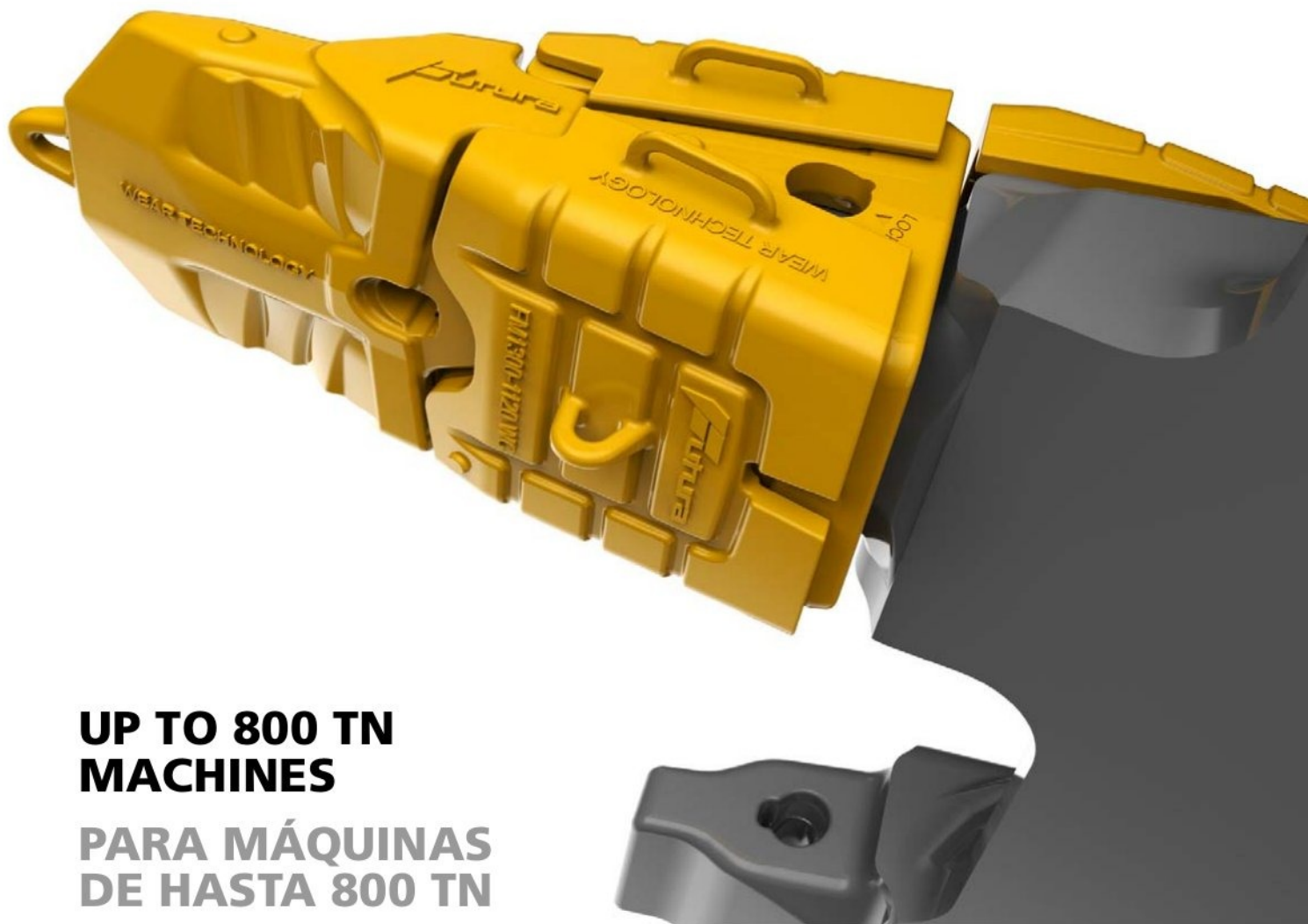


miner



**UP TO 800 TN
 MACHINES**

**PARA MÁQUINAS
 DE HASTA 800 TN**

				95
RC	RCX	VX	I	
FM950 RC	FM950 RCX	FM950 VX	FM950 I	
FM950 RC4	FM950 RCX4	FM950 VX4	FM950 I4	

	SOLID TOOTH DIENTES SÓLIDOS	110
	RC	
	-	
	FM1100 RC	110
	FM1300 RC2	130

							110
RC	RCX	RCXL	TL	WT	IA	IA	
FM920 RC	FM920 RCX	FM920 RCXL	FM920 TL	FM920 WT	FM1100-920 IA	FM1100W920 IA	
FM1120 RC	FM1120 RCX	FM1120 RCXL	FM1120 TL	FM1120 WT	FM1300-1120 IA	FM1300W1120 IA	130
FM1220 RC	FM1220 RCX	FM1220 RCXL	FM1220 TL	FM1220 WT	FM1300-1220 IA	FM1300W1220 IA	145
					FM1450-1220 IA	FM1450W1220 IA	

MINER

Assembly and compatibility chart

SIZES 1100, 1300 and 1450













DRP POSILOK®
CATERPILLAR®

DRP KOMATSU®
BRADKEN®

				
FUTURA	POSILOK®	POSILOK® PLUS	4 FACE	8 FACE
 oem or FUTURA	 oem or FUTURA	 oem	 	 FUTURA or OEM
 oem or FUTURA	 oem or FUTURA	 oem	 	 FUTURA or OEM
 oem or FUTURA	 oem or FUTURA	X	 POSILOK® 	 oem
 oem or FUTURA	 oem or FUTURA	 oem	 POSILOK® PLUS 	 oem
<h1>SIZE 1100-1450</h1>			 	 FUTURA or OEM

SIZE 950

SIZE 950

				
 4 FACE	 8 FACE	 POSILOK®		
 FUTURA or OEM	 FUTURA or OEM	 FUTURA or OEM	 DRP POSILOK® CATERPILLAR®	
 FUTURA or OEM	X	X	 DRP BRADKEN® KOMATSU®	



						SIZES TALLAS
MACHINE WEIGHT PESO MÁQUINA 	up to 325 tn	95				
	BOF 139,1 tn					
	up to 400 tn		110	92	110	
	BOF 171,1 tn					
up to 500 tn		130	112	130		
BOF 252,6 tn						
up to 800 tn		145	122	145	160	
BOF 342,2 tn						

GUIDE TO PART SIZES BY MAXIMUM MACHINE WEIGHT (TONS)

GUÍA PARA LA ELECCIÓN DE TALLAS SEGÚN PESO MÁXIMO DE LA MÁQUINA (EN TONELADAS)

	NOSE NARIZ	TOOTH DIENTE	HITACHI	TEREX	CATERPILLAR	KOMATSU	KOMATSU DEMAG	LIEBHERR	MCH.WEIGHT PESO MAQ.
T2	275	275	EX2500 EX2500BE	RH120C RH120E	5230ME	PC3000 PC3000-6	H185S H241	R925 R994L	<300T
	285	285	EX3500 EX3500-3 EX3600 EX3600-BE EX3600-6	RH170	5230 5230B	PC4000 PC4000-6	H285 H385S	R935L R994BL	300-350T
miner	95	95	EX3500 EX3500-3	RH120E	5230ME 3560B 6030	PC3000 PC3000-6	H285	R994 R9250	>350T
	110	92	EX3600	RH170	6040 6050B 5230B	PC4000	H285S	R9250 R9400 R9350 R994B	350-500T
	130	112	EX5500 EX5600	RH340 RH360	6060FS	PC4000 PC5500 PC5500-6	H485S	R995	500-750T
	145	122	EX8000	RH400	6090FS	PC8000	H48JS	R9800 R996	750-1000T

KOMATSU

MACHINE	BREAKOUT FORCE kN		BUCKET CAPACITY m ³		MACHINE CLASS Kg					
	FACE SHOVEL	BACK-HOE	FACE SHOVEL	BACK-HOE	FACE SHOVEL	GP / HD	XHD	BACK-HOE	GP / HD	XHD
PC8000	2.320	2.000	28-42	42	767.000	1450	1450	777.000	1450	1450
PC7000-6	1.994	1.671	36	47	676.000	1300	1450	694.000	1300	1300
PC5500	1.865	1.450	28	28	540.000	1300	1450	538.000	1300	1300
PC4000	1.250	1.155	22	22	390.000	1100	1100	397.000	950	1100
PC3000	1.000	850	15	15	255.000	285	950	258.000	285	950
PC2000-8	721	626	11	12-13,7	195.000	275	275	204,120	270	275
PC1800-6	721	697	11	5,6-12	184.120	270	275	180.000	270	275
LOADERS										
WA1200-6	1.000-1.275		18-35		220.000	275	275		275	275
L1850	1.000-1.454		20-42		229.522	270	270		270	270
L2350	1.173-1.290		58-52		266.622	275	275		275	275

LIEBHERR

MACHINE	BREAKOUT FORCE kN		BUCKET CAPACITY m ³		MACHINE CLASS Kg		STAN-DARD SIZE	HEAVY DUTY SIZE	EXTRA HEAVY DUTY SIZE
	FACE SHOVEL	BACK-HOE	FACE SHOVEL	BACK-HOE	FACE SHOVEL	BACK-HOE			
R9800	2.395	1.980	38-44	40-52	810.000	800.000	145	122	
R996B	1.930	1.640	32-36	32-36	676.000	672.000	145	122	
R995	1.330	1.300	24-28	24-28	450.000	441.000	130	112	
R9400	1.195	1.000	19-24	18-24	353.000	345.500	110	92	
R994B	1.630	1.020	15-20	15-20	300.500	296.000	95	95	
R9350	1.000	1.020	15,3-20	15,3-20,5	310.000	302.000	285	285	
R9250	1.030	870	11-17	13-17	253.000	250.000	275	275	

CATERPILLAR

MACHINE	BREAKOUT FORCE kN		BUCKET CAPACITY m ³		MACHINE CLASS Kg		STAN-DARD SIZE	HEAVY DUTY SIZE	EXTRA HEAVY DUTY SIZE	
	FACE SHOVEL	BACK-HOE	FACE SHOVEL	BACK-HOE	FACE SHOVEL	BACK-HOE				
6090 (RH400)	2.400	N/A	37-52	N/A	980.000	N/A	145	122		
6060 (RH340)	1.740	1.240	21-34	25-34	569.000	570.000	130	112		
6050 (RH200)	1.530	1.210	18-28	25-28	528.000	537.000	110	92		
6040 (RH170)	1.200	1.120	15-24	18-22	405.000	407.000	110	92		
6030 (RH120)	960	870	10-16	12-17	294.000	296.000	95	95		
6020B	N/A	730	N/A	12	N/A	122.330	275	275		
6018	730	510	10	8,5-10	177.000	181.000	270	270		
6015B	N/A	501	N/A	8.1	N/A	140.000	270	270		
LOADERS										
994H	693-1.133		14-36		195.434		275	275		

HITACHI

MACHINE	BREAKOUT FORCE kN		BUCKET CAPACITY m ³		MACHINE CLASS Kg		STAN-DARD SIZE	HEAVY DUTY SIZE	EXTRA HEAVY DUTY SIZE
	FACE SHOVEL	BACK-HOE	FACE SHOVEL	BACK-HOE	FACE SHOVEL	BACK-HOE			
EX8000-6	2.230	N/A	40	N/A	811.000	N/A	145	122	122
EX5600-6	1.710	1.480	27-29	34	533.000	537.000	130	112	112
EX5500	1.570	1.370	27	29	522.000	522.000	130	112	112
EX3600-6	1130	932	21-23	22	359.000	361.000	110	92	92
EX2600-6	873-943	830	15-16.5	17	252.000	254.000	95	95	95
EX1900-6	612-660	435-617	11-15	4,4-12	191.000	192.000	285	285	285
EX1800	628	580	10-15	12.5	177.000	177.000	275	275	275

	HITACHI	TEREX	CATERPILLAR	KOMATSU	KOMATSU DEMAG	LIEBHERR	
265 610							
270 690							
275 710	EX2500 EX2500BE	RH120C RH120E	5230ME	PC3000 PC3000-6	H185S H241	R925 R994L	<300t
285 810	EX3500 EX3500-3 EX3600 EX3600-BE EX3600-6	RH170	5230 5230B	PC4000 PC4000-6	H285 H385S	R935L R994BL	300- 350T
95	EX3500 EX3500-3	RH120E	5230ME 3560B 6030	PC3000 PC3000-6	H285	R994 R9250	>350T
110	EX3600	RH170	6040 6050B 5230B	PC4000	H285S	R9250 R9400 R9350 R994B	350- 500T
130	EX5500 EX5600	RH340 RH360	6060FS	PC4000 PC5500 PC5500-6	H485S	R995	500- 750T
145	EX8000	RH400	6090FS	PC8000	H48JS	R9800 R996	750- 1000T

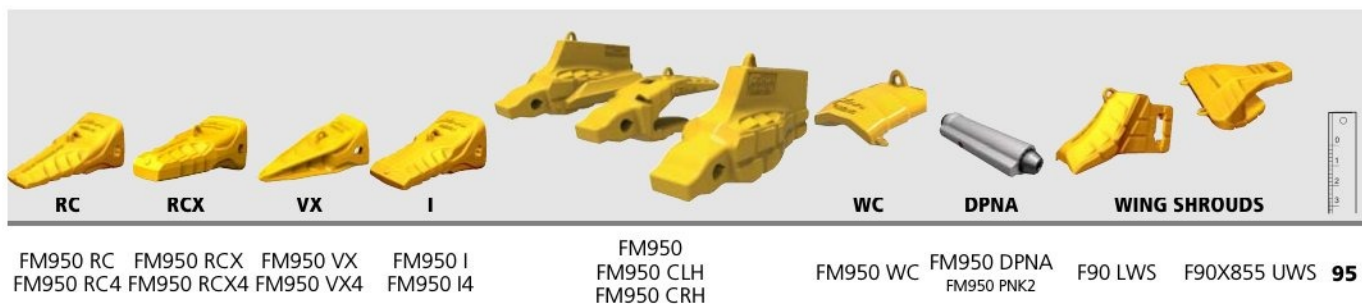


miner

MINER 950 FULL RANGE: TEETH, ADAPTERS AND WEAR CAPS

MINER 950:
 DIENTES, PORTADIENTES
 Y PROTECTORES

ASSEMBLY
 SIZE 950
 MONTAJE
 TALLA 950



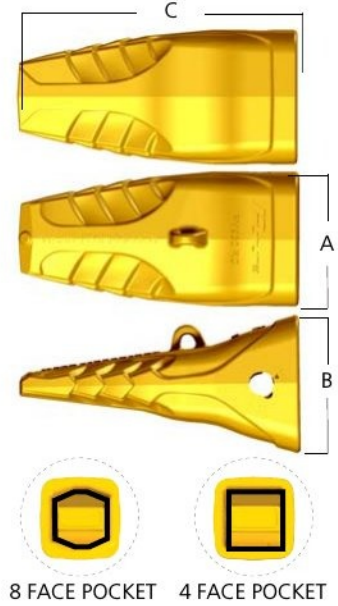
RC Rock Chisel Tooth Diente Cincel Roca



WEAR FACTOR | DESGASTE

PENETRATION | PENETRACIÓN

IMPACT | IMPACTO



mm.				REF	Cross Ref	POCKET		95
A	B	C	8 FACE POCKET			4 FACE POCKET		
280 11,02*	293 11,54*	601 23,66*	107,00 235,89	FM950 RC	S95SD	●	FM950, FM950 CLH FM950 CRH	FMK950 DPNA FM950 PNK2
280 11,02*	293 11,54*	601 23,66*	107,00 235,89	FM950 RC4	PPS9BHP PPS9DHP	●		

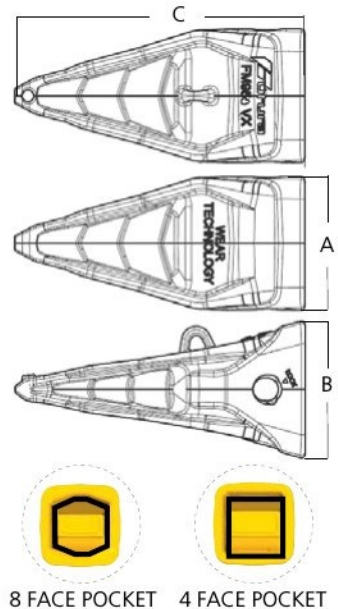
VX Tooth Diente VX



WEAR FACTOR | DESGASTE

PENETRATION | PENETRACIÓN

IMPACT | IMPACTO

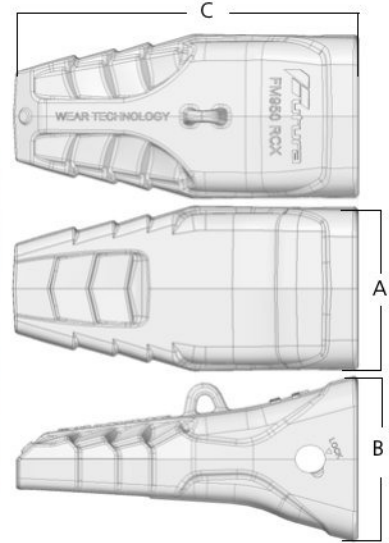


mm.				REF	Cross Ref	POCKET		95
A	B	C	8 FACE POCKET			4 FACE POCKET		
286 11,26*	293 11,54*	621 24,45*	101,00 222,66	FM950 VX	S95VX	●	FM950 FM950 CLH FM950 CRH	FMK950 DPNA FM950 PNK2
286 11,26*	293 11,54*	621 24,45*	101,00 222,66	FM950 VX4	PPS9BHPL PPS9DHPL	●		

RCX Tooth Diente Cincel Roca X

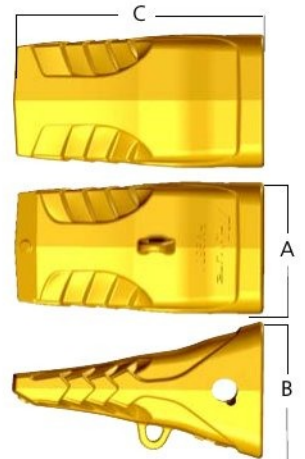


8 FACE POCKET 4 FACE POCKET



mm.				REF	Cross Ref				
A	B	C	KG						
286 11,26"	293 11,54"	604 23,78"	129,00 284,39	FM950 RCX	fits S95RMX	●	FM950, FM950 CLH FM950 CRH	FMK950 DPNA FM950 PNK2	95
286 11,26"	293 11,54"	604 23,78"	129,00 284,39	FM950 RCX4	PPS9BHAXH PPS9DHAXH	●			

