



**ONE SOURCE  
FOR YOUR MINING  
NEEDS**



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# index

## teeth and adapters



## bucket protection



## blades



## other products







## quick selection guide

	NOSE SIZE	TOOTH SIZE	HITACHI	TEREX	CATERPILLAR	KOMATSU	KOMATSU DEMAG	LIEBHERR	MACHINE WEIGHT
<b>T2</b>	275	275	EX2500 EX2500-BE	RH120C RH120E	5230ME 6020	PC3000 PC3000-6	H1855 H241	R995 R994L	<300T
	285	285	EX3500 EX3500-3 EX3600 EX3600-BE EX3600-6	RH170	5230 5230B 6020	PC4000 PC4000-6	H285 H385S	R925J R994BL	300-350T
<b>miner</b>	95	95	EX3500 EX3500-3	RH120E	5230ME 3560B 6030	PC3000 PC3000-6	H285	R994 R9250	>350T
	110	92	EX3600	RH170 RH200	6040 6050B 5230B 6050	PC4000	H285S	R9250 9400 R9350 R994B	350-500T
	130	112	EX5500 EX5600	RH340 RH360	6060FS	PC4000 PC5500 PC5500-6	H485S	R995	500-750T
	145	122	EX9000	RH400	6090FS	PC8000	H48J5	R9800 R996	750-1000T

### Direct Replacement teeth size 95

 **DRP ESCO  
POSILOK®**

 **DRP  
BRADKEN®**



**RC**



kg	lb	Part#	DEM	SIZE
90	206	FM95A RC	30530	95
307	286	FM95A RC4	FP028HP FP028HP	95

**RCX**



kg	lb	Part#	DEM	SIZE
129	284	FM95B RCX	305PMX	95
129	284	FM95B RCX4	FP028HAXH FP028HAXH	95

**VX**



kg	lb	Part#	DEM	SIZE
103	232	FM95A VX	305VX	95
103	232	FM95A VX4	FP028HVL FP028HVL	95



kg	lb	Part#	DEM	SIZE
124	278	FM95B I	3030IS	95
124	278	FM95B I4	FP028HPS	95



F180205 UWS

F19 UWS

### Direct replacement adapters size 95

**CLH CENTRAL CRH**



kg	lb	Part#	DEM	SIZE
197	440	30	148 5,5"	FM95A 0020-025 95
411	904	30	148 5,5" 99 5,5"	FM95B CLR PWR-025 95
411	904	30	148 5,5" 99 5,5"	FM95B CRH PWR-025 95

**DPNA DOUBLE  
EXPANSION PIN**



**FLUIDA  
ENGINEERING**

L	kg	Part#	DEM	SIZE
280	61	4,2	FM95B DPNA	3000PM 95
11"	13	4,2	FM95B DPNA	3000PM 95

**RPN**



**DRP SINGLE  
EXPANSION PIN**

L	kg	Part#	DEM	SIZE
280	61	4,2	FM95B RPN	3000PM 95
11"	13	4,2	FM95B RPN	3000PM 95

**WC**



kg	lb	Part#	DEM	SIZE
22	49	FM95B WC	WC30	95

**WN**

kg	lb	Part#	DEM	SIZE
79	174	FM95B WN	WN05	95



up to 800T  
machines



### EXTFM

Pin Extractor for  
STANDARD pins  
FM920 PN, FM1120  
PN and FM1220 PN



### standard pin



### teeth with 2 pin options

L	W	g	h	kg	lb	Part#	CEM	Teeth Size
147	5,8	35	1,5	1,2	2,6	FM920 PN	CRP PMS2C	92 110
158	6,3	44	1,7	1,6	3,5	FM1120 PN	CRP PML12HC	112 130
180	7,4	50	2,0	2,3	5,0	FM1220 PN	CRP PML22HC	122 145



### hammerless pin



L	W	g	h	kg	lb	Part#	CEM	Teeth Size
147	5,8	30	1,5	1,5	3,4	FM920 BLK	92TK PN	92 110
158	6,3	44	1,7	1,8	4,0	FM1120 BLK	112TKPN-B	112 130
180	7,1	40	1,7	3,8	8,5	FM1220 BLK	122TKPN	122 145



Miner teeth will fit onto an  
Esco® Standard Posilok® as well  
as a Posilok® Plus Intermediate  
adapter.

FUTURA Miner Intermediate  
adapters will fit onto Esco®  
Posilok®, Hensley®, Caterpillar®  
or Brackley® adapters.

Esco® Posilok® and Posilok® Plus  
teeth will fit onto Futura Miner  
Intermediate adapters.

# Futura Miner up to 800T machines

## solid teeth

Solid teeth are directly assembled on the adaptor. No need of intermediate adaptors.

### RC



W	H	Part	CSM	USE HOUR
137	403	FM1160 RC		110
184	403	FM1300 RC2		120
		FM1450 RC2		140

### RC2



W	H	Part	CSM	USE HOUR
137	403	FM1160 RC		110
184	403	FM1300 RC2		120
		FM1450 RC2		140

## hammerless pins

FUTURA ENGINEERING



FLAK		DPNA		
L	W	Part	USE HOUR	
305	507	5,8 71,7 FM1160 FLAK2	FM1160 DPNA	110
267	504* <sup>1</sup>	6 12,5 FM1300 FLAK2	FM1300 DPNA	120
305	517* <sup>1</sup>	5,7 71,9 FM1450 FLAK	FM1450 DPNA	140

## teeth with extra wear material



### RCXL



W	H	Part	CSM	USE HOUR
77	370	FM120 RCXL	DP-120XHL, 1270XHL	92 110
99	325	FM1120 RCXL	DP-1120XHL, 1270XHL	112 120
124	377	FM1220 RCXL	DP-1220XHL, 1270XHL	122 140

### RCX



W	H	Part	CSM	USE HOUR
64	340	FM120 RCX	DP-120XHL, 1270XHL	92 110
82	280	FM1120 RCX	DP-1120XHL, 1270XHL	112 120
119	377	FM1220 RCX	DP-1220XHL, 1270XHL	122 140

### RCXLHL

W	H	Part	CSM	USE HOUR
77	377	FM120 RCXLHL	DP-120XHL, 1270XHL	92 110
99	325	FM1120 RCXLHL	DP-1120XHL, 1270XHL	112 120
124	377	FM1220 RCXLHL	DP-1220XHL, 1270XHL	122 140

### RCXHL

W	H	Part	CSM	USE HOUR
64	340	FM120 RCXHL	DP-120XHL, 1270XHL	92 110
82	280	FM1120 RCXHL	DP-1120XHL, 1270XHL	112 120
119	377	FM1220 RCXHL	DP-1220XHL, 1270XHL	122 140

## teeth sizes 92, 112 and 122

### RC



W	H	Part	CSM	USE HOUR
61	330	FM120 RC	DP-120XHL, 1270XHL	92 110
76	307	FM1120 RC	DP-1120XHL, 1270XHL	112 120
100	377	FM1220 RC	DP-1220XHL, 1270XHL	122 140

### WT



W	H	Part	CSM	USE HOUR
43	311	FM120 WT	DP-120XHL, 1270XHL	92 110
76	307	FM1120 WT	DP-1120XHL, 1270XHL	112 120
94	377	FM1220 WT	DP-1220XHL, 1270XHL	122 140

### WTL



W	H	Part	CSM	USE HOUR
94	307	FM1220 WTL	DP-1220XHL, 1270XHL	122 140

### TL



W	H	Part	CSM	USE HOUR
		FM120 TL	DP-120XHL	92 110
65	340	FM1120 TL	DP-1120XHL	112 120
97	377	FM1220 TL	DP-1220XHL	122 140

### RCHL

W	H	Part	CSM	USE HOUR
61	330	FM120 RCHL	DP-120XHL, 1270XHL	92 110
76	307	FM1120 RCHL	DP-1120XHL, 1270XHL	112 120
100	377	FM1220 RCHL	DP-1220XHL, 1270XHL	122 140

### WTHL

W	H	Part	CSM	USE HOUR
43	311	FM120 WTHL	DP-120XHL, 1270XHL	92 110
76	307	FM1120 WTHL	DP-1120XHL, 1270XHL	112 120
94	377	FM1220 WTHL	DP-1220XHL, 1270XHL	122 140

### WTLHL

W	H	Part	CSM	USE HOUR
94	307	FM1220 WTLHL	DP-1220XHL, 1270XHL	122 140

### TLHL

W	H	Part	CSM	USE HOUR
		FM120 TLHL	DP-120XHL	92 110
65	340	FM1120 TLHL	DP-1120XHL	112 120
97	377	FM1220 TLHL	DP-1220XHL	122 140



### intermediate adapters

#### IA

4 SIDE INTER-  
MEDIATE ADAPTERS



No.	St.	Part#	Part#	Part#	Part#	Crack	Stk
104	271	FBI104-020 IA	S120H22K	S120H22K			150
110	427	FBI108-020 IA	S120H4122K	S120H4122K			150
104	271	FBI104-020 IA	S120H4122K	S120H4122K			150
104	271	FBI104-020 IA	S120H4122K	S120H4122K			150

#### IA

8 SIDE IN-  
TERMEDIATE  
ADAPTERS



TWO  
LOCKING  
OPTIONS:  
ESCO®  
SIDEWINDER®  
OR FUTURA  
DPNA PIN

No.	St.	Part#	Crack	Stk
101	271	FBI108W020 IA	S120W020K	S120W020K
100	271	FBI108W020 IA	S120W122K	S120W122K
		FBI108W020 IA	S120W122K	S120W122K
102	444	FBI108W020 IA	S140W122K	S140W122K

