

# FUTURA **WEAR** TECH

# drp



## DIRECT REPLACEMENT PARTS

PIEZAS DE REEMPLAZO DIRECTO

DIRECT  
REPLACEMENT  
PARTS FOR

PIEZAS DE  
REEMPLAZO  
DIRECTO PARA

# Adco

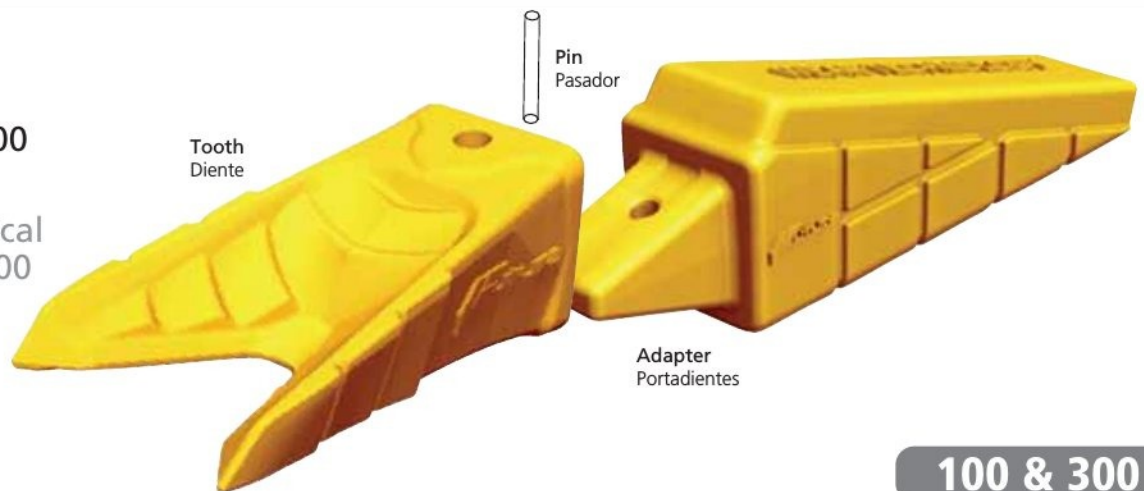
## Teeth and Adapters Dientes y Portadientes

**Bold part number,  
product available**  
Other part numbers  
please consult

**Referencia en negrita  
producto disponible**  
Otras referencias  
consúltenos

Vertical Pin  
Assembly  
sizes 100 & 300

Montaje  
Pasador Vertical  
tallas 100 y 300



**100 & 300**

Side Pin  
Assembly  
size 400

Montaje  
Pasador Lateral  
talla 400

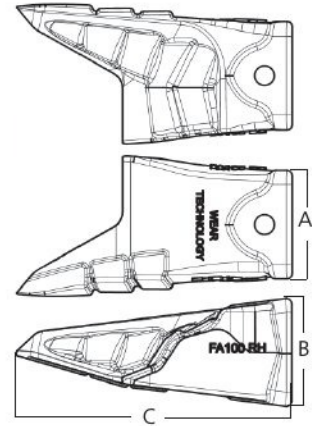


**400**

RH	C	LH	RH	C	LH	
<b>FA100 RH</b> 100RH	<b>FA100 C</b> 100C	<b>FA100 LH</b> 100LH	<b>FA110 RH</b> 110RH	<b>FA110</b> 110	<b>FA110 LH</b> 110LH	<b>100</b>
<b>FA300 RH</b> 300RH	<b>FA300 C</b> 300C	<b>FA300 LH</b> 300LH	<b>FA310 RH</b> 310RH	<b>FA310</b> 310	<b>FA310 LH</b> 310LH	<b>300</b>
<b>FA400 RH</b> 400RH	<b>FA400 C</b> 400C	<b>FA400 LH</b> 400LH	<b>FA410 RH</b> 410RH	<b>FA410</b> 410	<b>FA410 LH</b> 410LH	<b>400</b>

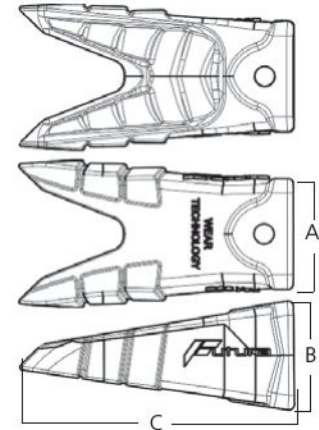
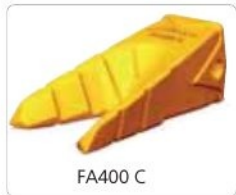
Adco

Right Hand Tooth Diente Derecho



mm.			KG	REF	Cross Ref Cruce Ref				
A	B	C							
61 2,40"	60 2,36"	150 5,91"	1,54 3,40	<b>FA100 RH</b>	100RH	P156	-	FA110 RH	<b>100</b>
92 3,62"	86 3,39"	216 8,50"	4,21 9,28	<b>FA300 RH</b>	300RH	P160	-	FA310 RH	<b>300</b>
110 4,33"	115 4,53"	304 11,97"	10,40 22,93	<b>FA400 RH</b>	400RH	8E-6358 114-0358	8E-6359 114-0359	FA410 RH	<b>400</b>

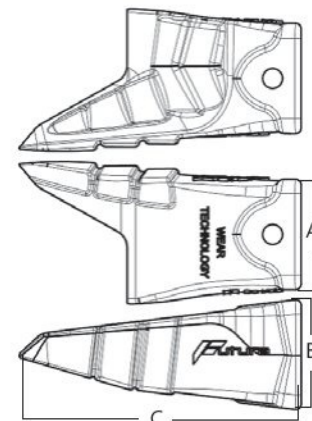
Central Tooth Diente Central



mm.			KG	REF	Cross Ref Cruce Ref				
A	B	C							
61 2,40"	60 2,36"	150 5,91"	1,50 3,31	<b>FA100 C</b>	100C	P156	-	FA110	<b>100</b>
92 3,62"	86 3,39"	216 8,50"	4,95 10,91	<b>FA300 C</b>	300C	P160	-	FA310	<b>300</b>
110 4,33"	115 4,53"	304 11,97"	9,50 20,94	<b>FA400 C</b>	400C	8E-6358 114-0358	8E-6359 114-0359	FA410	<b>400</b>

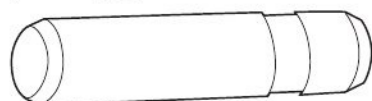
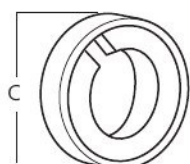
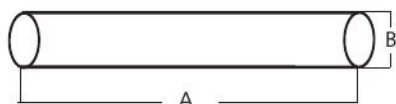


## Left Hand Tooth Diente Izquierdo



mm.			KG	REF	Cross Ref Cruce Ref				
A	B	C							
61 2,40*	60 2,36*	150 5,91*	1,54 3,40	<b>FA100 LH</b>	100LH	P156	-	FA110 LH	<b>100</b>
92 3,62*	86 3,39*	216 8,50*	4,21 9,28	<b>FA300 LH</b>	300LH	P160	-	FA310 LH	<b>300</b>
110 4,33*	115 4,53*	304 11,97*	10,40 22,93	<b>FA400 LH</b>	400LH	8E-6358 114-0358	8E-6359 114-0359	FA410 LH	<b>400</b>

## Pin Pasador



mm.					
A	B	C			
57 2,24*	10 0,39*		<b>P156</b>		<b>100</b>
64 2,52*	13 0,51*		<b>P160</b>		<b>300</b>
108 4,25*	19 0,75*	40 1,57*	<b>8E-6358</b> <b>114-0358</b>	<b>8E-6359</b> <b>114-0359</b>	<b>400</b>



Adco

Adapters Portadientes



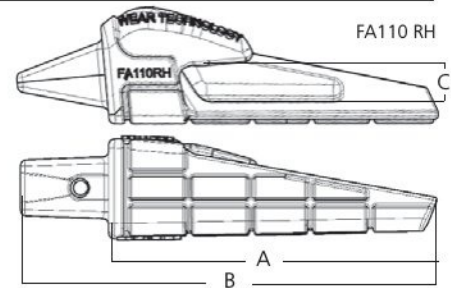
Right Hand Adapter  
Portadientes  
derecho



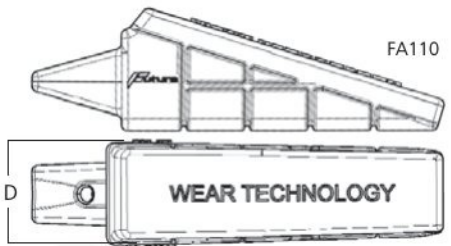
Central Adapter  
Portadientes  
central



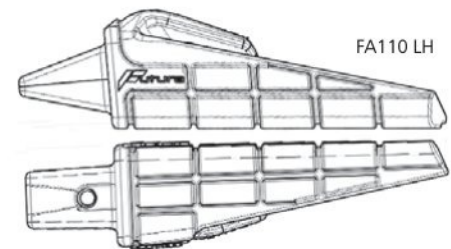
Left Hand Adapter  
Portadientes  
izquierdo



FA110 RH



FA110



FA110 LH



FA410 RH



FA410



FA410 LH

mm.					Cross Ref Cruce Ref	P156	P160	8E-6358 114-0358	8E-6359 114-0359	FA100 RH	FA100 C	FA100 LH
A	B	C	D	KG								
217 8,54"	275 10,83"	22 0,87"	-	3,18 7,01	<b>FA110 RH</b>	110RH	P156			FA100 RH		
214 8,43"	262 10,31"	-	81 3,19"	4,71 10,38	<b>FA110</b>	110	P156			FA100 C	<b>100</b>	
217 8,54"	275 10,83"	22 0,87"	-	3,20 7,05	<b>FA110 LH</b>	110LH	P156			FA100 LH		
228 8,98"	313 12,32"	38 1,50"	-	5,80 12,79	<b>FA310 RH</b>	310RH	P160			FA300 RH		
280 #####	349 13,74"	-	210 8,27"	19,50 42,99	<b>FA310</b>	310	P160			FA300 C	<b>300</b>	
228 8,98"	313 12,32"	38 1,50"	-	5,82 12,83	<b>FA310 LH</b>	310LH	P160			FA300 LH		
390 #####	283 11,14"	53 2,09"	-	12,78 28,17	<b>FA410 RH</b>	100RH	8E-6358 114-0358	8E-6359 114-0359		FA400 RH		
277 214	368 14,49"	-	197 7,76"	21,06 46,43	<b>FA410</b>	300RH	8E-6358 114-0358	8E-6359 114-0359		FA400 C	<b>400</b>	
283 #####	390 15,35"	53 2,09"	-	12,78 28,17	<b>FA410 LH</b>	400RH	8E-6358 114-0358	8E-6359 114-0359		FA400 LH		

Case 580 & 770

DIRECT  
REPLACEMENT  
PARTS FOR

PIEZAS DE  
REEMPLAZO  
DIRECTO PARA

**Bold part number,  
product available**  
*Other part numbers  
please consult*

**Referencia en negrita  
producto disponible**  
*Otras referencias  
consúltenos*

# Case

## Bolt On teeth for Case 580 & 770

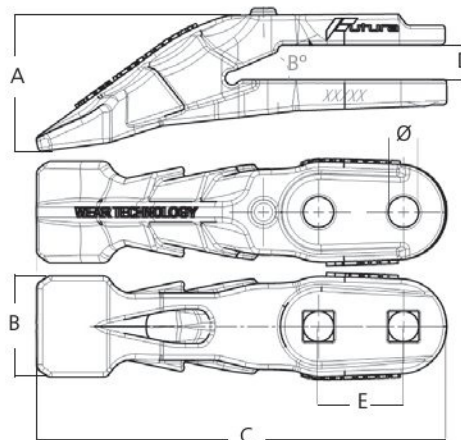
## Dientes Atornillables para Case 580 y 770



**FCS420052** **FCS420020** **FCS420053** 580-770

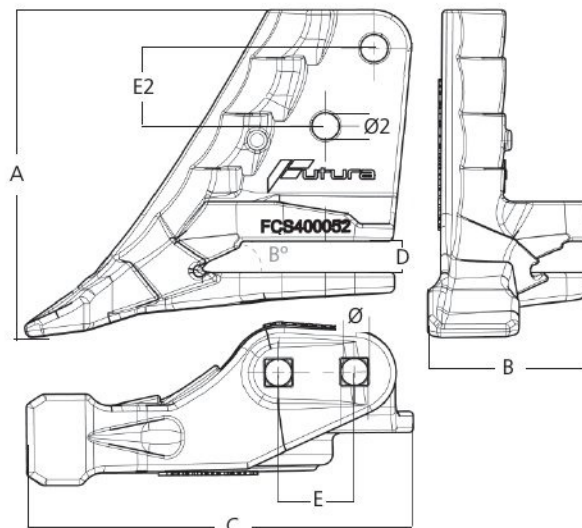
Case 580 & 770

Bolt-On Tooth Diente Atornillable



mm.														
A	B	C	D	E	Ø	B°								
80	60	241,5	20,5	50	18	23,5°	<b>20</b>	<b>FCS420020</b>	PB-514	TAC-580	<b>580-770</b>			
3,15"	2,36"	9,51"	0,81"	1,97"	0,71"		2,8	BU0420002						

Bolt-On Corner Cantonera Atornillable

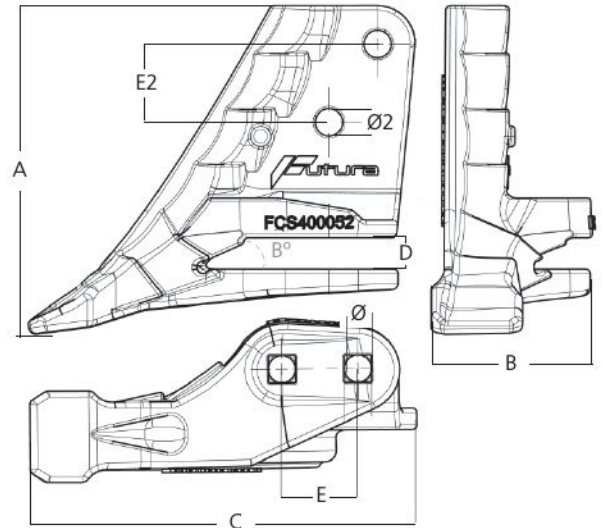


mm.															
A	B	C	D	E	E2	Ø	Ø2	B°							
216	104	255	20,5	50	51	18	18	23,5°	<b>20</b>	<b>FCS420052</b>	S-9092	TAC-580	PB-514	TAC-580	<b>580-770</b>
8,50"	4,09"	10,04"	0,81"	1,97"	2,01"	0,71"	0,71"		5,9	BU0630302					



Case 580 & 770

**Bolt-On Corner** Cantonera Atornillable

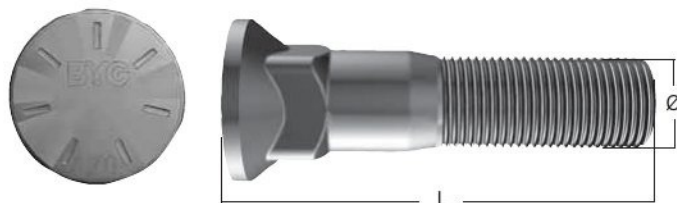


mm.																
A	B	C	D	E	E2	Ø	Ø2	B°								
216	104	255	20,5	50	51	18	18	23,5°	<b>20</b>	5,9	<b>FCS420053</b>	S-9092	TAC-580	PB-514	TAC-580	<b>580-770</b>
8,50"	4,09"	10,04"	0,81"	1,97"	2,01"	0,71"	0,71"		0,79"	13,01	BU0630303					

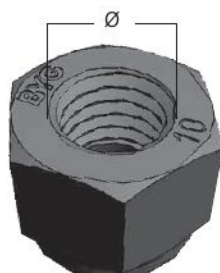
**Bolts & Nuts** Tornillos y Tuercas



mm.		OEM	BYG
L	Ø		
2-1/4"	5/8"	8S-9092	<b>S-9092</b>



mm.		OEM	BYG
L	Ø		
2-3/4"	5/8"	4F-3657	<b>PB-514</b>



mm.		OEM	BYG
Ø			
5/8"		2H-3789	<b>TAC-580</b>

Caterpillar

DIRECT  
REPLACEMENT  
PARTS FORPIEZAS DE  
REEMPLAZO  
DIRECTO PARA

# Caterpillar

## Side Pin Teeth

## Sistema Pasador Lateral

**Bold part number,  
product available***Other part numbers  
please consult***Referencia en negrita  
producto disponible***Otras referencias  
consúltenos*