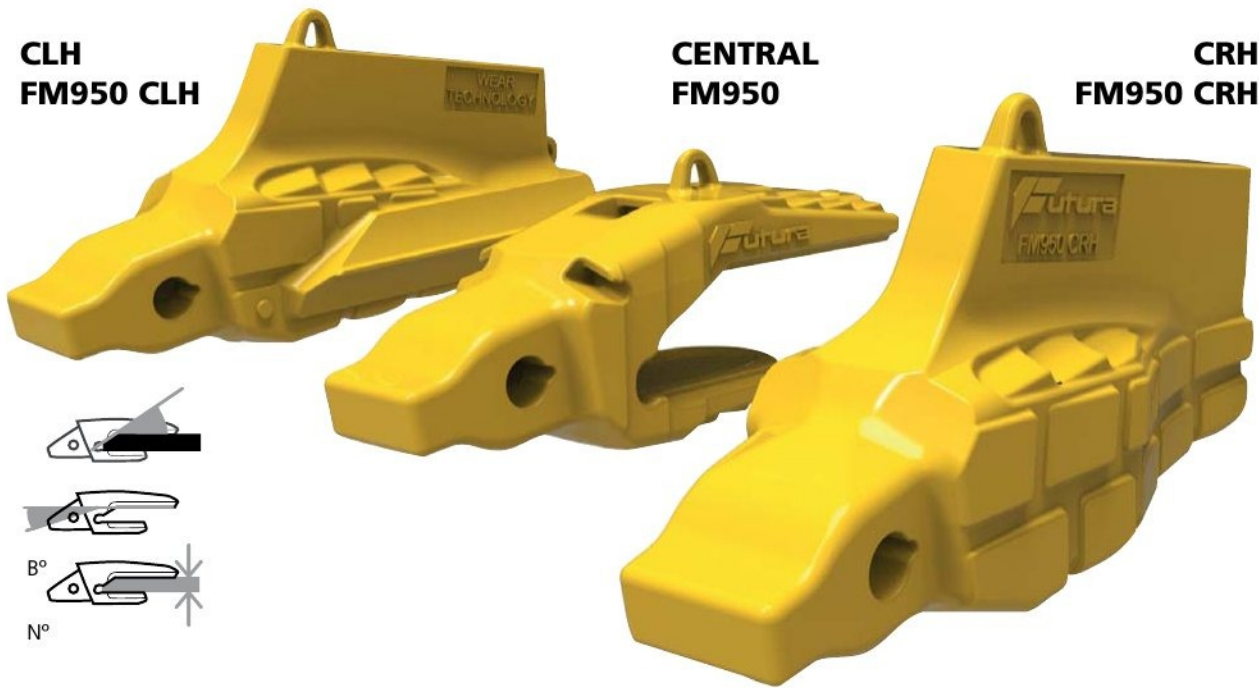
IMPACT Tooth Diente IMPACTO








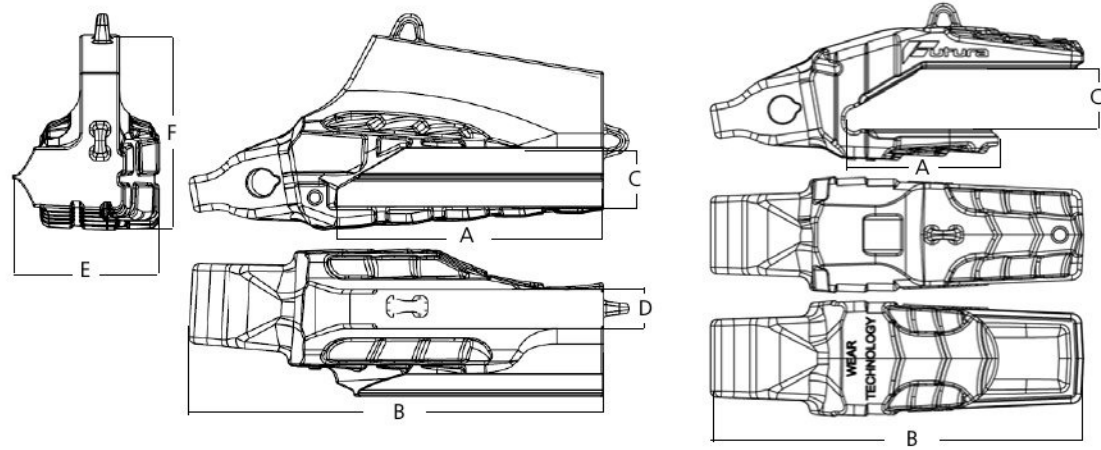
8 FACE POCKET 4 FACE POCKET

mm.				REF	Cross Ref				
A	B	C	KG						
286 11,26"	294 11,57"	539 21,22"	104,00 229,28	FM950 I	fits S95RMX	●	FM950, FM950 CLH FM950 CRH	FMK950 DPNA FM950 PNK2	95
286 11,26"	294 11,57"	539 21,22"	104,00 229,28	FM950 I4		●			

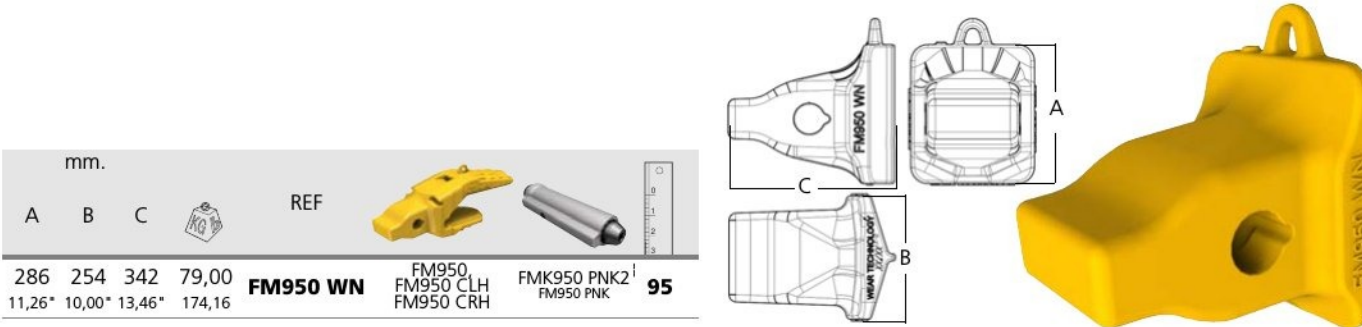
Adapter and Corner Adapters Portadientes y Cantoportadientes



mm.										REF	Cross Ref	  		
A	B	C	D	E	F	N°	B°							
359	876	142				10	30	140		197,00	FM950	6828-S95	FM950 WC	-
14,13"	34,49"	5,59"						5,51"		434,30				
615	955	140	90	331	450	10	30	140	90	411,00	FM950 CLH	PWL-S95	-	FMK950 DPNA FM950 PNK2
24,21"	37,60"	5,51"	3,54"	13,03"	17,72"			5,51"	3,54"	906,08				F90 LWS F90X855 UWS
615	955	140	90	331	450	10	30	140	90	411,00	FM950 CRH	PWR-S95	-	
24,21"	37,60"	5,51"	3,54"	13,03"	17,72"			5,51"	3,54"	906,08				

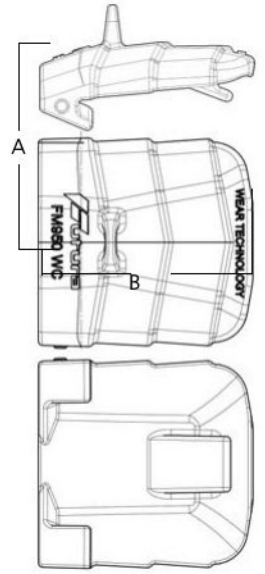





Weld-On Nose Nariz Soldable



mm.				REF	  		
A	B	C					
286	254	342	79,00	FM950 WN	FM950 FM950 CLH FM950 CRH	FMK950 PNK2 ¹ FM950 PNK	95
11,26"	10,00"	13,46"	174,16				

Adapter Wear Caps Protectores Portadientes



mm			REF	Cross Ref		
A	B					
271 10,67*	281 11,06*	22,00 48,50	FM950 WC	WC99	FM950	95

**Assembly instructions
FM950 DPNA**

TOOTH + PIN

**Assembly instructions
FM950 DPNA**

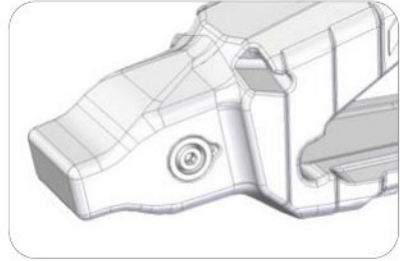
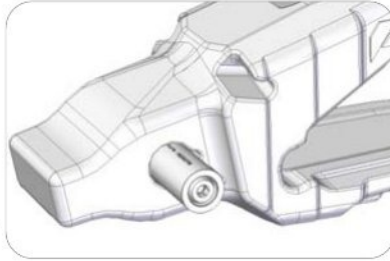
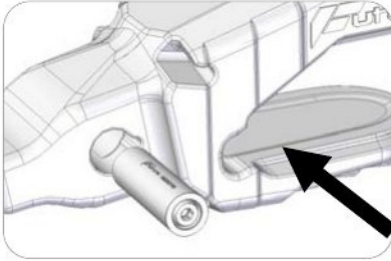
DIENTE + PASADOR



1

Place the PIN on the ADAPTER recess as shown below

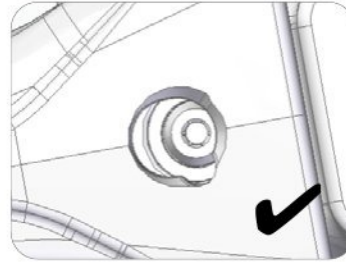
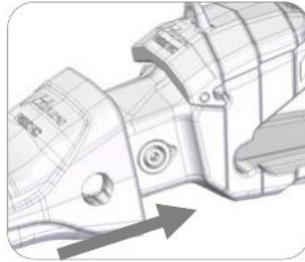
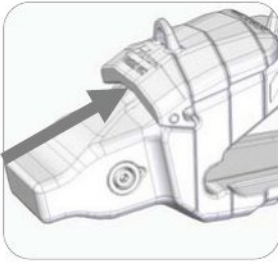
Coloque el pasador FUTURA MINER en el alojamiento del portadientes como se indica en la ilustración.



2

Place the cap (if needed) and tooth on the adapter. The pin will look off centered. It is OK!

Coloque el protector (si fuese necesario) y el diente sobre el portadientes. El encaje del pasador parece desplazado. Esto es CORRECTO



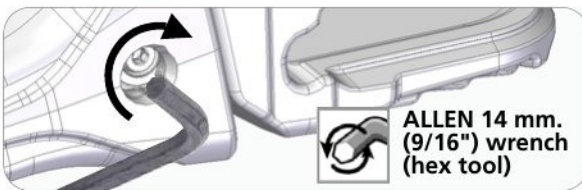
The pin hole LOOKS OFF CENTERED: IT IS OK



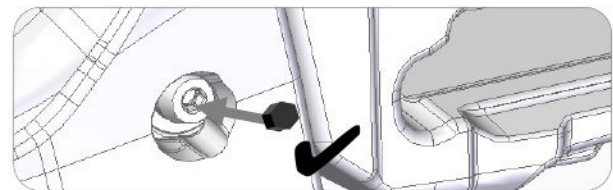
3

Use an Allen M14 wrench to release the pin tabs until the assembly feels fully locked. The assembly is ready!

Use una llave Allen M14 para expandir el pasador lo máximo que pueda. ¡El montaje ya está listo para trabajar!



ALLEN 14 mm. (9/16") wrench (hex tool)

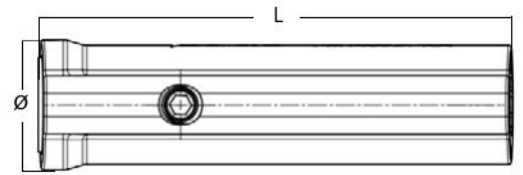


4

**Disassembly:
For tooth disassembly follow steps 1 to 3 in reverse order**

**Desmontaje:
Para desmontar los dientes siga los pasos 1 a 3 en orden inverso.**

DPNA MINER PIN Pasador MINER DUAL



mm						
L	Ø		REF	Cross Ref		
195,7 7,70"	62 2,44"	4,20 9,26	FM950 DPNA FM950 PIAK2, FM950 PIAK	S95DPN	M14 9/16"	95



DUAL TAKE UP

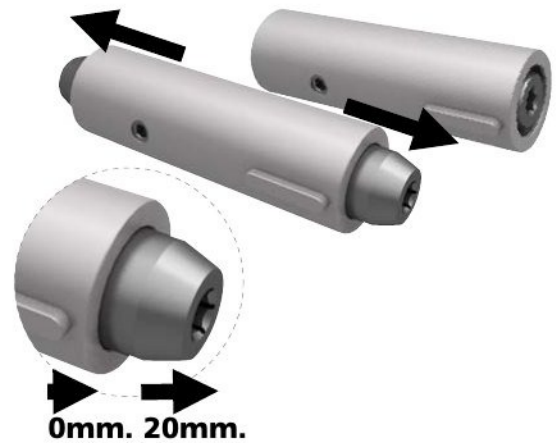
Dual take up retention increases adapter nose life

EXTRA TENSION

La retención de doble tirante aumenta la vida útil de la nariz del adaptador

DUAL EXPANSION

DOBLE EXPANSIÓN



MINER PIN (old model) Pasador Minería (Modelo anterior)

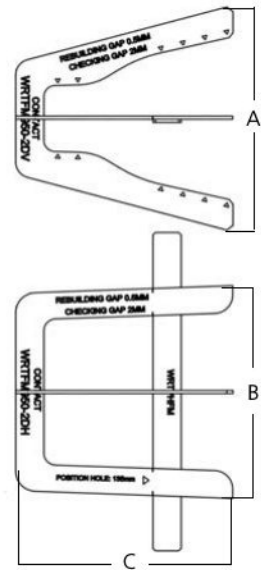
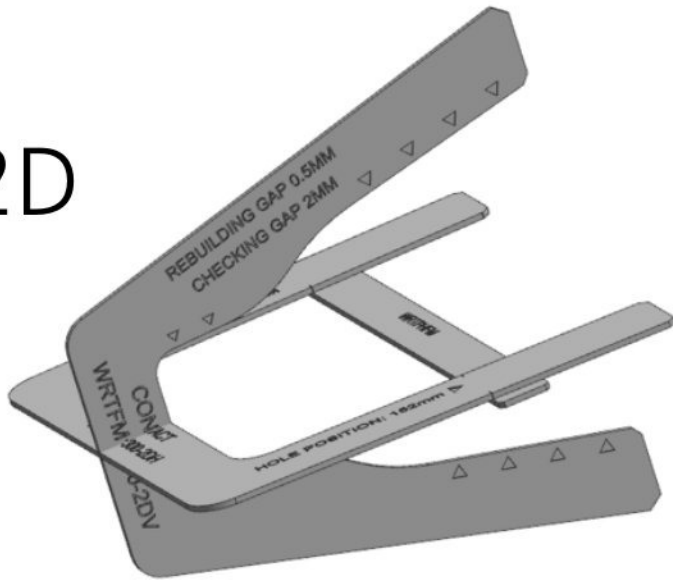


mm.						
L	Ø		REF	Cross Ref Cruce Ref		
284 11,18"	61 2,40"	5,18 11,42	FM950 PNK2 FM950 PNK, FM950 DPNA	S95RPN	M19 3/4"	95



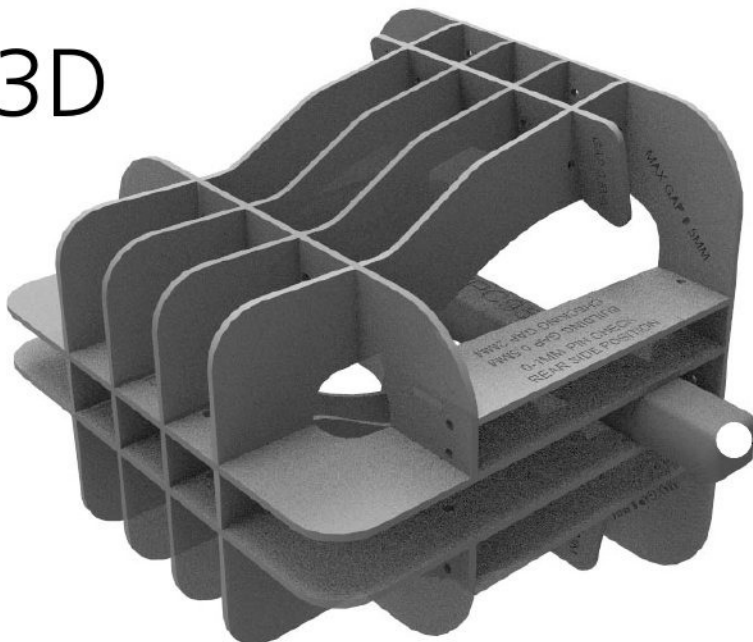
Nose Checking Templates Plantillas para Comprobación de Narices

2D

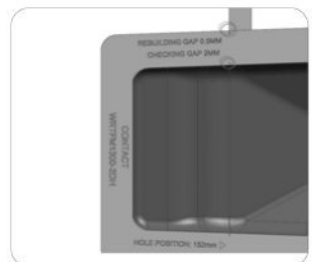


mm.		REF	Cross Ref	Adapters	Nosés	95			
A	B						C		
281 11,06°	267 10,51°	269 10,59°	1,96 4,32	WRTFM950-2D	2D	WRTS95CT WRTS95ST	S95	WN-S95	95
290 11,42°	298 11,73°	287 11,30°	13,00 28,66	WRTFM950-3D	3D		S95	WN-S95	95
32 1,24°	29 1,14°	400 15,75°	2,40 5,29	WRTPC950	PIN		S95	WN-S95	95

3D



WRTPC950
PIN CHECK TOOL

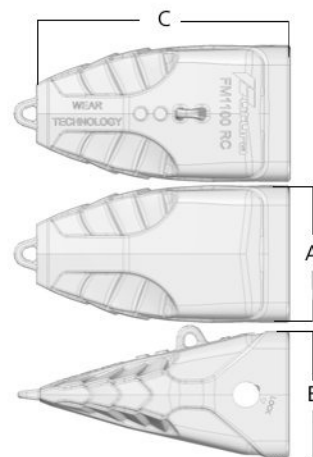


miner

MINER 1100 1300 & 1450 SOLID TEETH

MINER 1100 1300 Y 1450 DIENTES SÓLIDOS

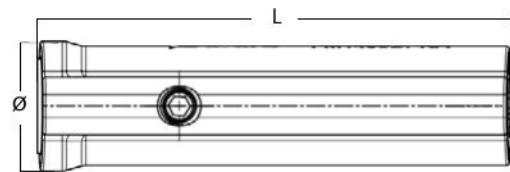
RC Rock Chisel Tooth Diente Cincel Roca



mm.			REF	REF	REF	REF
A	B	C				
336 13,23*	318 12,52*	620 24,41*	197,00 434,30	FM1100 RC	FM1100 DPNA FM1100 PIAK2 FM1100 PIAK	110 110
398 15,67*	340 13,39*	711 27,99*	284,00 626,10	FM1300 RC2	FM1300 DPNA FM1300 PIAK2 FM1300 PIAK	130 130

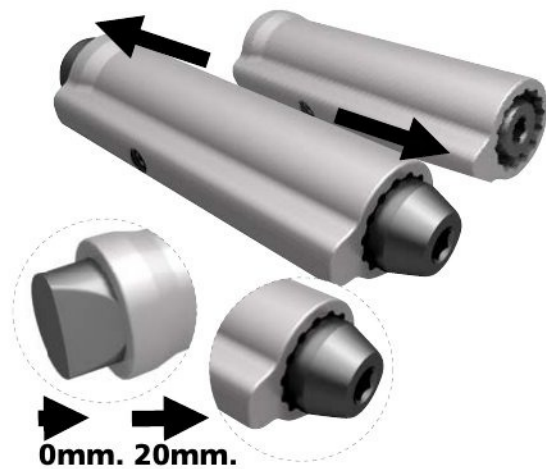


HAMMERLESS Mining PIN Pasador Minería



mm			REF	Cross Ref	NOSE	
L	Ø					
235,7 9,28*	68,2 2,69*	5,80 12,79	FM1100 DPNA FM1100 PIAK2, FM1100 PIAK	S110DPN	110	M14 9/16*
267,6 10,54*	74 2,91*	8,00 17,64	FM1300 DPNA FM1300 PIAK2, FM1300 PIAK	S130DPN	130	M14 9/16*
306,6 12,07*	83,9 3,30*	11,70 25,79	FM1450 DPNA FM11450 PIAK	S145DPN	145	M14 9/16*

DUAL EXPANSION DOBLE EXPANSIÓN



0mm. 20mm.



