

CONVERSION CHART

Hensley Original			X162	X225	X310		X400		X475		X600				
Hensley O Series	X156		X160	X220	X290	X330	X370	X410	X450	X500	X550			X800	
Hensley 5 Series		135		235	295	335	385	435		485					
Hensley 6 Series								406	506				706	806	
Hensley XS	04	05	10	15	20	25	30	40	50	70	85	115	145	250	340
MTG Kingmet	5	8	10	15	20	30	40	55	65	80	125	200	250	500	
CAT J Series		J200	J225	J250	J300	J350	J400	J460	J550		J600	J700	J800		
CAT K Series					K80	K90	K100	K110	K130		K150	K170			
Esco Super V	V13	V17-18	V19	V23	V29	V33	V39	V43	V51	V59	V61	V69	V71	V81	S95
Helilok Vertilok		17	19	21	27		37	47	57		67				
Esco Conical		18	25	30	35	40	45	50	55	65	70		77		
Super Conical							46		56		66	76	86		
Combi C-lock			C0	C1	C2	C3	C3.5	C4		C5		C6			
Borfors B-lock		B0	B1	B2		B3		B4		B5					
H & L	2A	23	24	25	27	31		32	33						
Komatsu K-max				15	20	25	30	40	50	70	85				
Komatsu Side Pin		WB (20X)			200 (205)		300 (207)	400 (208)		650 (209)		1000 (21N)	1600 (21T)		

Cat® K Series™ Tooth System Model Guide



DRIVE- THROUGH MODEL

950 953 962 963 / 315 318 320 321
 950 962 963 966 972 973 / 315 318 320 321 324 325
 973 980 / 320 324 325 330

SIZE

K80
 K90
 K100

HAMMERLESS MODEL

980 988 / 330 345
 988 990 / 345 365
 990 992 / 365 385
 992 / 385

SIZE

K110
 K130
 K150
 K170



DRIVE THROUGH - FOR EXCAVATORS

TIP SELECTION CHART




Description Tips

-  Wide
-  Extra Duty
-  Penetration
-  Penetration Plus
-  Spike
-  Double Spike
-  General Duty
-  Heavy Penetration
-  Heavy Abrasion
-  Extra Duty Long Life (ARM)
-  Penetration Long Life (ARM)
-  Level Edge
-  Retainer

Part Number

	K80	K90	K100
Wide	222-1080	222-1090	223-8100
Extra Duty	220-9081	220-9091	220-9101
Penetration	220-9082	220-9092	220-9102
Penetration Plus	220-9083	220-9093	220-9103
Spike	220-9087	220-9097	220-9107
Double Spike	220-9088	220-9098	220-9108
General Duty	220-9089	220-9099	220-9109
Heavy Penetration	222-1081	222-1091	223-8101
Heavy Abrasion	222-1082	222-1092	223-8102
Extra Duty Long Life (ARM)	229-7080	232-0090	232-0100
Penetration Long Life (ARM)	229-7081	232-0091	232-0101
Level Edge	232-0082	232-0092	232-0102
Retainer	220-9090	220-9090	220-9090

Adapters

-  HEX Two Strap CNTR
-  HEX Two Strap Corner RH
-  HEX Two Strap Corner LH
- * HEX Two Strap Corner RH
- * HEX Two Strap Corner LH
- # HEX Straight Corner RH
- # HEX Straight Corner LH

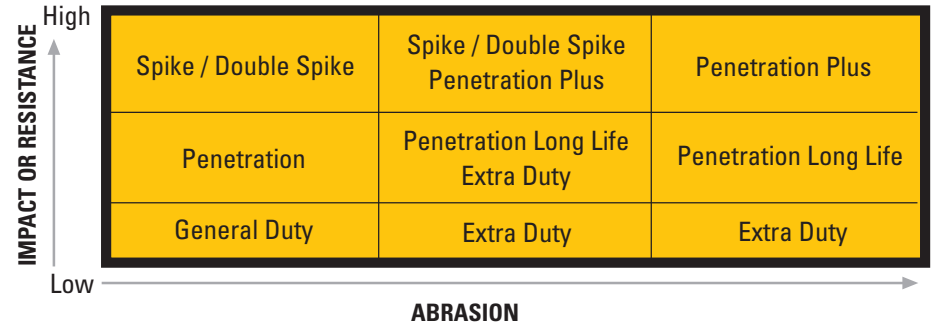
Part Number (Base Edge Thickness)