### wear caps

#### WC

FOR 4 SIDE  
INTERMEDIATE  
ADAPTERS



No.	St.	Part#	Crack	Stk
10	271	FBI100-020 WC	FBI100-020W	150
40	30	FBI108-120 WC	FBI100-120W	150
35	30	FBI108-120 WC	FBI100-120W	150
51	271	FBI108-120 WC	FBI100-120W	150

#### WC

WEAR CAPS  
FOR 8 SIDE  
INTERMEDIATE  
ADAPTERS



No.	St.	Part#	Crack	Stk
56	271	FBI088 WC	WC088	S120W020K
56	271	FBI074 WC	WC074	S120W122K
76	271	FBI068 WC	WC068	S140W122K

### hammerless pins

FUTURA  
ENGINEERING



L	No.	St.	Part#	Part#	Stk
210	527	5.0	11.7	FBI108 PNA2	FBI108 DPNA
207	204*	8	074	FBI108 PNA2	FBI108 DPNA
306	527	11.7	20.6	FBI108 PNA2	FBI108 DPNA



L	No.	St.	Part#	Stk
210	527	5.0	11.7	FBI108 DPNA
207	204*	8	074	FBI108 DPNA
306	527	11.7	20.6	FBI108 DPNA

FUTURA  
ENGINEERING

### adapters and corners



No.	St.	Part#	Crack	Stk
207	405	10 30 140 6.3"	FBI100-140	SC14-0110
207	100	10 30 140 6.3"	FBI100-140	SC15-0110
705	500	10 30 140 6.3"	FBI100-020	FBI10-0110
705	500	10 30 140 6.3"	FBI100-020	FBI10-0110

### adapter wear caps

Wear Caps will fit onto  
Esco® adapters. Use  
Futura WC1100 PW  
hammerless pin  
for assembly



WN  
WELD-ON  
NCS2



No.	St.	Part#	Crack	Stk
16	10	FBI100 WC	WC05	WC1100 PW

No.	St.	Part#	Crack	Stk
10	170	FBI020	KLAS10W	FBI010 FL020
10	170	FBI010	KLAS10W	FBI010 FL020

No.	St.	Part#	Crack	Stk
15	10	FBI100 WN	WN110	150
40	100	FBI100 WN	WN100	150
404	206	FBI100 WN	WN100	150





# Futura MINER compatible with Hensley TS®

lip shrouds and  
corner shrouds  
for Hensley cast  
edges



lip shrouds  
and protectors

LWS  
LOWER  
WING SHROUD

W	H	L	W	W	W	W	W	W
125	6.2"	11.8"	2.0"	F225 LWS	W225	F48	W48	W48

LS  
LIP  
SHROUDS

W	H	L	W	W	W	W	
238	6.6"	30	387	851	F238X850 LS	LS330M435	LS3300700
			455	1,031	F238X1030 LS	LS330M6000B	LS3302350
245	6.6"	30	345	761	F245X760 LS	LS345016000	LS34519000*
			472	1,030	F245X1030 LS	LS345022000*	LS345032000*

\*Steel width equal to depth of Hensley die cavity.

base, pin  
and tool

base



W	H	W	W
6.0	1.0	F26	T06

pin



W	H	W	W
6.7	0.5	F27	T07



ENTLS

# Futura TWISTER

compatible  
with Esco SuperV®

up to 400T machines  
standard or hammerless



direct replacement teeth



kg lb	Part	OM	SIZE
22 49	FT019-S	V615AL	61
41 90	FT038-S	V602PL	69



kg lb	Part	OM	SIZE
47 105	FT010-RPHD	V615AL	61
64 141	FT060-RPHD	V602AL	68
89 196	FT210-RPHD	V715AL	71



kg lb	Part	OM	SIZE
25 76	FT010-WTL	V612PV	61



**EXTFT**  
EXTRACTION TOOLS  
EXTFT-3061  
SIZE 61  
EXTFT-6081  
SIZE 69-71-81



kg lb	Part	OM	SIZE
28 61	FT010-VTL	V6101-SD12FE	61
40 89	FT030-VTL	V601X	69
51 112	FT210-VTL	V715X	71
80 176	FT010-VTL	V610X	81



kg lb	Part	OM	SIZE
33 73	FT010-RC	V6130-9043PH-3W500X	61
47 102	FT030-RC	V602D	69
57 124	FT210-RC	V715D	71
90 199	FT010-RC	V615D	81



kg lb	Part	OM	SIZE
28 62	FT030-I	V610Y	61
44 97	FT030-I	V601YL	69
54 119	FT210-I	V710YL-V715YL	71
87 191	FT030-I	V610YL-V615YL	81



**PN HPN**  
HOT SLAG

kg lb	Part	OM	SIZE
0.5 1.1	FT010-PN	V601PN	A 61
0.5 1.1	FT010-BPN	V601BPN	B
0.8 1.7	FT030-PN	V601PN	A 69
0.7 1.5	FT030-BPN	V601BPN	B 69
0.8 1.8	FT210-PN	V710PN	A 71
1.2 2.7	FT010-PN	V601PN	A 81

PINS COULD BE RE-USED SEVERAL TIMES ✓ FULLY COMPATIBLE WITH OTHER PRODUCTS ✓



## excavator adapters



Fig.	U	W	H	Foot	Part	DEM	SIZE
50	181	10	30	88	17°	F7610	5000-VCL
74	183	10	30	88	17°	F7609	5000-VCL
75	184	10	30	88	17°	F7609-99	6000-V60
122	187	10	30	88	17°	F7710	3007-V71
138	190	10	30	90	17°	F7710-100	3007-V71
177	190	10	30	120	17°	F7810	3000-V81
200	140	10	30	100	17°	F7810-100	6000-V81

## corner adapter



Fig.	U	W	H	Foot	Part	DEM	SIZE
252	184	10	30	90	17°	F7610 C	NCAR16LC AVSL LARA
179	184	10	30	88	17°	F7609 C	80400 8400 LA
281	190	100	17°	88	17°	F7710 C	80471 8471 LA
411	140	100	17°	100	17°	F7810 C	800400 AVSL RALL

## straddle corner



Fig.	U	W	H	Foot	Part	DEM	SIZE
67	181	88	17°	50	20°	F7610 CST	8020-V61
134	181	90	17°	70	20°	F7609 CST	8020-V60
147	180	100	17°	88	17°	F7710-100 CST	800471
210	140	120	17°	30	17°	F7810 CST	8000-021 8000-021 6000-V81
218	140	100	17°	30	17°	F7810-100 CST	6000-V81

## loader adapters



Fig.	U	W	H	Foot	Part	DEM	SIZE
58	127	17	30			F7610 LD	6012-V61
58	127	17	30	10	70	F7610 LDBL	6012A-V61
58	127	17	30	10		F7610 LDRB	6012PA-V61
80	186	17	30			F7609 LD	5030-V60
80	186	17	30	10	50	F7609 LDBL	5030-V60
80	186	17	30	10		F7609 LDRB	5030-V60
119	180	17	30			F7710 LD	5000-V71
119	180	17	30	10	100	F7710 LDBL	5000-V71
119	180	17	30	10		F7710 LDRB	5000-V71

## wear caps



Fig.	U	W	Foot	Part	DEM	SIZE
2,7	4					F0661 WC
2,7	4					F7609 WC
5,4	12					F06671 WC

## wear caps

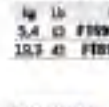
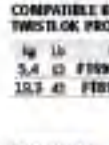


Fig.	U	W	Foot	Part	DEM	SIZE
5,4	12					F7609 BWC2P
10,7	41					F7610 BWC2
9,2	30					F7610 BWC1
10,1	29					F7609 BWC1
10,2	36					F7710 BWC1

## weld on noses

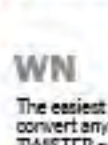


Fig.	U	W	Foot	Part	DEM	SIZE
15	40					F7609 WN
24	52					F7610 WN
34	74					F7609 WN
40	105					F7710 WN
64	105					F7810 WN

## RCXL-HL



Fig.	U	W	Foot	DEM	SIZE	
48	130					F7710 RCXL-BL
206	130					F7810 RCXL-BL
64	141					F7609 RPHD-BL
90	137					F7710 RPHD-BL

## PN-HL

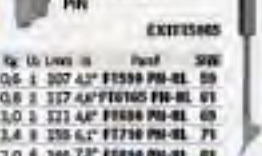


Fig.	U	W	Foot	DEM	SIZE	
0,6	1					307 4,3" F1500 PN-BL
0,8	1					317 4,4" F16100 PN-BL
3,0	3					321 4,4" F1600 PN-BL
3,4	3					335 6,2" F7710 PN-BL
2,0	4					346 7,3" F8000 PN-BL

make your old Super V adapter become a modern and reliable Hammerless system

## RPL-HL



Fig.	U	W	Foot	DEM	SIZE	
53	117					F7609 RPL-BL
26	58					F7609 I-BL
33	73					F7610 I-BL
47	100					F7609 I-BL
59	128					F7710 I-BL
91	120					F7810 I-BL

## RPHD-HL



Fig.	U	W	Foot	DEM	SIZE	
64	141					F7609 RPHD-BL
90	137					F7710 RPHD-BL

## RX-HL



Fig.	U	W	Foot	DEM	SIZE	
54	110					F7609 RX-BL
70	114					F7710 RX-BL
102	104					F7810 RX-BL

## RC-HL



Fig.	U	W	Foot	DEM	SIZE	
26	58					F7609 RC-BL
33	73					F7610 RC-BL
47	100					F7609 RC-BL
59	128					F7710 RC-BL
91	120					F7810 RC-BL