DUAL TAKE UP

Dual take up retention increases adapter nose life

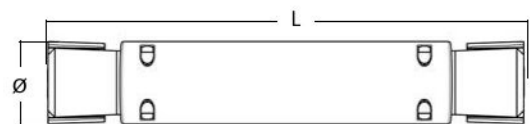
EXTRA TENSION

La retención de doble tirante aumenta la vida útil de la nariz del adaptador

HAMMERLESS PIN (Old Model) Pasador Minería (Modelo Antiguo)



mm			REF	Cross Ref	NOSE	
L	Ø					
322 12,68*	62 2,44*	6,75 14,88	FM1100 PIAK2 FM1100 PIAK, FM1100 DPNA	S110PN	110	M19 3/4*
378 14,88*	84,7 3,33*	10 22,05	FM1300 PIAK2 FM1300 PIAK, FM1300 DPNA	S130PNA	130	M19 3/4*
443 17,44*	93 3,66*	14,50 31,97	FM1450 PIAK FM1450 DPNA	S145PNA	145	M19 3/4*



miner



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

Futura Miner Intermediate adapters will fit onto an Escos Posilok® adapter and are DRP for Hensley®, Escos® or Caterpillar® Intermediate adapters.

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

miner

MINER 1100 1300 & 1450 TEETH AND INTERMEDIATE ADAPTERS

DIENTES Y ADAPTADORES INTERMEDIOS COMPATIBLES
CON ESCO POSILOK®. TALLAS 110 A 145

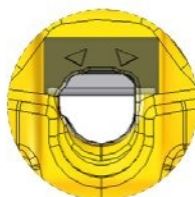
COMPATIBLE WITH ESCO POSILOK® SIZES 110 TO 145



STANDARD PIN

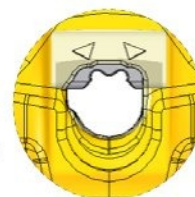


Locks teeth into Posilok® and Posilok® Plus intermediate adapters



HAMMERLESS PIN

Locks teeth into Posilok® Plus intermediate adapters



2 PIN OPTIONS:
STANDARD OR HAMMERLESS

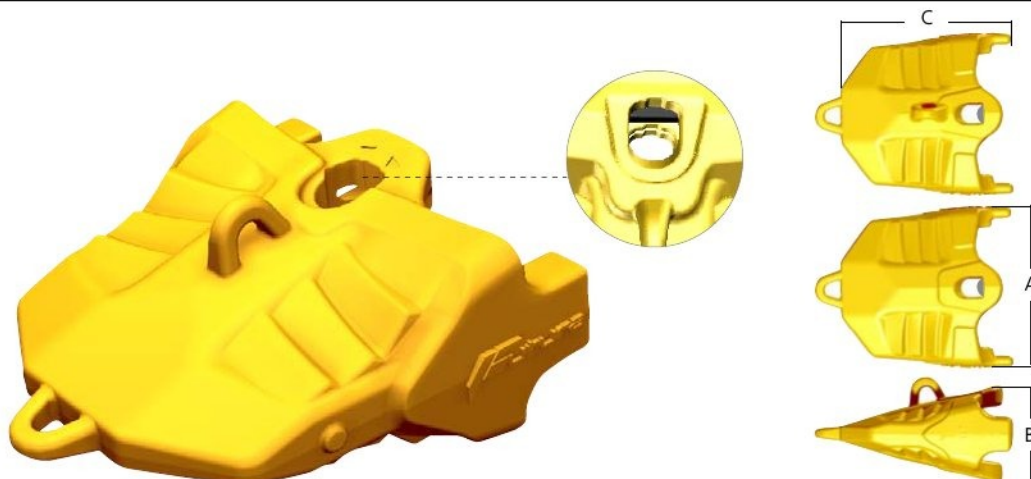
RC Tooth Diente Cincel Roca

● ● ● □ □ □
 WEAR FACTOR | DESGASTE

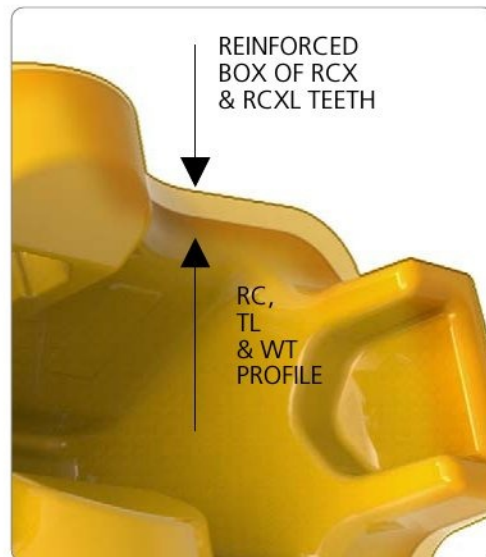
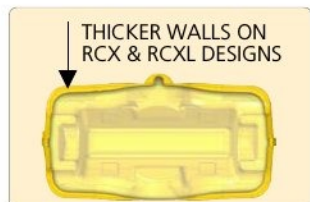
● ● ● ● ● ●
 PENETRATION | PENETRACIÓN

● ● ● □ □ □
 IMPACT | IMPACTO

RC



mm.				REF	Cross Ref	Cross Ref				SIZES TALLAS	
A	B	C									
327 12,87"	185 7,28"	351 13,82"	58,16 128,22	FM920 RC	DRP 92KHA	DRP 92TKHA	FM920 PN	FM920 HLK	FM1100-920 IA	92	110
380 14,96"	199 7,83"	363 14,29"	74,00 163,14	FM1120 RC	DRP 112KH	DRP 112TKH	FM1120 PN	FM1120 HLK	FM1300-1120 IA	112	130
441 17,36"	232 9,13"	400 15,75"	105,00 231,48	FM1220 RC	DRP 122KH	DRP 122 TKH	FM1220 PM	FM1220 HLK	FM1450-1220 IA	122	145

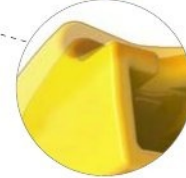


RCX

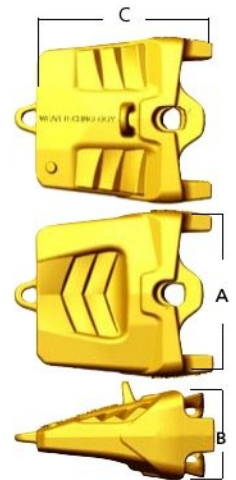
RCXL



RCX Rock Chisel Tooth Diente Cincel Roca RCX

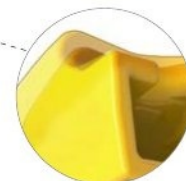


EXTRA WEAR MATERIAL

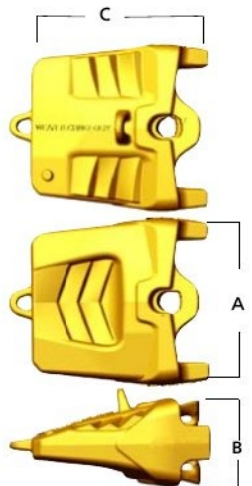


mm.				REF	Cross Ref	Cross Ref				SIZES TALLAS	
A	B	C									
344 13,54"	185 7,28"	349 13,74"	61 134,48	FM920 RCX	DRP 92KHMA	DRP 92TKHMA	FM920 PN	FM920 HLK	FM1100-920 IA	92	110
401 15,79"	200 7,87"	363 14,29"	76 167,55	FM1120 RCX	DRP 112KHMA	DRP 112TKHMA	FM1120 PN	FM1120 HLK	FM1300-1120 IA	112	130
469 18,46"	236 9,29"	400 15,75"	119 262,35	FM1220 RCX	DRP 122KHMA	DRP 122TKHMA	FM1220 PM	FM1220 HLK	FM1450-1220 IA	122	145

RCXL Rock Chisel Tooth Diente Cincel Roca RCXL

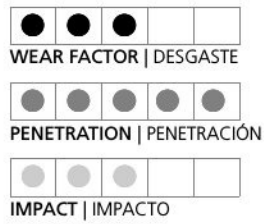


EXTRA WEAR MATERIAL



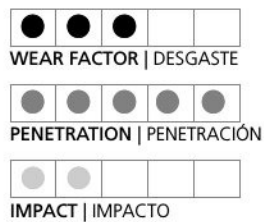
mm.				REF	Cross Ref	Cross Ref				SIZES TALLAS	
A	B	C									
344 13,54"	185 7,28"	396 15,59"	77,00 169,75	FM920 RCXL	DRP 92KHRML	DRP 92TKHRML	FM920 PN	FM1100 HLK	FM920-1100 IA	92	110
401 15,79"	200 7,87"	417 16,42"	99,00 218,25	FM1120 RCXL	DRP 112KHRML	DRP 112TKHRML	FM1120 PN	FM1120 HLK	FM1300-1120 IA	112	130
469 18,46"	236 9,29"	425 16,73"	134,00 295,41	FM1220 RCXL	DRP 122KH	DRP 122TKRXL	FM1220 PM	FM1220 HLK	FM1450-1220 IA	122	145

TL Tooth Diente Tiger Long



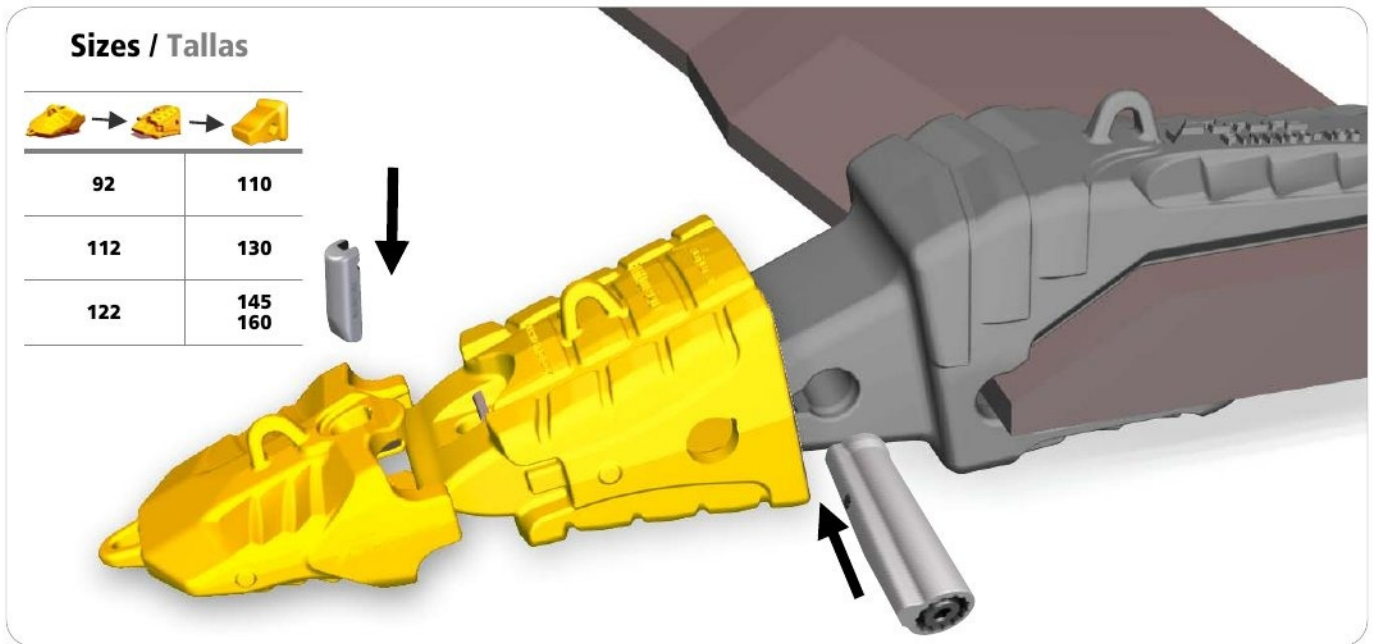
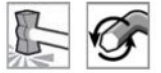
mm.				REF	Cross Ref				SIZES TALLAS	
A	B	C								
				FM920 TL	DRP 92TKAT	FM920 PN	FM920 HLK	FM1100-920 IA	92	110
380 14,96*	199 7,83*	332 13,07*	65,00 143,30	FM1120 TL	DRP 112TKAT	FM1120 PN	FM1120 HLK	FM1300-1120 IA	112	130
441 17,36*	231 9,09*	393 15,47*	191,00 7,52*	FM1220 TL	DRP 122TKAT	FM1220 PM	FM1220 HLK	FM1450-1220 IA	122	145

WT Twin Tiger Tooth Diente Twin Tiger



mm.				REF	Cross Ref				SIZES TALLAS	
A	B	C								
				FM920 WT	DRP 92TKAT	FM920 PN	FM920 HLK	FM1100-920 IA	92	110
359 14,13*	199 7,83*	332 13,07*	75,00 165,34	FM1120 WT	DRP 112TKAT	FM1120 PN	FM1120 HLK	FM1300-1120 IA	112	130
441 17,36*	231 9,09*	400 15,75*	191,00 7,52*	FM1220 WT	DRP 122TKAT	FM1220 PN	FM1220 HLK	FM1450-1220 IA	122	145

Pin Assembly Montaje Pasador



HAMMERLESS Pin Pasador Minería HAMMERLESS



Fig. 1

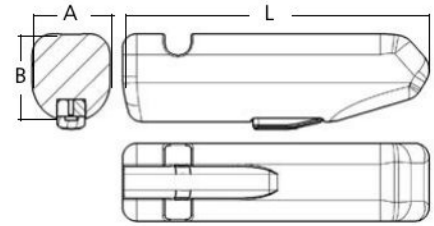
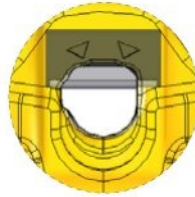


Fig. 2

mm.			REF	Cross Ref	Fig	SIZE	NOSE	
A	B	L						
36 1,42"	38 1,50"	147 5,79"	FM920 HLK	92TK PN	1	92	110	M19 3/4"
39 1,54"	44 1,73"	153 6,02"	FM1120 HLK	112TKPN-B	1	112	130	M19 3/4"
39 1,54"	50 1,97"	189 7,44"	FM1220 HLK	122TLPN	2	122	145	M19 3/4"



STANDARD Mining Pin Pasador Minería STANDARD



Weight
4,40Kg
10,36 Lbs

EXTFM
EXTRACTION TOOL
Herramienta para Extracción
Pasadores de Minería

mm.				REF	Cross Ref	SIZE	NOSE	EXTFM
A	B	L	KG					
36 1,42"	38 1,50"	147 5,79"	1,16 2,56	FM920 PN	PN92K	92	110	
39 1,54"	44 1,73"	153 6,02"	1,56 3,44	FM1120 PN	PN112KC	112	130	
39 1,54"	50 1,97"	189 7,44"	2,29 5,05	FM1220 PN	PN122KC	122	145	

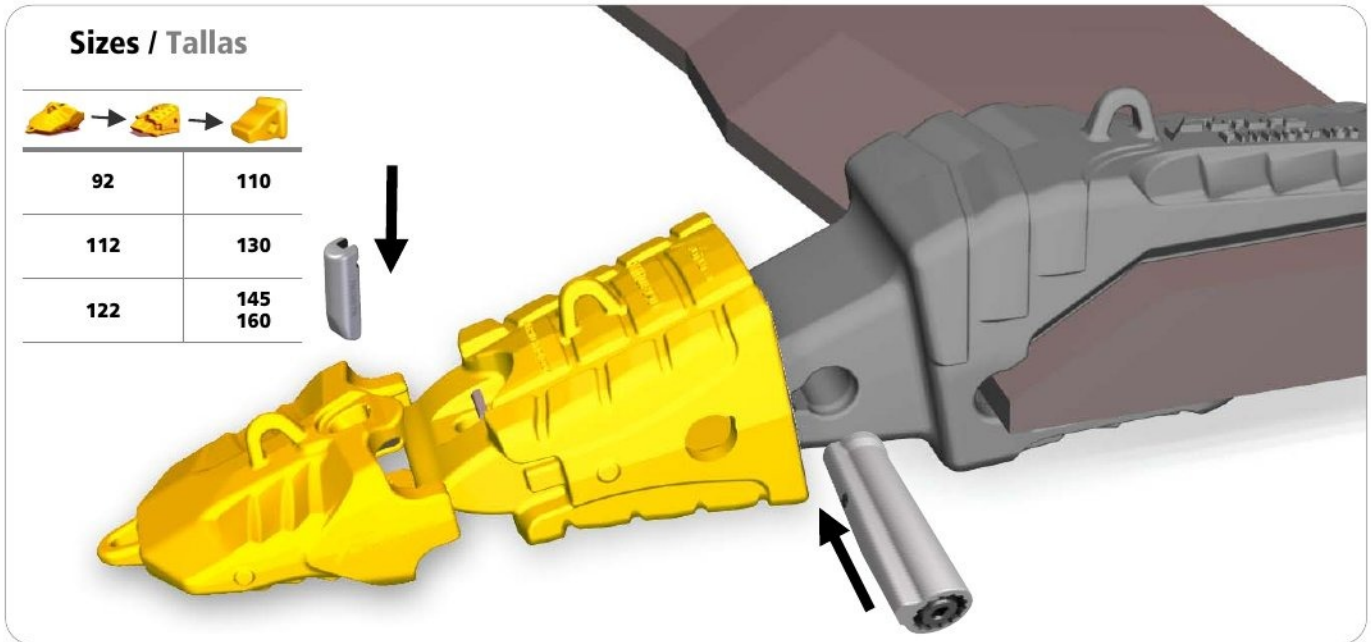
Pin Assembly Montaje Pasador



Sizes / Tallas



92	110
112	130
122	145 160



miner

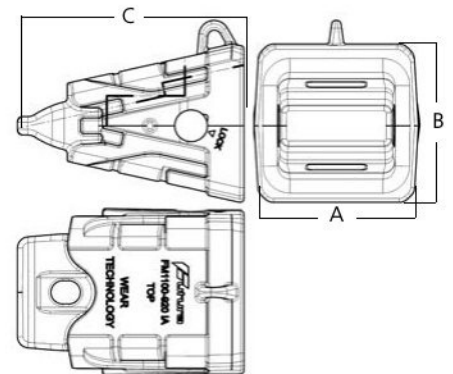
MINER 1100 1300 & 1450 INTERMEDIATE ADAPTERS