	220-9084 (36mm)	220-9094 (40mm)	220-9104 (45mm)
HEX Two Strap CNTR	220-9084 (36mm)	220-9094 (40mm)	220-9104 (45mm)
HEX Two Strap Corner RH	220-9085 (36mm)	220-9095 (40mm)	220-9105 (45mm)
HEX Two Strap Corner LH	220-9086 (36mm)	220-9096 (40mm)	220-9106 (45mm)
* HEX Two Strap Corner RH	232-2085 (36mm)	232-2095 (40mm)	232-2105 (45mm)
* HEX Two Strap Corner LH	232-2086 (36mm)	232-2096 (40mm)	232-2106 (45mm)
# HEX Straight Corner RH	229-7085 (36mm)	223-8095 (40mm)	232-0105 (45mm)
# HEX Straight Corner LH	229-7086 (36mm)	223-8096 (40mm)	232-0106 (45mm)

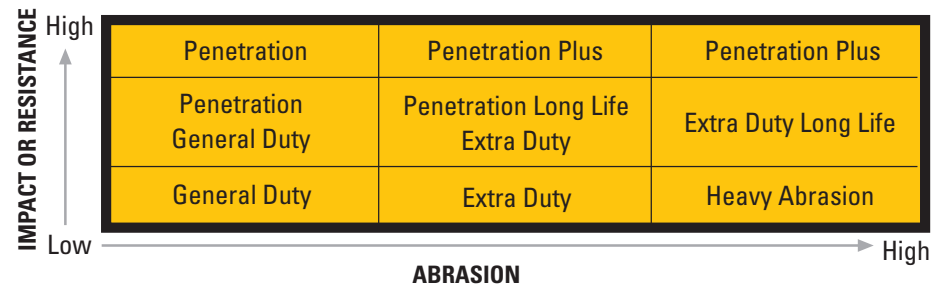
* Increased toe angle
Zero toe angle

Excavator Tip Selection (Trenching Applications)

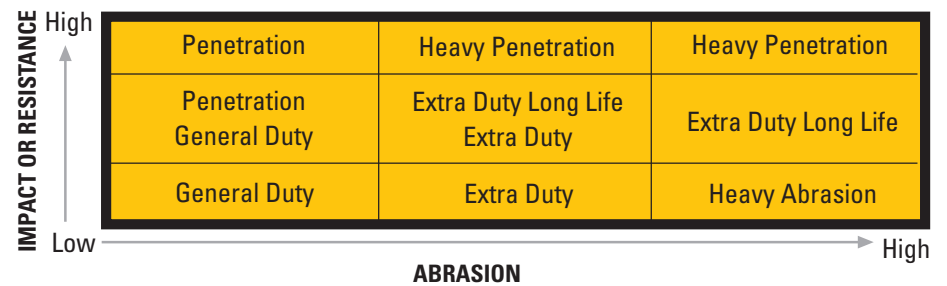
Use Wide Tip for special applications; not recommended for high impact / resistance to penetration conditions



Excavator Tip Selection (Loading Applications)