## I-HL



Fig.	U	W	Foot	DEM	SIZE	
26	58					F7609 I-BL
33	73					F7610 I-BL
47	100					F7609 I-BL
59	128					F7710 I-BL
91	120					F7810 I-BL





### RP



kg lb	Part	DEM	SIZE
44 97	FT265 RP	650G250	265

### RC



kg lb	Part	DEM	SIZE
35 77	FT265 RC	650G250	265
51 112	FT276 RC	700G250	276
66 146	FT275 RC	750G250	275
90 198	FT285 RC	850G250	285

### RX



kg lb	Part	DEM	SIZE
34 75	FT265 RX	650G276/POL	265
54 118	FT276 RX	700G276/POL	276
80 176	FT275 RX	750G276/POL	275
100 221	FT285 RX	850G276/POL	285

### VX



kg lb	Part	DEM	SIZE
31 68	FT265 VX	650G265	265
45 99	FT276 VX	700G265	276
60 132	FT275 VX	750G265	275
87 191	FT285 VX	850G265	285

### RPL



kg lb	Part	DEM	SIZE
41 90	FT265 RPL	650G245	265

### RCXL



kg lb	Part	DEM	SIZE
102 226	FT285 RCXL	850G285	285

### RXL



kg lb	Part	DEM	SIZE
117 257	FT285 RXL	850G285	285

### PN-HL



kg lb	Part	DEM
0,8 1,7	FT165 PN-HL	265
1,1 2,3	FT276 PN-HL	276
1,2 2,6	FT275 PN-HL	275
1,8 3,9	FT285 PN-HL	285

EXTR75005  
EXTRACTION TOOL

### RPHD



kg lb	Part	DEM	SIZE
37 82	FT265 RPHD	650G245L	265
51 112	FT276 RPHD	700G245L	276
107 235	FT275 RPHD	750G245L	275

## excavator adapters



kg lb	Part	DEM	SIZE
64 140	FT265-7675	6600W-650G	
95 211	FT265-7675 LH	FT265-7675 RB	
64 140	FT265-88	6600W-650G	265
97 215	FT265-88 LH	FT265-88 RB	
64 140	FT265	6600W-650G	
97 215	FT265 LH	FT265 RB	
105 231	FT276	6600W-700G	
95 187	FT276 LH	FT276 RB	276
104 229	FT276-100	6600W-700G	
92 203	FT276-100 LH	FT276-100 RB	
101 223	FT275	6600W-750G	
130 286	FT25 LH	FT275 RB	
101 223	FT275-126	6600W-750G	275
130 286	FT275-126 LH	FT275-126 RB	
109 240	FT285	6600W-850G	
163 359	FT285 LH	FT285 RB	285
104 405	688 L/FT285-110		

kg lb	Part	DEM
207 456	FT275 CLB	6600W-700G
489 1077	FT275 C88	6600W-700G
305 672	FT285 CLB	6600W-850G
610 1352	FT285 C88	6600W-850G



kg lb	Part	DEM
107 236	FT285 STL8	6600W-850G
463 1021	FT285 STR8	6600W-850G

## loader adapters



kg lb	Part	DEM	SIZE
84 184	FT265 LB	6600W-650G	
72 159	FT265 LDB		
85 187	FT265 LDBL	6600W-650G	265
72 159	FT265 LDBH		
85 187	FT265 LDBHS	6600W-650G	
84 184	FT276 LB	6600W-700G	
56 123	FT276 LDB		
87 194	FT276 LDBL	6600W-700G	276
86 190	FT276 LDBH		
99 217	FT276 LDBHS	6600W-700G	
86 190	FT275 LB	6600W-750G	
99 217	FT275 LDB		
155 341	FT275 LDBLS	6600W-750G	275
137 299	FT275 LDBH		
157 346	FT275 LDBHS	6600W-750G	

## wear caps

### FOR WHEELER ADAPTERS



kg lb	Part	DEM	SIZE
34 75	FWR750 WC	WC175	275
40 88	FWR850 WC	WC185	285

kg lb	Part	DEM	SIZE
9 25	FT265 WC	WC263	265
10 28	FT276 WC	WC270	276
17 37	FT275 WC	WC275	275
21 45	FT285 WC	WC285	285



kg lb	Part	DEM	SIZE
22 49	FT265 WCLB		265
33 73	FT276 WCLB		276
17 37	FT275 WCLB		275





### RPHD



kg	lb	Part	CRM	ISO
54	121	FX009 RPHD	X0050P9	009
71	157	FX109 RPHD	X0105P9	109
106	233	FX149 RPHD	X0145P9	149



### TL



kg	lb	Part	CRM	ISO
26	57	FX009 TL	X0007V	009
39	85	FX109 TL	X0107V	109
52	115	FX149 TL	X0147V	149
84	185	FX249 TL	X0207V	249
120	265	FX349 TL	X0307V	349



### RC



kg	lb	Part	CRM	ISO
29	64	FX009 RC	X0009C	009
46	101	FX109 RC	X0109C	109
62	137	FX149 RC	X0149C	149
90	199	FX249 RC	X0209C	249
128	282	FX349 RC	X0309C	349



### SYL



kg	lb	Part	CRM	ISO
20,0	44	FX009 SYL	X0000L	009

### RPHD

kg	lb	Part	CRM	ISO
78	171	FX009 RPHD	X0100P9	009
106	233	FX009 RPHD	X0100P9	009

### TL

kg	lb	Part	CRM	ISO
45	99	FX009 TL	X0007V	009
62	137	FX109 TL	X0107V	109
89	195	FX209 TL	X0207V	209
126	278	FX309 TL	X0307V	309

### RC

kg	lb	Part	CRM	ISO
52	114	FX109 RC	X0109C	109
72	159	FX109 RC	X0109C	109
118	260	FX209 RC	X0209C	209
121	266	FX309 RC	X0309C	309

### PN

kg	lb	Part	CRM	ISO
2	4	FX009 PN	X0000P9	009
3	6	FX109 PN	X0100P9	109
4	8	FX149 PN	X0140P9	149
5	11	FX249 PN	X0200P9	249
6	13	FX349 PN	X0300P9	349

## excavator adapters



kg	lb	Part	CRM	ISO
49	107	FX009-75	X0000L75	009
68,5	150	FX109-75	X0100L75	109
78	171	FX109-75 LH	X0100L75	109
78	171	FX109-75 RH	X0100L75	109
46	101	FX109-90	X0100L90	109
57,5	127	FX109-90 LH	X0100L90	109
57,5	127	FX109-90 RH	X0100L90	109
64,5	142	FX109-90W	X0100L90W	109
69	152	FX109-90W LH	X0100L90W	109
69	152	FX109-90W RH	X0100L90W	109
105	231	FX149-100	X0140L100	149
106	233	FX149-100 LH	X0140L100	149
106	233	FX149-100 RH	X0140L100	149
105	231	FX149-100	X0140L100	149
100	220	FX249-140	X0240L140	249
100	220	FX349	X0300L140	349

## wear caps



kg	lb	Part	CRM	ISO
6	13	FX109 WC	WC100	109
15	33	FX149 WC	WC140	149
17	37	FX249 WC	WC200	249
20	44	FX349 WC	WC300	349

### LWS



kg	lb	Part	CRM	ISO
20	44	FX109 LWS	W09WCL45	109
20	44	FX109 LWS	W09WCL45	109
24	53	FX209 LWS	W10WCL50	209
25	55	FX209 LWS	W10WCL50	209
28	62	FX349 LWS	W10WCL60	349
33	73	FX349 LWS	W10WCL60	349

## excavator adapters



kg	lb	Part	CRM	ISO
104	230	FX109	A0000L109	109
117	258	FX109-180	B0000L180	109
116	256	FX109-180 LH	B0000L180	109
116	256	FX109-180 RH	B0000L180	109

## cast corners



kg	lb	Part	CRM	ISO
382	843	FX149-CLH	X0140CLC	149
382	843	FX149-CRH	X0140CLC	149
384	846	FX109-CLH	A0000L109	109
384	846	FX109-CRH	A0000L109	109

### Universal Hammerless solution

With the design of a quick and easy replacement assembly, FUTURA fastening solutions contribute to reduce machine's downtime. Hammering is avoided and parts remain perfectly locked in place. 100% Compatible with OEM adapters.

The FUTURA HL2 system works only with FUTURA teeth but is fully compatible with other Direct Replacement Parts Caterpillar side pin adapters.