ADAPTADORES INTERMEDIOS

IA Intermediate Adapter Adaptador Intermedio



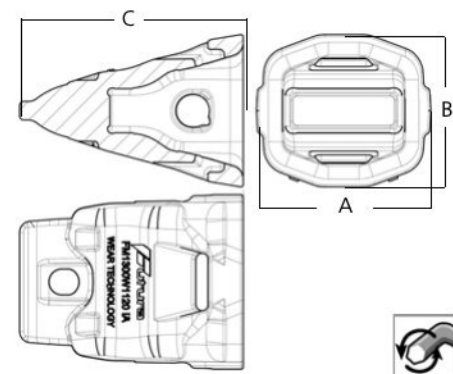
INTERMEDIATE ADAPTER **4 FACE**
 COMPATIBLE WITH: HENSLEY®,
 CATERPILLAR®, POSILOK® AND POSILOK®
 PLUS INTERMEDIATE ADAPTERS



mm.				Compatible with				REF	POSILOK®	POSILOK® PLUS	HENSLEY®	CATERPILLAR®	SIZES TALLAS
A	B	C	kg										
336 13,23"	326 12,83"	465 18,31"	134,00 295,41	FM1100-920 IA	S110H92K	S110H92TK					FM1100 DPNA FM1100 PIAK2	92	110
388 15,28"	367 14,45"	504 19,84"	192,00 423,28	FM1300-1120 IA	S130H112K	S130H112TK	640TS1122	345-9667			FM1300 DPNA FM1300 PIAK2	112	130
				FM1300-1220 IA	S130H112K	S130H112TK						122	
453 17,83"	401 15,79"	564 22,20"	288,00 634,92	FM1450-1220 IA	S145H122K	S145H122TK	800TS1222				FM1450 DPNA FM1450 PIAK	122	145

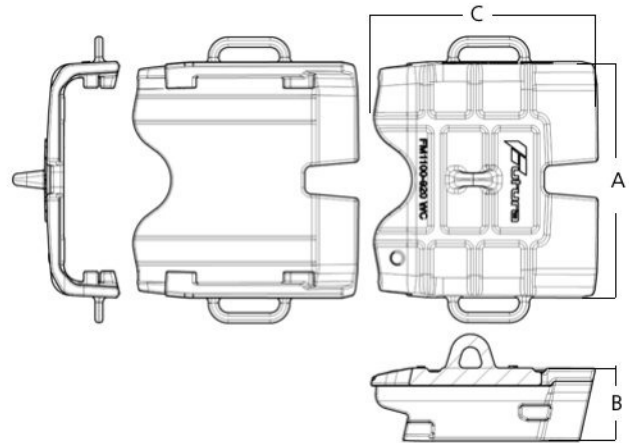


The Intermediate Adapter Futura can be mounted on an Esco® adapter with Futura pin or Esco® Sidewinder® pin, it can be mounted on a Hensley® adapter with a Futura pin but NOT with the Hensley® pin. El Prediente Futura puede montar sobre portadientes Esco® con pasador Futura o con pasador Esco Sidewinder®. El montaje sobre portadientes Hensley® puede hacerse con pasador Futura pero NO con pasador Hensley®.

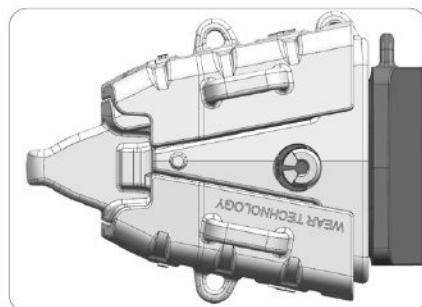
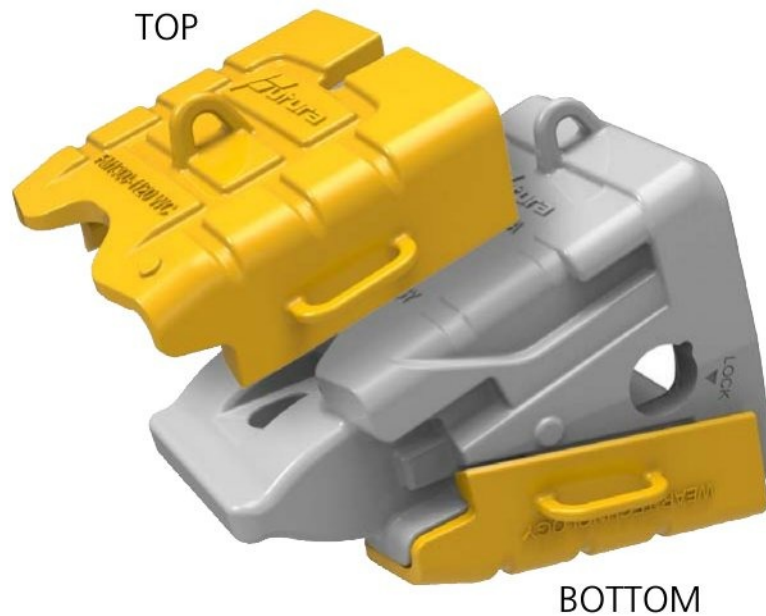
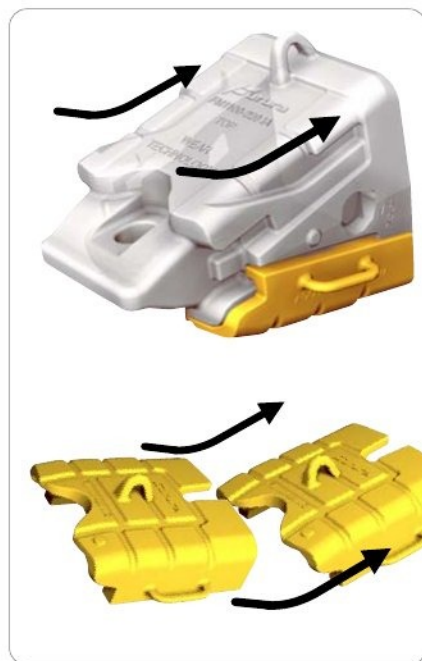


mm.				Cross Ref				REF	CAPS	POSILOK®	POSILOK® PLUS	SIZES TALLAS	
A	B	C	kg										
334 13,15"	294 11,57"	469 18,46"	91,00 200,62	FM1100W920 IA	FM940 WC	S110WA92K	S110WA92TK				FM1100 DPNA FM1100 PIAK2	92	110
388 15,28"	338 13,31"	497 19,57"	133,00 293,21	FM1300W1120 IA	FM970 WC	S130W112K	S130W112TK				FM1300 DPNA FM1300 PIAK2	112	130
				FM1300-1220 IA		S130W112K	S130W112TK					122	
449 17,68"	379 14,92"	564 22,20"	201,60 444,44	FM1450W1220 IA	FM980 WC	S145W122K	S145W122TK				FM1450 DPNA FM1450 PIAK	122	145

OPTIONAL Caps for FUTURA Intermediate Adapters Protectores Opcionales



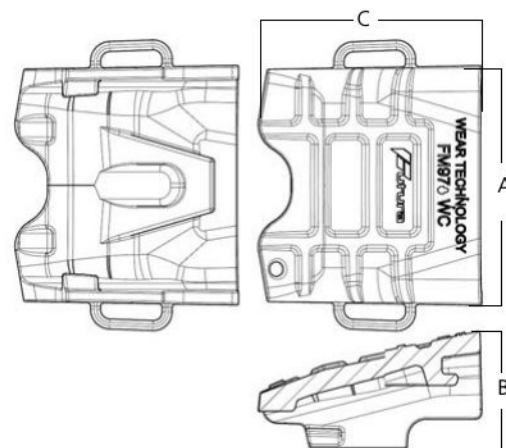
mm.				REF		TOP	BOTTOM	
A	B	C	Weight					
360 14,17"	113 4,45"	350 13,78"	28,00 61,73	FM1100-920 WC	FM1100-920 IA	1	1	110
411 16,18"	133 5,24"	381 15,00"	40,00 88,18	FM1300-1120 WC	FM1300-1120 IA	1	1	130
				FM1300-1220 WC	FM1300-1220 IA	1	1	
486 19,13"	144 5,67"	474 18,66"	55,00 121,25	FM1450-1220 WC	FM1450-1220 IA	1	1	145



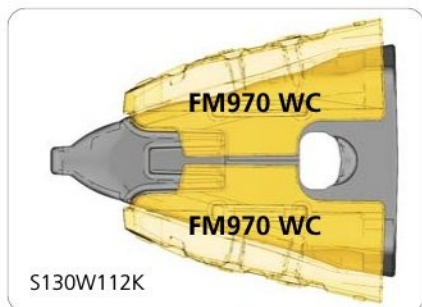
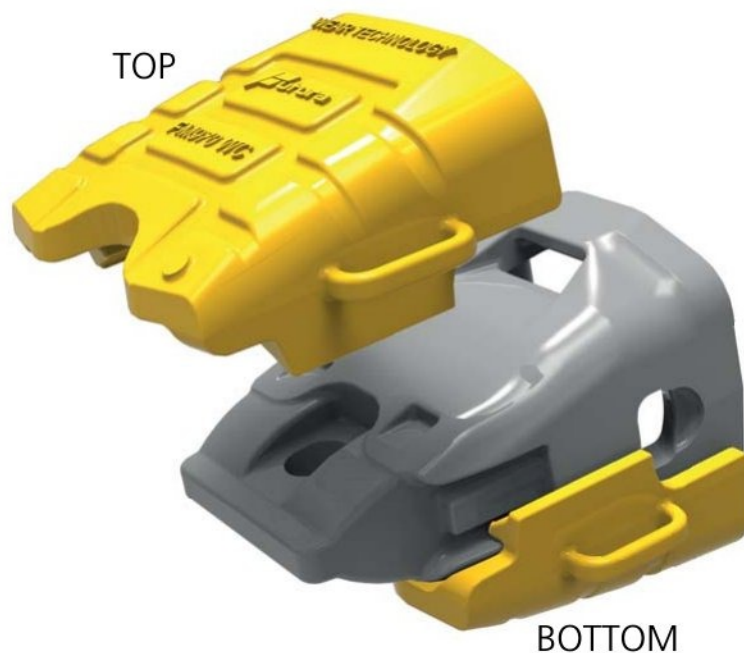
Caution:
Intermediate Wear Caps must be installed prior to placing the teeth. Mining teeth contribute to the complete stability of the FUTURA Wear Caps.
Never use FUTURA Wear Caps in intermediate adapters without tooth mounted.

Atención: Estos protectores deben montarse siempre antes que los dientes de minería. Los dientes de minería FUTURA contribuyen a la completa estabilidad de los PROTECTORES.
Nunca utilice PROTECTORES en su adaptador intermedio si no llevan montados los dientes del conjunto.

DIRECT REPLACEMENT Caps for ESCO Intermediate Adapters Protectores



mm.			REF	Cross Ref	Image	TOP	BOTTOM	Weight	
A	B	C							
352 13,86*	175 6,87*	347 13,66*	38,50 84,88	FM940 WC	WC94A	S110WA92K, FM1100-920 IA	1	1	110
408 16,06*	201 7,91*	382 15,04*	56,00 123,46	FM970 WC	WC97	S130W112K, FM1300-1220 IA	1	1	130
467 18,39*	219 8,62*	417 16,42*	79,00 174,16	FM980 WC	WC98	S130W112K, FM1300-1220 IA	1	1	145



Caution:

Intermediate Wear Caps must be installed prior to placing the teeth. Mining teeth contribute to the complete stability of the FUTURA Wear Caps.

Never use FUTURA Wear Caps in intermediate adapters without tooth mounted.

Atención:

Estos protectores deben montarse siempre antes que los dientes de minería.

Los dientes de minería FUTURA contribuyen a la completa estabilidad de los PROTECTORES.

Nunca utilice PROTECTORES en su adaptador intermedio si no llevan montados los dientes del conjunto.

HAMMERLESS Mining PIN (Old Model) Pasador Minería (Modelo Antiguo)

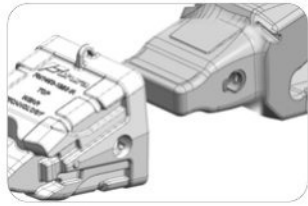


mm			NOSE			
L	Ø		REF	Cross Ref		
322 12,68"	62 2,44"	6,75 14,88	FM1100 PIAK2 FM1100 PIAK, FM1100 DPNA	S110PN	110	M19 3/4"
378 14,88"	84,7 3,33"	10 22,05	FM1300 PIAK2 FM1300 PIAK, FM1300 DPNA	S130PNA	130	M19 3/4"
443 17,44"	93 3,66"	14,50 31,97	FM1450 PIAK FM1450 DPNA	S145PNA	145	M19 3/4"

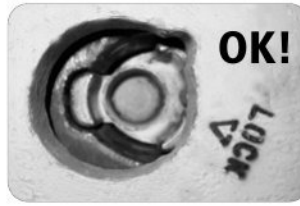


Place the FUTURA MINER intermediate adapter in position. The pin hole will look displaced. It is OK

Coloque el adaptador intermedio FUTURA en la posición indicada. El encaje del pasador parece desplazado. Esto es CORRECTO

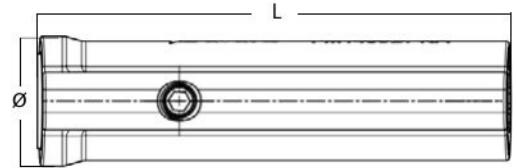


The pin hole LOOKS OFF CENTERED: IT IS OK



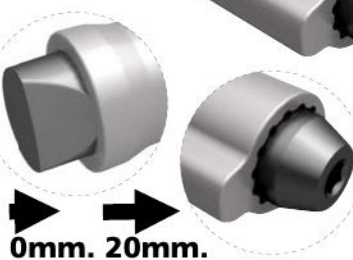
Assembly Note
Notas para el montaje

HAMMERLESS Mining PIN Pasador Minería



mm			NOSE			
L	Ø		REF	Cross Ref		
235,7 9,28"	68,2 2,69"	5,80 12,79	FM1100 DPNA FM1100 PIAK2, FM1100 PIAK	S110DPN	110	M14 9/16"
267,6 10,54"	74 2,91"	8,00 17,64	FM1300 DPNA FM1300 PIAK2, FM1300 PIAK	S130DPN	130	M14 9/16"
306,6 12,07"	83,9 3,30"	11,70 25,79	FM1450 DPNA FM11450 PIAK	S145DPN	145	M14 9/16"

DUAL EXPANSION DOBLE EXPANSIÓN



DUAL TAKE UP

Dual take up retention increases adapter nose life

EXTRA TENSION

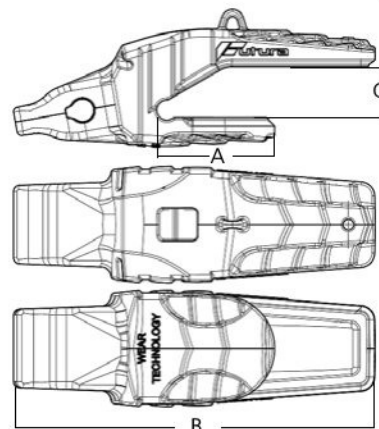
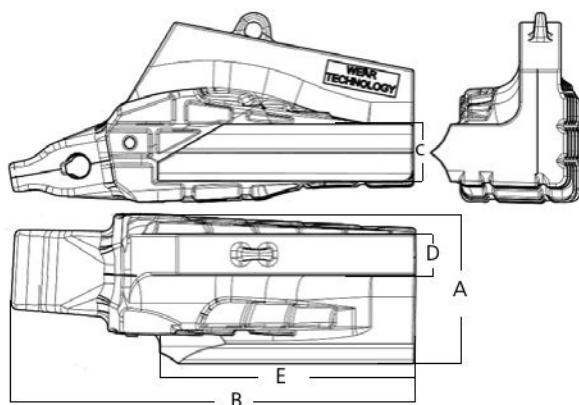
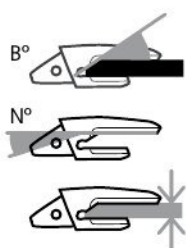
La retención de doble tirante aumenta la vida útil de la nariz del adaptador

miner

MINER 1100 ADAPTERS

PORTADIENTES MINER 1100

Weld-On Adapters Portadientes Soldable Minería



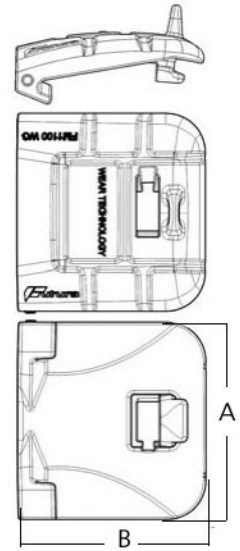
CLH
LEFT CORNER
ADAPTER




CRH
RIGHT CORNER
ADAPTER

mm.							N°	B°		REF	Cross Ref	
A	B	C	D	E								
329	1009	142	-	-	10	30	140	297,00	FM1100-140	5874-S110	FM1100 WC	FM1100 PIAK2
12,95"	39,72"	5,59"	-	-	10	30	5,51"	654,76				
357	1027	163	-	-	10	30	160	297,50	FM1100-160	5875-S110		
14,06"	40,43"	6,42"	-	-	10	30	6,30"	655,86				
415	1123	160	115	710	10	30	160	725,00	FM1100 CLH	PWL3-S110	-	FM1100 PIAK2
16,34"	44,21"	6,30"	4,53"	27,95"	10	30	6,30"	1598,32				
415	1123	160	115	710	10	30	160	725,00	FM1100 CRH	PWR3-S110	-	F120X760 UWS
16,34"	44,21"	6,30"	4,53"	27,95"	10	30	6,30"	1598,32				

110

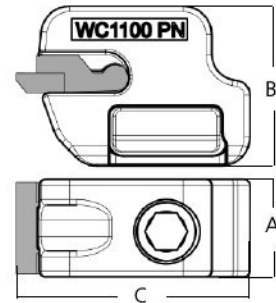
Adapter Wear Caps Protectores Portadientes





