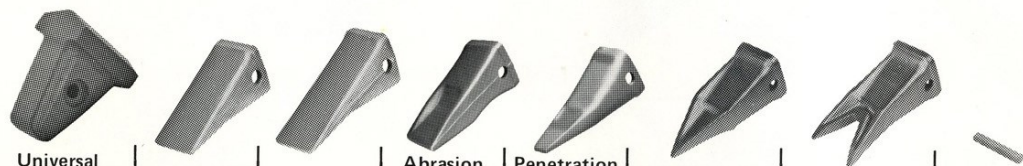


MODEL	Adapter	Tooth	Pin	Retainer	Bolt	Nut
633	HPS-7J-3194C	HP-9J-4352 HP-1U-3352	HP-7J-6845 HP-9J-2358	HP-7J-6845 HP-1U-2405		
613B	HP-9J-8455	HP-9J-4252 HP-1U-3252	HP-8J-4258 HP-9J-2258	HP-8J-5309 HP-3G-9609	HP-5F-8933	HP-2J-3506
J-619; J-621 623B; 623C	HP-9J-2307	HP-9J-4302 HP-1U-3302	HP-8J-5308 HP-9J-2308	HP-8J-5309 HP-3G-9609	(2) HP-1J-3527	(2) HP-2J-3507

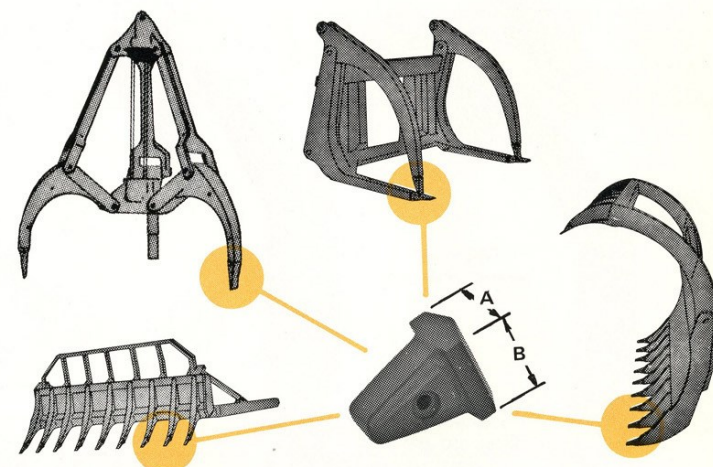


UNIVERSAL WELD-ON ADAPTERS

FOR THE REPAIR AND MAINTENANCE OF
BRUSH RAKES, CLAMSHELLS, FORKS, GRAPLES



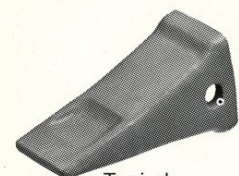
Universal Weld-on Adapter	Short Tooth	Long Tooth	Abrasion Tooth	Penetration Tooth	TGR Tooth	Twin TGR Tooth	Pin	Retainer
SHPW-7J-9554	HP-9J-4551 HP-1U-3551	HP-9J-4552 HP-1U-3552	HP-9J-4553	HP-9J-4559	HP-1U-3552T	HP-1U-3552TT	HP-9J-4558 HP-1U-1558	HP-7J-9559 HP-3G-9559
SHPW-8J-1454	HP-3G-4451 HP-1U-3451	HP-3G-4452 HP-1U-3452	HP-9J-4453	HP-9J-4459	HP-1U-3452T	HP-1U-3452TT	HP-1U-1458 HP-4T-1458	HP-7J-6845 HP-3G-9549
SHPW-9J-4354	HP-9J-4351 HP-1U-3351	HP-9J-4352 HP-1U-3352	HP-9J-4353 HP-4T-2353	HP-9J-4359	HP-1U-3352T	HP-1U-3352TT	HP-7J-6846 HP-9J-2358	HP-7J-6845 HP-3G-9549
SHPW-9J-4304	HP-9J-4301 HP-1U-3301	HP-9J-4302 HP-1U-3302	HP-9J-4303 HP-4T-2303	HP-9J-4309	N/A	N/A	HP-8J-5308 HP-9J-2308	HP-8J-5309 HP-3G-9609
SHPW-9J-4254	HP-9J-4251 HP-1U-3251	HP-9J-4252 HP-1U-3252	HP-9J-4253 HP-4T-2253	HP-9J-4259	N/A	N/A	HP-8J-4258 HP-9J-2258	HP-8J-5309 HP-3G-9609