**FUTURA DRP: universal hammerless side pin solution 100% compatible with caterpillar side pin adapters**

### VTL



kg	lb	Part	Quantity	SH
34	75	FC048 VTL	107-0609	68
45	99	FC049 VTL	41-4702	79

### RPL



kg	lb	Part	Quantity	SH
80	175	FC046 RPL	79-0002	68

### L



kg	lb	Part	Quantity	SH
22	48	FC044 L	8-6602	68

### SYL



kg	lb	Part	Quantity	SH
45	99	FC046 SYL	119-0007	68

### RP



kg	lb	Part	Quantity	SH
32	71	FC048 RP	61-6003 RP	68
45	99	FC049 RP	41-4702 RP	79
100	220	FC046 RP	61-6003	68

### RPHD



kg	lb	Part	Quantity	SH
61	135	FC046 RPHD	125-0400	68
75	165	FC048 RPHD	125-0700	79
125	275	FC046 RPHD	125-0400	68

### WTL



kg	lb	Part	Quantity	SH
40	88	FC046 WTL	61-6002 WTL 125-0400	68
54	120	FC048 WTL	41-4702 WTL	79

### TL



kg	lb	Part	Quantity	SH
60	132	FC046 TL	61-6002 TL, 927-9009	68
44	97	FC048 TL	41-4702 TL	79
68	150	FC046 TL	75000Y	68

### P



kg	lb	Part	Quantity	SH
27	59	FC046 P	31-7628	68
37	81	FC048 P	41-4702	79
55	121	FC046 P	117-0609	68

### RC



kg	lb	Part	Quantity	SH
40	88	FC046 RC	61-6002 RC, 119-0009	68
50	110	FC048 RC	41-4702 RC	79
60	132	FC046 RC	-	68

### HL2 exclusive pin with two locking options



Part	Quantity	Quantity	SH
FC046HL2	61-6002	61-6002	68
FC048HL2	119-0009	119-0009	79
FC046HL2	41-4702	41-4702	79
FC048HL2	119-0009	119-0009	68
FC046HL2	119-0009	119-0009	68





bolt-on  
shrouds



excavator  
adapters

weld-on  
shrouds

wear  
caps



W	D	A	W	H	W	W	Part
420	90	22	-	-	-	-	F70 L50R
44,7	95	20	25	1,7	25	1,7	F70 L50R LH
44,7	95	22	15	-	-	-	F70 L50R RH

W	D	A	W	H	W	W	Part
66,3	75	65	-	-	-	-	F90 L50R
72,7	200	66,3	15	98	1,7	1,7	F90 L50R LH
72,7	200	65	15	-	-	-	F90 L50R RH

W	D	A	W	H	W	W	Part
66,3	75	65	-	-	-	-	F100 L50R
66,3	75	440	65	11	100	1,7	F100 L50R LH
66,3	75	65	15	-	-	-	F100 L50R RH

W	D	A	W	H	W	W	Part
64	161	-	-	-	-	-	FC200-S-04004
65	164	22	20	2,6	20	2,6	FC200-LH
65	164	22	20	2,6	20	2,6	FC200-RH
64	161	-	-	-	-	-	FC200-S-04004
63	200	22	20	6,1	6,1	6,1	FC200-S-04004
62	201	-	-	-	-	-	FC200-S-04004
62	200	25	20	6,1	6,1	6,1	FC200-LH
62	200	25	20	6,1	6,1	6,1	FC200-RH
62	200	25	20	6,1	6,1	6,1	FC200-S-04004
62	200	25	20	6,1	6,1	6,1	FC200-LH
62	200	25	20	6,1	6,1	6,1	FC200-RH

W	D	A	W	H	W	W	Part
19	48	22	-	-	-	-	F70 L5
20	48	20	22	15	20	1,7	F70 L5 LH
20	48	22	15	-	-	-	F70 L5 RH
24	70	22	15	-	-	-	F90 L5
26	70	14,7	15	15	140	1,7	F90 L5 LH
26	70	14,7	15	15	140	1,7	F90 L5 RH
24	70	22	15	-	-	-	F90 L5
26	70	14,7	15	15	140	1,7	F90 L5 LH
26	70	14,7	15	15	140	1,7	F90 L5 RH
24	70	22	15	-	-	-	F90 L5
26	70	14,7	15	15	140	1,7	F90 L5 LH
26	70	14,7	15	15	140	1,7	F90 L5 RH
24	70	22	15	-	-	-	F90 L5
26	70	14,7	15	15	140	1,7	F90 L5 LH
26	70	14,7	15	15	140	1,7	F90 L5 RH

W	D	A	W	H	W	W	Part
14	15	-	-	-	-	-	3,7 x F600 WC 2 60
14	15	-	-	-	-	-	3,7 x F700 WC 2 70
14	15	-	-	-	-	-	3,4 x F800 WC 2 80



loader  
adapters



wear  
caps



noses

W	D	A	W	H	W	W	Part
64	140	22	15	76	1,7	1,7	FC60-S
70	171	22	17	115	2,6	2,6	FC70-S
80	214	22	17	150	3,7	3,7	FC80-S
80	214	22	17	150	3,7	3,7	FC80-S LH
80	214	22	17	150	3,7	3,7	FC80-S RH
80	214	22	17	150	3,7	3,7	FC80-S LH
80	214	22	17	150	3,7	3,7	FC80-S RH
127	277	22	15	-	-	-	FC120-S

WN

WELD-ON  
CONVERSION NOSES

W	D	A	W	H	W	W	Part
26,0	70	-	-	-	-	-	WN-60
66,3	70	-	-	-	-	-	WN-70
66,3	70	-	-	-	-	-	WN-80

Optional Wear Caps  
add extra resistance to  
FUTURA adapters.

**Futura**  
will fit KOMATSU K  
system parts

**Futura**



**RC**

Hg	Lb	Part#	CEM	S&S
24	54	FKM799 RC	K709C	79
26	62	FKM859 RC	K809C	85



**SYL**

Hg	Lb	Part#	CEM	S&S
24,6	54	FKM799 SYL	K709YL	79
29	64	FKM859 SYL	K809YL	85



**TL**

Hg	Lb	Part#	CEM	S&S
26	57	FKM859 TL	K857	85



**RPHD**

Hg	Lb	Part#	CEM	S&S
36	39,4	FKM799 RPHD	K709P2	79
54	60	FKM859 RPHD	K859P2	85



**PN**

Hg	Lb	Part#	CEM	S&S
1,7	3,8	FKM799 PN	K770PC	79
2	4,4	FKM859 PN	K859L	85



**X** EXCAVATOR  
ADAPTER

Hg	Lb	H	B	Part#	CEM	S&S
48,7	107	25"	18" 20"	FKM859-25	K300M85	85



## roll bar



A	B	C	D	E	F	G	H	Part No.	Desc.
30	1.5"	2.25"	1"	1.5"	1.5"	4	1.5"	FR100	240-4294
35	1.75"	2.5"	1.125"	1.75"	1.75"	5	1.75"	FR100	240-4297
40	2"	2.75"	1.25"	2"	2"	6	2"	FR100	240-4298



## chocky bar



A	B	C	D	E	F	G	H	Part No.	Desc.
25	0.875"	1.5"	0.5"	1.5"	1.5"	2	1.5"	FR100, FR100-CR	FR100, FR100-CR, CR100, CR100-CR
30	1.125"	1.75"	0.625"	1.75"	1.75"	3	1.75"	FR100-CR	FR100-CR, CR100-CR
35	1.375"	2"	0.75"	2"	2"	4	2"	FR100-CR	FR100-CR, CR100-CR
40	1.625"	2.25"	0.875"	2.25"	2.25"	5	2.25"	FR100-CR	FR100-CR, CR100-CR
45	1.875"	2.5"	1"	2.5"	2.5"	6	2.5"	FR100-CR	FR100-CR, CR100-CR
50	2.125"	2.75"	1.125"	2.75"	2.75"	7	2.75"	FR100-CR	FR100-CR, CR100-CR
55	2.375"	3"	1.25"	3"	3"	8	3"	FR100-CR	FR100-CR, CR100-CR
60	2.625"	3.25"	1.375"	3.25"	3.25"	9	3.25"	FR100-CR	FR100-CR, CR100-CR



## wear button



A	B	C	D	E	F	G	H	Part No.	Desc.
58	1.375"	1.125"	0.575"	1.125"	1.125"	1	1.125"	FR100-WB	FR100, CR100, WB100
63	1.625"	1.375"	0.625"	1.375"	1.375"	2	1.375"	FR100-WB	FR100, CR100, WB100
68	1.875"	1.625"	0.675"	1.625"	1.625"	3	1.625"	FR100-WB	FR100, CR100, WB100
73	2.125"	1.875"	0.725"	1.875"	1.875"	4	1.875"	FR100-WB	FR100, CR100, WB100
78	2.375"	2.125"	0.775"	2.125"	2.125"	5	2.125"	FR100-WB	FR100, CR100, WB100
83	2.625"	2.375"	0.825"	2.375"	2.375"	6	2.375"	FR100-WB	FR100, CR100, WB100



## skid block



A	B	C	D	E	F	G	H	Part No.	Desc.
120	1.5"	2.5"	1.5"	2.5"	2.5"	24	1.5"	FR100-SB	FR100-SB
150	1.75"	2.75"	1.75"	2.75"	2.75"	30	1.75"	FR100-SB	FR100-SB

## weld-on wear pad



A	B	C	D	E	F	G	H	Part No.	Desc.
120	1.5"	2.5"	1.5"	2.5"	2.5"	24	1.5"	FR100-WP	FR100-WP



Designed for severe applications and abrasive conditions.

FUTURA buttons & bars are manufactured with 20% more wear material in the wear area and the welding plate than other standard buttons and bars.



## Extremely hard

Available in different sizes and shapes, the FUTURA Chrome white iron part is extremely hard, laminated bi-metallic, wear resistant composite with chrome-moly white iron being bonded onto a mild steel backing plate. The bonding shear strength is over 210 Mpa and will not separate.

## Consistent properties

Post bonding heat treatment is conducted to ensure the FUTURA parts have a finely dispersed microstructure and more consistent properties compared to most brands in the market.

## Hardness 700HB

The hardness of alloy, 700 brinell or HRC 63 minimum, provides maximum abrasion resistance, while the steel backing plate acts as a means of absorbing high impacts and allows easy fitting and use.

The ideal working temperature for FUTURA Bucket parts is no higher than 300°C.