# Caterpillar

## Key to part numbers Codificación Referencias


<b>F</b>	<b>C</b>	<b>330</b>	<b>RPL</b>
BRAND MARCA	TYPE TIPO	SIZE TALLA	ROCK ROCA
		VERSION VERSION	PENETRATION PENETRACION
			LIGHT LIGERO

**Limited sale to authorized Futura dealers**  
Venta limitada a distribuidores autorizados FUTURA

## Guide to part sizes by Maximum Machine Weight (tons)

Guía para la elección de tallas según peso máximo de la máquina (en toneladas)

	200	225	250	300	350	400	460	550	600	700	800
<b>Standard</b>	8,7	11,5	16,7	25,0	33,8	46,9	63,6	81,2	103,7	144,1	248,4
<b>HD</b>	6,8	8,9	12,9	19,5	25,0	33,4	46,9	63,6	81,2	103,7	136,4
<b>ST/HD</b>	7,1	10,0	15,7	21,7	29,4	39,9	53,3	67,4	88,8	119,9	188,0
<b>Extra HD</b>	5,4	7,6	12,0	16,3	22,1	30,2	39,9	53,3	67,4	88,8	129,9
<b>ST/HD</b>								62,2	82,9	110,0	161,1
<b>Extra HD</b>								48,6	62,2	82,9	120,4
	Light Construction Construcción Ligera		Construction Construcción				Heavy Construction Construcción Pesada			Mining Mining	



F	L	U	Weight
FC200 F	FC200 L		20
	FC220 L		22
FC250 F	FC250 L	FC250 U	25
FC300 F	FC300 L	FC300 U	30
FC350 F	FC350 L	FC350 U	35
FC400 F	FC400 L	FC400 U	40
FC450 F	FC450 L		46
FC550 F	FC550 L		55
	FC600 L		60



### Loader Cargadora

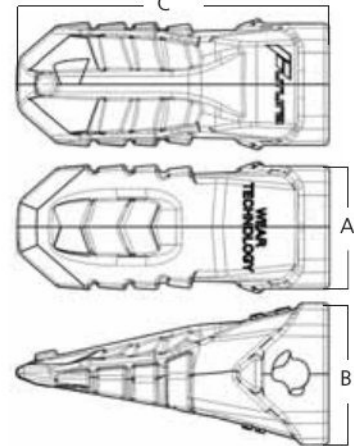
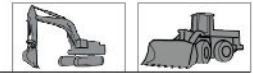
### Excavator / Excavadora



RPL	RP	RPHD	SYL	I	TL	VTL	WTL	WTS	WTP	P	RC	PHC	Weight
FC200 RPL			FC200 SYL		FC200 TL		FC200 WTL			FC200 P	FC200 RC		20
													22
FC250 RPL	FC250 RP		FC250 SYL		FC250 TL		FC250 WTL			FC250 P	FC250 RC		25
FC300 RPL	FC300 RP		FC300 SYL		FC300 TL		FC300 WTL			FC300 P	FC300 RC		30
FC350 RPL	FC350 RP		FC350 SYL		FC350 TL		FC350 WTL	FC350 WTS		FC350 P	FC350 RC		35
FC400 RPL	FC400 RP	FC400 RPHD	FC400 SYL	FC350 I	FC400 TL		FC400 WTL			FC400 P	FC400 RC		40
FC450 RPL	FC450 RP	FC450 RPHD	FC450 SYL	FC450 I	FC450 TL	FC450 VTL	FC450 WTL	FC450 WTS		FC450 P	FC450 RC	FC450 PHC	46
FC550 RPL	FC550 RP	FC550 RPHD	FC550 SYL	FC550 I	FC550 TL	FC550 VTL	FC550 WTL		FC550 WTP	FC550 P	FC550 RC		55
FC600 RPL	FC600 RP	FC600 RPHD	FC600 SYL		FC600 TL	FC600 VTL	FC600 WTL		FC600 WTP	FC600 P	FC600 RC		60
	FC700 RP	FC700 RPHD			FC700 TL	FC700 VTL	FC700 WTL			FC700 P	FC700 RC		70
	c	FC800 RPHD			FC800 TL					FC800 P	FC800 RC		80

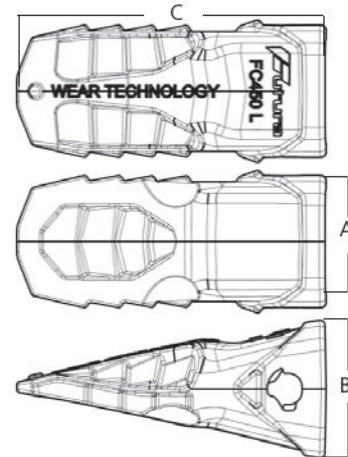
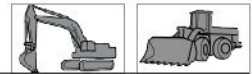


### UNIVERSAL Tooth Diente UNIVERSAL



mm.			KG	REF	OEM						C
A	B	C									
81 3,19*	89 3,50*	210 8,27*	3,10 6,83	<b>FC250 U</b>	1U-3252	FC250HL2	132-4763	8E-6259 149-5733	FC250		<b>25</b>
93 3,66*	104 4,09*	213 8,39*	4,20 9,26	<b>FC300 U</b>	1U-3302	FC300HL2	132-4766	8E-6259 149-5733	FC300 FC300-35		<b>30</b>
107 4,21*	118 4,65*	242 9,53*	6,00 13,23	<b>FC350 U</b>	1U-3352	FC350HL2	114-0358	8E-6359 114-0359	FC350 FC350 B-35		<b>35</b>
134 5,28*	140 5,51*	293 11,54*	10,90 24,03	<b>FC450 U</b>	9W-8452	FC450HL2	114-0468	8E-8469 107-3469	FC450 FC450-63	FC450 S	<b>46</b>

### LONG Teeth Diente LARGO



mm.			KG	REF	OEM						C
A	B	C									
62 2,44*	66 2,60*	159 6,26*	1,60 3,53	<b>FC200 L</b>	1U-3202	FC200HL2	8E-6208	8E-6209	FC200	FC200 BL	<b>20</b>
75 2,95*	81 3,19*	172 6,77*	2,10 4,63	<b>FC220 L</b>	6Y-3222	FC220HL2	132-4762	8E-6259 149-5733	FC220		<b>22</b>
81 3,19*	89 3,50*	210 8,27*	3,40 7,50	<b>FC250 L</b>	1U-3252	FC250HL2	132-4763	8E-6259 149-5733	FC250		<b>25</b>
93 3,66*	104 4,09*	220 8,66*	4,70 10,36	<b>FC300 L</b>	1U-3302	FC300HL2	132-4766	8E-6259 149-5733	FC300 FC300-35		<b>30</b>
106 4,17*	116 4,57*	256 10,08*	6,90 15,21	<b>FC350 L</b>	1U-3352	FC350HL2	114-0358	8E-6359 114-0359	FC350 FC350 B-35		<b>35</b>
119 4,69*	128 5,04*	274 10,79*	8,40 18,52	<b>FC400 L</b>	7T-3402	FC400HL2	116-7408	8E-8409 116-7409	FC400	FC400 S	<b>40</b>
134 5,28*	140 5,51*	312 12,28*	13,10 28,88	<b>FC450 L</b>	9W-8452	FC450HL2	114-0468	8E-8469 107-3469	FC450 FC450-63	FC450 S	<b>46</b>
162 6,38*	164 6,46*	361 14,21*	21,30 46,96	<b>FC550 L</b>	9W-8552	FC550HL2	107-3378	8E-5559 107-8559	FC550	FC550 S	<b>55</b>
181 7,13*	198 7,80*	412 16,22*	31,00 68,34	<b>FC600 L</b>	6I-6602	FC600HL2	113-9608	6I-6609 113-9609	FC600	FC600 S	<b>60</b>

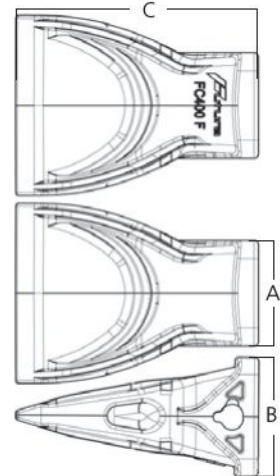
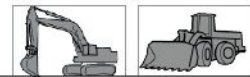
Caterpillar

FLARE Teeth Diente ANCHO

WEAR FACTOR | DESGASTE

PENETRATION | PENETRACIÓN

IMPACT | IMPACTO



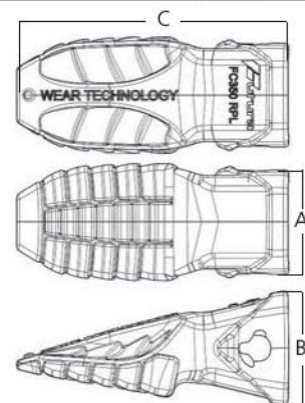
mm.				REF	OEM						mm
A	B	C									
62 2,44"	67 2,64"	131 5,16"	1,40 3,09	<b>FC200 F</b>	109-9200	FC200HL2	8E-6208	8E-6209	FC200	FC200 BL	<b>20</b>
80 3,15"	94 3,70"	200 7,87"	4,00 8,82	<b>FC250 F</b>	3G-8250	FC250HL2	132-4763	8E-6259 149-5733	FC250		<b>25</b>
93 3,66"	103 4,06"	241 9,49"	6,90 15,21	<b>FC300 F</b>	4T-1300 107-3300	FC300HL2	132-4766	8E-6259 149-5733	FC300	FC300-35	<b>30</b>
104 4,09"	121 4,76"	250 9,84"	9,40 20,72	<b>FC350 F</b>	8J-3350 107-3350	FC350HL2	114-0358	8E-6359 114-0359	FC350	FC350-B35	<b>35</b>
120 4,72"	135 5,31"	273 10,75"	12,80 28,22	<b>FC400 F</b>	7T-3400 107-3400	FC400HL2	116-7408	8E-8409 116-7409	FC400	FC400 S	<b>40</b>
140 5,51"	146 5,75"	303 11,93"	18,70 41,23	<b>FC450 F</b>	8J-1450 107-3450	FC450HL2	114-0468	8E-8469 107-3469	FC450	FC450-63	<b>46</b>
164 6,46"	168 6,61"	343 13,50"	28,80 63,49	<b>FC550 F</b>	7J-9550 107-3550	FC550HL2	107-3378	8E-5559 107-8559	FC550	FC550 S	<b>55</b>

ROCK PENETRATION LIGHT Teeth Diente PENETRACIÓN LIGERO

WEAR FACTOR | DESGASTE

PENETRATION | PENETRACIÓN

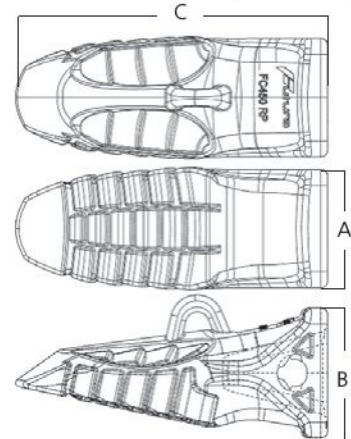
IMPACT | IMPACTO



mm.				REF	OEM						mm
A	B	C									
61 2,40"	70 2,76"	167 6,57"	1,90 4,19	<b>FC200 RPL</b>		FC200HL2	8E-6208	8E-6209	FC200	FC200 BL	<b>20</b>
80 3,15"	92 3,62"	209 8,23"	3,80 8,38	<b>FC250 RPL</b>	9N-4252	FC250HL2	132-4763	8E-6259 149-5733	FC250		<b>25</b>
93 3,66"	107 4,21"	244 9,61"	6,10 13,45	<b>FC300 RPL</b>	9N-4302	FC300HL2	132-4766	8E-6259 149-5733	FC300	FC300-35	<b>30</b>
110 4,33"	116 4,57"	275 10,83"	8,70 19,18	<b>FC350 RPL</b>	9N-4352	FC350HL2	114-0358	8E-6359 114-0359	FC350	FC350-B35	<b>35</b>
118 4,65"	131 5,16"	291 11,46"	11,53 25,42	<b>FC400 RPL</b>	8E-4402	FC400HL2	116-7408	8E-8409 116-7409	FC400	FC400 S	<b>40</b>
140 5,51"	150 5,91"	336 13,23"	17,60 38,80	<b>FC450 RPL</b>	9N-4452	FC450HL2	114-0468	8E-8469 107-3469	FC450	FC450-63	<b>46</b>
158 6,22"	162 6,38"	364 14,33"	21,20 46,74	<b>FC550 RPL</b>	9N-4552	FC550HL2	107-3378	8E-5559 107-8559	FC550	FC550 S	<b>55</b>
184 7,24"	198 7,80"	438 17,24"	38,60 85,10	<b>FC600 RPL</b>	7Y-0602	FC600HL2	113-9608	6I-6609 113-9609	FC600	FC600 S	<b>60</b>

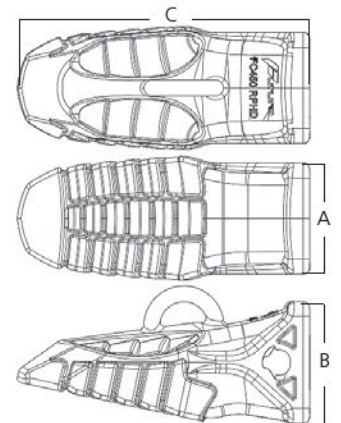


ROCK PENETRATION Teeth Diente PENETRACIÓN ROCA



mm.				REF	OEM						mm.
A	B	C									
90 3,54"	99 3,90"	236 9,29"	5,92 13,05	<b>FC250 RP</b>	4T-2253 RP   9N-4253	FC250HL2	132-4763	8E-6259	149-5733	FC250	<b>25</b>
95 3,74"	114 4,49"	272 10,71"	8,40 18,52	<b>FC300 RP</b>	4T-2303 RP   9N-4303	FC300HL2	132-4766	8E-6259	149-5733	FC300 FC300-35	<b>30</b>
111 4,37"	122 4,80"	296 11,65"	11,70 25,79	<b>FC350 RP</b>	4T-2353 RP   9N-4353	FC350HL2	114-0358	8E-6359	114-0359	FC350 FC350-B35	<b>35</b>
125 4,92"	136 5,35"	326 12,83"	16,10 35,49	<b>FC400 RP</b>	7T-3403 RP	FC400HL2	116-7408	8E-8409	116-7409	FC400	<b>40</b>
140 5,51"	153 6,02"	366 14,41"	23,71 52,27	<b>FC450 RP</b>	9W-1453 RP   9N-4453	FC450HL2	114-0468	8E-8469	107-3469	FC450 FC450-63	<b>46</b>
160 6,30"	160 6,30"	382 15,04"	29,00 63,93	<b>FC550 RP</b>	9W-1553 RP   6Y-2553	FC550HL2	107-3378	8E-5559	107-8559	FC550	<b>55</b>
205 8,07"	190 7,48"	454 17,87"	51,70 113,98	<b>FC600 RP</b>	6I-6603 RP   6I-6603	FC600HL2	113-9608	6I-6609	113-9609	FC600	<b>60</b>
216 8,50"	209 8,23"	499 19,65"	63,00 138,89	<b>FC700 RP</b>	4T-4703 RP	FC700HL2	113-4708	4T-4707	113-4709	FC700	<b>70</b>
248 9,76"	240 9,45"	574 22,60"	97,10 214,07	<b>FC800 RP</b>	6I-8803	FC800HL2	134-1808	134-1809		FC800	<b>80</b>

ROCK PENETRATION HD Teeth Diente PENETRACIÓN ROCA HD



mm.				REF	OEM						mm.
A	B	C									
124 4,88"	136 5,35"	327 12,87"	19,00 41,89	<b>FC400 RPHD</b>	135-9400	FC400HL2	116-7408	8E-8409	116-7409	FC400 S	<b>40</b>
140 5,51"	153 6,02"	368 14,49"	28,00 61,73	<b>FC450 RPHD</b>	138-6451	FC450HL2	114-0468	8E-8469	107-3469	FC450 S	<b>46</b>
160 6,30"	161 6,34"	386 15,20"	34,00 74,96	<b>FC550 RPHD</b>	138-6552	FC550HL2	107-3378	8E-5559	107-8559	FC550 S	<b>55</b>
200 7,87"	193 7,60"	456 17,95"	60,00 132,28	<b>FC600 RPHD</b>	135-9600	FC600HL2	113-9608	6I-6609	113-9609	FC600 S	<b>60</b>
209 8,23"	210 8,27"	502 19,76"	74,05 163,25	<b>FC700 RPHD</b>	135-9700	FC700HL2	113-4708	4T-4707	113-4709	FC700 S	<b>70</b>
240 9,45"	211 8,31"	579 22,80"	116,00 255,73	<b>FC800 RPHD</b>	135-9800	FC800HL2	134-1808	134-1809		FC800 S	<b>80</b>