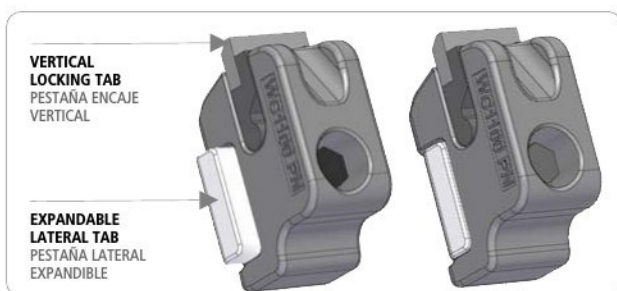
A	B		REF	Cross Ref		
304 11,97"	320 12,60"	26,4 58,20	FM1100 WC	WC95 WC1100 PN		FM1100-140 mm FM1100-160 5874-S110 5875-S110



PIN for Wear Caps PASADOR para Protectores Portadientes



mm				ADAPTER
A	B	C		REF
34 1,34"	55 2,17"	82 3,23"	0,80 1,76	WC1100 PN
				
				110



EXTFLS
EXTRACTION TOOL



Adapter Wear Caps Protectores Portadientes

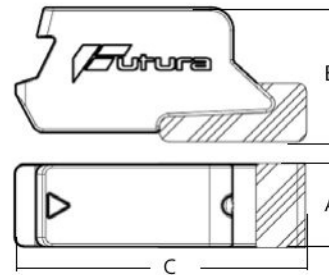


ASSEMBLY

mm				REF	Cross Ref	FWB01B	FWL01B	130
A	B	C						
438 17,24"	72 2,83"	400 15,75"	80,00 176,37	FWR57B	KLR57MB			
472 18,58"	70 2,76"	402 15,83"	83,00 182,98	FWR61B	KLR61MB			145



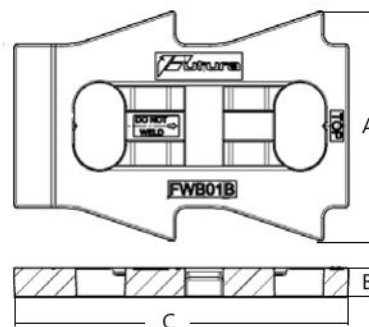
PIN for Wear Caps PASADOR



mm				REF	Cross Ref
A	B	C			
25,2 0,99"	40,9 1,61"	88,8 3,50"	6,30 13,89	FWL01B	KLL01MB

FWT01
 EXTRACTION TOOL

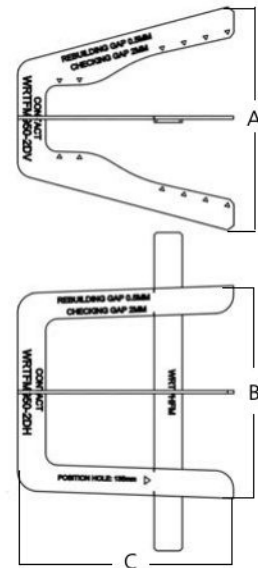
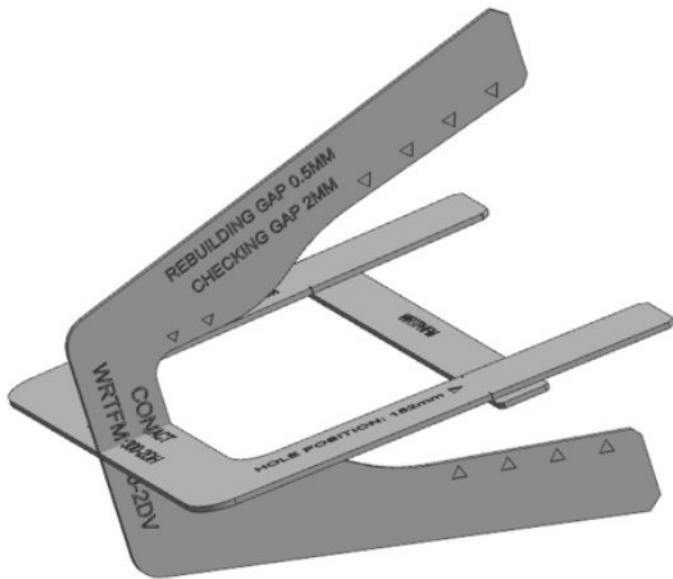
Weld-on Base for Wear Caps BASE SOLDABLE



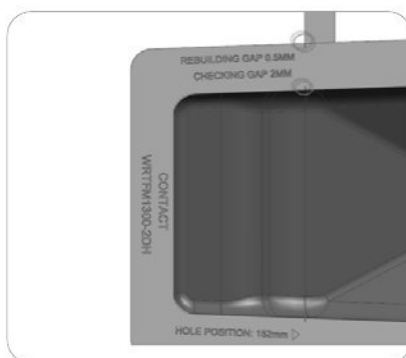
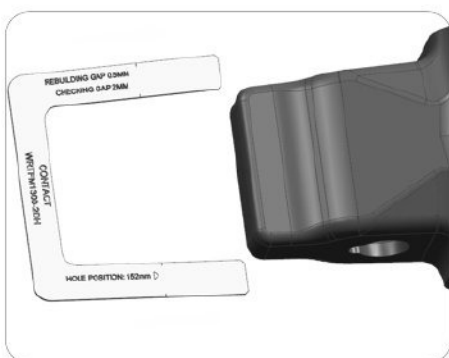
mm				REF	Cross Ref
A	B	C			
196 7,72"	25 0,98"	286 11,26"	30,00 66,14	FWB01B	KLB01MB



Nose Checking Templates 2D Plantilla para Comprobación de Narices



mm.				REF	Cross Ref	Adapters	Noses	
A	B	C						
281 11,06"	267 10,51"	269 10,59"	1,96 4,32	WRTFM950-2D	WRTS95CT WRTS95ST	S95	WN-S95	95
312 12,28"	330 12,99"	324 12,76"	2,70 5,95	WRTFM1100-2D	WRTS110CT WRTS110ST	S110	WN-S110	110
346 13,62"	383 15,08"	330 12,99"	3,27 7,21	WRTFM1300-2D	WRTS130CTA WRTS130STA	S130	WN-S130	130
369 14,53"	421 16,57"	365 14,37"	3,70 8,16	WRTFM1450-2D	WRTS145CT WRTS145ST	S145	WN-S145	145

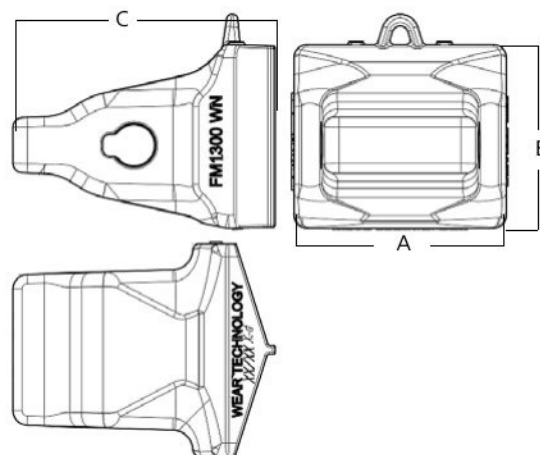





miner

MINER 1100 1300 & 1450 WELD-ON NOSES

MINER 1100 1300 Y 1450 NARICES SOLDABLES

WN Weld-On Nose Nariz Soldable

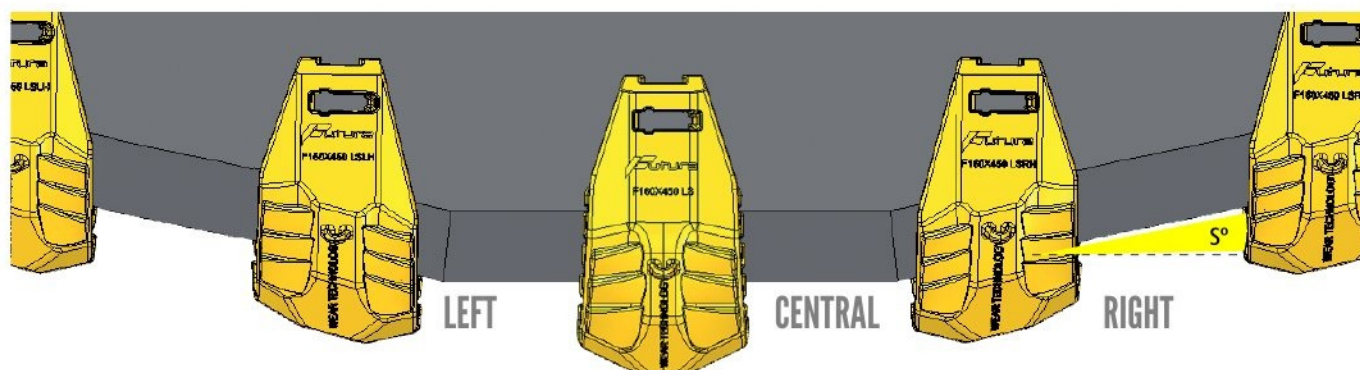


mm.			REF	CROSS REF		SIZES TALLAS	
A	B	C					
305 12,01"	289 11,38"	400 15,75"	117,00 257,94 FM1100 WN	WN110	FM1100 PIAK2	92	110
361 14,21"	311 12,24"	446 17,56"	174,00 383,60 FM1300 WN	WN130	FM1300 PIAK2	112	130
392 15,43"	340 13,39"	474 18,66"	225,00 496,03 FM1450 WN	2N145	FM1450 PIAK	122	145

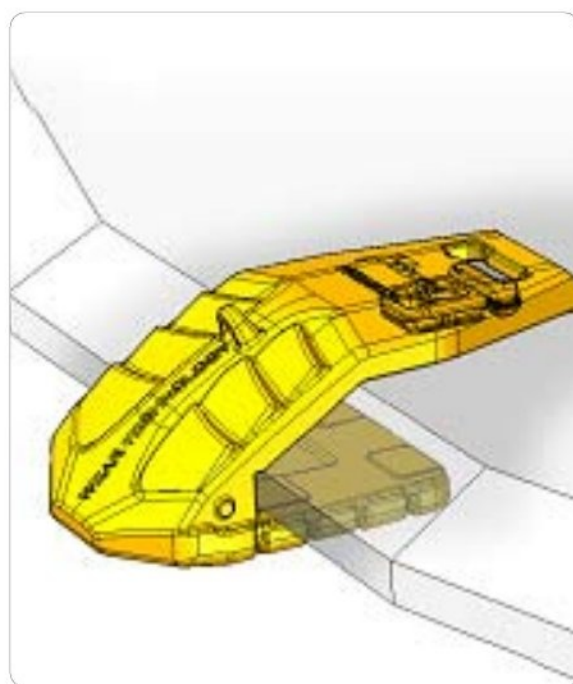
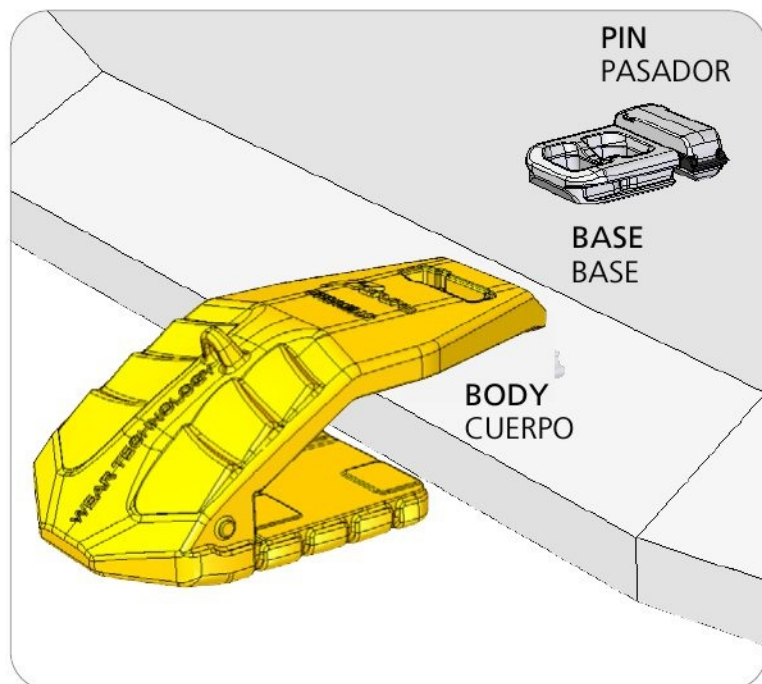
miner

LIP SHROUDS FOR EXCAVATORS AND LOADERS

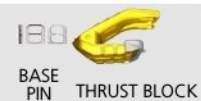
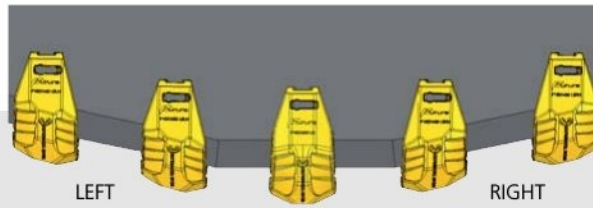
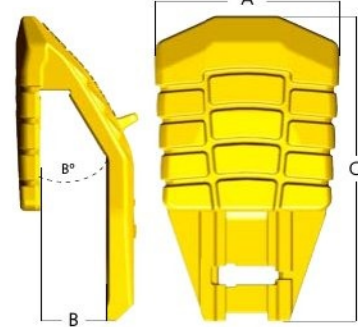
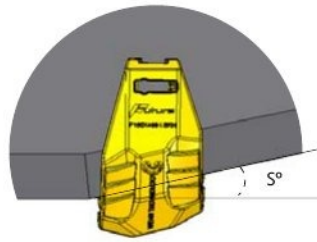
GAMA COMPLETA
PROTECTORES DE CUCHILLA



ASSEMBLY MONTAJE

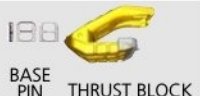
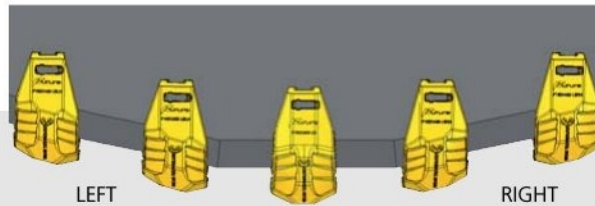
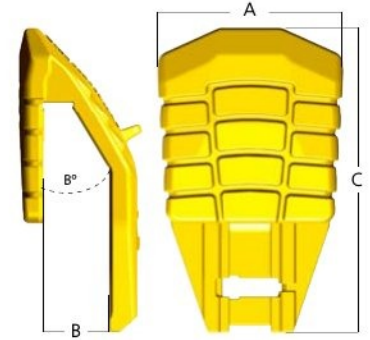


EXCAVATOR Lip Shrouds Protector de Cuchilla para EXCAVADORA



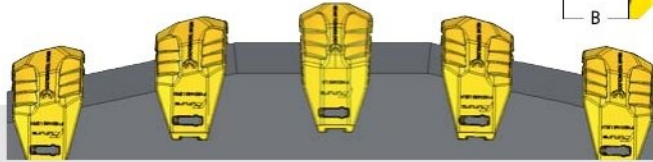
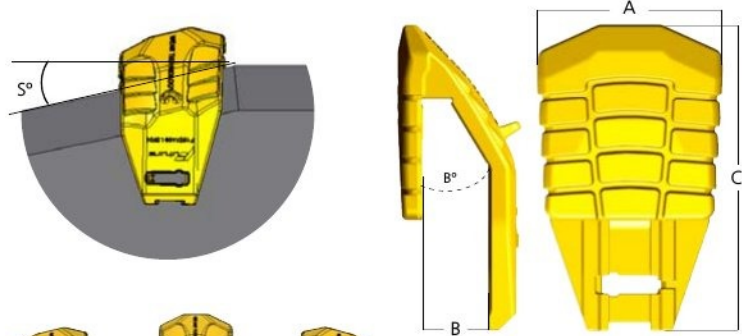
mm.		in		B°	S°		Lb	LEFT	RIGHT	BASE PIN	THRUST BLOCK
A	B	C									
240	72	430	16,9"	-	-	39	85	F70X240 LSLH TAC70X240-2L	F70X240 LS TAC70X240-1B	F70X240 LSRH TAC70X240-2R	FAB FAP
9,4"	2,8"	429	16,9"	30°	14°	42	91				
245	94	468	18,4"	-	-	45	99	F90X245 LSLH TAC 90X245-2LA	F90X245 LS TAC 90X245-1A	F90X245 LSRH TAC 90X245-2RA	FAB FAP
9,6"	3,7"	494	19,4"	30°	22°	46	101				
320	94	505	19,9"	-	-	77	169	F90X320 LSLH TAC 90X320-6L	F90X320 LS TAC 90X320-5	F90X320 LSRH TAC 90X320-6R	FAB FAP
12,6"	3,7"	521	20,5"	30°	14°	80	175		F90X360 LS		
360	94	527	20,7"	30°	14°	90	187	F90X360 LSLH TAC90X360-2L		F90X360 LSRH TAC90X360-2R	FAB FAP
14,2"	3,7"										
393	94	527	20,7"	30°	14°	90	195	F90X390 LSLH TAC90X390-1L	F90X390 LS	F90X390 LSRH TAC90X390-1R	FAB FAP
15,5"	3,7"										
290	103	601	23,7"	-	-	86	190	F100X290 LSLH TBC 100X290-4L	F100X290 LS TBC 100X290-3	F100X290 LSRH TBC 100X290-4R	FBB FBP
11,4"	4,1"	629	24,8"	30°	22°	90	198				
320	103	595	23,4"	-	-	99	218	F100X320 LSLH TBC 100X320-2L	F100X320 LS TBC 100X320-1B	F100X320 LSRH TBC 100X320-2R	FBB FBP
12,6"	4,1"	607	23,9"	30°	10°	100	219				
377	103	577	22,7"	-	-	110	242	F100X375 LSLH TBC100X375-1L	F100X375 LS TBC100X375-2	F100X375 LSRH TBC100X375-1R	FBB FBP
14,8"	4,1"	630	24,8"	30°	22°	114	251				
410	103	600	23,6"	-	-	123	271	F100X410 LSLH TBC 100X410-4L	F100X410 LS TBC 100X410-3	F100X410 LSRH TBC 100X410-4R	FBB FBP
16,1"	4,1"	618	24,3"	30°	10°	126	278				
430	103	577	22,7"	-	-	130	287	F100X430 LSLH TBC 100X430-2L	F100X430 LS TBC100X430-1	F100X430 LSRH TBC 100X430-2R	FBB FBP
16,9"	4,1"	629	24,8"	30°	22°	133	293				
330	124	609	24,0"	-	-	118	260	F120X330 LSLH TBC 120X330-2LA	F120X330 LS TBC120X330-1A	F120X330 LSRH TBC 120X330-2RA	FBB FBP
13,0"	4,9"	639	25,2"	30°	22°	120	265				
375	124	623	24,5"	-	-	140	309	F120X375 LSLH	F120X375 LS	F120X375 LSRH	FBB FBP
14,8"	4,9"	641	25,2"	30°	22°	140	309				
410	124	629	24,8"	-	-	150	331	F120X410 LSLH TBC120X410-3L	F120X410 LS	F120X410 LSRH TBC120X410-3R	FBB FBP
16,1"	4,9"	640	25,2"	30°	14°	154	338				
410	124	626	24,6"	-	-	123	271	F120X410D22 LSLH TBC120X410-2L	F120X410D22 LSRH TBC120X410-2R		FBB FBP
16,1"	4,9"	626	24,6"	30°	22°	123	271				