## Applications

Typical applications include buckets (excavator, loader, dragline or face shovel types), crusher spider arm guards, discharge chutes, rockboxes, grizzly bars or feeders, shredder and grinding mills, sugar cane knife edges, adaptor / attachment protection, dredging equipment, screen feed distribution and feed hopper wear areas.







### loader lip shrouds



Size	W	H	L	LT	Cross Ref	W	H	L	LT	Cross Ref	W	H	L	LT	Cross Ref	Base Pin
50 2'	30	72	158	13	F50K345 L05H	TAC50K345-4L	72	158	13	F50K345 L05H	TAC50K345-4R					
65 2.5'	30	101	189	13	F65K380 L05H	LS2501500R										
70 2.5'	30	105	191	13	F70K415 L05H	TAC70K415-3L	100	191	13	F70K415 L05	TAC70K415-3R					TAB 540
	30	107	196	10	F70K410 L05H	TAC70K410-3LA	105	191	10	F70K410 L05H	TAC70K410-3RA					
75 3'	30	124	199	13	F75K430 L05H	TAC75K430-2L	125	199	13	F75K430 L05	TAC75K430-2R					
90 3.5'	30	163	199	10	F90K435 L05H	TBC90K435-2LC	159	199	10	F90K435 L05	TBC90K435-2RC					F05 700
100 3.5'	30	178	199	10	F100K430 L05H	TBC100K430-2LB	135	199	10	F100K430 L05	TBC100K430-2RB					
	22	228	459	15	F100K438R22 L05H	TBC100K430-6LA	205	459	15	F100K438R22 L05	TBC100K430-6RA					



base

pin

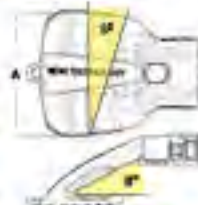
W	H	LT	Part	QTY	W	H	LT	Part	QTY
16	13	100	F05	100	16	13	100	F05	100
1.9	1.2	100	F05	100	1.9	1.2	100	F05	100
1.9	1.2	100	F05	100	1.9	1.2	100	F05	100
3.0	1.1	100	F05	100	3.0	1.1	100	F05	100

### weld-on and bolt-on lip shrouds



#### bolt-on

W	H	L	LT	Part	QTY
60.0	90	22	-	F70 L50R	
65.7	100	25	25	F70 L50R LH RH	400
65.7	100	22	25	F70 L50R RH	
68.3	102	35	-	F70 L50R	
72.7	100	35	35	F70 L50R LH RH	200
72.7	100	35	35	F70 L50R RH	
66.3	122	50	-	F100 L50R	
66.3	122	50	50	F100 L50R LH RH	400
66.3	122	50	50	F100 L50R RH	
66.3	122	50	-	F120 L50R	
108	127	50	50	F120 L50R LH	
108	127	50	50	F120 L50R RH	



#### weld-on

W	H	L	LT	Part	QTY
19	48	22	-	F70 L5	
20	41	25	25	F70 L50R	400
20	41	22	25	F70 L50R RH	
24	79	35	-	F90 L5	
26	39	35	35	F90 L50R	200
26	39	35	35	F90 L50R RH	
24	79	30	-	F100 L5	500
26	39	30	30	F100 L5 L	500
26	39	30	30	F100 L5 R	500
15	120	50	-	F120 L5	500
41	90	50	-	F120 L5	500
42	91	50	50	F120 L5 LH	500
42	91	50	50	F120 L5 RH	500
47	108	50	50	F120 L5	500





### heel shrouds

#### weld-on



DRP  
ESCO

A	B	C	H	CH	LG	U	FW	QTY/MT	Part No.
285	74F	183	7.0F	39	1.0F	12.5	29	F98 W8	ES0001-A ES0001-4X ES0001-3 ES0001-2X CR0001190-1
289	74F	204	8.0F	43	1.0F	12.5	27	F92 W8	ES0001-3 ES0001-2X CR0001190-1
293	74F	268	10.4F	64	1.0F	12.5	17	F94 W8	ES0001-3 ES0001-2X CR0001190-1
228	89F	329	12.9F	84	1.0F	12.5	19	F96 W8	ES0001-5 ES0001-2X CR0001190-1
230	89F	361	14.2F	115	4.0F	12.5	19	F96 W8	ES0001-7 CR0001190-1

#### bolt-on



A	B	C	H	CH	LG	U	FW	QTY/MT	Part No.
206	61F	127	5.0F	43	1.0F	23	4	F88 H32R	ES0001-A ES0001-4X
206	61F	127	5.0F	59	1.0F	23	4	F88 H32R	ES0001-3 ES0001-2X CR0001190-1
205	500F	268	10.0F	83	1.0F	43	19	F88 H32R	ES0001-3 ES0001-2X CR0001190-1
203	500F	328	12.0F	89	1.0F	65	19	F88 H32R	ES0001-5 ES0001-2X CR0001190-1

#### kwik-lok® style



A	B	C	H	CH	LG	U	FW	QTY/MT	Part No.	
206	206	61F	43	1.0F	12.5	29	F98 H34C	ES0001-A ES0001-4X	ES0001-A ES0001-4X	
206	218	61F	65F	43	1.0F	12.5	19	F98 H34C	ES0001-A ES0001-4X CR0001190-1	F98 H34C 01
206	264	61F	203F	65	1.0F	12.5	19	F98 H34C	ES0001-3 ES0001-2X CR0001190-1	F98 H34C 01
290	327	239F	74	2.0F	42.5	19	F98 H36	ES0001-5 ES0001-2X CR0001190-1	F98 H36 01	
204	165	23.0F	24.2F	125	4.0F	165.0F	F98 H38A	ES0001-3 CR0001190-1	F98 H38A 01	
204	178	23.0F	26.2F	121	4.0F	157	20	F98 H38A	ES0001-3 CR0001190-1	F98 H38A 01



DRP  
SANDVIK

A	B	C	H	CH	LG	U	FW	QTY/MT	Part No.	
198	128F	219	8.0F	59	1.0F	19.5	14	4	F50 H16	600408L
203	128F	247	11.7F	64	1.0F	17.0	10.4	4	F50 H16	600408R



DRP  
CATERPILLAR

A	B	C	H	CH	LG	U	FW	QTY/MT	Part No.
205	220	62F	44	1.0F	15.6	19	FC028 H6	184	184-6139
1.3F	220	62F	49	1.0F	16.0	19	FC028 H6	184	184-6101
208	222	10.7F	56	1.0F	14.5	19	FC019 H6	151	151-1018
207	224	10.7F	65	1.0F	16.0	19	FC019 H6	151	151-1022

### wear runners



#### bolt-on



A	B	C	H	CH	LG	U	FW	QTY/MT	Part No.
206	61F	206	61F	39	1.0F	9.7	19	F98 W8	KLASIMC
206	61F	206	61F	49	1.0F	12.5	17	F98 W8	KLASIMC K030W125
206	61F	206	61F	59	1.0F	15.5	19	F98 W8	KLASIMB
206	61F	206	61F	79	1.0F	16.5	19	F98 W8	KLASIMB K030W125

#### kwik-lok® style



A	B	C	H	CH	LG	U	FW	QTY/MT	Part No.
206	61F	206	61F	52	1.0F	6.4	24	F98 H16	KLASIMC
206	61F	206	61F	40	1.0F	8.0	18	F98 H16	KLASIMC
218	61F	208	14.0F	40	1.0F	10.0	19	F98 H16	KLASIMC
206	160	256	10.0F	49	1.0F	14.0	19	F98 H16	KLASIMB
206	160	256	10.0F	69	1.0F	15.0	19	F98 H16	KLASIMB
207	13.0F	307	10.0F	43	1.0F	10.0	19	F98 H16	KLASIMB
207	10.0F	307	10.0F	106	4.0F	15.0	19	F98 H16	KLASIMB

# futura cast lips

for excavators  
up to 800T

full lip  
protection  
available

enhanced  
design to reduce  
washout and wear



## compatibility

Compatible with Esco Loadmaster cast lips



F140X800 UWS  
base & pin:  
FBB, FBP  
thrust block:  
FDD33366 TB

## FLCS148S130 FRONT VIEW

F230X600 LS  
base & pin:  
FCB, FCP

FWR57B  
base & pin:  
FWB01B, FWL01B

F140X800 UWS  
base & pin:  
FBB, FBP  
thrust block:  
FDD33366 TB

F135 LWS  
base & pin:  
FAB, FAP  
thrust block:  
FDD33312 TB

F135 LWS  
base & pin:  
FAB, FAP  
thrust block:  
FDD33312 TB

FM970 WC

FM1300  
DPNA

FM1300  
DPNA

FM970 WC

FM1300W1120 IA

FM1120 HLK  
or FM1120 PN

FM1120 HLK  
or FM1120 PN

FM1300W1120 IA

FM1120 RCX

FM1120 RCX



# Futura cast lips

for excavators  
up to 800T

FACE SHOVELS	EXCAVATORS	Kg	Lb	Station	Part#	OEM	A	mm	B	in	C	D	E	B' SIZE
		6,876	15,100	5	FLCS148S130	ICS148S130	148"	3,750	4,242	167.0"				
RH200 RH340 CAT3000 EX3500	RH340 CAT3000 PC3500 EX3500 EX3600 R920	7,133	15,720	5	FLCS163S130	ICS163S130	163"	4,145	4,627	181.7"	1,066	232	591	90" 130
		7,838	17,280	6	FLCS169S130	ICS169S130	169"	4,300	4,782	188.2"	4,30"	9,10"	33,2"	
		8,812	19,420	6	FLCS201S130	ICS201S130	201"	5,105	5,587	219.6"				
		9,560	21,070	6	FLCS169S145	ICS169S145	169"	4,300	4,782	188.2"				
R996 EX3000	R996 R9900 EX3000	10,810	23,832	6	FLCS201S145	ICS201S145	201"	5,105	5,587	219.6"	1,362	244	650	90" 145
		11,125	24,520	6	FLCS220S145	ICS220S145	220"	5,588	5,587	219.6"	4,37"	9,61"	33,9"	



## Improved design

10° Spade angle for maximum penetration

**weight balance**  
pocket for mass saving enhancing strength



**strong shroud protection**



Underside shroud protection against back-blading. Ensures optimal material flow under the lip.