Caterpillar

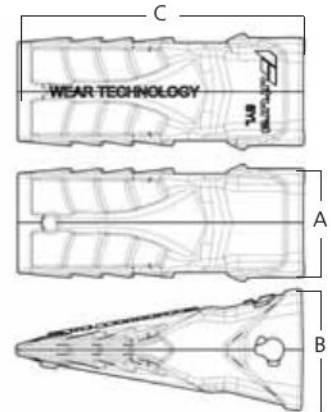
SYMMETRIC Teeth Diente SIMÉTRICO



WEAR FACTOR | DESGASTE

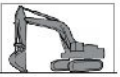
PENETRATION | PENETRACIÓN

IMPACT | IMPACTO



mm.			KG	REF	OEM	Pin	Pin	Washer	Tooth	Weight
A	B	C								
67 2,64"	66 2,60"	155 6,10"	1,30 2,87	<b>FC200 SYL</b>		FC200HL2	8E-6208	8E-6209	FC200 FC200 BL	<b>20</b>
81 3,19"	89 3,50"	210 8,27"	3,20 7,05	<b>FC250 SYL</b>	1U-3252 SYL	FC250HL2	132-4763	8E-6259 149-5733	FC250	<b>25</b>
93 3,66"	105 4,13"	224 8,82"	5,50 12,13	<b>FC300 SYL</b>	1U-3302 SYL	FC300HL2	132-4766	8E-6259 149-5733	FC300 FC300-35	<b>30</b>
107 4,21"	118 4,65"	268 10,55"	7,00 15,43	<b>FC350 SYL</b>	1U-3352 SYL	FC350HL2	114-0358	8E-6359 114-0359	FC350	<b>35</b>
120 4,72"	132 5,20"	307 12,09"	11,90 26,23	<b>FC400 SYL</b>	8E-4402 SYL	FC400HL2	116-7408	8E-8409 116-7409	FC400	<b>40</b>
134 5,28"	140 5,51"	324 12,76"	13,70 30,20	<b>FC450 SYL</b>	9W-8452 SYL	FC450HL2	114-0468	8E-8469 107-3469	FC450	<b>46</b>
162 6,38"	164 6,46"	368 14,49"	20,40 44,97	<b>FC550 SYL</b>	9W-8552 SYL	FC550HL2	107-3378	8E-5559 107-8559	FC550	<b>55</b>
192 7,56"	195 7,68"	423 16,65"	40,00 88,18	<b>FC600 SYL</b>		FC600HL2	113-9608	6I-6609 113-9609	FC600	<b>60</b>

## IMPACT Teeth Diente IMPACTO



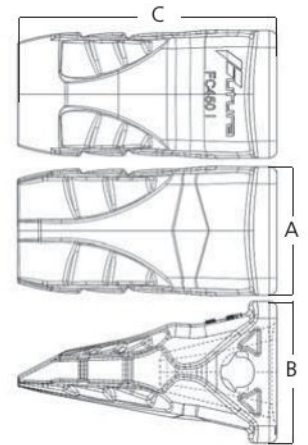
WEAR FACTOR | DESGASTE



PENETRATION | PENETRACIÓN



IMPACT | IMPACTO



mm.				REF	OEM					<table border="1"> <tr><td>0</td></tr> <tr><td>1</td></tr> <tr><td>2</td></tr> </table>	0	1	2
0													
1													
2													
A	B	C											
95 3,74*	110 4,33*	193 7,60*	5,20 11,46	<b>FC300 I</b>	9N-4302	FC300HL2	132-4766	8E-6259 149-5733	FC300 FC300-35	<b>30</b>			
104 4,09*	122 4,80*	213 8,39*	7,10 15,65	<b>FC350 I</b>	9N-4352	FC350HL2	114-0358	8E-6359 114-0359	FC350	<b>35</b>			
135 5,31*	150 5,91*	273 10,75*	14,14 31,17	<b>FC450 I</b>	9N-4452	FC450HL2	114-0468	8E-8469 107-3469	FC450	<b>46</b>			
158 6,22*	164 6,46*	296 11,65*	18,15 40,01	<b>FC550 I</b>	9N-4552	FC550HL2	107-3378	8E-5559 107-8559	FC550	<b>55</b>			

## PENETRATION Teeth Diente PENETRACIÓN



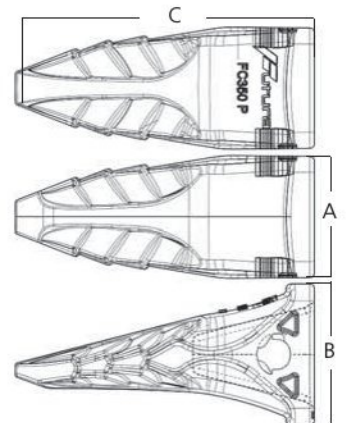
WEAR FACTOR | DESGASTE



PENETRATION | PENETRACIÓN



IMPACT | IMPACTO



mm.				REF	OEM					<table border="1"> <tr><td>0</td></tr> <tr><td>1</td></tr> <tr><td>2</td></tr> </table>	0	1	2
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2													
A	B	C											
61 2,40*	69 2,72*	154 6,06*	1,30 2,87	<b>FC200 P</b>		FC200HL2	8E-6208	8E-6209	FC200 FC200 BL	<b>20</b>			
81 3,19*	92 3,62*	205 8,07*	2,88 6,35	<b>FC250 P</b>	9J-4259	FC250HL2	132-4763	8E-6259 149-5733	FC250	<b>25</b>			
93 3,66*	109 4,29*	230 9,06*	4,20 9,26	<b>FC300 P</b>	9J-4309	FC300HL2	132-4766	8E-6259 149-5733	FC300 FC300-35	<b>30</b>			
104 4,09*	122 4,80*	256 10,08*	6,20 13,67	<b>FC350 P</b>	9J-4359	FC350HL2	114-0358	8E-6359 114-0359	FC350	<b>35</b>			
120 4,72*	137 5,39*	289 11,38*	9,30 20,50	<b>FC400 P</b>	6Y-7409	FC400HL2	116-7408	8E-8409 116-7409	FC400	<b>40</b>			
136 5,35*	149 5,87*	313 12,32*	13,00 28,66	<b>FC450 P</b>	9W-8459	FC450HL2	114-0468	8E-8469 107-3469	FC450	<b>46</b>			
159 6,26*	164 6,46*	345 13,58*	17,70 39,02	<b>FC550 P</b>	9W-8559	FC550HL2	107-3378	8E-5559 107-8559	FC550	<b>55</b>			
191 7,52*	186 7,32*	393 15,47*	26,30 57,98	<b>FC600 P</b>	7I-7609	FC600HL2	113-9608	6I-6609 113-9609	FC600	<b>60</b>			
208 8,19*	203 7,99*	428 16,85*	34,20 75,40	<b>FC700 P</b>	4T-4709	FC700HL2	113-4708	4T-4707 113-4709	FC700 S	<b>70</b>			
242 9,53*	241 9,49*	478 18,82*	54,50 120,15	<b>FC800 P</b>	9W-8559	FC800HL2	134-1808	134-1809	FC800 S	<b>80</b>			



Caterpillar

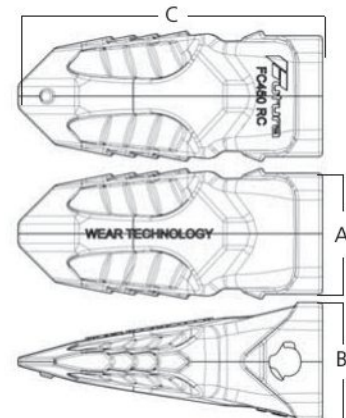
ROCK CHISEL Teeth Diente CINCEL ROCA



Wear factor | Factor desgaste

Penetration | Penetración

Impact | Impacto



mm.				REF	OEM	FC200HL2	8E-6208	8E-6209	FC200 FC200 BL	20
A	B	C	KG							
62 2,44*	66 2,60*	159 6,26*	1,40 3,09	<b>FC200 RC</b>						
81 3,19*	94 3,70*	220 8,66*	4,00 8,82	<b>FC250 RC</b>	9J-4259	FC250HL2	132-4763	8E-6259 149-5733	FC250	<b>25</b>
93 3,66*	100 3,94*	245 9,65*	6,00 13,23	<b>FC300 RC</b>	1U-3302 RC   125-8309	FC300HL2	132-4766	8E-6259 149-5733	FC300 FC300-35	<b>30</b>
106 4,17*	114 4,49*	285 11,22*	8,70 19,18	<b>FC350 RC</b>	1U-3352 RC   119-9359	FC350HL2	114-0358	8E-6359 114-0359	FC350	<b>35</b>
125 4,92*	130 5,12*	295 11,61*	11,30 24,91	<b>FC400 RC</b>	7T-3402 RC   124-7409	FC400HL2	116-7408	8E-8409 116-7409	FC400	<b>40</b>
134 5,28*	132 5,20*	338 13,31*	15,90 35,05	<b>FC450 RC</b>	1U-3452 RC   116-7459	FC450HL2	114-0468	8E-8469 107-3469	FC450	<b>46</b>
162 6,38*	161 6,34*	381 15,00*	26,00 57,32	<b>FC550 RC</b>	1U-3552 RC   113-0559	FC550HL2	107-3378	8E-5559 107-8559	FC550	<b>55</b>
192 7,56*	188 7,40*	440 17,32*	42,80 94,36	<b>FC600 RC</b>	6I-6602 RC   119-9609	FC600HL2	113-9608	6I-6609 113-9609	FC600	<b>60</b>
210 8,27*	209 8,23*	483 19,02*	53,00 116,84	<b>FC700 RC</b>	4T-4702 RC	FC700HL2	113-4708	4T-4707 113-4709	FC700 S	<b>70</b>
246 9,69*	244 9,61*	523 20,59*	82,50 181,88	<b>FC800 RC</b>		FC800HL2	134-1808	134-1809	FC800 S	<b>80</b>

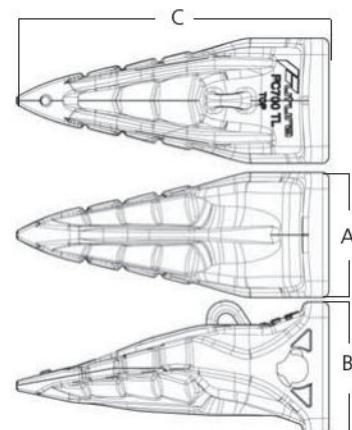
TIGER LONG Teeth Diente TIGER LARGO



Wear factor | Factor desgaste

Penetration | Penetración

Impact | Impacto



mm.				REF	OEM	FC200HL2	8E-6208	8E-6209	FC200 FC200 BL	20
A	B	C	KG							
61 2,40*	70 2,76*	165 6,50*	1,23 2,71	<b>FC200 TL</b>	1U-3202 TL					
81 3,19*	93 3,66*	220 8,66*	2,63 5,80	<b>FC250 TL</b>	1U-3252 TL   9W-8259	FC250HL2	132-4763	8E-6259 149-5733	FC250	<b>25</b>
92 3,62*	105 4,13*	248 9,76*	3,70 8,16	<b>FC300 TL</b>	1U-3302 TL   9W-8309	FC300HL2	132-4766	8E-6259 149-5733	FC300 FC300-35	<b>30</b>
105 4,13*	121 4,76*	285 11,22*	6,30 13,89	<b>FC350 TL</b>	1U-3352 TL   9W-8359	FC350HL2	114-0358	8E-6359 114-0359	FC350	<b>35</b>
123 4,84*	141 5,55*	333 13,11*	11,00 24,25	<b>FC400 TL</b>	7T-3402 TL   6Y-5409	FC400HL2	116-7408	8E-8409 116-7409	FC400	<b>40</b>
132 5,20*	151 5,94*	356 14,02*	12,90 28,44	<b>FC450 TL</b>	1U-3452 TL   7T-8459	FC450HL2	114-0468	8E-8469 107-3469	FC450	<b>46</b>
156 6,14*	164 6,46*	390 15,35*	17,50 38,58	<b>FC550 TL</b>	1U-3552 TL   9W-6559	FC550HL2	107-3378	8E-5559 107-8559	FC550	<b>55</b>
186 7,32*	195 7,68*	463 18,23*	30,30 66,80	<b>FC600 TL</b>	6I-6602 TL   107-8609	FC600HL2	113-9608	6I-6609 113-9609	FC600	<b>60</b>
206 8,11*	216 8,50*	511 20,12*	41,70 91,93	<b>FC700 TL</b>	4T-4702 TL	FC700HL2	113-4708	4T-4707 113-4709	FC700 S	<b>70</b>
246 9,69*	234 9,21*	602 23,70*	68,50 151,01	<b>FC800 TL</b>	TSJ800V	FC800HL2	134-1808	134-1809	FC800 S	<b>80</b>

Theoretical weights, subject to variations Pesos teóricos, sujetos a variaciones | Manufacturer's names, descriptions, pictures and part numbers are used for reference purposes only. Los nombres, descripciones, ilustraciones y referencias de otras marcas se utilizan a modo de referencia.



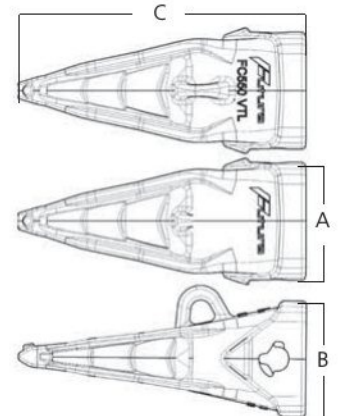
## VECTOR LONG Teeth Diente VECTOR LARGO



Wear factor | Factor desgaste

Penetration | Penetración

Impact | Impacto



mm.				REF	OEM					<table border="1"> <tr><td>0</td></tr> <tr><td>1</td></tr> <tr><td>2</td></tr> </table>	0	1	2
0													
1													
2													
A	B	C											
134 5,28"	132 5,20"	362 14,25"	13,25 29,21	<b>FC450 VTL</b>	1U-3452 WTL   7T-8459	FC450HL2	114-0468	8E-8469 107-3469	FC450	<b>46</b>			
162 6,38"	161 6,34"	395 15,55"	20,50 45,19	<b>FC550 VTL</b>	1U-3552 WTL   9W-8259	FC550HL2	107-3378	8E-5559 107-8559	FC550	<b>55</b>			
191 7,52"	188 7,40"	463 18,23"	34,00 74,96	<b>FC600 VTL</b>		107-8609	FC600HL2	113-9608 6I-6609 113-9609	FC600	<b>60</b>			
210 8,27"	154 6,06"	508 20,00"	45,50 100,31	<b>FC700 VTL</b>		4T-4702	FC700HL2	113-4708 4T-4707 113-4709	FC700 S	<b>70</b>			
246 9,69"	232 9,13"	609 23,98"	69,20 152,56	<b>FC800 VTL</b>		117-6809	FC800HL2	134-1808 134-1809	FC800 S	<b>80</b>			

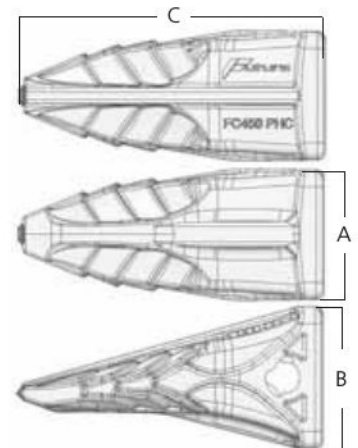
## PHC Teeth Diente PHC



Wear factor | Factor desgaste

Penetration | Penetración

Impact | Impacto



**Tooth PHC**  
Features a Chrome Core for extreme penetration

**Diente PHC**  
Interior y punta de cromo para penetración extrema

mm.				REF					<table border="1"> <tr><td>0</td></tr> <tr><td>1</td></tr> <tr><td>2</td></tr> </table>	0	1	2
0												
1												
2												
A	B	C										
135 5,31"	149 5,87"	318 12,52"	12,99 28,64	<b>FC450 PHC</b>	FC450HL2	114-0468	8E-8469 107-3469	FC450	<b>46</b>			