Loader Tip Selection



DRIVE THROUGH - R & I INSTRUCTIONS



DRIVE THROUGH - FOR WHEEL LOADERS

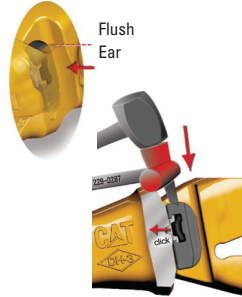
Step 1

Installation:
Insert Retainer



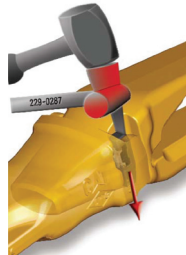
Step 2

Installation:
Hammer Retainer
Into Place Until Flush
With Ear



Step 3

Removal:
Drive Retainer
Through Tip



HAMMERLESS - R & I INSTRUCTIONS

Step 1

Insert Retainer



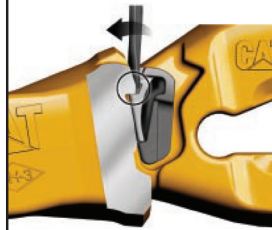
Step 2

Press Retainer Down



Step 3

Retainer Removal



Description Tips

	Wide
	Extra Duty
	Penetration
	Penetration Plus
	Spike
	Double Spike
	General Duty
	Heavy Penetration
	Heavy Abrasion
	Extra Duty Long Life (ARM)
	Penetration Long Life (ARM)
	Level Edge
	Retainer

Part Number

K80	K90	K100
222-1080	222-1090	223-8100
220-9081	220-9091	220-9101
220-9082	220-9092	220-9102
220-9083	220-9093	220-9103
220-9087	220-9097	220-9107
220-9088	220-9098	220-9108
220-9089	220-9099	220-9109
222-1081	222-1091	223-8101
222-1082	222-1092	223-8102
229-7080	232-0090	232-0100
229-7081	232-0091	232-0101
232-0082	232-0092	232-0102
220-9090	220-9090	220-9090

Adapters

	LDR Two Strap CNTR
	LDR Two Strap RH
	LDR Two Strap LH
	LDR Two Strap Long Life CNTR (ARM)
	LDR Two Strap Long Life RH
	LDR Two Strap Long Life LH
	LDR Flushmount CNTR
	LDR Bolt-On Corner RH
	LDR Bolt-On Corner LH
	LDR Bolt-On CNTR
	LDR Bolt-On CNTR

Part Number (Base Edge Thickness)

	222-1094 (40mm)	223-8104 (45mm)
	222-1095 (40mm)	223-8105 (45mm)
	222-1096 (40mm)	223-8106 (45mm)
		229-7100 (45mm)
		229-7101 (45mm)
		229-7102 (45mm)
229-7084 (25-38)	229-7094 (32-45)	229-7104 (38-51)
222-1088 (32/25)	229-7098 (40/32)	223-8108 (45mm)
222-1089 (32/25)	229-7099 (40/32)	223-8109 (45mm)
229-7087 (25mm)	223-8097 (32mm)	
222-1087 (32mm)	222-1097 (40mm)	223-8107 (45mm)



HAMMERLESS - FOR LARGE EXCAVATORS



HAMMERLESS - FOR LARGE WHEEL LOADERS

Description Tips

	Wide
	Extra Duty
	Penetration
	Penetration Plus
	Spike
	Double Spike
	General Duty
	Heavy Penetration
	Heavy Abrasion
	Extra Duty Long Life (ARM)
	Penetration Long Life (ARM)
	Retainer

Part Number

K110	K130	K150	K170
223-8110	223-8130	195-5151	223-8170
232-2111	264-2131	264-2151	264-2171
220-9112	220-9132	229-7152	232-0172
220-9113	220-9133	229-7153	232-0173
220-9117	220-9137	229-7157	232-0177
220-9118	220-9138	229-7158	232-0178
220-9119	220-9139	229-7159	232-0179
232-2112	264-2132	264-2152	264-2172
223-8112	223-8132	229-7156	232-2178
232-0110	232-2130	232-0150	233-7170
232-0111	232-2131	232-0151	233-7171
220-9110	220-9130	233-7150	232-0170

Adapters

	HEX Two Strap CNTR
	HEX Two Strap Corner RH
	HEX Two Strap Corner LH
	* HEX Two Strap Corner RH
	* HEX Two Strap Corner LH