EXCAVATOR Lip Shrouds Protector de Cuchilla para EXCAVADORA



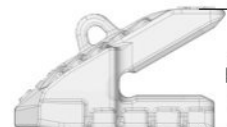
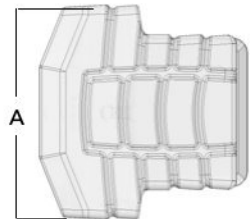
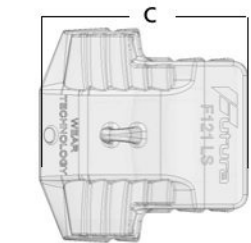
mm.		in		B°	S°	kg	Lb			BASE PIN	THRUST BLOCK
A	B	C						LEFT	RIGHT		
440	124	608	24,5"	30°	11,5°	120	287	F120X440 LSLH TBC120X440-2LB	F120X440 LS TBC120X440-1B	F120X440 LSRH TBC120X440-2RB	FBB FBP
535	124	610	24,0"	30°	11,5°	120	367	F120X535 LSLH TBC120X535-4L	F120X535 LS TBC120X535-3	F120X535 LSRH TBC120X535-4R	FBB FBP
420	143	729	28,1"	30°	11,5°	140	397	F140X420 LSLH TBC140X420-2LA	F140X420 LS TBC140X420-1A	F140X420 LSRH TBC140X420-2RA	FBB FBP TB160140
465	143	730	28,1"	30°	11,5°	140	487	F140X465 LSLH TBC140X465-1RB	F140X465 LS TBC140X465-3A	F140X465 LSRH TBC140X465-1RB	FBB FBP
490	143	730	28,1"	30°	11,5°	140	507	F140X490 LSLH TBC140X490-2LB	F140X490 LS TBC140X490-1B	F140X490 LSRH TBC140X490-2RB	FBB FBP
575	143	768	30,2"	30°	11,5°	140	509	F140X575 LSLH TBC140X575-1LA	F140X575 LS TBC140X575-1A	F140X575 LSRH TBC140X575-1RA	FBB FBP TB140
430	166	727	28,6"	30°		160	403		F160X430 LS TBC160X430-1		FBB FBP
450	166	800	32,3"	30°	14°	160	538	F160X450 LSLH TBC160X450-2L	F160X450 LS TBC160X450-1	F160X450 LSRH TBC160X450-2R	FBB FBP TB160140
520	166	824	32,4"	30°	14°	160	703	F160X520 LSLH TBC160X520-1L		F160X520 LSRH TBC160X520-1R	FBB FBP
570	166	854	33,6"	30°	14°	160	780	F160X570 LSLH TBC160X570-1L		F160X570 LSRH TBC160X570-1R	FBB FBP
430	234	822	32,4"	30°		230	853		F230X430 LS TCCF130-28 TCCF130-21C TCCF130-21D		FCB FCP TB230
600	234	868	34,2"	30°		230	1.003		F230X600 LS TCCF130-16A TCC130-25C		FCB FCP
410	250	879	34,6"	30°		245	763		F245X410 LS TCCF145-4 TCCF145-5 TCCF145-1B		FCB FCP
570	250	879	34,6"	30°		245	1.041		F245X570 LS TCCF145-3 TCCF145-6 TCCF145-8 TCCF145-2B		FCB FCP

LOADER Lip Shrouds Protector de Cuchilla para CARGADORA



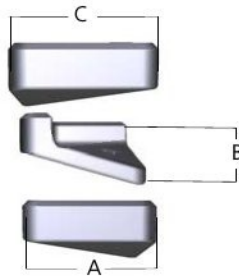
mm.		in.		B°	S°	KG	Lb		LEFT	CENTER	RIGHT	BASE	PIN
A	B	C											
		429	16,9"	-		72	158			F50X345 LDS			
345	52	445	17,5"	30°	13°	50	72	158	F50X345 LDSLH TAC50X345-4L	TAC50X345-3	F50X345 LDSRH TAC50X345-4R	FAB	FAP
13,6"	2,0"					2"							
		468	18,4"	-		100	220			F70X415 LDS			
415	73	494	19,4"	30°	13°	70	105	231	F70X415 LDSLH TAC70X415-3L	TAC70X415-1	F70X415 LDSRH TAC70X415-3R	FAB	FAP
16,3"	2,9"					2,8"							
		563	22,2"	-		105	231			F70X450 LDS			
450	73	572	22,5"	30°	10°	70	107	236	F70X450 LDSLH TAC70X450-2LA	TAC70X450-1A	F70X450 LDSRH TAC70X450-2RA	FAB	FAP
17,7"	2,9"					2,8"							
		575	22,6"	-		153	337			F75X430 LDS			
430	77	600	23,6"	30°	13°	75	154	340	F75X430 LDSLH TAC75X430-2L	TAC75X430-1	F75X430 LDSRH TAC75X430-2R	FAB	FAP
16,9"	3,0"					3"							
		610	24,0"	-		159	351			F90X435 LDS			
435	94	635	25,0"	30°	10°	90	163	359	F90X435 LDSLH TBC90X435-2LC		F90X435 LDSRH TBC90X435-2RC	FBB	FBP
17,1"	3,7"					3,5"							
		615	24,2"	-		135	298			F100X410 LDS			
410	103	635	25,0"	30°	10°	100	138	304	F100X410 LDSLH TBC100X410-2LB	TBC100X410-1B	F100X410 LDSRH TBC100X410-2RB	FBB	FBP
16,1"	4,1"					3,9"							
		756	29,8"	-		203	448			F100X410B22 LDS			
410	103	763	30,0"	22°	15°	100	208	459	F100X410B22 LDSLH TBC100X410-6LA	BC100X410-5A	F100X410B22 LDSRH TBC100X410-6RA	FBB	FBP
16,1"						3,9"							

LOADER Lip Shrouds Protector de Cuchilla SOLDABLE para CARGADORA

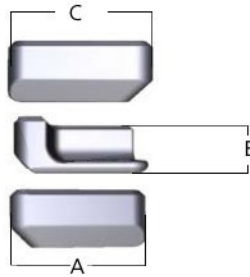


mm.			KG		REF	OEM
A	B	C				
360	209	355	87,00	120	F121 LS	WS141LL
14,17"	8,23"	13,98"	191,80	4,72"		

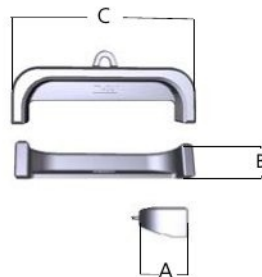
OPTIONAL Thrust Blocks Piezas de Apoyo OPCIONALES



mm.				REF	LIP SHROUD	UNITS
A	B	C				
190	106	190	11,70	TB140	F140X475 RH/LH	1
7,48"	4,17"	7,48"	25,79			



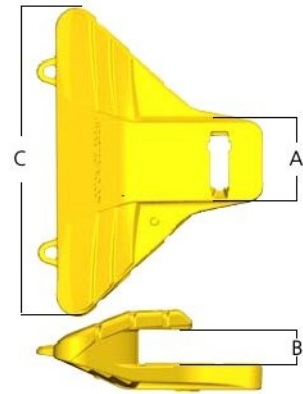
mm.				REF	LIP SHROUD	UNITS
A	B	C				
190	79	190	11,00	TB160140	F140X420 LS/RH/LH F160X450 LS/RH/LH	1
7,48"	3,11"	7,48"	24,25			



mm.				REF	LIP SHROUD	UNITS
A	B	C				
170	104	550	22,00	TB230	F230X430 LS	1
6,69"	4,09"	21,65"	48,50			

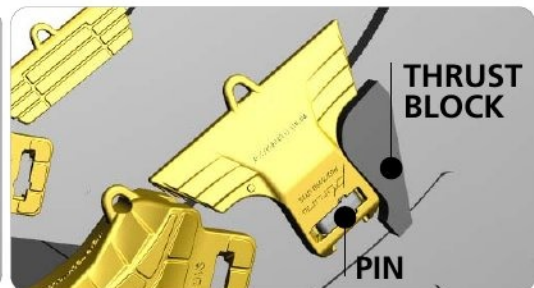
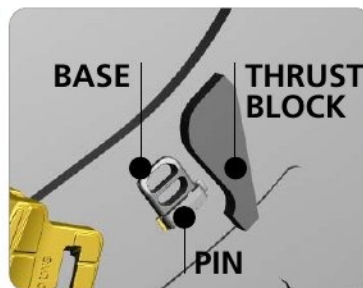


TOP Wing Shrouds Protector Lateral Superior de Cazo



mm.				BASE	PIN	PIN&WAS	THRUST BLOCK				
A	B	C		REF	Cross Ref					Cross Ref	
175 6,89"	42 1,65"	440 17,32"	26,50 58,42	F40X440 UWS	TAW40X440-1A	FAB	FAP	-	FDD33095 TB	PDD33095#1	
175 6,89"	42 1,65"	560 22,05"	53,40 117,72	F40X560 UWS	TAW40X560-1	FAB	FAP	-	FDD33096 TB	PDD33096#1	40 1,57"
171 6,73"	42 1,65"	600 23,62"	33,50 73,85	F40X600 UWS	TAW40X600-1	FAB	FAP	BE7-5280 75KLSR	FDE51413 TB	PDE51413#3	
175 6,89"	53 2,09"	505 19,88"	49,60 109,35	F50X505 UWS	TAW50X505-2	FAB	FAP	-	FDD32816 TB	PDD32816#1	
176 6,93"	53 2,09"	505 19,88"	31,50 69,44	F50X505B UWS	TAW50X505-1A	FAB	FAP	-	FDD32816 TB	PDD32816#1	
175 6,89"	53 2,09"	630 24,80"	49,40 108,91	F50X630 UWS	TAW50X630-1A	FAB	FAP	-	FDE51413 TB	PDE51413#3	50 1,97"
175 6,89"	53 2,09"	655 25,79"	86,50 190,70	F50X655 UWS	TBW50X655-1	FAB	FAP	-	FDD33097 TB	PDD33097#1	
228 8,98"	53 2,09"	800 31,50"	74,20 163,58	F50X800 UWS	TAW50X800-1A	FAB	FAP	?	F3489 TB	EP3489#1	
228 8,98"	67 2,64"	800 31,50"	83,00 182,98	F65X800 UWS	TAW65X800-1B	FAB	FAP	?	F3489 TB	EP3489#1	65 2,56"
217 8,54"	77 3,03"	545 21,46"	52,00 114,64	F75X545 UWS	TBW75X545-1A	FBB	FBP	-	FDE1987 TBLH	PDE51987#2L	75 2,95"
220 8,66"	78 3,07"	655 25,79"	99,00 218,25	F75X655 UWS	TBW75X655-1	FBB	FBP	-	FDE1987 TBRH	PDE51987#2R	
226 8,90"	82 3,23"	797 31,38"	111,00 244,71	F80X800 UWS	TBW80X800-1A	FBB	FBP	?	F3492 TB	EP3492#1	80 3,15"
226 8,90"	93 3,66"	495 19,49"	67,00 147,71	F90X495 UWS	TBW90X495-1	FBB	FBP	-			90 3,54"
226 8,90"	93 3,66"	855 33,66"	235,00 518,08	F90X855 UWS	TBW90X855-1A	FBB	FBP	-	FDD32678 TB	PDD32678#1	
220 8,66"	103 4,06"	965 37,99"	158,80 350,09	F100X965 UWS	TBW100X965-1	FBB	FBP	-	FDD32680 TB	PDD32680#1	100 3,94"
202 7,95"	123 4,84"	760 29,92"	165,00 363,76	F120X760 UWS	TAW120X760-1	FAB	FAP	-	FDD33024 TB	PDD33024#1	120 4,72"
250 9,84"	123 4,84"	760 29,92"	194,00 427,69	F120X760A UWS	TAW120X760-1A	FBB	FBP	-	F3495 TB	EP3495#1	
253 9,96"	142 5,59"	800 31,50"	238,00 524,69	F140X800 UWS	TBW140X800-1	FBB	FBP	-	FDD33366 TB	PDD33366#1	140 5,51"

ASSEMBLY MONTAJE

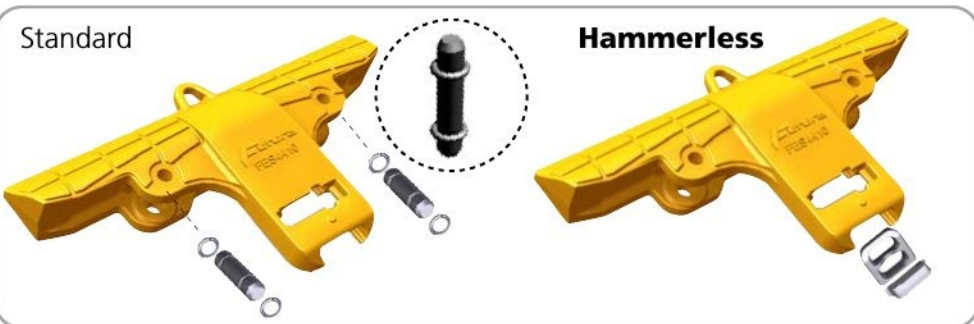


Bolt-On Wing Shrouds Protector Lateral Atornillable



mm.				REF	Cross Ref	BASE	PIN	PIN	WASHER	THRUST BLOCK			
A	B	C											
268 10,55"	42 1,65"	600 23,62"	33,50 73,85	F40X600 UWS	TAW40X600-1	FAB	FAP	BE7-5280	2 Un.	75KLKSR	4 Un.	FDE1413 TB PDE51413#3	40 1,57"
359 14,13"	53 2,09"	800 31,50"	74,20 163,58	F50X800 UWS	TAW50X800-1A				2 Un.		4 Un.	F3489 TB EP3489#1	50 1,97"
358 14,09"	53 2,09"	800 31,50"	59,90 132,05	FES4410	ES4410	FAB	FAP	E7-4411-4A	2 Un.	75KLKSR	4 Un.	FDD32816 TB PDD32816 TB#1	65 2,56"
360 14,17"	67 2,64"	800 31,50"	83,00 182,98	F65X800 UWS	TAW65X800-1B	FAB	FAP		2 Un.		4 Un.	F3489 TB EP3489#1	80 3,15"
356 14,02"	82 3,23"	800 31,50"	111,00 244,71	F80X800 UWS	TBW80X800-1A	FAB	FAP		2 Un.		4 Un.	F3492 TB EP3492#1	

Two Locking Options Dos opciones de montaje:

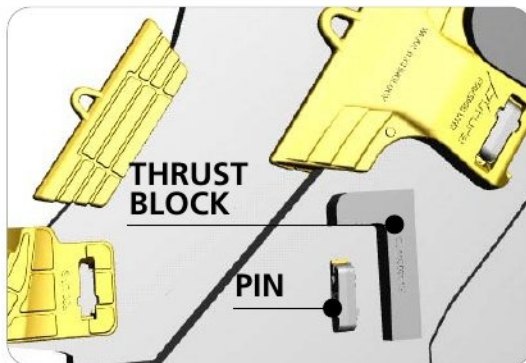


LOWER Wing Shrouds Protector Lateral Inferior



mm.			REF	Cross Ref	BASE	PIN	THRUST BLOCK	Cross Ref		
A	B	C								
309 12,17"	53 2,09"	185 7,28"	69,00 152,12	F50 LWS	TAW50-1	FAB	FAP	-	-	50 1,97"
295 11,61"	66 2,60"	219 8,62"	75,70 166,89	F65 LWS	TAW65-1	FAB	FAP	FDD33808 TB	PDD33808	65 2,56"
301 11,85"	77 3,03"	261 10,28"	81,50 179,67	F75 LWS	TAW75-1	FAB	FAP	FDD33808 TB	PDD33808	75 2,95"
307 12,09"	93 3,66"	259 10,20"	85,00 187,39	F90 LWS	TAW90-1	FAB	FAP	FDD33808 TB	PDD33808	90 3,54"
291 11,46"	116 4,57"	286 11,26"	91,00 200,62	F115 LWS	TAW115-1	FAB	FAP	FDD33312 TB	PDD33312#1	115 4,53"
317 12,48"	138 5,43"	399 15,71"	113,00 249,12	F135 LWS	TAW135-1	FAB	FAP	FDD33312 TB	PDD33312#1	135 5,31"
350 13,78"	165 6,50"	365 14,37"	194,00 427,69	F165 LWS-RH	TBW165-1R	FBB	FBP	FDD33367 TB	PDD33367#1	165 6,50"
350 13,78"	165 6,50"	365 14,37"	194,00 427,69	F165 LWS-LH	TBW165-1L					

ASSEMBLY MONTAJE

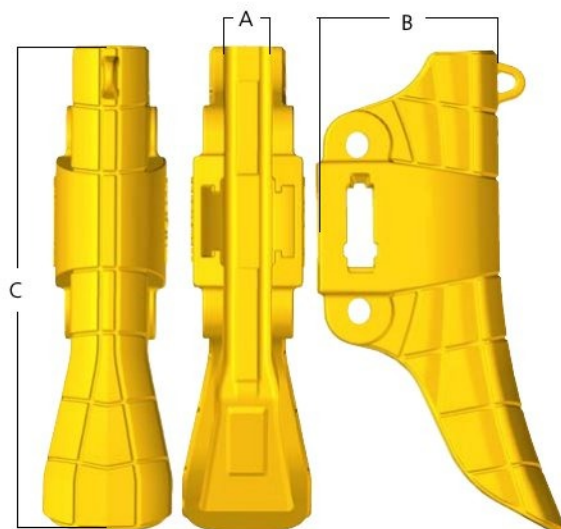
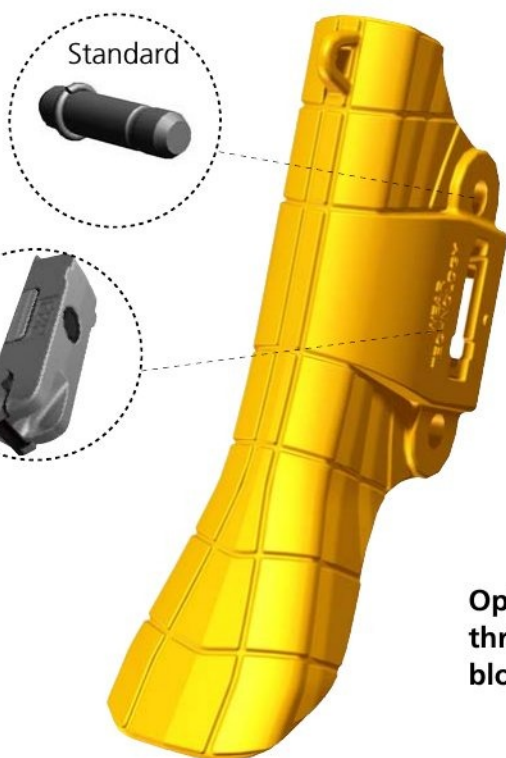