**perfect shroud integration**



snug face fitting



**reduced maintenance costs**

## longer life

Fit pins to facilitate reconstruction with gauges



## rounded edges and large radius

Rounded edges and large radius to reduce stresses and cracking

## rounded edges

High strength, single beam design to ensure maximum service life. Designed for the harshest digging conditions in mind. Rounded contours to minimise profile for optimal material flow into the bucket.



# Futura plate lips for excavators

bare lip



lip with welded adapters



complete lip



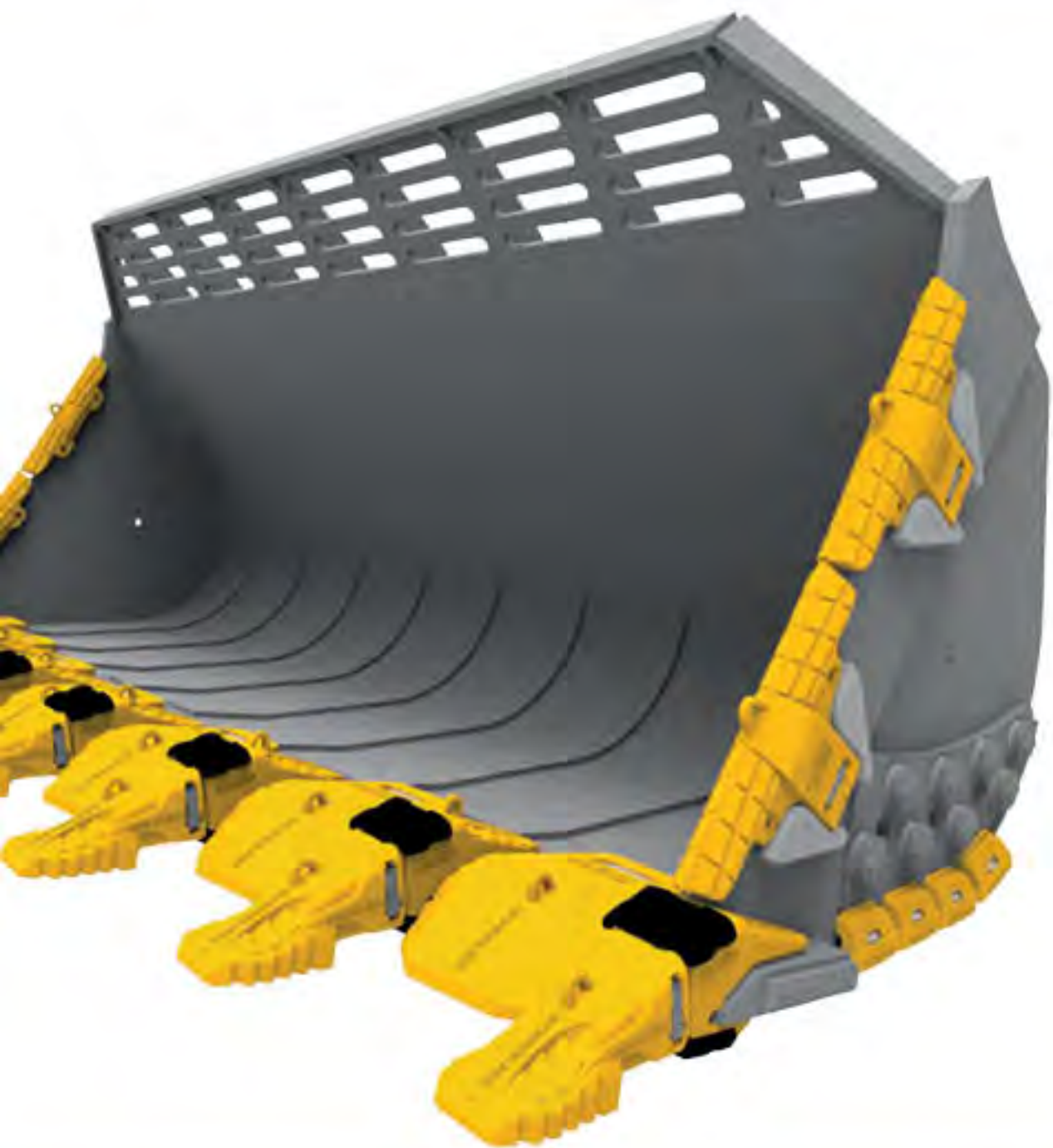
## machine guide

PLATE LIPS	LIP THICKNESS		TWISTER SIZES	T2 SIZES	X2 SIZES	MINER SIZES	HITACHI	TEREX	CATERPILLAR	KOMATSU	KOMATSU DEMAR	LIEBHERR
	MM	INCH										
<300T	100	3,94"	710	275	1450		EX2500 EX2500BE	RH120C RH120E	5230ME 6020	PC3000 PC3000-6	H185S H241	R925 R994L
	120	4,72"										
300-350T	120	4,72"	810	285			EX13500 EX13500-3 EX13600 EX13600-BE EX13600-6	RH170	5230 5230B 6020	PC4000 PC4000-6	H285 H385S	R935L R994BL
	140	5,51"										
>350T	140	5,51"				95	EX13500 EX13500-3	RH120E	5230ME 3560B 6030	PC3000 PC3000-6	H285	R994 R9250
350-600T	140	5,51"			1100	1100	EX13600	RH170 RH200	6040 6050B 5230B 6050	PC4000	H285S	R9250 R9400 R9350 R994B
	160	6,30"										



# futura buckets

wheel loader  
buckets



# Futura buckets

## face shovel buckets



FUTURA bucket for  
Caterpillar 6030



FUTURA bucket for  
Caterpillar 6030





# **futura** **buckets** excavator & lhd

## **excavator bucket**



## **load haul dump bucket**







ARM parts  
available



### US STRAIGHT SHROUDS



kg	lb	Part#	Overhaul	Size
34	75	F323236 US	6903967, SFP02123-02	
41	90	F323238 US	6903968, SFP02123-02	32
48	105	F323240 US	6903969, SFP02123-02	
59	130	F363246 US	6903971, SFP02123-02	
66	145	F363248 US	SFP02123-02, SFP02123-02	38
81	210	F363249 US	SFP02123-02, SFP02123-02	



### UT TRANSITION SHROUDS



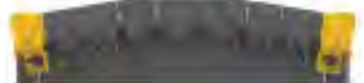
kg	lb	Part#	Overhaul	Size
39	85	F323235 UT	6903965, SFP02123-02	32
58	125	F363244 UT	6903966, SFP02123-02	38



### UC CORNER SHROUDS



kg	lb	Part#	Overhaul	Size
41	90	F323238 UCL	6903971, SFP02123-02	32
41	90	F323238 UCR	6903972, SFP02123-02	
59	130	F363245 UCL	6903973, SFP02123-02	38
66	145	F363245 UCR	6903974, SFP02123-02	



### UCH 3/4 CORNER SHROUDS



kg	lb	Part#	Overhaul	Size
39	85	F323235 UCHL	6903965, SFP02123-02	32
39	85	F323235 UCHR	6903966, SFP02123-02	
60	135	F363245 UCHL	6903973, SFP02123-02	38
60	135	F363245 UCHR	6903974, SFP02123-02	



### UCC CAST CORNERS



kg	lb	Part#	Overhaul	Size
36	78	F323235 UCCL	6903965, SFP02123-02	32
36	78	F323235 UCCR	6903966, SFP02123-02	
58	127	F363245 UCCL	6903973, SFP02123-02	38
58	127	F363245 UCCR	6903974, SFP02123-02	
70	154	F363245 UCCBL	6903969, SFP02123-02	38
70	154	F363245 UCCBR	6903970, SFP02123-02	



### HS WELD-ON HEEL SHROUDS



A	B	C	D	E	F	G	H	I	J	Part#	Overhaul
190	120	50	120	60	50	4	F323236			6903967	
240	150	64	150	70	64	4	F323238			6903969	