Part Number (Base Edge Thickness)

232-0114 (60mm)	232-0130 (70mm)	195-9154 (80mm)	232-2170 (90mm)
232-0115 (60mm)	232-0131 (70mm)	195-9155 (80mm)	232-2171 (90mm)
232-0116 (60mm)	232-0132 (70mm)	195-9156 (80mm)	232-2172 (90mm)
264-2115 (60mm)	264-2135 (70mm)	264-2155 (80mm)	264-2175 (90mm)
264-2116 (60mm)	264-2136 (70mm)	264-2156 (80mm)	264-2176 (90mm)

* Increased toe angle

Description Tips

	Wide
	Extra Duty
	Penetration
	Penetration Plus
	Spike
	Double Spike
	General Duty
	Heavy Penetration
	Heavy Abrasion
	Extra Duty Long Life (ARM)
	Penetration Long Life (ARM)
	Retainer

Part Number

K110	K130	K150	K170
223-8110	223-8130	195-5151	223-8170
232-2111	264-2131	264-2151	264-2171
220-9112	220-9132	229-7152	232-0172
220-9113	220-9133	229-7153	232-0173
220-9117	220-9137	229-7157	232-0177
220-9118	220-9138	229-7158	232-0178
220-9119	220-9139	229-7159	232-0179
232-2112	264-2132	264-2152	264-2172
223-8112	223-8132	229-7156	232-2178
232-0110	232-2130	232-0150	233-7170
232-0111	232-2131	232-0151	233-7171
220-9110	220-9130	233-7150	232-0170

Adapters

	LDR Two Strap CNTR
	LDR Two Strap RH
	LDR Two Strap LH
	LDR Two Strap CNTR
	LDR Two Strap RH
	LDR Two Strap LH
	LDR Two Strap Long Life CNTR (ARM)
	LDR Two Strap Long Life RH
	LDR Two Strap Long Life LH
	LDR Two Strap Long Life CNTR (ARM)
	LDR Two Strap Long Life RH
	LDR Two Strap Long Life LH
	LDR Flushmount CNTR
	LDR Bolt-On CNTR
	LDR Bolt-On Corner RH
	LDR Bolt-On Corner LH
	Adapter Cover CNTR
	Adapter Cover Corner
	LDR Abrasion CNTR
	LDR Abrasion Corner

Part Number (Base Edge Thickness)

232-2114 (51mm)	223-8134 (63.5mm)	195-7154 (70mm)	232-2174 (76mm)
232-2115 (51mm)	223-8135 (63.5mm)	195-7155 (70mm)	232-2175 (76mm)
232-2116 (51mm)	223-8136 (63.5mm)	195-7156 (70mm)	232-2176 (76mm)
	232-0134 (51mm)	232-0154 (63.5mm)	232-0174 (70mm)
	232-0135 (51mm)	232-0155 (63.5mm)	232-0175 (70mm)
	232-0136 (51mm)	232-0156 (63.5mm)	232-0176 (70mm)
229-7110 (51mm)	229-7130 (63.5mm)	232-2150 (70mm)	233-7174 (76mm)
229-7111 (51mm)	229-7131 (63.5mm)	232-2151 (70mm)	233-7175 (76mm)
229-7112 (51mm)	229-7132 (63.5mm)	232-2152 (70mm)	233-7176 (76mm)
	232-2134 (51mm)	233-7154 (63.5mm)	238-3174 (70mm)
	232-2135 (51mm)	233-7155 (63.5mm)	238-3175 (70mm)
	232-2136 (51mm)	233-7156 (63.5mm)	238-3176 (70mm)
232-2117 (45-51)	229-7134 (51-64)	232-2154 (64-76)	
232-2110 (50mm)			
223-8118 (50mm)			
223-8119 (50mm)			
	251-2180	232-0152	
	251-2461	232-0153	
	232-0138 (63.5mm)	232-0158 (70mm)	
	232-0139 (63.5mm)	232-0159 (70mm)	