Wing Shroud Protector Lateral de Cazo

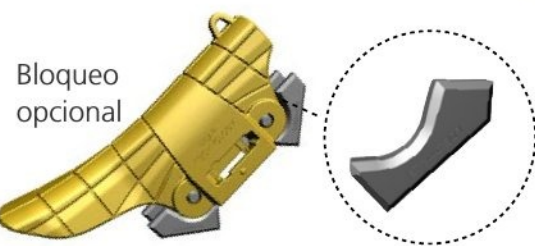
Two Locking Options

Dos opciones de montaje

Hammerless

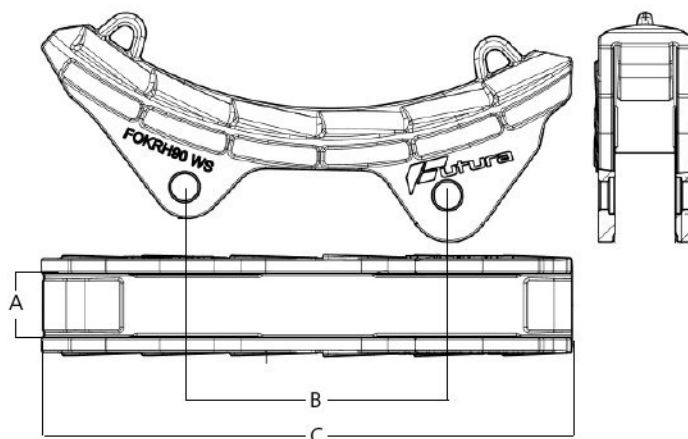


Optional thrust blocks



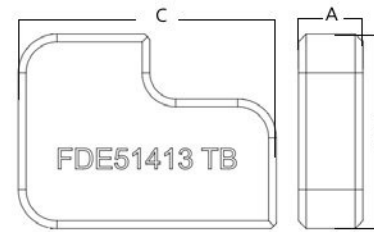
mm.				BASE	PIN	PIN	WASHER	THRUST BLOCK					
A	B	C	KG	REF	Cross Ref								
83	333	884	132,40	FPDE52445	PDE52445	FBB	PBP	PDB31183-3	2 Un.	120KLKSR	2 Un.	FDE52445 TB PDE52445	80 3,15"

Wing Shroud Compatible O&K Protector Lateral para Cazo O&K



mm.				PIN	WASHER			
A	B	C	KG	REF	Cross			
93	401	811	70,00	FOKRH90 WS	2224824	2 Un.	2 Un.	90 3,54"

Thrust Blocks for Top Wing Shrouds Bloques de Apoyo





mm.				REF	Cross Ref	FOR SHROUD		REF
A	B	C						
26 1,02"	92 3,61"	174 6,85"	1,90 4,19	F3489 TB	EP3489#1	F50X800 UWS F65X800 UWS	50 65	1,97" 2,56"
30 1,18"	125 4,92"	220 8,66"	3,40 7,50	F3492 TB	EP3492#1	F80X800 UWS	80	3,15"
25 0,97"	153 6,01"	182 7,18"	3,10 6,83	F3495 TB	EP3495#1	F120X760A UWS	120	4,72"
63 2,48"	121 4,76"	392 15,44"	19,00 41,89	FDD32678 TB	PDD32678#1	F90X855 UWS	90	3,54"
40 1,57"	120 4,72"	217 8,52"	4,60 10,14	FDD32680 TB	PDD32680#1	F100X965 UWS	100	3,94"
45 1,77"	121 4,76"	326 12,83"	8,20 18,08	FDD32816 TB	PDD32816#1	F50X505 UWS F50X505B UWS	50	1,97"
40 1,57"	82 3,23"	252 9,92"	3,50 7,72	FDD33024 TB	PDD33024#1	F120X760 UWS	120	4,72"
25 0,98"	48 1,89"	176 6,93"	1,60 3,53	FDD33095 TB	PDD33095#1	F40X440 UWS	40	1,57"

Thrust Blocks for Top Wing Shrouds Bloques de Apoyo

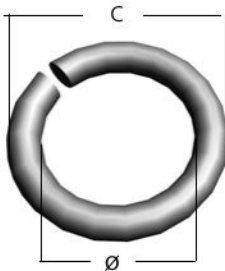
A	mm.			REF	Cross Ref	FOR SHROUD		REF	
	B	C							
26 1,02"	156 6,14"	194 7,64"	3,50 7,72	FDD33096 TB	PDD33096#1	F40X560 UWS	40	1,57"	
26 1,02"	20 0,79"	227 8,94"	2,70 5,95	FDD33097 TB	PDD33097#1	F50X655 UWS	50	1,97"	
45 1,77"	102 4,02"	178 7,00"	3,75 8,27	FDD33312 TB	PDD33312#1	F115 LWS	115 135	4,53" 5,31"	
63 2,48"	190 7,48"	280 11,02"	11,60 25,57	FDD33366 TB	PDD33366#1	F140X800 UWS	140	5,51"	
63 2,48"	178 7,01"	255 10,03"	11,20 24,69	FDD33367 TB	PDD33367#1	F165 LWS-RH F165 LWS-LH	165	6,50"	
40 1,57"	137 5,39"	237 9,33"	5,12 11,29	FDD33808 TB	PDD33808	F65 LWS F75 LWS F90 LWS	65 75 90	2,56" 2,95" 3,54"	
25 0,98"	75 2,95"	100 3,94"	1,20 2,65	FDE51413 TB	PDE51413#3	F40X600 UWS F50X630 UWS	40 50	1,57" 1,97"	
40 1,57"	102 4,02"	227 8,94"	4,24 9,35	FDE51987 TBLH FDE51987 TBRH	PDE51987#2L PDE51987#2R	F75X545 UWS	75	2,95"	
40 1,57"	69 2,72"	178 7,01"	3,58 7,89	FDE52445 TB	PDE52445 TB	FPDE52445	80	3,15"	


Wing Shroud PIN Pasador



mm.			REF	Cross Ref Cruce Ref		Unit
C	∅					
112 4,41"	22 0,87"	0,31 0,68	E7-4411-4A	----	75KLKSR	2
80 3,15"	22 0,87"	0,22 0,49	BE7-5280	----	75KLKSR	2
164 6,45"	38 1,50"	1,38 3,04	PDB31183-3	----	120KLKSR	1

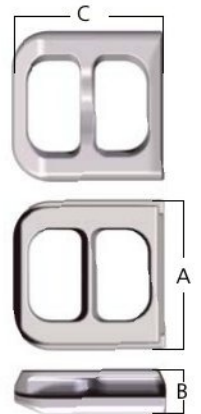
Wing Shroud WASHER Arandela



mm.			REF	Unit
C	∅			
32 1,26"	19,5 0,77"	0,02 0,00"	75KLKSR	2
51 2,01"	35 1,38"	0,05 0,00"	120KLKSR	1

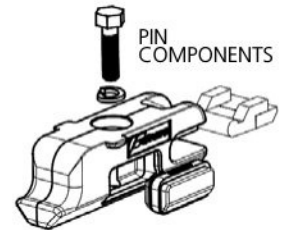
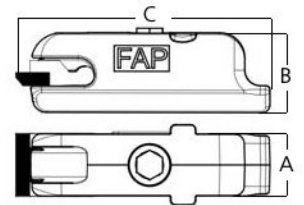
Lip Shroud BASE BASE para Protector de Cuchilla

mm.				REF	Cross Ref
A	B	C			
86 3,39"	32 1,26"	90 3,54"	0,80 1,76	FAB	TAB
127 5,00"	38 1,49"	128 5,04"	1,85 4,08	FBB	TBB
160 6,30"	47,5 1,87"	166 6,55"	3,85 8,49	FCB	TCB



Lip Shroud PIN PASADOR para Protector de Cuchilla

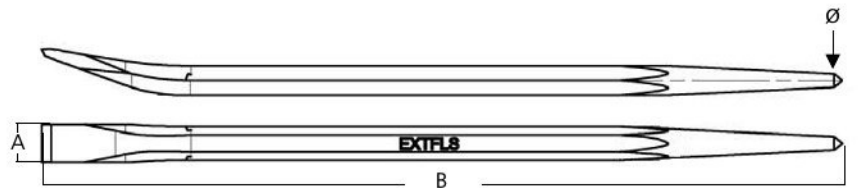
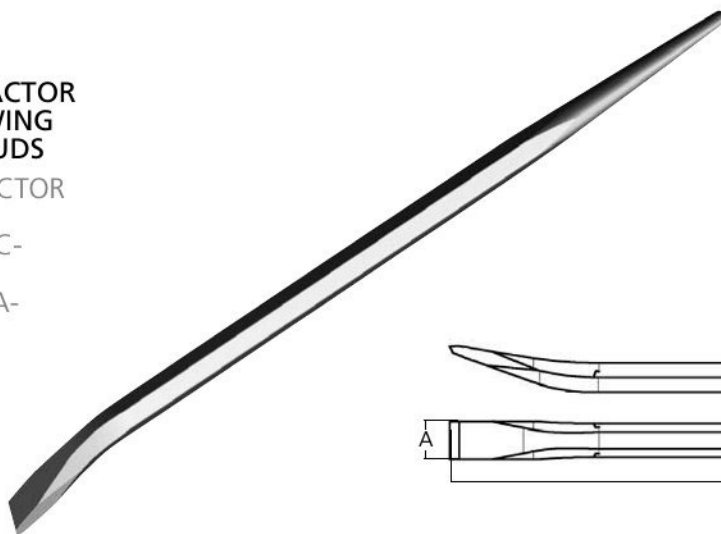
mm.				REF	Cross Ref
A	B	C			
31 1,22"	40 1,57"	127 5,00"	0,85 1,87	FAP	TAP
45 1,77"	52 2,05"	162 6,38"	2,10 4,63	FBP	TBP
50 1,97"	64 2,52"	216 8,50"	REF! REF!	FCP	TCP



EXTFLS Pin Extration TOOL HERRAMIENTA Extractora

PIN
EXTRACTOR
FOR WING
SHROUDS

EXTRACTOR
PARA
PROTEC-
TORES
LATERA-
LES



mm.				
A	B	Ø		REF
16,4 0,65"	350,0 13,78"	5,8 0,23"	0,3 0,66	EXTFLS

LHD

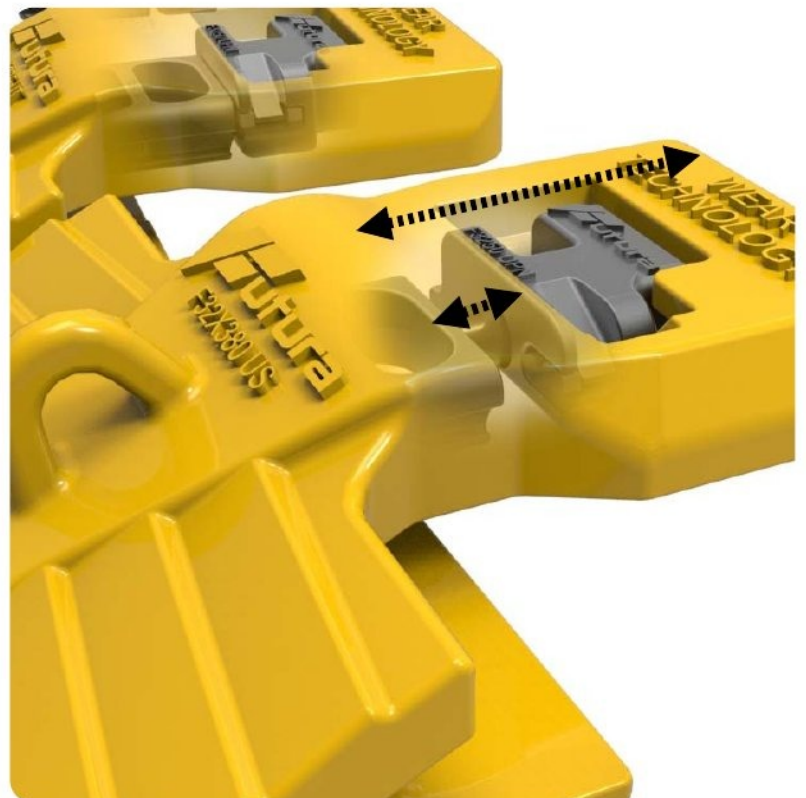
miner



20 mm.

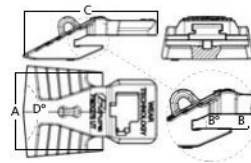
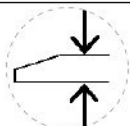
THE 20 mm. PISTON EXPANSION ALLOWS TO MAINTAIN TENSION OF THE SHROUD AGAINST THE BLADE THROUGH OUT THE SHROUD WEAR LIFE

LOS 20mm. DE EXPANSIÓN DEL PISTÓN DEL PASADOR PERMITEN MANTENER LA TENSION DEL PASADOR CONTRA EL PROTECTOR DURANTE TODA SU VIDA ÚTIL.

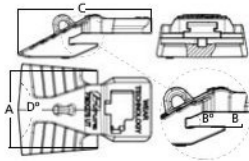
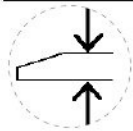


LHD MINER

32MM



SPADE BLADE CUCHILLA DELTA		SPADE BLADE CUCHILLA DELTA		
CAST CORNERS CANTONERA SOLDABLE		CAST CORNER RIGHT CANTONERA SOLDABLE F32X155 UCCR ALTERNATIVE TO 69039974, SCC32X155-RS	Kg. 36,3 lb 79,86 A 171 6,73" B 32 1,26" C 250 9,84"	
CAST CORNERS CANTONERA SOLDABLE		CAST CORNER LEFT CANTONERA SOLDABLE F32X155 UCCL ALTERNATIVE TO 69039973, SCC32X155-LS	Kg. 36,3 lb 79,86 A 171 6,73" B 32 1,26" C 250 9,84"	
CORNER SHROUD PROTECTOR ESQUINA		CORNER SHROUD RIGHT PROTECTOR ESQUINA DERECHO F32X210 UCR ALTERNATIVE TO 69039972, SBP32X210-CR2	Kg. 41,4 lb 91,08 A 243 9,57" B 18 0,71" C 475 18,70"	BASE FAB FUAB PIN F3250 UPN EXT. EXTFU
CORNER SHROUD PROTECTOR ESQUINA		CORNER SHROUD LEFT PROTECTOR ESQUINA IZQUIERDO F32X210 UCL ALTERNATIVE TO 69039971, SBP32X210-CL2	Kg. 41,4 lb 91,08 A 243 9,57" B 18 0,71" C 472 18,58"	BASE FAB FUAB PIN F3250 UPN EXT. EXTFU
CORNER SHROUD PROTECTOR ESQUINA		3/4 CORNER SHROUD RIGHT PROTECTOR ESQUINA 3/4 DCHO. F32X210 UCRH ALTERNATIVE TO 69042489, SBP32X210-CRH2	Kg. 32,9 lb 72,38 A 243 9,57" B 18 0,71" C 432 17,01"	BASE FAB FUAB PIN F3250 UPN EXT. EXTFU
CORNER SHROUD PROTECTOR ESQUINA		3/4 CORNER SHROUD LEFT PROTECTOR ESQUINA F32X210 UCLH ALTERNATIVE TO 69042488, SBP32X210-CLH2	Kg. 32,9 lb 72,38 A 243 9,57" B 18 0,71" C 432 17,01"	BASE FAB FUAB PIN F3250 UPN EXT. EXTFU
TRANSITION SHROUD PROTECTOR TRANSICIÓN		TRANSITION SHROUD PROTECTOR TRANSICIÓN F32X275 UT ALTERNATIVE TO 69039970, SBP32X275-T2	Kg. 38,5 lb 84,7 A 275 10,83" B 33,5 1,32" C 444 17,48"	BASE FAB FUAB PIN F3250 UPN EXT. EXTFU
STRAIGHT SHROUD PROTECTOR RECTO		STRAIGHT SHROUD 250 PROTECTOR RECTO F32X250 US ALTERNATIVE TO 69039967, SBP32X250-S2	Kg. 34,8 lb 76,56 A 250 9,84" B 33,5 1,32" C 434 17,09"	BASE FAB FUAB PIN F3250 UPN EXT. EXTFU
STRAIGHT SHROUD PROTECTOR RECTO		STRAIGHT SHROUD 310 PROTECTOR RECTO F32X310 US ALTERNATIVE TO 69039968, SBP32X310-S2	Kg. 41,1 lb 90,42 A 310 12,20" B 33,5 1,32" C 434 17,09"	BASE FAB FUAB PIN F3250 UPN EXT. EXTFU
STRAIGHT SHROUD PROTECTOR RECTO		STRAIGHT SHROUD 380 PROTECTOR RECTO F32X380 US ALTERNATIVE TO 69039969, SBP32X380-S2	Kg. 47,9 lb 105,38 A 380 14,96" B 33,5 1,32" C 434 17,09"	BASE FAB FUAB PIN F3250 UPN EXT. EXTFU
HEEL SHROUDS GUARDAESQUINAS		WELD-ON HEEL SHROUD GUARDAESQUINAS FS307 HS ALTERNATIVE TO 69041891	Kg. 18,4 lb 40,48 A 198 7,80" B 152 5,98" C 219 8,62"	