Caterpillar

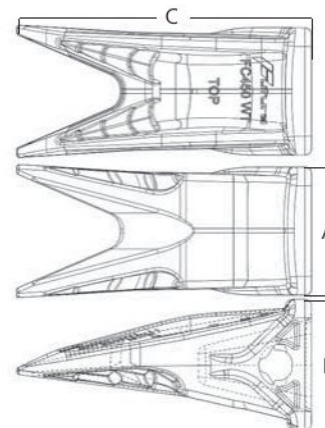
WT Teeth Diente WT



Wear factor | Factor desgaste

Penetration | Penetración

Impact | Impacto



mm.			KG	REF	OEM	[Pin]	[Pin]	[Washer]	[Bushing]	[Bracket]	[Bracket]
A	B	C									
114 4,49*	121 4,76*	271 10,67*	8,40 18,52	<b>FC350 WT</b>	1U-3352 WTL   135-9337	FC350HL2	114-0358	8E-6359	114-0359	FC350	<b>35</b>
135 5,31*	139 5,47*	311 12,24*	16,10 35,49	<b>FC450 WT</b>	1U-3452 WTL   138-6458	FC450HL2	114-0468	8E-8469	107-3469	FC450	<b>46</b>

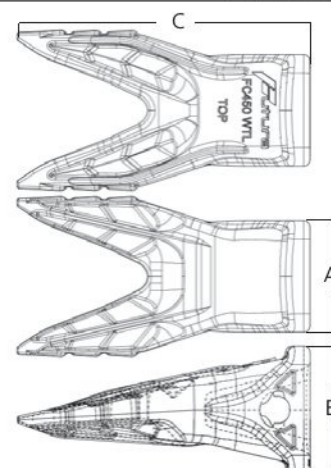
WTL Teeth Diente WTL



Wear factor | Factor desgaste

Penetration | Penetración

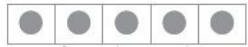
Impact | Impacto



mm.			KG	REF	OEM	[Pin]	[Pin]	[Washer]	[Bushing]	[Bracket]	[Bracket]
A	B	C									
61 2,40*	70 2,76*	165 6,50*	1.9 VALUE!	<b>FC200 WTL</b>	1U-3202 WTL	FC200HL2	8E-6208	8E-6209		FC200 FC200 BL	<b>20</b>
82 3,23*	94 3,70*	220 8,66*	4,00 8,82	<b>FC250 WTL</b>	1U-3252 WTL   135-8252	FC250HL2	132-4763	8E-6259	149-5733	FC250	<b>25</b>
92 3,62*	106 4,17*	249 9,80*	5,40 11,90	<b>FC300 WTL</b>	1U-3302 WTL   135-9308	FC300HL2	132-4766	8E-6259	149-5733	FC300 FC300-35	<b>30</b>
105 4,13*	120 4,72*	284 11,18*	8,40 18,52	<b>FC350 WTL</b>	1U-3352 WTL   135-9357	FC350HL2	114-0358	8E-6359	114-0359	FC350	<b>35</b>
124 4,88*	142 5,59*	335 13,19*	13,95 30,75	<b>FC400 WTL</b>	7T-3402 WTL	FC400HL2	116-7408	8E-8409	116-7409	FC400	<b>40</b>
132 5,20*	151 5,94*	355 13,98*	16,33 36,00	<b>FC450 WTL</b>	1U-3452 WTL   138-6458	FC450HL2	114-0468	8E-8469	107-3469	FC450	<b>46</b>
155 6,10*	164 6,46*	388 15,28*	22,65 49,93	<b>FC550 WTL</b>	1U-3552 WTL   138-6558	FC550HL2	107-3378	8E-5559	107-8559	FC550	<b>55</b>
185 7,28*	195 7,68*	462 18,19*	38,40 84,66	<b>FC600 WTL</b>	6I-6602 WTL   107-8609	FC600HL2	113-9608	6I-6609	113-9609	FC600	<b>60</b>
204 8,03*	216 8,50*	510 20,08*	53,58 118,12	<b>FC700 WTL</b>	4T-4702 WTL	FC700HL2	113-4708	4T-4707	113-4709	FC700 S	<b>70</b>



### VTP Teeth Diente WTP



Wear factor | Factor desgaste



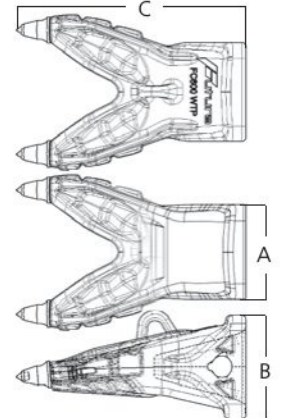
Penetration | Penetración



Impact | Impacto

Specially designed for extra abrasive materials

Especialmente diseñado para materiales altamente abrasivos



mm.				REF								C		
A	B	C												
156 6,14"	164 6,46"	374 14,72"	24,32 53,62	<b>FC550 WTP</b>	BRP21				FC550HL2	107-3378	8E-5559	107-8559	FC550	<b>55</b>
185 7,28"	195 7,68"	419 16,50"	36,11 79,61	<b>FC600 WTP</b>	BB40 HDS/50	EXT 600WTP	FC600HL2	113-9608	6I-6609	113-9609	FC600		FC600	<b>60</b>



BRP21



BB40 HDS/50



EXT 600WTP

### WTS Teeth Diente WTS



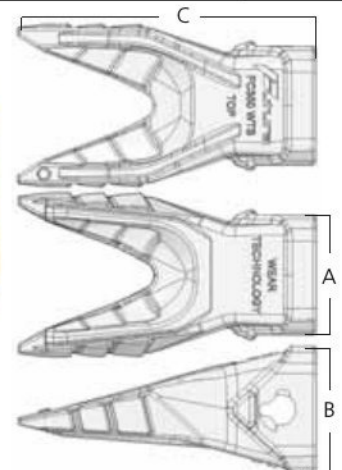
Wear factor | Factor desgaste



Penetration | Penetración



Impact | Impacto

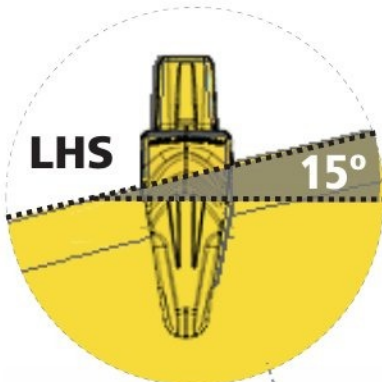
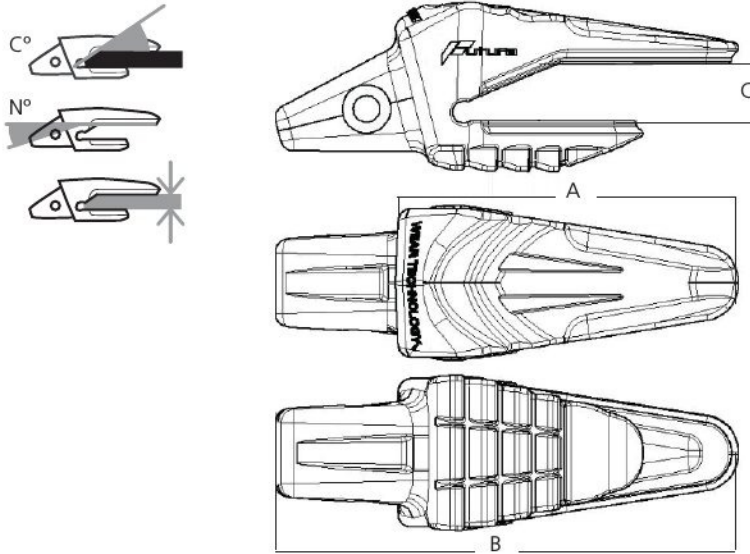


mm.				REF	OEM						C
A	B	C									
57 2,24"	63 2,48"	170 6,69"	1,33 2,93	<b>FC200 WTS</b>	1U-3202 WTL   135-8208	FC200HL2	8E-6208	8E-6209		FC200 FC200 BL	<b>20</b>
93 3,66"	100 3,94"	248 9,76"	5,30 11,68	<b>FC300 WTS</b>	1U-3302 WTL   135-9308	FC300HL2	132-4766	8E-6259	149-5733	FC300 FC300-35	<b>30</b>
106 4,17"	121 4,76"	279 10,98"	6,98 15,39	<b>FC350 WTS</b>	1U-3352 WTL   135-9337	FC350HL2	114-0358	8E-6359	114-0359	FC350	<b>35</b>
131 5,16"	150 5,91"	343 13,50"	12,50 27,56	<b>FC450 WTS</b>	1U-3452 WTL   138-6458	FC450HL2	114-0468	8E-8469	107-3469	FC450	<b>46</b>

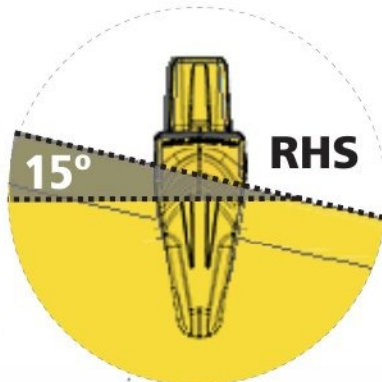
**Caterpillar**



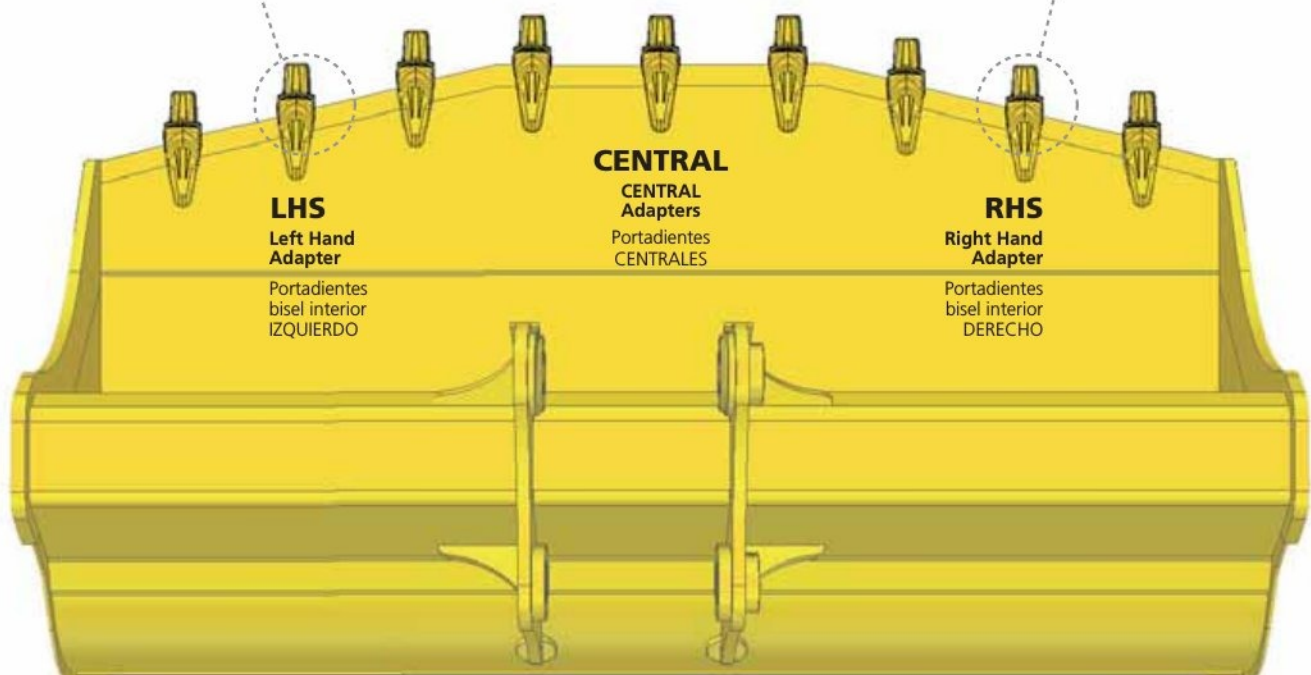
**LOADER Adapter Portadientes CARGADORA**



**LHS**  
 LHS FUTURA LOADER ADAPTERS FEATURE AN INTERNAL 15° BEVEL FOR SPADE BLADE PLACEMENT  
 LOS PORTADIENTES FUTURA LHS SE FABRICAN CON UN BISEL INTERIOR QUE PERMITE EL ENCAJE PERFECTO SOBRE CUCHILLAS DELTA



**RHS**  
 RHS FUTURA LOADER ADAPTERS FEATURE AN INTERNAL 15° BEVEL FOR SPADE BLADE PLACEMENT  
 LOS PORTADIENTES FUTURA RHS SE FABRICAN CON UN BISEL INTERIOR QUE PERMITE EL ENCAJE PERFECTO SOBRE CUCHILLAS DELTA



**LOADER BUCKET CAZO/CUCHARÓN CARGADORA**





**LOADER Adapter** Portadientes CARGADORA

Fig. 1



Fig. 1

FUTURA LOADER ADAPTERS SIZE 40 AND 45 DO NOT ADMIT OPTIONAL WEAR CAPS

LOS PORTADIENTES FUTURA DE LAS TALLAS 40 Y 45 NO ADMITEN EL MONTAJE DE PROTECTORES OPCIONALES

Fig. 2

FUTURA LOADER ADAPTERS (SIZE 55 AND ONWARDS) FEATURE TWO SLIDING GUIDES TO ALLOW FUTURA OPTIONAL WEAR CAPS ASSEMBLY

A PARTIR DE LA TALLA 55 EN ADELANTE LOS PORTADIENTES DE CARGADORA FUTURA PRESENTAN UNAS GUÍAS POR LAS QUE SE PUEDEN MONTAR PROTECTORES OPCIONALES FUTURA