### FAB FUAB

BASE

kg	lb	Part#
0.90	1.97	FAB
0.90	1.97	FMB

FUAB ADAPTER

EXISTING SANDVIK BASE



### UPN

PIN

kg	lb	Part#
3.29	7.34	F3238-UPN



EXTFU  
EXTRACTION  
TOOL

ARM parts  
available



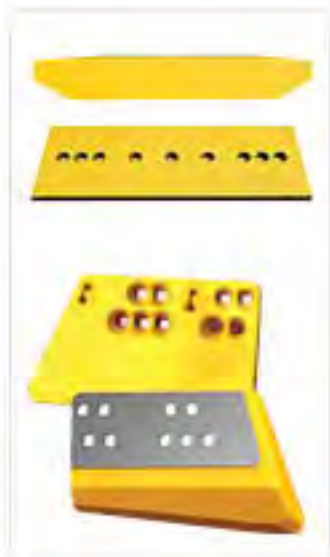
# fabricated lips

edges for: bulldozer, loader, scraper and grader



made to  
measure  
blades

- BUCKET LIPS
- LOADER EDGES
- BULLDOZER BLADES
- SCRAPER BLADES
- GRADER BLADES
- WEAR PLATES
- FLAT SECTIONS



D11-11U CATERPILLAR ASSEMBLY



D9N-9SU CATERPILLAR ASSEMBLY



**LARGE  
INVENTORY  
OF OEM  
PART  
NUMBERS**



# cast blades



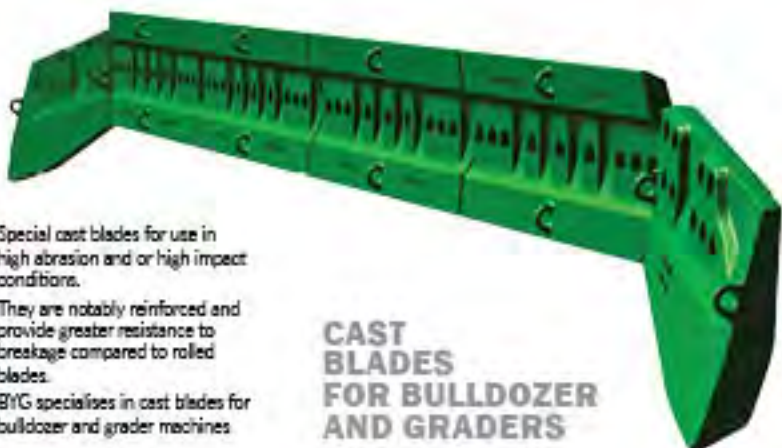
## cast blades for bulldozer and grader

Special cast blades for use in high abrasion and/or high impact conditions.

They are notably reinforced and provide greater resistance to breakage compared to rolled blades.

BYG specialises in cast blades for bulldozer and grader machines.

## CAST BLADES FOR BULLDOZER AND GRADERS



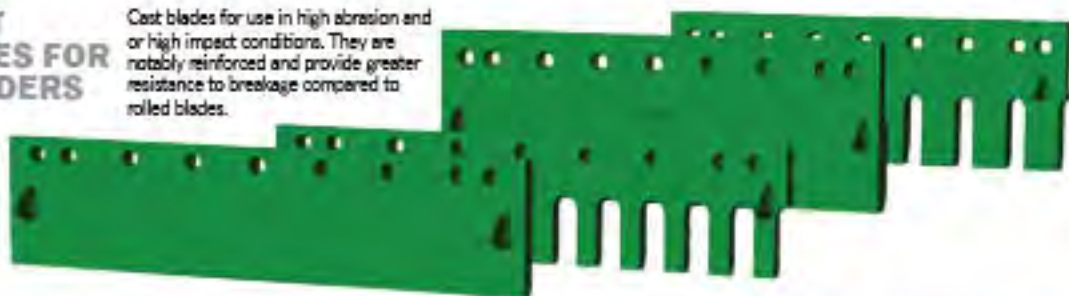
D11-11U CATERPILLAR ASSEMBLY



D9N-9SU CATERPILLAR ASSEMBLY

## CAST EDGES FOR GRADERS

Cast blades for use in high abrasion and/or high impact conditions. They are notably reinforced and provide greater resistance to breakage compared to rolled blades.



# Futura blade

FUTURA  
premium blades

+70%  
wear  
life

## FUTURA PREMIUM BLADES

Try the FUTURA 550 PREMIUM blades in applications where you use ordinary 500HB blades and gain an extra 70% service life.

# blade

## extreme performance blades





# Futura

## 550 & 600 FUTURA premium blades



FUTURA extreme performance BLADES

### FUTURA 550: +70% wear life compared to other 500 brinell boron steel



FUTURA 550 and FUTURA 600 are abrasion resistant steels with a nominal hardness of 550 and 600 HBVN.



#### Mechanical Properties

	Thickness mm	Hardness mm	Resilience CVL
FUTURA 500	8.0 - 65.0	525 - 575	30J / -40°C
FUTURA 600	6.0 - 51.0	570 - 640	20J / -40°C
	51.1 - 65.0	550 - 640	20J / -40°C

Base and bolt-on edges for bulldozers, graders or scrapers



FUTURA 600 Brinell products can be a substitute for carbide overlay cutting edges at a very affordable cost







# bimetallic edges and plates

## Overlay wear plate

Bimetallic plates are welded by chromium carbide overlay on a mild steel backing plate. Manufactured by our own design's welding machine with exclusive technique. The OVERLAY-PLATE has excellent performance in abrasion resistant.

## Chemical composition

	C	Cr	Mn	P	S	Ni	Mo	B	Fe
Min	4.1	29	2	0.05	0.015	0.015	0.015	0.001	rest
Max	5.1	35	3	1.0	0.025	0.035	0.035	1.25	rest

## Base plate specifications

TYPES OF BASE STEEL:

S235JR / S3400 or equivalent

DIMENSIONS OF BASE PLATE:

1500 X 3000 mm (59' x 118')

1250 X 2500 mm (49' x 98')

1000 X 2000 mm (39' x 79')

THICKNESS OF BASE PLATE

3 - 4 - 5 - 6 - 8 - 10 - 12 - 15 - 20 mm

CLADDING SPECIFICATIONS

Chrome, Boron, Manganese

WELDING PROCEDURE

Submerged Open Arc (SAW)

## Deposit specifications

STANDARD PLATE DIMENSIONS:

1400 X 2900 mm (55' x 114')

1150 X 2400 mm (45' x 95')

900 X 1950 mm (35' x 77')

THICKNESS:

3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 mm

Any thickness until max. of 35 mm.

WEAR RESISTANT

Abrasion, Erosion

HARDNESS

Rockwell 60-64H

Rc Brinell 590-625

Vickers 700-900

BENDING

Bend carefully in little steps with low pressure

CUTTING PROCEDURES

Plasma, water jet and laser

## COMPLETE WEAR PLATES OR CUTOUTS

## BIMETALLIC PLATES CUT TO ANY SHAPE

## AVAILABLE WIDTHS

80mm (3,12") to 3000mm (9,8')



## Applications

Ash liners, blast furnace bell & burden, elbow, sinner plant, bucket & lips, drag liners, duct, chute & hopper liners, classifier, fan blades & housings, mine car liners, cyclones, ore chutes, discharge funnels, slag chutes, dredge pump side plates, extension ring, drizzly bars, vibrator pan feeder liner, sinter breaker bar, conveyor casings, green wall crushers, steel plant, etc..



# ripper one piece machine finished ripper shanks



machine finished  
ripper shanks  
manufactured  
in one piece for  
superior strength

manufactured  
one-piece machine  
finished ripper  
shanks without any  
welding avoiding  
the risk  
of breakage  
on welded areas



### High toughness

Ripper toughness is very high even under the most difficult ripping conditions, such as low temperature / extreme ripping conditions, because we use the highest quality steel available.

### High strength

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

### Our 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 maximum wear life. We offer 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.

### Improved adapter profile

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 minimum as well as protecting the rear area of the tip.

### Better dimensional stability

with same thickness of material along the shank.



### RIPPERS

HARDNESS, Brinell HB 350HBW  
THICKNESSES 40-120mm

### TYPICAL VALUES of...

Impact Strength Charpy V notch longitudinal test piece at -40°C

for <70mm, thick plate 95J  
for >70mm, thick plate 70J

### Tensile Strength

for <70mm, thick plate 960 MPa  
for >70mm, thick plate 900 MPa





# tyres off the road radial tyres

ITR, pioneers in parts for tracked equipments, introduces this new product line for wheeled equipment - off the road Radial tyres. ITR develops tyres for extreme conditions in order to meet customer's growing requirements. Brand loyalty is our strength, customer satisfaction our priority. ITR radial tyres are best in class for mining, heavy duty construction and industrial applications. Tyres are manufactured under rigid quality control in highly capable integrated production facilities, premium casing with durable compounds which provide solid traction, long life and excellent resistance to impact punctures. Our professional expertises are dedicated in guiding you to choose the right tyre out out for the specific application with highest level of customer satisfaction and after sales support.



# chains tyre protection chains















BYG tyre protection chains offer optimum tyre protection to reduce maintenance costs. Improved stability, increased traction and better penetration for digging and break-out increased productivity in tonnage per hour. Our tyre protection chains can be used on mining applications such as open pit mining, underground mining and tunneling, quarrying, slag, and scrap and traction.