Group	Universal Weld-on Adapter	A	B
CG-6	SHPW-7J-9554	6.00" [152]	5.25" [133]
CG-5	SHPW-8J-1454	4.50" [114]	4.75" [121]
CG-4	SHPW-9J-4354	3.50" [89]	4.25" [108]
CG-3	SHPW-9J-4304	3.50" [89]	3.50" [89]
CG-2	SHPW-9J-4254	3.00" [76]	2.75" [70]

Dimensions [Metric]

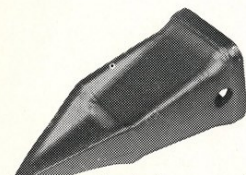
TOOTH SELECTION CHART



Typical Short Tooth



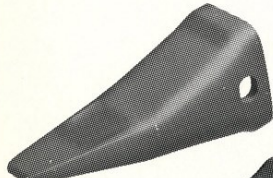
Typical Long Tooth



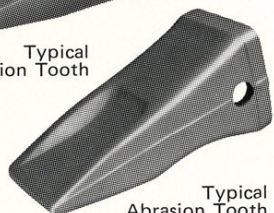
Typical TGR Tooth



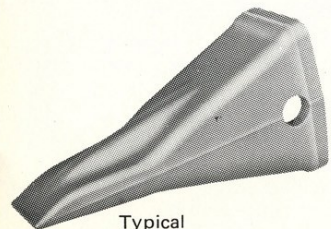
Typical Twin TGR Tooth



Typical Penetration Tooth



Typical Abrasion Tooth



Typical Ripper Tooth

GENERAL APPLICATION TEETH (CATERPILLAR TYPE)

GROUP	TOOTH	STYLE	A	B	C	D	E	F	G	PIN	RETAINER
CG-1	HP-8J-6201 HP-1U-3201	Short	5.25	2.63	1.88	2.00	1.50	1.81	2.31	HP-1U-4208	HP-4T-0001
	HP-8J-6202 HP-1U-3202	Long	6.00	3.19	2.00	2.00	1.50	1.81	2.44		
	HP-9J-4203 HP-4T-2203	Abrasive	6.00	3.19	2.00	2.00	1.50	1.81	2.44		
			152	81	51	51	38	46	62		
CG-2	HP-9J-4251 HP-1U-3251	Short	7.00	3.94	3.13	2.75	2.19	2.69	3.81	HP-9J-2258	HP-3G-9609
	HP-9J-4252 HP-1U-3252	Long	8.00	4.94	3.13	2.75	2.19	2.69	3.81		
	HP-9J-4253 HP-4T-2253	Abrasion	8.00	4.94	3.13	2.75	2.19	2.69	3.81		
	HP-9J-4259	Penetration	8.00	4.94	3.13	1.62	2.19	2.69	3.81		
CG-3	HP-9J-4301 HP-1U-3301	Short	7.88	4.44	3.50	3.06	2.56	3.00	4.00	HP-9J-2308	HP-3G-9609
	HP-9J-4302 HP-1U-3302	Long	8.88	5.44	3.50	3.06	2.56	3.00	4.00		
	HP-9J-4303 HP-4T-2303	Abrasion	8.88	5.44	3.50	3.06	2.56	3.00	4.00		
	HP-9J-4309	Penetration	8.88	5.44	3.50	1.56	2.56	3.00	4.00		
CG-4	HP-9J-4351 HP-1U-3351	Short	9.00	5.00	4.00	3.63	3.00	3.38	4.44	HP-9J-2358	HP-3G-9549
	HP-9J-4352 HP-1U-3352	Long	10.00	6.00	4.00	3.63	3.00	3.38	4.44		
	HP-9J-4353 HP-4T-2353	Abrasion	9.50	5.50	4.13	4.13	3.00	3.38	4.38		
	HP-9J-4359	Penetration	10.00	5.38	3.88	1.88	2.88	3.19	4.25		
CG-5	HP-8J-1451 HP-3G-4451 HP-1U-3451	Short	10.50	5.75	5.13	4.50	3.88	4.00	5.25	HP-4T-1458	HP-3G-9549
	HP-8J-1452 HP-3G-4452 HP-1U-3452	Long	11.50	6.75	4.94	4.50	3.88	4.00	5.06		
	HP-9J-4453 HP-4T-1453	Abrasion	11.50	6.75	5.13	5.13	3.88	4.00	5.25		
	HP-9J-4459	Penetration	12.50	7.75	4.94	.38	3.88	4.00	5.06		
CG-6	HP-7J-9551 HP-9J-4551 HP-1U-3551	Short	11.00	5.63	6.13	5.50	4.69	4.31	5.69	HP-1U-1558	HP-3G-9559
	HP-7J-9552 HP-9J-4552 HP-1U-3552	Long	13.00	7.63	6.13	5.38	4.69	4.31	5.69		
	HP-9J-4553 HP-4T-1553	Abrasion	13.00	7.63	6.13	6.13	4.69	4.31	5.69		
	HP-9J-4559	Penetration	13.69	8.31	6.13	.38	4.69	4.31	5.69		