Fig. 2

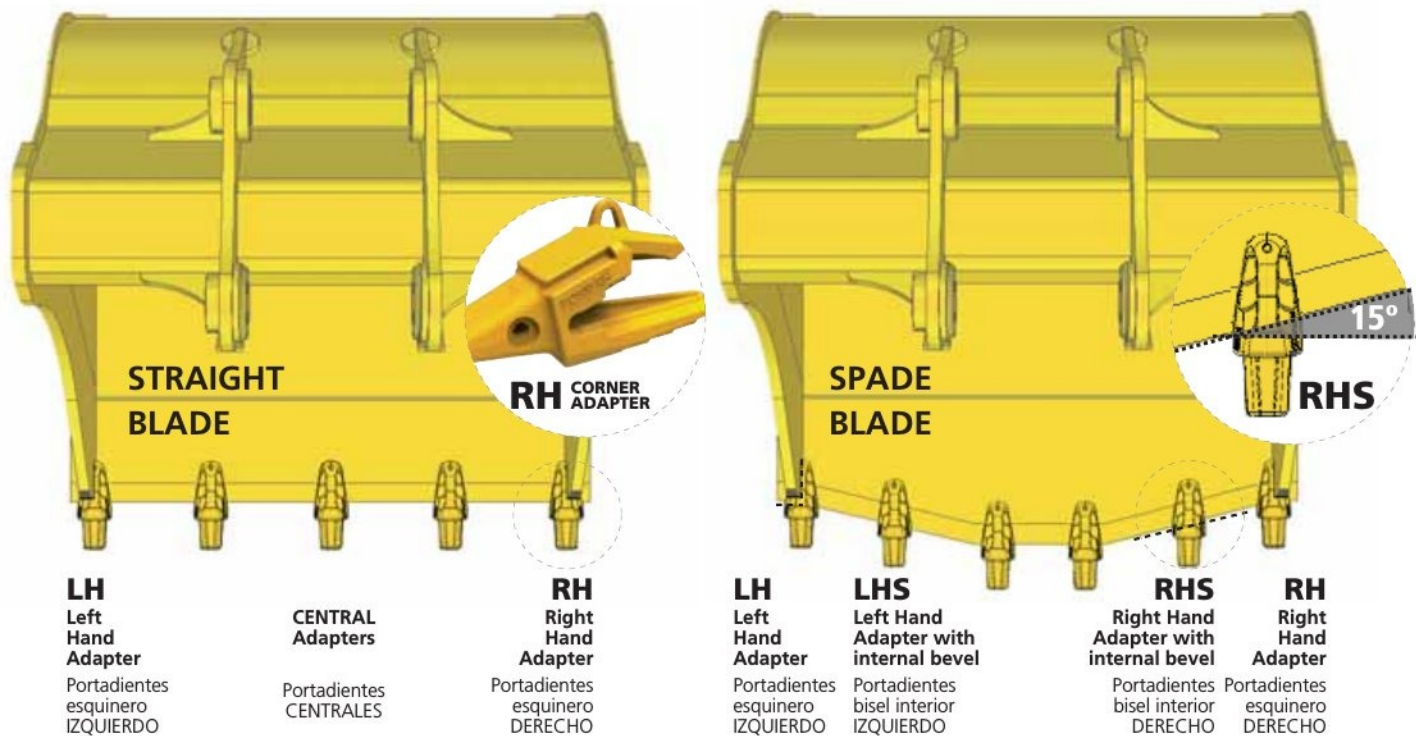


mm.																
A	B	C	C°	N°			REF	OEM		Fig						
							20,00	44,1	<b>FC400 S</b>	125-8404	●					
309	12,2"	419	16,5"	46,5	1,8"	22°	15°	<b>45</b>	1,8"	19,60	43,2	<b>FC400 S RHS</b>	●	1	<b>40</b>	
							19,60	43,2	<b>FC400 S LHS</b>		●					
							23,25	51,3	<b>FC450 S</b>	114-0464	●					
322	12,7"	435	17,1"	53,5	2,1"	22°	15°	<b>50</b>	2,0"	24,00	52,9	<b>FC450 S RHS</b>	114-0465	●	1	<b>45</b>
							24,00	52,9	<b>FC450 S LHS</b>	114-0466	●					
							43,50	95,9	<b>FC550 S</b>	107-3554	●					
309	12,2"	419	16,5"	66	2,6"	22°	15°	<b>60</b>	2,36"	44,30	97,7	<b>FC550 S RHS</b>	107-3555	●	2	F559 WC
							2,48"	<b>63</b>		44,30	97,7	<b>FC550 S LHS</b>	107-3556	●		
							77,00	169,8	<b>FC600 S</b>	119-8604	●					
429	16,9"	584	23,0"	73	2,9"	22°	15°	<b>70</b>	2,8"	78,20	172,4	<b>FC600 S RHS</b>	119-8605	●	2	F6061 WC
							78,20	172,4	<b>FC600 S LHS</b>	119-8606	●					
							77,80	171,5	<b>FC700 S</b>	133-0704	●					
421	16,6"	570	22,4"	78	3,1"	22°	17°	<b>70</b>	2,76"	80,40	177,2	<b>FC700 S RHS</b>	133-0705	●	2	F7069 WC
							2,95"	<b>75</b>		80,40	177,2	<b>FC700 S LHS</b>	133-0706	●		
529	20,8"	698	27,5"	106	4,2"	22°	15°	<b>100</b>	3,9"	123,70	272,7	<b>FC800 S</b>	61-8804	●	2	F8071 WC

Theoretical weights, subject to variations pesos teóricos, sujetos a variaciones | manufacturer's names, descriptions, pictures and part numbers are used for reference purposes only. Los nombres, descripciones, ilustraciones y referencias de otras marcas se utilizan a modo de referencia.

Caterpillar

EXCAVATOR Adapter Portadientes EXCAVADORA



mm.													Fig			
A	B	C	C°	N°	inch	kg	Pds	REF	OEM							
116	4,6"	185	7,3"	23	0,9"	22	10	<b>20</b>	0,8"	1,8	4,0	<b>FC200</b>	119-3205	●	1	<b>20</b>
144	5,7"	226	8,9"	27	1,1"	22	10	<b>25</b>	1"	3,1	6,8	<b>FC220</b>	6Y-3224	●	1	<b>22</b>
										4,6	10,1	<b>FC250-25</b>	6Y-3254	●		
106	4,2"	252	9,9"	27	1,1"	22	10	<b>25</b>	1"	4,4	9,7	<b>FC250-25 RH</b>		●		
												<b>FC250-25 LH</b>		●		
										4,4	9,6	<b>FC250</b>	6Y-3254 113-3253	●	1	<b>25</b>
163	6,4"	257	10,1"	34	1,3"	22	10	<b>25</b> <b>32</b>	1" 1,3"	4,2	9,3	<b>FC250 RH</b>		●		
												<b>FC250 LH</b>		●		
218	8,6"	328	12,9"	34	1,3"	22	10	<b>30</b> <b>32</b>	1,2" 1,3"	7,8	17,2	<b>FC300</b>	3G-6304	●		
										7,2	15,9	<b>FC300 RH</b>		●		
												<b>FC300 LH</b>		●	1	<b>30</b>
218	8,6"	328	12,9"	39	1,5"	22	10	<b>35</b>	1,4"	7,7	17,0	<b>FC300-35</b>	8E-9490	●		
										7,6	16,6	<b>FC300-35 RH</b>	8E-9495	●		
												<b>FC300-35 LH</b>	8E-9496	●		
238	9,4"	357	14,1"	43	1,7"	22	10	<b>40</b>	1,6"	10,6	23,4	<b>FC350</b>	6I-6354	●		
										9,9	21,8	<b>FC350 RH</b>		●		
												<b>FC350 LH</b>		●	1	<b>35</b>
238	9,4"	357	14,1"	43	1,7"	<b>35</b>	10	<b>40</b>	1,6"	10,4	22,9	<b>FC350-B35</b>	3G-8354	●		
										14,9	32,8	<b>FC400</b>	6I-6404	●		
218	8,6"	328	12,9"	47	1,9"	22	10	<b>45</b>	7/8"	13,8	30,4	<b>FC400 RH</b>		●	1	<b>40</b>
												<b>FC400 LH</b>		●		
										20,6	45,4	<b>FC450</b>	6I-6464	●		
296	11,7"	439	17,3"	53	2,1"	22	10	<b>50</b>	2,0"	21,2	46,7	<b>FC450 RH</b>	6I-6465	●		
												<b>FC450 LH</b>	6I-6466	●		
										22,5	49,6	<b>FC450 RHS</b>		●	1	<b>46</b>
												<b>FC450 LHS</b>		●		
326	12,8"	466	18,3"	66	2,6"	22	10	<b>63</b>	2,5"	33,6	74,1	<b>FC450-63</b>		●		
										31,2	68,8	<b>FC450-63 RH</b>		●		
												<b>FC450-63 LH</b>		●		



EXCAVATOR Adapter Portadientes EXCAVADORA



Fig. 1

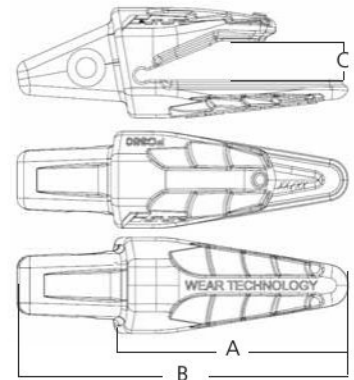
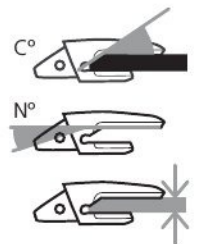


Fig. 2



FUTURA LOADER ADAPTERS (SIZE 55 AND ONWARDS) FEATURE A SLIDING GUIDE TO ALLOW FUTURA OPTIONAL WEAR CAPS ASSEMBLY

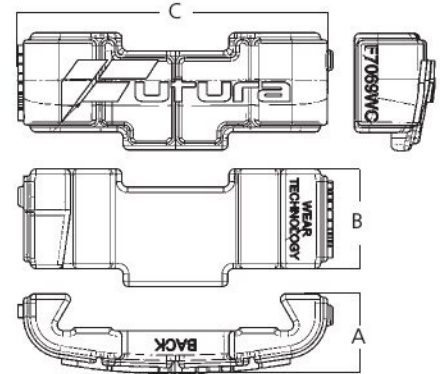
A PARTIR DE LA TALLA 55 EN ADELANTE LOS PORTADIENTES DE CARGADORA FUTURA PRESENTAN UNA GUÍA POR LA QUE SE PUEDEN MONTAR PROTECTORES OPCIONALES FUTURA



mm.													Fig	
A	B	C	C°	N°		inch		Pds	REF	OEM				
							34,6	76,3	<b>FC550</b>	6I-6554				
									<b>FC550 RH</b>	6I-6555				
347	13,7"	512	20,2"	63	2,5"	22	10	<b>60</b>	2,4"				F5559 WC	<b>55</b>
									<b>FC550 LH</b>	6I-6556				
									<b>FC550 RHS</b>	105-6269				
									<b>FC550 LHS</b>	105-6270				
							60,9	134,3	<b>FC600</b>	6I-6604				
									<b>FC600 RH</b>	6I-6605				
365	14,4"	568	22,4"	73	2,9"	22	10	<b>70</b>	2,8"					
									<b>75</b>	3"				
									<b>FC600 LH</b>	6I-6606				
									<b>FC600 RHS</b>					
									<b>FC600 LHS</b>				F6061 WC	<b>60</b>
							60,3	132,9	<b>FC600-80</b>	113-9604				
									<b>FC600-80 RH</b>	113-9605				
365	14,4"	568	22,4"	83	3,3"	22	10	<b>80</b>	3,1"					
									<b>FC600-80 LH</b>	113-9606				
							83,1	183,2	<b>FC700</b>	222-7700				
									<b>FC700 RH</b>					
375	14,8"	628	24,7"	93	3,7"	35	10	<b>90</b>	3,5"					
									<b>FC700 LH</b>					
									<b>FC700 RHS</b>					
									<b>FC700 LHS</b>				F7069 WC	<b>70</b>
							87,1	192,0	<b>FC700-95</b>					
									<b>FC700-95 RH</b>					
375	14,8"	628	24,7"	98	3,9"	35	10	<b>95</b>	3,7"					
									<b>FC700-95 LH</b>					
							122,0	269,0	<b>FC800</b>	6I-8804				
									<b>FC800 RH</b>				F8071 WC	<b>80</b>
462	18,2"	720	28,3"	104	4,1"	30	10	<b>100</b>	3,9"					
									<b>FC800 LH</b>					

Caterpillar

OPTIONAL Wear Cap Tapa Protectora OPCIONAL



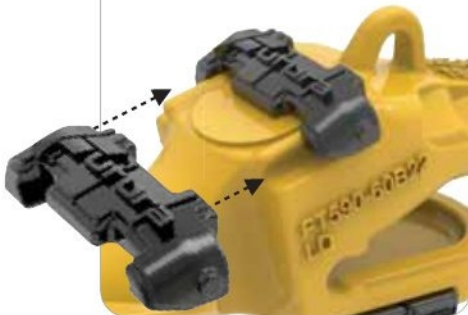
mm.		KG	Image	Tractor	Image	Excavator	Image	mm.
A	B							
42,7 1,68"	50,5 1,99"	1,70 3,75		2 UP 4 DOWN			55	
45,2 1,78"	62,5 2,46"	2,42 5,34		2 UP 3 DOWN		2 UP	60	
51,9 2,04"	71,5 2,81"	3,23 7,12		2 UP 3 DOWN		2 UP	70	
53,1 2,09"	93,5 3,68"	4,50 9,92		2 UP 3 DOWN		2 UP	80	

**QUICK, EASY INSTALLATION**

Just slide the wear caps through the adapter guides.

**STOCK SAVING**

Each wear cap could be mounted on various FUTURA adapters. Wear caps help prolong the wear life of each adapter.



**MONTAJE RÁPIDO Y FÁCIL**

Es suficiente con deslizar los protectores a lo largo de las guías del portadientes

**AHORRO EN STOCK**

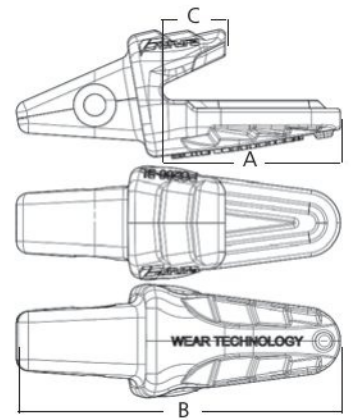
Estos protectores universales pueden utilizarse en varios adaptadores de la marca FUTURA.

Los protectores FUTURA alargan la vida útil de los portadientes.





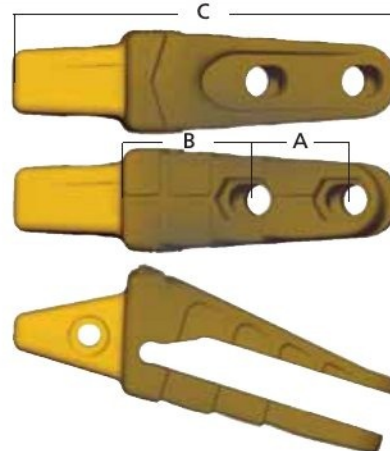
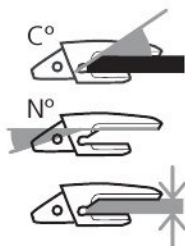
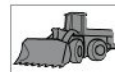
EXCAVATOR Adapter BL Type Portadientes EXCAVADORA



		mm.													
A	B	C	C°	N°			REF	OEM							
97	3,8°	175	6,9°	34	1,3°	25°	10°	<b>13</b> <b>25</b>	0,5° 1,0°	1,70	3,7	<b>FC200 BL</b>	8J-7525	<b>20</b>	

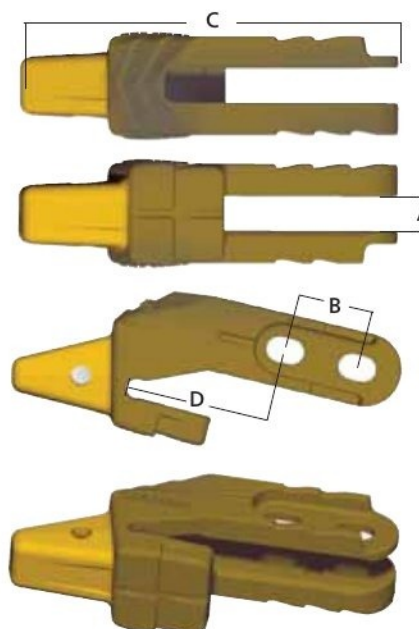
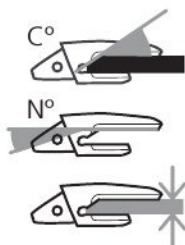
**Caterpillar**

**Special BOLT-ON Adapter** Portadientes ATORNILLABLE Especial



mm.											
A	B	C			REF	OEM					
100 3,94*	142 5,59*	379 14,92*	<b>20</b>	0,8* 5,20 11,46	<b>FC350 BO</b>	8719-V33	S-4639 B	NP.100	25-63 TN	<b>35</b>	



**Special BOLT-ON Corner Adapter** Cantoportadientes ATORNILLABLE

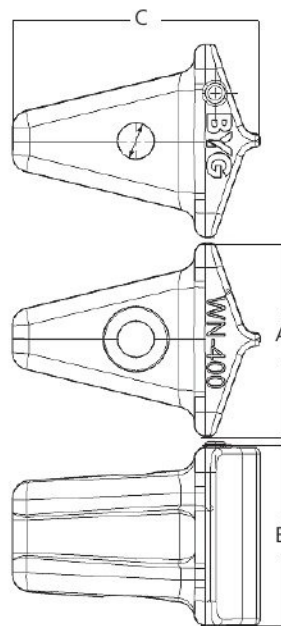


mm.												
A	B	C	D	C° N°		REF	OEM					
32 1,26*	80,5 3,17*	408 16,06*	154 6,06*	25 15	<b>20</b>	0,8* 5,20 11,46	<b>FC350 BOC</b>	8719-V33	S-4639 B	NP.100	25-63 TN	<b>35</b>



## Weld-On Nose Nariz Soldable

mm				ref	
A	B	C			
59 2,32"	57 2,24"	94,5 3,72"	1,00 2,20	<b>WN-200</b>	<b>20</b>
81 3,19"	65 2,56"	112 4,41"	1,80 3,97	<b>WN-220</b>	<b>22</b>
83 3,27"	70 2,76"	123,5 4,86"	2,40 5,29	<b>WN-250</b>	<b>25</b>
89 3,50"	89 3,50"	147,5 5,81"	4,30 9,48	<b>WN-300</b>	<b>30</b>
111 4,37"	102 4,02"	149 5,87"	5,00 11,02	<b>WN-350</b>	<b>35</b>
127 5,00"	117 4,61"	163 6,42"	7,00 15,43	<b>WN-400</b>	<b>40</b>
130 5,12"	127 5,00"	178 7,01"	9,20 20,28	<b>WN-450</b>	<b>45</b>
140 5,51"	146 5,75"	202 7,95"	13,50 29,76	<b>WN-550</b>	<b>55</b>
181 7,13"	194 7,64"	242 9,53"	26,00 57,32	<b>WN-600</b>	<b>60</b>
190 7,48"	207,5 8,17"	248 9,76"	31,20 68,78	<b>WN-700</b>	<b>70</b>
205 8,07"	235 9,25"	287 11,30"	44,30 97,66	<b>WN-800</b>	<b>80</b>



Weld On Noses are the easiest and quickest way to convert any proprietary adapter into the High Performance FUTURA Hammerless system.