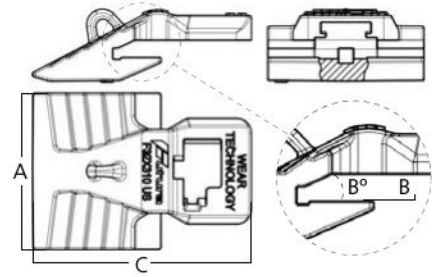


50MM

<p>SPADE BLADE CUCHILLA DELTA</p>		<p>SPADE BLADE CUCHILLA DELTA</p>		
<p>CAST CORNERS CANTONERA SOLDABLE</p>		<p>CAST CORNER RIGHT CANTONERA SOLDABLE F50X175 UCCR ALTERNATIVE TO 69037855, SCC50X175-RS</p>	<p>Kg. 57,5 lb 126,5 A 200 7,87" B 50 1,97" C 295 11,61"</p>	<p>EXTRA LONG CANTONERA SOLDABLE F50X175 UCCER ALTERNATIVE TO 69037870, SCC50X175-RE</p>
<p>CAST CORNERS CANTONERA SOLDABLE</p>		<p>CAST CORNER LEFT CANTONERA SOLDABLE F50X175 UCCL ALTERNATIVE TO 69037854, SCC50X175-LS</p>	<p>Kg. 57,5 lb 126,5 A 200 7,87" B 50 1,97" C 295 11,61"</p>	<p>EXTRA LONG CANTONERA SOLDABLE F50X175 UCCEL ALTERNATIVE TO 69037869, SCC50X175-LE</p>
<p>CORNER SHROUD PROTECTOR ESQUINA</p>		<p>CORNER SHROUD RIGHT PROTECTOR ESQUINA DERECHO F50X235 UCR ALTERNATIVE TO 69039952, SBP50X235-CR2</p>	<p>Kg. 72,6 lb 159,72 A 281 11,06" B 26,5 1,04" C 534 21,02"</p>	<p>BASE FAB FUAB PIN F3250 UPN EXT. EXTFU</p>
<p>CORNER SHROUD PROTECTOR ESQUINA</p>		<p>CORNER SHROUD PROTECTOR ESQUINA IZQUIERDO F50X235 UCL ALTERNATIVE TO 69039951, SBP50X235-CL2</p>	<p>Kg. 72,6 lb 159,72 A 281 11,06" B 26,5 1,04" C 534 21,02"</p>	<p>BASE FAB FUAB PIN F3250 UPN EXT. EXTFU</p>
<p>CORNER SHROUD PROTECTOR ESQUINA</p>		<p>3/4 CORNER SHROUD RIGHT PROTECTOR ESQUINA 3/4 DCHO. F50X235 UCRH ALTERNATIVE TO 69039954, SBP50X235-CRH2</p>	<p>Kg. 63,14 lb 138,91 A 281 11,06" B 26,5 1,04" C 480 18,90"</p>	<p>BASE FAB FUAB PIN F3250 UPN EXT. EXTFU</p>
<p>CORNER SHROUD PROTECTOR ESQUINA</p>		<p>3/4 CORNER SHROUD LEFT PROTECTOR ESQUINA 3/4 IZQ. F50X235 UCLH ALTERNATIVE TO 69039953, SBP50X235-CLH2</p>	<p>Kg. 63,14 lb 138,91 A 281 11,06" B 26,5 1,04" C 480 18,90"</p>	<p>BASE FAB FUAB PIN F3250 UPN EXT. EXTFU</p>
<p>TRANSITION SHROUD PROTECTOR TRANSICIÓN</p>		<p>TRANSITION SHROUD PROTECTOR TRANSICIÓN F50X288 UT ALTERNATIVE TO 69039950, SBP50X288-T2</p>	<p>Kg. 59,0 lb 129,8 A 288 11,34" B 51,5 2,03" C 497 19,57"</p>	<p>BASE FAB FUAB PIN F3250 UPN EXT. EXTFU</p>
<p>STRAIGHT SHROUD PROTECTOR RECTO</p>		<p>STRAIGHT SHROUD PROTECTOR RECTO F50X290 US ALTERNATIVE TO 69039947, SBP50X290-S2</p>	<p>Kg. 59,3 lb 130,46 A 290 11,42" B 51,5 2,03" C 497 19,57"</p>	<p>BASE FAB FUAB PIN F3250 UPN EXT. EXTFU</p>
<p>STRAIGHT SHROUD PROTECTOR RECTO</p>		<p>STRAIGHT SHROUD PROTECTOR RECTO F50X330 US ALTERNATIVE TO 69039948, SBP50X330-S2</p>	<p>Kg. 65,9 lb 144,98 A 330 12,99" B 51,5 2,03" C 497 19,57"</p>	<p>BASE FAB FUAB PIN F3250 UPN EXT. EXTFU</p>
<p>STRAIGHT SHROUD PROTECTOR RECTO</p>		<p>STRAIGHT SHROUD PROTECTOR RECTO F50X420 US ALTERNATIVE TO 69039949, SBP50X420-S2</p>	<p>Kg. 81 lb 178,2 A 420 16,54" B 51,5 2,03" C 497 19,57"</p>	<p>BASE FAB FUAB PIN F3250 UPN EXT. EXTFU</p>
<p>HEEL SHROUDS GUARDAESQUINAS</p>		<p>WELD-ON HEEL SHROUD GUARDAESQUINAS FS517 HS ALTERNATIVE TO 69040888</p>	<p>Kg. 30,4 lb 66,88 A 202 7,95" B 162 6,38" C 297 11,69"</p>	

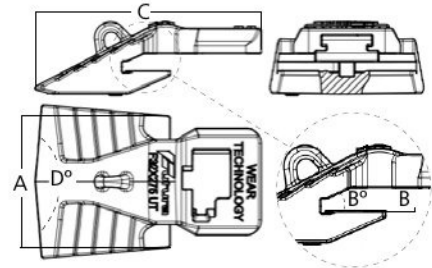
LHD MINER

Lip Shrouds STRAIGHT Protectores Cuchilla RECTOS



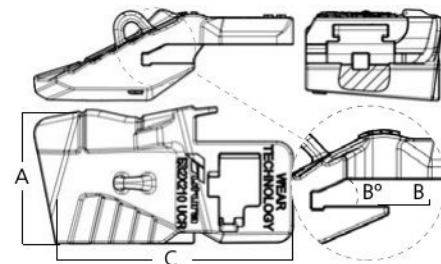
mm.		C	B°	↓ ↑	Kg	REF	ALTERNATIVE TO	BASE	PIN	TOOL	BLADE
A	B										
250 9,8"	33,50 1,3"	434 17,1"	25°	32 1,3"	34,80 76,72	F32X250 US	69039967, SBP32X250-S2	FAB, FUAB	F3250 UPN	EXTFU	
310 12,2"	33,50 1,3"	434 17,1"	25°	32 1,3"	41,10 90,61	F32X310 US	69039968, SBP32X310-S2	FAB, FUAB	F3250 UPN	EXTFU	32
380 15,0"	33,50 1,3"	434 17,1"	25°	32 1,3"	47,90 105,60	F32X380 US	69039969, SBP32X380-S2	FAB, FUAB	F3250 UPN	EXTFU	
290 11,4"	51,50 2,0"	497 19,6"	25°	50 2,0"	59,30 130,73	F50X290 US	69039947, SBP50X290-S2	FAB, FUAB	F3250 UPN	EXTFU	
330 13,0"	51,50 2,0"	497 19,6"	25°	50 2,0"	65,90 145,28	F50X330 US	69039948, SBP50X330-S2	FAB, FUAB	F3250 UPN	EXTFU	55
420 16,5"	51,50 2,0"	497 19,6"	25°	50 2,0"	81,00 178,57	F50X420 US	69039949, SBP50X420-S2	FAB, FUAB	F3250 UPN	EXTFU	

Lip Shrouds TRANSITION Protectores Cuchilla de TRANSICIÓN



mm.		C	B°	D°	↓ ↑	Kg	REF	ALTERNATIVE TO	BASE	PIN	TOOL	BLADE
A	B											
275 10,8"	33,50 1,3"	445 17,5"	25°	170°	32 1,3"	38,50 84,88	F32X275 UT	69039970, SBP32X275-T2	FAB, FUAB	F3250 UPN	EXTFU	32
288 11,3"	51,50 2,0"	497 19,6"	25°	170°	50 2,0"	59,00 130,07	F50X288 UT	69039950, SBP50X288-T2	FAB, FUAB	F3250 UPN	EXTFU	55

Lip Shrouds CORNER Protectores Cuchilla ESQUINEROS



mm.						REF	ALTERNATIVE TO	BASE	PIN	TOOL	BLADE
A	B	C	B°								
243 9,6"	18,00 0,7"	472 18,6"	25°	16 0,6"	41,40 91,27	F32X210 UCL	69039971, SBP32X210-CL2	FAB, FUAB	F3250 UPN	EXTFU	32
243 9,6"	18,00 0,7"	472 18,6"	25°	16 0,6"	41,40 91,27	F32X210 UCR	69039972, SBP32X210-CR2	FAB, FUAB	F3250 UPN	EXTFU	
243 9,6"	18,00 0,7"	432 17,0"	25°	16 0,6"	32,90 72,53	F32X210 UCLH	69042488, SBP32X210-CLH2	FAB, FUAB	F3250 UPN	EXTFU	
243 9,6"	18,00 0,7"	432 17,0"	25°	16 0,6"	32,90 72,53	F32X210 UCRH	69042489, SBP32X210-CRH2	FAB, FUAB	F3250 UPN	EXTFU	
281 11,1"	26,50 1,0"	534 21,0"	25°	25 1,0"	72,60 160,05	F50X235 UCL	69039951, SBP50X235-CL2	FAB, FUAB	F3250 UPN	EXTFU	55
281 11,1"	26,50 1,0"	534 21,0"	25°	25 1,0"	71,80 158,29	F50X235 UCR	69039952, SBP50X235-CR2	FAB, FUAB	F3250 UPN	EXTFU	
281 11,1"	26,50 1,0"	480 18,9"	25°	25 1,0"	63,14 139,20	F50X235 UCLH	69039954, SBP50X235-CRH2	FAB, FUAB	F3250 UPN	EXTFU	
281 11,1"	26,50 1,0"	480 18,9"	25°	25 1,0"	63,14 139,20	F50X235 UCRH	69039953, SBP50X235-CLH2	FAB, FUAB	F3250 UPN	EXTFU	

UCL UCR

3/4 SHROUD
 UCLH UCRH

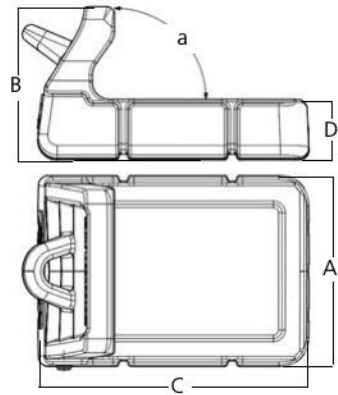
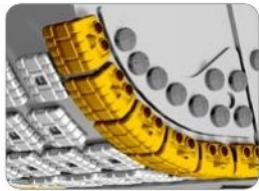
CORNERS ARE SHORTER TO HELP MAINTAIN BUCKET PROFILE WHEN THE REST OF SHROUDS ARE WORN

ESTOS PROTECTORES SON MÁS CORTOS Y AYUDAN A MANTENER EL PERFIL DEL CAZO Y PROLONGAR LA VIDA DEL MONTAJE A CUANDO EL RESTO DE PROTECTORES ESTÁ DESGASTADO



LHD MINER

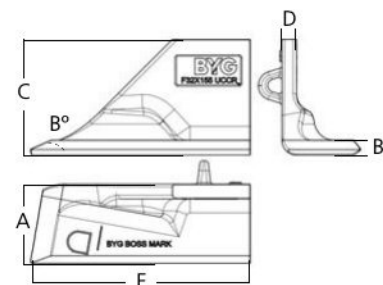
Weld-On Heel Shroud Protector Esquinero Soldable



Compatible SANDVIK®


A	in	B	in	C	in	D	in	a°		Lb	SHROUD	Cross Ref
198	7,80"	152	5,98"	219	8,62"	50	1,97"	90°	18,4	40	FS307 HS	69041891
202	7,95"	162	6,38"	297	11,69"	64	2,52"	90°	30,4	67	FS517 HS	69040888

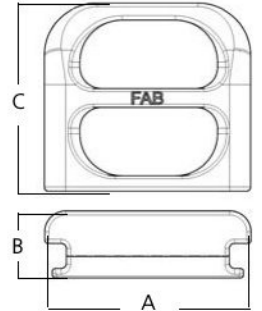
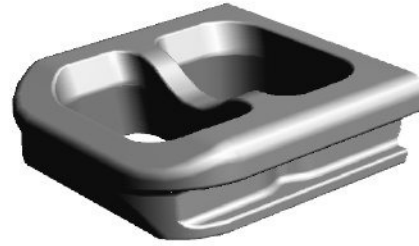
Cast CORNERS Protectores ESQUINEROS




		mm.							REF	ALTERNATIVE TO	BLADE
A	B	C	D	E	B°						
171	32	250	32	476	25°	32	36,30	F32X155 UCCL	69039973	32	
6,7"	1,3"	9,8"	1,3"	18,7"		1,3"	80,03		SCC32X155-LS		
171	32	250	32	476	25°	32	36,30	F32X155 UCCL	69039974,	32	
6,7"	1,3"	9,8"	1,3"	18,7"		1,3"	80,03		SCC32X155-RS		
200	50	295	50	471	25°	50	57,50	F50X175 UCCL	69037854,	55	
7,9"	2,0"	11,6"	2,0"	18,5"		2,0"	126,76		SCC50X175-LS		
200	50	295	50	471	25°	50	57,50	F50X175 UCCL	69037855,	55	
7,9"	2,0"	11,6"	2,0"	18,5"		2,0"	126,76		SCC50X175-RS		
200	50	295	50	539	25°	50	69,00	F50X175 UCCEL	69037869,	55	
7,9"	2,0"	11,6"	2,0"	21,2"		2,0"	152,12		SCC50X175-LE		
200	50	295	50	539	25°	50	69,00	F50X175 UCCEL	69037870,	55	
7,9"	2,0"	11,6"	2,0"	21,2"		2,0"	152,12		SCC50X175-RE		

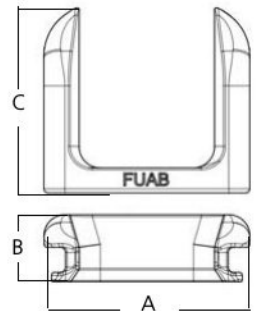
Lip Shrouds BASE BASE para Protector

mm.				
A	B	C		REF
86	32	90	0,80	FAB
3,39"	1,26"	3,54"	1,76	

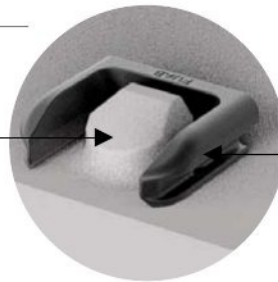


ADAPTER for Sandvik Base Adaptador para bases Sandvik

mm.				
A	B	C		REF
86	32	90	0,60	FUAB
3,39"	1,26"	3,54"	1,32	




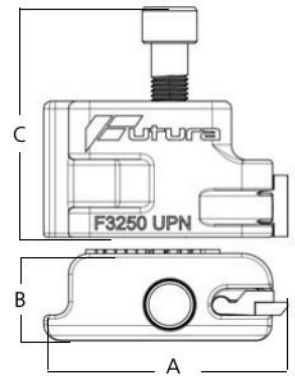
EXISTING
SANDVIK
BASE



FUTURA
FUAB
ADAPTER

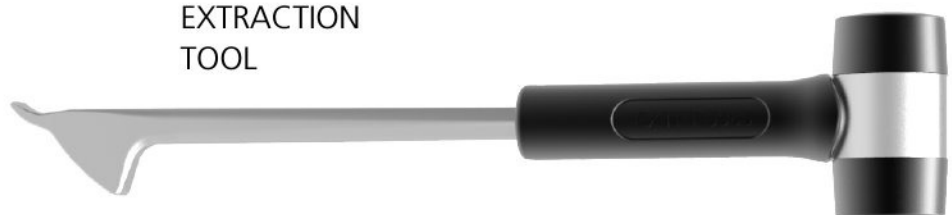
Lip Shroud PIN PASADOR para Protector de Cuchilla

mm.				
A	B	C		REF
127	46	121	2,29	F3250 UPN
5,00"	1,81"	4,76"	5,05	



EXTFU Pin Extraction TOOL HERRAMIENTA Extractora

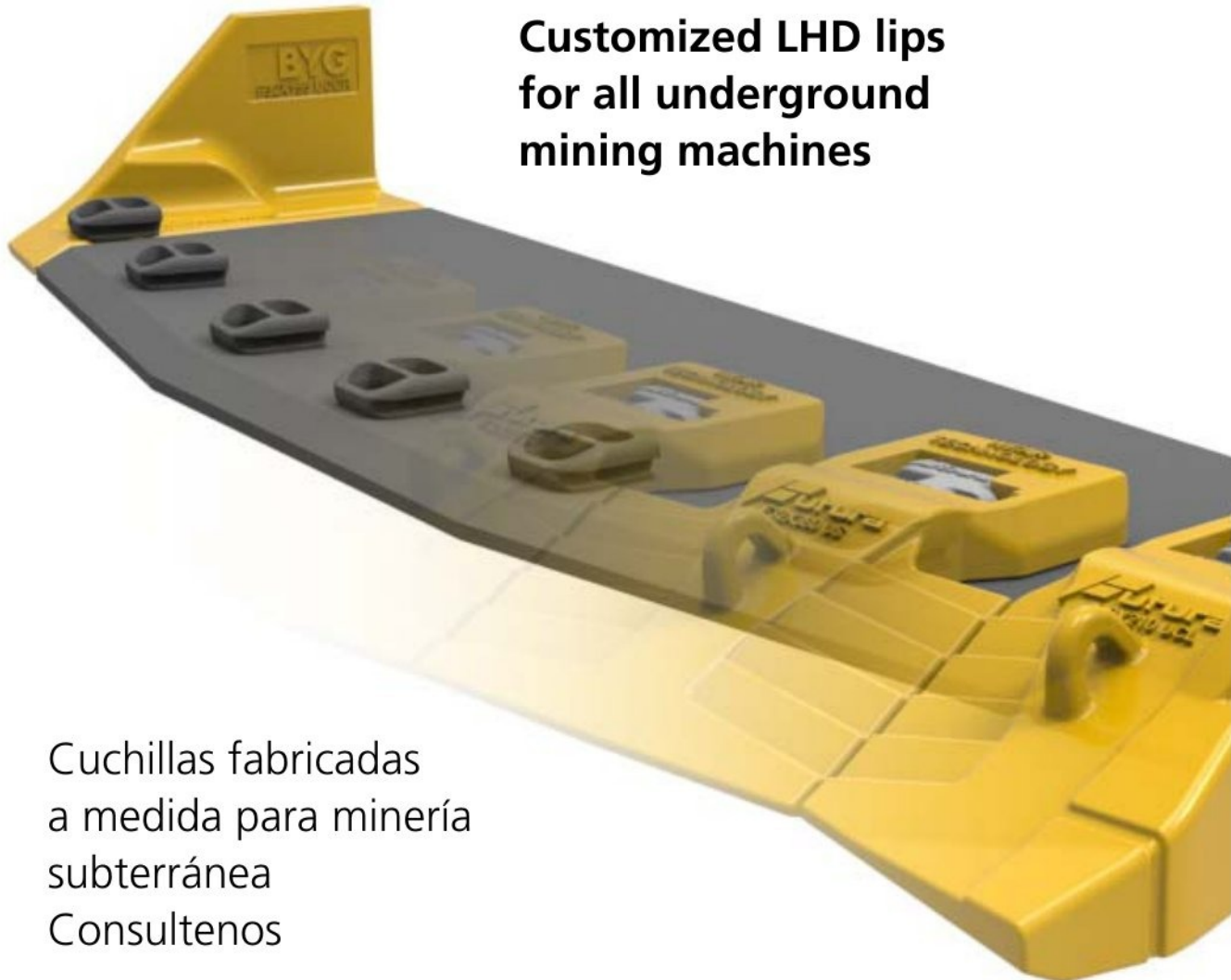
EXTFU
EXTRACTION
TOOL



LHD MINER

LHD customized lips Cuchillas LHD a medida

**Customized LHD lips
for all underground
mining machines**



Cuchillas fabricadas
a medida para minería
subterránea
Consúltenos