# tyres off the road radial tyres



Size	Load Index	Pattern	Tire Code	Load Index	Load Limit	Speed Rating	Max. Inflation	Max. Inflation	Max. Inflation	Max. Inflation	Max. Inflation	Application	
<b>EMR01</b>													
18.00R25	**	EMR01	E4	285	8	505	3022	102	TL	9250	EARTHMOVER		<b>EMR01</b>
<b>EMR02</b>													
20.5R25	**/*	EMR02	E3/L3	177/188	B/A2	506	1680	76/73	TL	7000/9500	EARTHMOVER/LOADER		
22.5R25	**/*	EMR02	E3/L3	185/196	B/A2	610	1546	76/73	TL	8250/12150	EARTHMOVER/LOADER		
26.5R25	**/*	EMR02	E3/L3	193/202	B/A2	660	1736	76/73	TL	11500/15000	EARTHMOVER/LOADER		<b>EMR02</b>
29.5R25	*	EMR02	L3	208	A2	745	1850	73	TL	58000	LOADER		
<b>EMR03</b>													
17.5R25	*	EMR03	G2/L1	153/178	A8/X2	455	1380	44/73	TL	3950/7300	GRADER		<b>EMR03</b>
<b>EMR04</b>													
18.00R33	**	EMR04	E4	291	8	490	1850	102	TL	50000	EARTHMOVER		
21.00R35	**	EMR04	E4	291	8	575	2080	102	TL	14500	EARTHMOVER		<b>EMR04</b>
24.00R35	**	EMR04	E4	290	8	650	2300	102	TL	18500	EARTHMOVER		
<b>EMR06</b>													
29.5R25	**	EMR06	E4	290	8	788	1893	78	TL	14000	EARTHMOVER		<b>EMR06</b>
<b>EMR08</b>													
17.5R25	*	EMR08	L5	170	A2	440	1460	73	TL	7200	LOADER		
17.5R25	**	EMR08	L5	222	A2	440	5600	94	TL	4000	LOADER		
20.5R25	*	EMR08	L5	188	A2	525	1530	73	TL	9500	LOADER		
20.5R25	**	EMR08	L5	203	A2	525	1530	94	TL	11500	LOADER		
20.5R25	*	EMR08	L5	205	A2	610	5950	73	TL	12150	LOADER		
23.5R25	**	EMR08	L5	201	A2	610	3985	94	TL	14800	LOADER		
26.5R25	*	EMR08	L5	202	A2	670	1705	73	TL	15000	LOADER		
26.5R25	**	EMR08	L5	209	A2	670	1705	94	TL	28500	LOADER		
29.5R25	*	EMR08	L5	208	A2	750	1980	73	TL	28000	LOADER		<b>EMR08</b>
29.5R25	**	EMR08	L5	214	A2	750	1800	94	TL	22400	LOADER		
<b>EMR09</b>													
20.5R25	**	EMR09	E4	177	8	450	1530	64	TL	7300	EARTHMOVER		
17.5R25	**	EMR09	E3/L3	167/178	B/A2	445	1348	76/73	TL	5450/7300	GRADER/LOADER		
18.00R25	**	EMR09	E3	185	8	495	1690	102	TL	6350	EARTHMOVER		
20.5R25	**	EMR09	E3/L3	177/188	B/A2	506	1478	76/73	TL	7300/9500	LOADER/EARTHMOVER		
22.5R25	**	EMR09	E3/L3	185/196	B/A2	595	3985	76/73	TL	8250/12150	LOADER/EARTHMOVER		
26.5R25	**	EMR09	E3/L3	193/202	B/A2	660	1740	76/73	TL	11500/15000	LOADER/EARTHMOVER		
29.5R25	*	EMR09	L3	208	A2	745	1850	73	TL	58000	LOADER		<b>EMR09</b>
29.5R25	**	EMR09	E3	200	8	745	1850	78	TL	14000	EARTHMOVER		
<b>EMR18</b>													
29.5R25	**	EMR18	E3	202	8	770	1930	78	TL	15000	EARTHMOVER		<b>EMR18</b>
<b>EMR20</b>													
35.00R33	**	EMR20	L5	224	A2	930	2050	94	TL	23000	LOADER		<b>EMR20</b>
<b>EMR82</b>													
14.00R24	**	EMR82	G2	168	8	378	1380	102	TL	5900	EARTHMOVER		<b>EMR82</b>
13.00R24	*	EMR82	G2	146	A8	380	1290	54	TL	3000	GRADER		
<b>EMS01</b>													
17.5R25	**	EMS01	L56	182	A2	425	1385	64	TL	8500	LOADER		<b>EMS01</b>
18.00R25	**	EMS01	L56	204	A2	490	1650	120	TL	36000	LOADER		
<b>TUE402</b>													
27.00R40	**	TUE402	E4	224	8	760	2790	160	228/8	27250	EARTHMOVER		<b>TUE402</b>

# undercarriage

for bulldozers

for caterpillar®

MODEL	HP	OPERATIVE WEIGHT TONS	LINK PITCH						
D8T	310	40	215	UL215C7D44	UV215C9M560	UG232COH UF232COH	UF232COH	US215C625	UX100C1F UX100C0F
D9T	410	48	240	UL240C5D43	UV240C5M610	UG262C1H UF262C1H	UF262C1H	US240C525	UX111C0F
D10T	580	66	260	UL260C9D44	UV260C8M610	UG300K0H UF300K0H	UF297C0H	US260C825	UX133C0F
D11T	850	105	317	UL317C5L41	UV317C5M710	UG354K0H UF354K1H	UF344C0H	US317C023	UX150C0F
				TRACK LINK ASSEMBLY	TRACK SHOE	TRACK ROLLER	CARRIER ROLLER	SEGMENT GROUP	FRONT IDLER

for komatsu®

MODEL	HP	OPERATIVE WEIGHT TONS	LINK PITCH						
D155AX-6	354	40	228	UL228K4L42	UV228K3M560	UG245K1H UF245K1H	UH120K0B	US228KD27	UX124K1E
D275AX-5	410	38	260	UL260K3D39	UV260K1M610	UG272K2H UF272K2H	UH122K0B	US260K325	UX122K2F
D375A-6	525	70	280	UL280K1D41	UV280K1M610	UG300K0H UF300K0H	UH136K0B	US280K225	UX136K2F
D475A-5	860	108	317	UL317K2D41	UV317K1M710 UV317K1M710G	UG354K0H UF354K1H	UH155K1B	US317K025	UX160K0F
				TRACK LINK ASSEMBLY	TRACK SHOE	TRACK ROLLER	CARRIER ROLLER	SEGMENT GROUP	FRONT IDLER











# undercarriage

for excavators

for caterpillar®

MODEL	KW	OPERATIVE WEIGHT TONS						
385CFS SERIAL EAM 1 UP	382	85	UL260E5C47	UU260E5A650	UF279C0E	UH125C1B	UR260C123	UX129C0E
D390D SERIAL WBT 1 UP	390	86	UL260E5C51	UU260E5A650	UF279C0E	UH125C1B	UR260C123	UX129C0E
			TRACK LINK ASSEMBLY	TRACK SHOE	TRACK ROLLER	CARRIER ROLLER	SEGMENT GROUP	FRONT IDLER

for komatsu®

MODEL	KW	OPERATIVE WEIGHT TONS						
PC850 SEB SERIAL 65001 UP	363	80	UL260K1W47	UU260K1M610	UF270K1E	UH126K06	UR260K025	UX127K3E
PC800 LCB SERIAL 50001 UP	370	85	UL260K1W51	UU260K1A1010	UF270K1E	UH126K0A	UR260K025	UX127K3E
PC1250 LCB SERIAL 30001 UP	502	115	UL280K0W55	UU280K0M1000	UF300K0E	UH140K0A	UR280K025	UX136K0E
PC2000-8	713	204	UL317K0P49	UY317K0A800	UF310K0E	UH142K0B	UR317K025	-
			TRACK LINK ASSEMBLY	TRACK SHOE	TRACK ROLLER	CARRIER ROLLER	SEGMENT GROUP	FRONT IDLER

for hitachi®

MODEL	KW	OPERATIVE WEIGHT TONS						
EX1800 EX1900-6	746	177	UL317H0P49	UY317H0A800	UF310H0E	UH142H0B	UR317H025	-
			TRACK LINK ASSEMBLY	TRACK SHOE	TRACK ROLLER	CARRIER ROLLER	SEGMENT GROUP	FRONT IDLER







# fasteners



## Higher head

Heads 20% higher than American Standard B 16.2.1. Higher heads mean longer wear life and maximum holding for the nut.

## SAE grade marks

Radial marks indicate the grade of SAE strength. Six marks on the head guarantee the quality grade 12.9 / 35-38 Rockwell (113/124 Kg/mm<sup>2</sup>)

## 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 BYG bolts and nuts provide a strong hold eliminating the risk of breakage.

## Fine Grade Steel

The fine grade steel provides an even microstructure improving resistance and 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.



## Fasteners quality 12.9

Pretensile strength 120,000 lb/pulg<sup>2</sup>  
Elastic load limit 150,000lb/pulg<sup>2</sup> Hardness hexagonal fasteners: 33 to 39 Rockwell C  
Hardness plow & track bolts: 37 to 42 Rockwell C



# oem parts



BYG can provide assistance and spare parts for your entire mining fleet of machines and engines, both Caterpillar and other brands. Whatever parts you need, simply call our customer service for a fast and customized quotation. Alternatively you might find your original part numbers on the BYGOnline shopping service.





# aftermarket

BYG offers a complete line of quality repair parts at competitive prices. BYG also offers comprehensive resources for dealers, including the following benefits: We stock high-quality OEM brands, as well as great aftermarket brands and access to an extensive amount of major OEM product lines. We have long-established, positive relationships with Original Equipment Manufacturers (OEM) and Aftermarket Accessory Brands. Our sales team and customer service representatives are unparalleled. Due to their extensive knowledge, responses are quick and timely. With our extensive product offering, we have the sales history and data to decipher which parts sell the most, and offer correlating line options for our customers.



Hydraulic Kits



Cylinder Head



Forged crankshafts



Engines and Blocks



Bearings



Injection



Bushings & Bearings



Water, oil, transmission and hydraulic pumps



Radiators, fans and oil coolers



Crowns and pinions, gears, final drive, differential...



Electric parts, engine starters, alternators...



Specialist in aftermarket parts for:

- Caterpillar
- Komatsu
- Cummins
- Detroit Diesel
- Volvo

**BULLDOG** 

**ITR**  
PASSION FOR PARTS

# services



365  
24h



specific  
filters



quick  
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