Las Narices soldables resultan la forma más rápida y fácil de convertir cualquier portadientes patentado al sistema FUTURA Hammerless para disfrutar así de las altas prestaciones que ofrece.

Caterpillar

STANDARD Pin and Washer Pasadores y Arandelas STANDARD

Standard > re-usable

HD > non re-usable

Standard > re-utilizable



HD > no re-utilizable



Standard

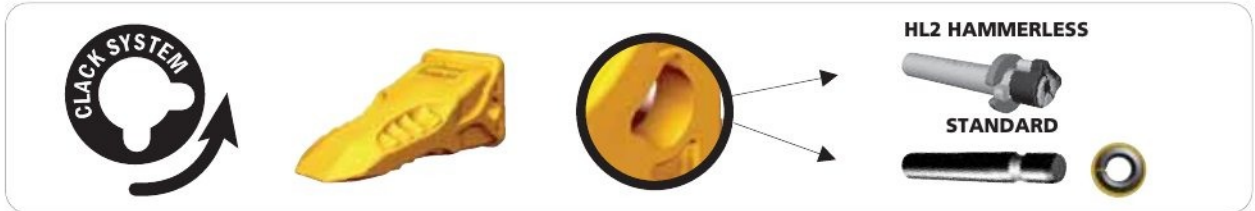


HD

mm.				Standard		HD		
L	Ø	C		OEM	OEM	OEM	OEM	
11 0,43"	61 2,40"	22 0,87"	<b>8E-6208</b>	1U-4208	<b>8E-6209</b>	4T-0001	<b>20</b> J200	
14 0,55"	69 2,72"	30 1,18"	<b>132-4762</b>	6Y-3228	<b>8E-6259</b>	3G-9609	<b>149-5733</b> J225	
14 0,55"	78 3,07"	30 1,18"	<i>8E-6258</i> <b>132-4763</b>	9J-2258	<b>8E-6259</b>	3G-9609	<b>149-5733</b> J250	
14 0,55"	92 3,62"	30 1,18"	<i>107-3308</i> <b>132-4766</b>	9J-2308	<b>8E-6259</b>	3G-9609	<b>149-5733</b> J300	
19 0,75"	108 4,25"	40 1,57"	<i>8E-6358</i> <b>114-0358</b>	9J-2358	<b>8E-6359</b>	3G-9548	<b>114-0359</b> J350	
22 0,87"	119 4,69"	42 1,65"	<i>7T-3408</i> <b>116-7408</b>		<b>8E-8409</b>		<b>116-7409</b> J400	
19 0,75"	135 5,31"	40 1,57"	<b>9W-8296</b>	4T-1458 6Y-2527	<b>8E-6359</b>	3G-9549	<b>45</b> J450	
24 0,94"	141 5,55"	44 1,73"	<i>8E-0468</i> <b>114-0468</b>		<b>8E-8469</b>		<b>107-3469</b> J460	
25 0,98"	162 6,38"	53 2,09"	<i>6Y-8558</i> <b>107-3378</b>	1U-1558	<b>8E-5559</b>	3G-9559	<b>107-8559</b> J550	
30 1,18"	195 7,68"	59 2,32"	<i>6I-6608</i> <b>113-9608</b>		<b>6I-6609</b>		<b>113-9609</b> J600	
32 1,26"	200 7,87"	70 2,76"	<i>4T-4708</i> <b>113-4708</b>		<b>4T-4707</b>		<b>113-4709</b> J700	
35 1,38"	240 9,45"	70 2,76"	<b>134-1808</b>	102-0101		101-2874	<b>134-1809</b> J800	



# HAMMERLESS PIN HL2 Pasador HAMMERLESS



mm.		REF	OEM									
L	Ø											
61 2,40"	11 0,43"	<b>FC200HL2</b>	8E-6208 1U-4208	8E-6209 4T-001	•	•	•	•	•	M8 9/32"	M8 5/16"	<b>20</b>
69 2,72"	14 0,55"	<b>FC220HL2</b>	132-4762 6Y-3228	8E-6259 3G-9609 149-5733	•	•	•	•	•	M10 3/8"	M8 5/16"	<b>22</b>
78 3,07"	14 0,55"	<b>FC250HL2</b>	8E-6258 132-4763 9J-2258	8E-6259 3G-9609 149-5733	•	•	•	•	•	M10 3/8"	M8 5/16"	<b>25</b>
94 3,70"	15 0,59"	<b>FC300HL2</b>	1U7-3308 132-4766 9J-2308	8E-6259 3G-9609 149-5733	•	•	•	•	•	M10 3/8"	M8 5/16"	<b>30</b>
104 4,09"	20 0,79"	<b>FC350HL2</b>	8E-6358 114-0358 9J-2358	8E-6359 3G-9548 114-0359	•	•	•	•	•	M13 1/2"	M10 3/8"	<b>35</b>
118 4,65"	22 0,87"	<b>FC400HL2</b>	7T-3408 116-7408	8E-8409 116-7409	•	•	•	•	•	M14 9/16"	M12 1/2"	<b>40</b>
136 5,35"	24 0,94"	<b>FC450HL2</b>	8E-0468 114-0468	8E-8469 107-3469	•	•	•	•	•	M15 5/8"	M12 1/2"	<b>45</b>
159 6,26"	25 0,98"	<b>FC550HL2</b>	6Y-8558 107-3378 1U-1558	8E-5559 3G-9559 107-8559	•	•	•	•	•	M15 5/8"	M12 1/2"	<b>55</b>
195 7,68"	30 1,18"	<b>FC600HL2</b>	6I-6608 113-9608	6I-6609 113-9609	•	•	•	•	•	M20 13/16"	M17 11/16"	<b>60</b>
204 8,03"	32 1,26"	<b>FC700HL2</b>	4T-4708 113-4708	4T-4707 113-4709	•	•	•	•	•	M22 7/8"	M17 11/16"	<b>70</b>
238 9,37"	35 1,38"	<b>FC800HL2</b>	134-1808 102-0101	101-2874 134-1809	•	•	•	•	•	M24 15/16"	M19 3/4"	<b>80</b>

# Caterpillar

## ASSEMBLY INSTRUCTIONS

ENGLISH

► The FUTURA hammerless system HL2 works **only with FUTURA teeth** ► For **Adapters FC2** omit step 1

1 Insert the washer into the adapter washer hole as shown in the picture 2 Mount the tooth on the adapter 3 Insert the pin into the hole 4 Use a SOCKET HEX or a HEX KEY (check the HEX TABLE below for recommended keys for each pin) to rotate the pin from any of its ends. A rubber insert under locking tab allows the locking tab (fig 5) to compress, rotate and lock. 6 Each pin comes with a heavy duty dirt plug to keep fines out of the pin's socket. Choose the right plug according to the tooth recess and place. Discard the other plug.

**Disassembly** Repeat steps in reverse order.

## INSTRUCCIONES DE MONTAJE

ESPAÑOL

► El sistema FUTURA Hammerless HL2 FUNCIONA SOLO CON DIENTES MARCA FUTURA ► Para el montaje con portadientes FC2 omite el paso 1

1 Inserte la arandela en el hueco del portadientes en la posición que se indica 2 Encaje el diente en el portadientes 3 Coloque el pasador en el orificio del diente como se indica 4 Utilice una llave ALLEN o un VASO HEXAGONAL para girar el pasador (compruebe el tamaño de la llave en la tabla más abajo) 5 El mecanismo de fijación del pasador permite que la pestaña de cierre se comprima, rote y bloquee el diente 6 Los pasadores HL2 van acompañados de un tapón de goma anti-suciedad para sus extremos. Elija el que mejor se ajuste y colóquelo en posición. Los tapones de goma ayudan a prevenir la entrada de suciedad. Deseche el tapón sobrante.

**Desmontaje** Repetir los pasos en orden inverso.

## INSTRUCTIONS DE MONTAGE

FRANÇAIS

► Le système de montage sans marteau FUTURA HL2 fonctionne **uniquement avec FUTURA dents** ► Pour **Adaptateurs FC2** passer l'étape 1

1 Insérer la rondelle dans le trou de l'adaptateur comme montré dans l'image 2 Montez la dent sur l'adaptateur 3 Insérez la goupille dans le trou 4 Aussi facile à installer qu'à retirer avec une clé Allen standard ou un socket HEX (vérifier la taille de la clé dans le tableau). Les goupilles sont retenues en place en toute sécurité par le mécanisme de loquet muni de l'insertion de caoutchouc sous la barrure qui permet de compresser, tourner et barrer en place (fig 5) 6 Chaque goupille vient avec un bouchon pour empêcher la saleté de pénétrer dans les extrémités.

**Démontage** Répétez les étapes dans l'ordre inverse.

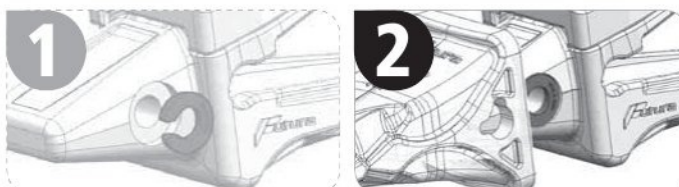
## INSTRUÇÕES DE MONTAGEM

PORTUGUÊS

► El sistema HL2 funciona **exclusivamente com pontas FUTURA** ► Para **Adaptadores FC2** omitir o passo 1

1 Inserir na anilha no orifício na posição indicada 2 Montar a ponta no adaptador 3 Colocar a cavilha no orifício da ponta 4 Use uma chave Allen (hex) ou um soquete HEX para ligar a cavilha (verificar o tamanho da chave no quadro) 5 O mecanismo de fixação permite que o encaixe da borracha se comprima, rode e bloqueie a peça com uma simples rotação de 90° 6 Cada trava vêm acompanhado de um tampão para evitar a entrada de sujidade nas extremidades

**Desmontagem** repita os passos na ordem inversa.



DRP FC2				PHL			
SOCKET HEX				SOCKET HEX			
M7	9/32"	HL2-200	M8 5/16"	M10	3/8"	FD33 PHL	M8 5/16"
M10	3/8"	HL2-220	M8 5/16"				
M10	3/8"	HL2-250	M8 5/16"				
M10	3/8"	HL2-300	M8 5/16"				
M13	1/2"	HL2-350	M10 3/8"				
M14	9/16"	HL2-400	M12 1/2"				
M15	5/8"	HL2-450	M12 1/2"				
M15	5/8"	HL2-550	M12 1/2"				
M20	13/16"	HL2-600	M17 11/16"				
M22	7/8"	HL2-700	M17 11/16"				
M24	15/16"	HL2-800	M19 3/4"				

### OEM Cross Refs (WHEN USING FUTURA TOOTH)

L	L	Ø	Ø				SIZE
mm	in	mm	in				
61	2,40"	11	0,43"	FC200HL2	8E-6208, 1U-4208	8E-6209, 4T-0001	20
69	2,72"	14	0,55"	FC220HL2	132-4762, 6Y-3228	8E-6259, 3G-9609, 149-5733	22
79	3,11"	14	0,55"	FC250HL2	8E-6258, 132-4763, 9J-2258	8E-6259, 3G-9609, 149-5733	25
94	3,70"	15	0,59"	FC300HL2	107-3308, 132-4766, 9J-2308	8E-6259, 3G-9609, 149-5733	30
104	4,09"	20	0,79"	FC350HL2	8E-6358, 114-0358, 9J-2358	8E-6359, 3G-9548, 114-0359	35
118	4,65"	22	0,87"	FC400HL2	7T-3408, 116-7408	8E-8409, 116-7409	40
136	5,35"	24	0,94"	FC450HL2	8E-0468, 114-0468	8E-8469, 107-3469	45
159	6,26"	25	0,98"	FC500HL2	6Y-8558, 107-3378, 1U-1558	8E-5559, 3G-9559, 107-8559	55
195	7,68"	30	1,18"	FC600HL2	6I-6608, 113-9608	6I-6609, 113-9609	60
204	8,03"	32	1,26"	FC700HL2	4T-4708, 113-4708	4T-4707, 113-4709	70
238	9,37"	35	1,38"	FC800HL2	134-1808, 102-0101	101-2874, 134-1809	80
105	4,13"	15	0,59"	FD33 PHL	132-4766	8E-6259, 149-5733	33



DIRECT  
REPLACEMENT  
PARTS FOR

PIEZAS DE  
REEMPLAZO  
DIRECTO PARA

**Bold part number,  
product available**

*Other part numbers  
please consult*

**Referencia en negrita  
producto disponible**

*Otras referencias  
consúltenos*

# Caterpillar

## Bolt-On Monoblock Teeth

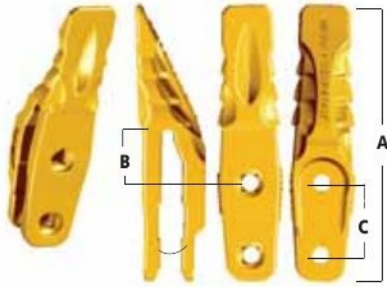
## Dientes Monoblock Atornillables



mm.						<b>Part#</b>							
A	B	C	B										
287 11,30"	54 2,13"	75 2,95"	25° 19 0,75"	3,60 7,94	<b>FC6Y-6335</b> 6Y-6335   9W-1879	4F-3656	4K-0367	-	-	-	416, 426, 428	<b>20</b>	

**Caterpillar**

**MONOBLOCK Tooth** Diente MONOBLOCK



mm.						Part#							
A	B	C	B										
287 11,30"	54 2,13"	75 2,95"	25°	19 0,75"	3,60 7,94	<b>FC6Y-6335</b> 6Y-6335   9W-1879	4F-3656	4K-0367	-	-	-	416, 426, 428	<b>20</b>



DIRECT  
REPLACEMENT  
PARTS FOR

PIEZAS DE  
REEMPLAZO  
DIRECTO PARA

**Bold part number,  
product available**

*Other part numbers  
please consult*

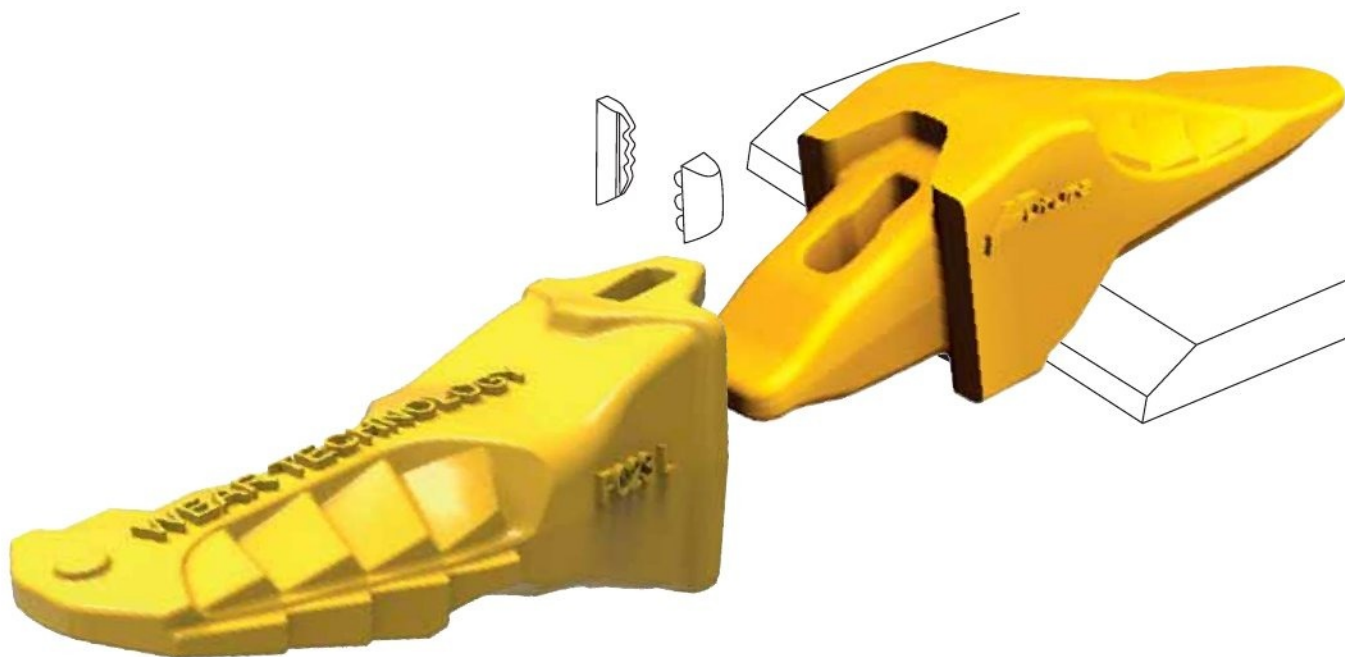
**Referencia en negrita  
producto disponible**