TEETH WITHIN EACH GROUP ARE INTERCHANGEABLE

RIPPER APPLICATION TEETH (CATERPILLAR TYPE)

GROUP	TOOTH	STYLE	A	B	C	D	E	F	G	PIN	RETAINER
CR-1	HP-8J-6201 HP-1U-3201	Short	5.25	2.62	1.87	2.00	1.50	1.81	2.31	HP-1U-4208	HP-4T-0001
	HP-8J-6202 HP-1U-3202	Long	6.00	3.12	2.00	2.00	1.50	1.81	2.43		
CR-2	HP-9J-4259	Penetration	8.00	4.94	3.13	2.75	2.19	2.69	3.81	HP-9J-2258	HP-3G-9609
CR-3	HP-7J-7500 HP-9J-8910	Long	10.12	5.87	3.37	1.50	2.25	3.18	4.62	HP-9J-6583	HP-3G-9549
CR-4	HP-7J-6844 HP-9J-8920	Long	13.00	7.31	4.12	1.75	2.75	4.50	6.00	HP-9J-2358	HP-3G-9549
CR-5	HP-6J-8812 HP-3G-5451	Short	12.81	6.00	4.56	3.25	3.12	5.00	6.25	HP-4T-2479	Supplied with pin
	HP-6J-8813 HP-3G-5452	Intermediate Int / Long	14.75	8.00	4.56	3.25	3.12	5.00	6.25		
	HP-6J-8815	Long	16.25	9.62	4.56	3.25	3.12	5.00	6.25		
CR-6	HP-1U-4501 HP-3G-6501	Short	15.25	7.68	5.81	3.43	4.18	6.81	8.56	HP-3G-0500	Supplied with pin
	HP-1U-4502 HP-3G-6502	Intermediate	17.00	9.43	5.81	3.25	4.18	6.81	8.56		
	HP-1U-4503 HP-3G-6503	Long	18.75	11.18	5.81	3.00	4.18	6.81	8.56		

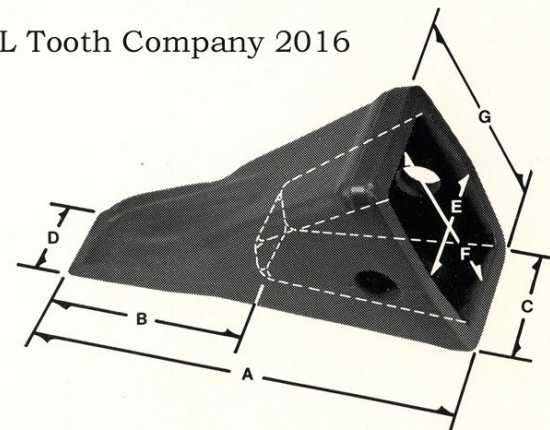
TEETH WITHIN EACH GROUP ARE INTERCHANGEABLE

RIPPER APPLICATION TEETH (KOMATSU TYPE)

GROUP	TOOTH	STYLE	A	B	C	D	E	F	G
KR-1	HP-175-78-31230	Regular	12.81	5.75	4.56	3.25	3.12	5.00	6.25
	HP-175-78-31290	Long	14.75	7.62	4.56	3.25	3.12	5.00	6.25
KR-2	HP-195-78-21331 HP-195-78-21333	Regular	14.50	6.00	5.00	2.93	3.18	6.12	7.87
KR-3	HP-198-79-11230 HP-198-79-11560	Regular	16.93	6.37	5.56	3.00	4.06	7.25	9.06
	HP-198-79-11550 HP-198-79-11551	Long	17.06	6.68	9.56	3.00	4.18	7.31	9.37

TEETH WITHIN EACH GROUP ARE INTERCHANGEABLE

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INCHES
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