*Otras referencias  
consúltenos*

# Caterpillar

## Vertical Pin System

## Sistema Pasador Vertical

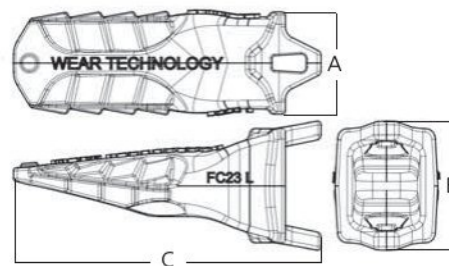


<b>FC23 L</b> 4K-6936	<b>FC23 P</b>	<b>FC23 F</b>	<b>FC23 R</b> P-23	910, 920, 922, 931, 933, 941
<b>FC34 L</b> 4K-0034	-	-	-	930, 944, 950, 951, 955, 966,

Caterpillar

Vertical Pin Teeth LONG Diente Pasador Vertical LARGO

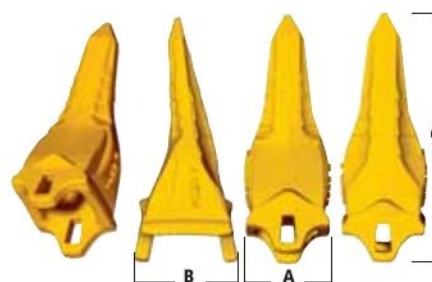
Wear factor | Factor desgaste  
Penetration | Penetración  
Impact | Impacto



mm.				REF	4K-0043	4K-0041	FC23	FC23 F	FC23 R	910, 920, 922, 931, 933, 941
A	B	C	KG							
60 2,36"	75 2,95"	180 7,09"	1,50 3,31	<b>FC23 L</b> 4K-6936						
72 2,83"	77 3,03"	189 7,44"	2,10 6,50	<b>FC34 L</b> 4K-0034			-	-	-	930, 944, 950, 951, 955, 966

Vertical Pin Teeth PENETRATION Diente Pasador Vertical PENETRACION

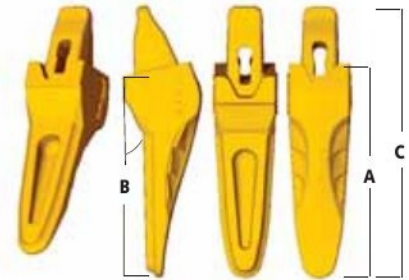
Wear factor | Factor desgaste  
Penetration | Penetración  
Impact | Impacto



mm.				REF	4K-0043	4K-0041	FC23	FC23 F	FC23 R	910, 920, 922, 931, 933, 941
A	B	C	KG							
60 2,36"	78 3,07"	180 7,09"	1,20 2,65	<b>FC23 P</b>						

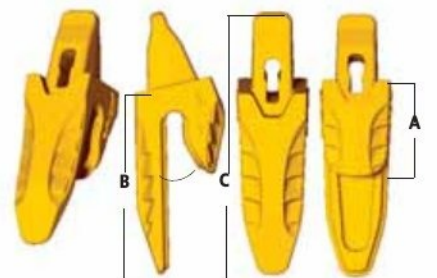


**Weld-on Flush Mount Adapter** Portadientes a Ras



mm.								REF						
A	B	B												
202 7,95"	273 10,75"	25°	13 0,51"	20 0,79"	3,55 7,83	<b>FC23 F</b>						910, 920, 922, 931, 933, 941		

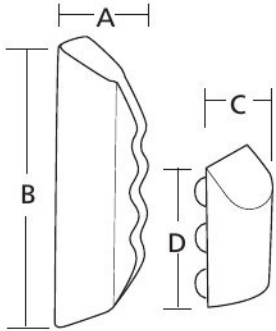
**Weld-on Adapter** Portadientes Soldable





mm.								REF						
A	B	C	B											
125 4,92"	158 6,22"	232 9,13"	25°	13 0,51"	20 0,79"	2,85 6,28	<b>FC23 R</b>					910, 920, 922, 931, 933, 941		

**Caterpillar**

**Lock and Rubber** Chaveta y Goma



mm.					
A	B	C	D		
18	68	20,5	44	<b>4K-0043</b>	<b>4K-0041</b>



Caterpillar

DIRECT  
REPLACEMENT  
PARTS FOR

PIEZAS DE  
REEMPLAZO  
DIRECTO PARA

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Other part numbers  
please consult

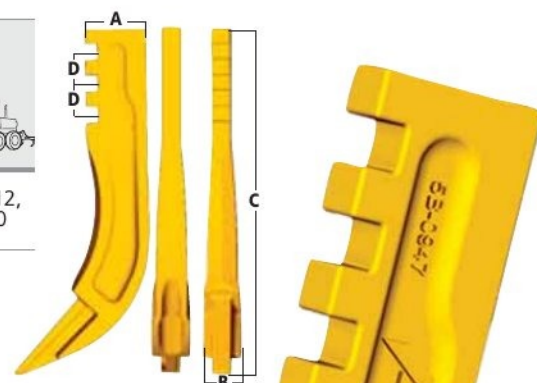
**Referencia en negrita  
producto disponible**  
Otras referencias  
consúltenos

# Caterpillar

## Motorgrader Components Componentes Niveladora

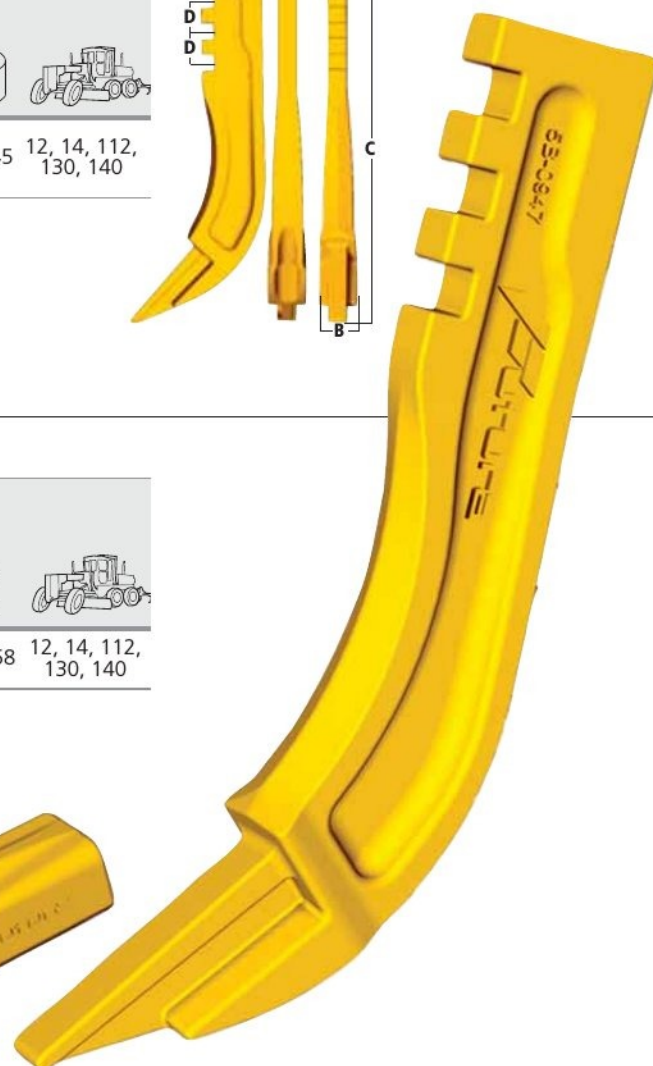
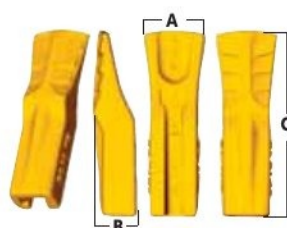
### SCARIFIER Shank Brazo ESCARIFICADOR

mm.					
A	B	C	D		OEM
76	47	419	38		9F-5124
2,99"	1,85"	16,50"	1,50"	11,46	FC10 TS 5K-1459 K-145





### SCARIFIER Tip Diente ESCARIFICADOR

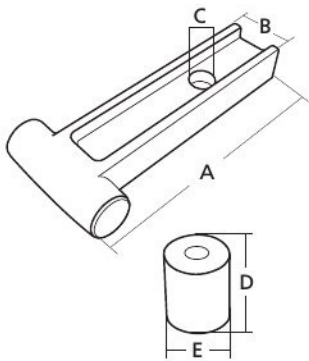
mm.				
A	B	C		OEM
60	41	194	1,50	
2,36"	1,61"	7,64"	3,31	6Y-5230 2D-5572



**Caterpillar**

**FASTENERS SUJECIÓN**

mm.						
A	B	C	D	E		
116	25	10	15	10,5	<b>5K-1459</b>	<b>5K-1458</b>
4,57"	0,98"	0,39"	0,59"	0,41"		





DIRECT  
REPLACEMENT  
PARTS FOR

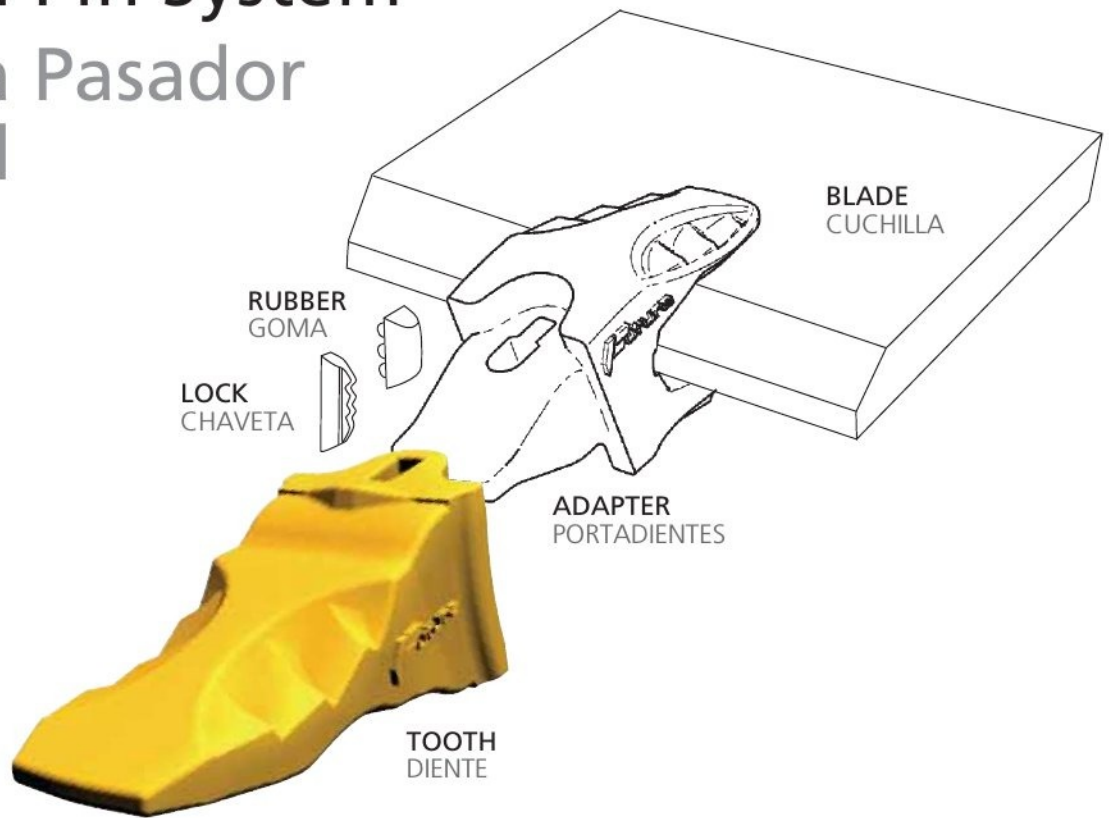
PIEZAS DE  
REEMPLAZO  
DIRECTO PARA

**Bold part number,  
product available**  
Other part numbers  
please consult

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producto disponible**  
Otras referencias  
consúltenos

# Esco

## Vertical Pin System Sistema Pasador Vertical



LONG	VIP	SYMMETRIC	VECTOR	TWO STRAP LOADER	SUPERCONICAL R	SUPERCONICAL S	
<b>FE15 L</b>	-	-	-	<b>FE15 R</b>	-	-	15
<b>FE18 L</b> 18-TL	<b>FE18 P</b> 18-VIP	-	<b>FE18 TVC</b> 18WTL	<b>FE18 R</b> 833-18	-	-	18
-	-	<b>FE25 S</b> 25-S	-	<b>FE25 R</b> 855-25	-	-	25
-	-	<b>FE30 S</b> 30-S	-	-	-	-	30
-	-	<b>FE35 S</b> 35-S	-	-	-	-	35
-	-	<b>FE40 S</b> 40-S	-	-	-	-	40
-	-	-	-	-	-	<b>FE66 S</b> 66-S	66
-	-	-	-	-	-	<b>FE76 S</b> 76-S	76
-	-	-	-	-	<b>FE86 R</b> 86-R	-	86



Esco

Vertical Pin Teeth LONG Diente Pasador Vertical LARGO



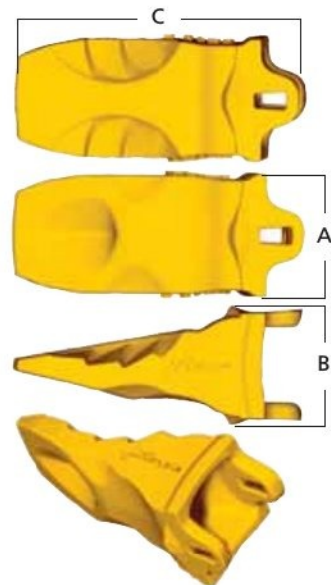
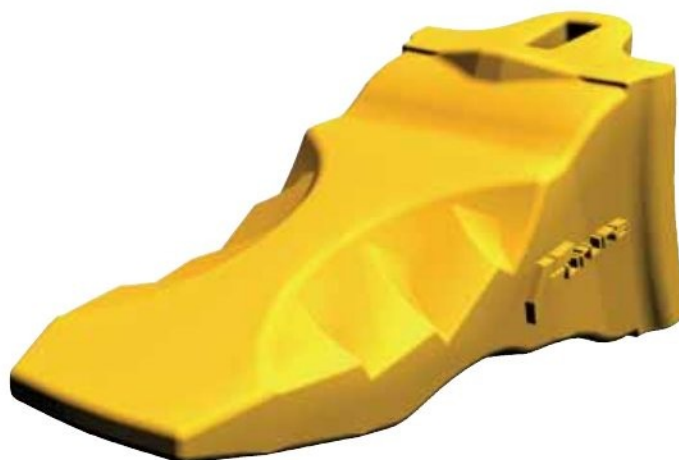
Wear factor | Factor desgaste



Penetration | Penetración



Impact | Impacto



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

Vertical Pin Tooth VIP Diente Pasador Vertical VIP



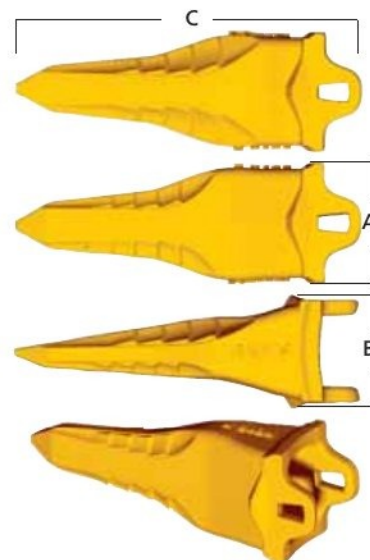
Wear factor | Factor desgaste



Penetration | Penetración



Impact | Impacto



mm.				REF				
A	B	C						
62 2,44"	53 2,09"	160 6,30"	1,15 2,54	<b>FE18 P</b> 18-VIP	18-PN 18-PNR	18-LK 18-LKR	FE18 R	<b>18</b>

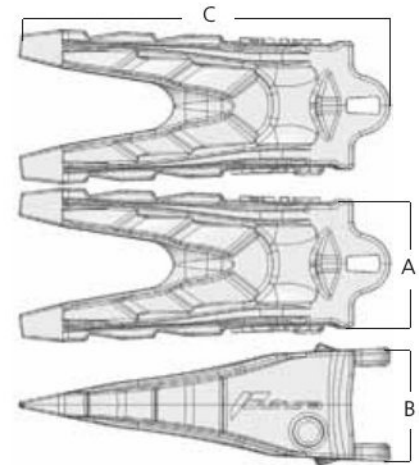


## Vertical Pin Tooth VECTOR Diente Pasador Vertical VECTOR

Wear factor | Factor desgaste

Penetration | Penetración

Impact | Impacto



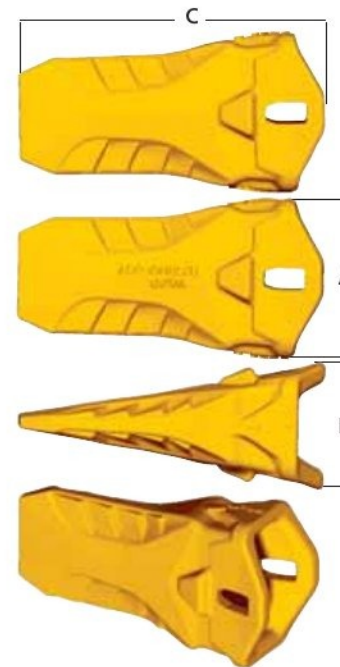
mm.			KG	REF				0 1 2 3
A	B	C						
61 2,40"	54 2,13"	175 6,89"	1,40 3,09	<b>FE18 TVC</b> 18WTL	18-PN 18-PNR	18-LK 18-LKR	FE18 R	<b>18</b>

## Vertical Pin Teeth SIMMETRIC Diente Pasador Vertical SIMÉTRICO

Wear factor | Factor desgaste

Penetration | Penetración

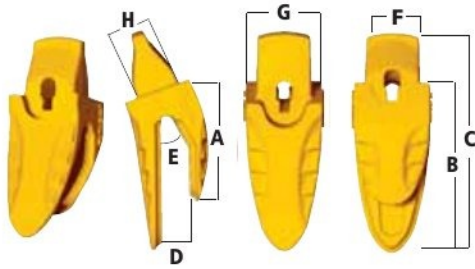
Impact | Impacto



mm.			KG	REF				0 1 2 3
A	B	C						
87 3,43"	79 3,11"	190 7,48"	2,33 5,14	<b>FE25 S</b> 25-S	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	FE25 R	<b>25</b>
96 3,78"	80 3,15"	188 7,40"	2,88 6,35	<b>FE30 S</b> 30-S	25-30-PN 25-30-PNR	25-30-LK 25-30-LKR	-	<b>30</b>
111 4,37"	90 3,54"	217 8,54"	4,14 9,13	<b>FE35 S</b> 35-S	35-PN 35-PNR	35-40-LK 35-40-LKR	-	<b>35</b>
128 5,04"	104 4,09"	249 9,80"	6,84 15,08	<b>FE40 S</b> 40-S	40-PN 40-PNR	35-40-LK 35-40-LKR	-	<b>40</b>

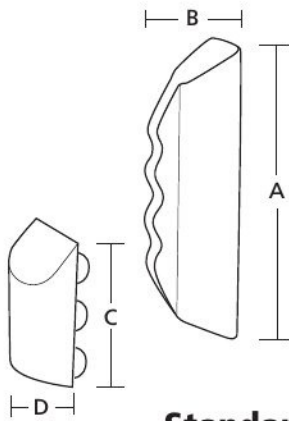
**Esco**

**Weld-On ADAPTER** Portadientes Soldable

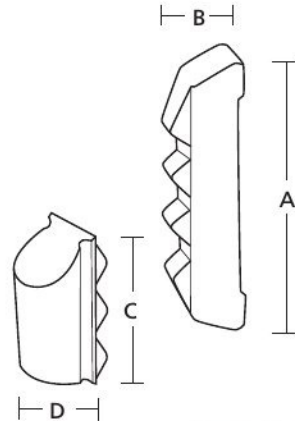


mm.										REF						15 18 25
A	B	C	D	E	F	G	H									
83 3,27"	101 3,98"	150 5,91"	18 0,71"	24°	36 1,42"	51 2,01"	58 2,28"	16 0,63"	1,03 2,27	<b>FE15 R</b>	18-PN	15-LK	FE15 L	-	-	<b>15</b>
98 3,86"	119 4,69"	176 6,93"	22 0,87"	28°	42 1,65"	61 2,40"	99 3,90"	20 0,79"	1,62 3,57	<b>FE18 R</b> 833-18	18-PN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

**Lock & Rubber** Chaveta y Goma



**Standard**



**Reinforced / Reforzada**

mm.							
A	B	C	D				
52 2,05"	13 0,51"	30 1,18"	14,3 0,56"	<b>18-PN</b>	<b>15-LK</b>	<b>15</b>	
52 2,05"	13 0,51"	35 1,38"	14,3 0,56"	<b>18-PN</b>	<b>18-LK</b>	<b>18</b>	
73 2,87"	20 0,79"	38 1,50"	20,5 0,81"	<b>25-30-PN</b>	<b>25-30-LK</b>	<b>25-30</b>	
83 3,27"	22,5 0,89"	48 1,89"	22,2 0,87"	<b>35-PN</b>	<b>35-40-LK</b>	<b>35</b>	
92 3,62"	30 1,18"	48 1,89"	22,2 0,87"	<b>40-PN</b>	<b>35-40-LK</b>	<b>40</b>	

mm.							
A	B	C	D				
52 2,05"	13 0,51"	35 1,38"	14,3 0,56"	<b>18-PNR</b>	<b>18-LKR</b>	<b>18</b>	
73 2,87"	20 0,79"	38 1,50"	20,5 0,81"	<b>25-30-PNR</b>	<b>25-30-LKR</b>	<b>25-30</b>	
83 3,27"	22,5 0,89"	48 1,89"	22,2 0,87"	<b>35-PNR</b>	<b>35-40-LKR</b>	<b>35</b>	
92 3,62"	30 1,18"	48 1,89"	22,2 0,87"	<b>40-PNR</b>	<b>35-40-LKR</b>	<b>40</b>	





## Superconical Tooth R Diente Supercónico Tipo R



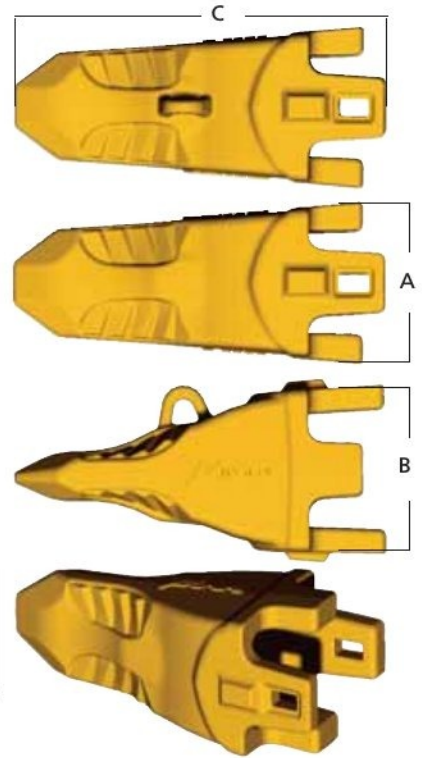
Wear factor | Factor desgaste



Penetration | Penetración



Impact | Impacto



mm.				REF				86
A	B	C						
233	242	534	60,40	<b>FE86 R</b>	86-LK	86-PN	3863-86	
9,17"	9,53"	21,02"	133,16	86-R				
				86-FP				
				86-LP				

## Superconical Tooth S Diente Supercónico Tipo S



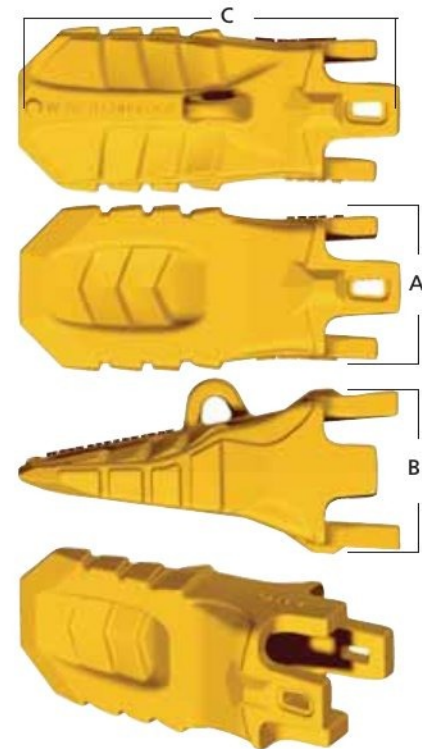
Wear factor | Factor desgaste



Penetration | Penetración



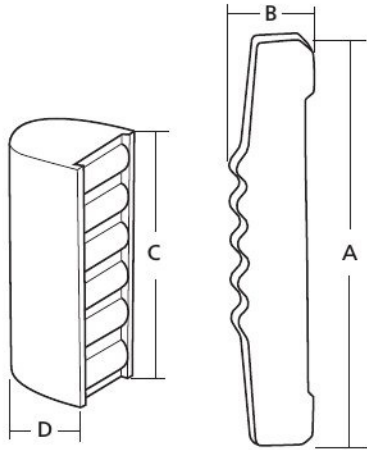
Impact | Impacto






mm.				REF				66
A	B	C						
158	175	420	28,15	<b>FE66 S</b>	66-LK	66-PN	3858-66	
6,22"	6,89"	16,54"	62,06	66-R				
				66-FP				
				66-LP				
205	188	451	35,80	<b>FE76 S</b>			2878-76	<b>76</b>
8,07"	7,40"	17,76"	78,92	76-R				
				76-FP				
				76-LP				

**Esco**

**Superconical Lock & Rubber** Chaveta y Goma Supercónico



**Superconical**

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

DIRECT  
REPLACEMENT  
PARTS FOR

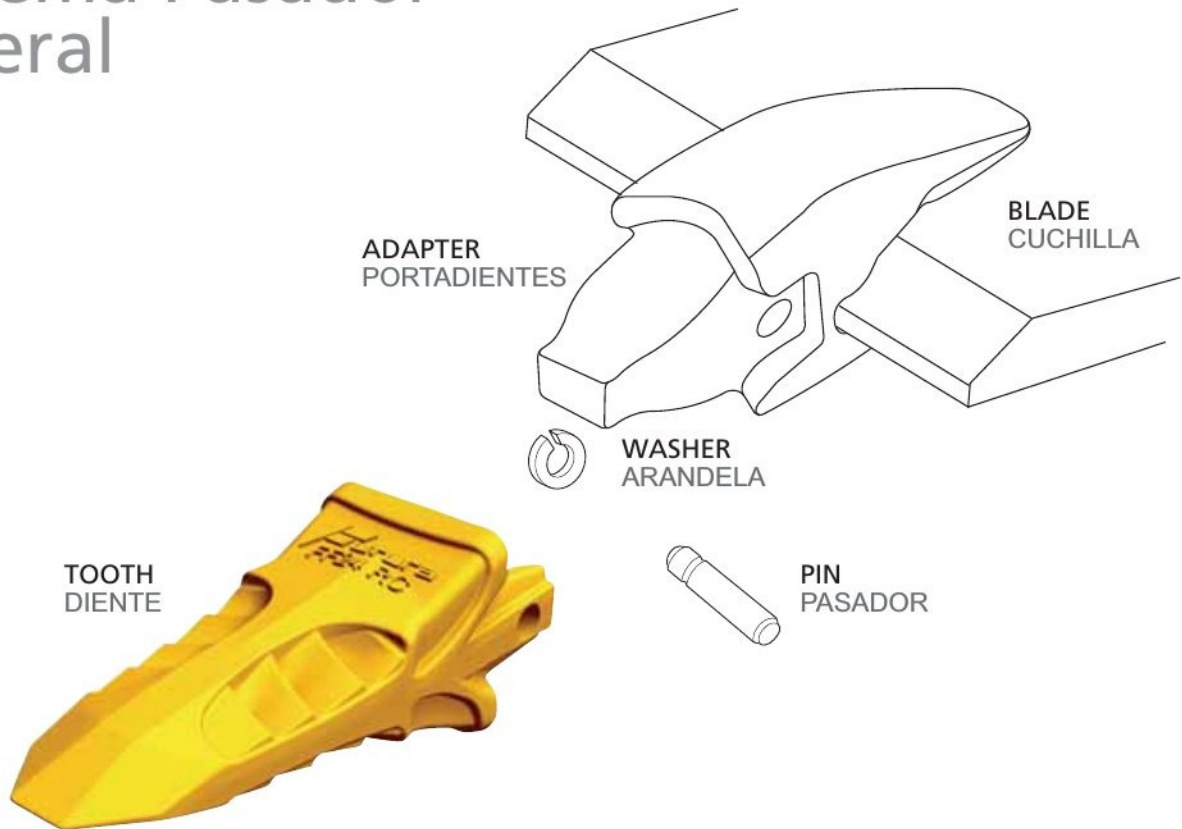
PIEZAS DE  
REEMPLAZO  
DIRECTO PARA

**Bold part number,  
product available**  
*Other part numbers  
please consult*

**Referencia en negrita  
producto disponible**  
*Otras referencias  
consúltenos*

# Fiat Hitachi

## Side Pin System Sistema Pasador Lateral



STANDARD	ROCK CHISEL	
		
<b>FF22 S</b> 71407828	<b>FF22 RC</b> 71407828 RE	<b>22</b>
<b>FF24 S</b> 71417992	<b>FF24 RC</b> 71407992 RE	<b>24</b>
<b>FF26 S</b> 71421565	<b>FF26 RC</b> 71421565 RE	<b>26</b>
<b>FF28 S</b> 71432195	<b>FF28 RC</b> 71432195 RE	<b>28</b>
<b>FF32 S</b>	-	<b>32</b>



## Fiat-Hitachi

## CROSS References between Brands EQUIVALENCIAS entre marcas

## Teeth Dientes

FUTURA®	BYG®	FIAT®	FIXMET®	FEURST®	ESCO®	
<b>FF22 S</b>	71407828	71467241 / 71407828	MF22 S	222LTR	022SL	<b>22</b>
<b>FF24 S</b>	71417992	71465120 / 71419992	MF24 S	24LTR	024SL	<b>24</b>
<b>FF26 S</b>	<b>71421565</b>	71464186 / 71421565	MF26 S	26LTR	026SL	<b>26</b>
<b>FF28 S</b>	71432195	71468101 / 17432195	MF28 S	28LTR	028SL	<b>28</b>
<b>FF32 S</b>	-	-	MF32 S	32LTR	-	<b>32</b>

FUTURA®	BYG®	FIAT®	FIXMET®	FEURST®	ESCO®	
<b>FF22 RC</b>	<b>71407828 RE</b>	71467241 / 71407828	MF22 E	222 PR	22	<b>22</b>
<b>FF24 RC</b>	<b>71417992 RE</b>	71465120 / 71419992	MF24 E	24 PR	24	<b>24</b>
<b>FF26 RC</b>	<b>71421565 RE</b>	71464186 / 71421565	MF26 E	26 PR	26	<b>26</b>
<b>FF28 RC</b>	71432195 RE	71468101 / 17432195	MF28 E	28 PR	28	<b>28</b>
<b>FF32 RC</b>	-	-	MF32 E	32 PR	-	<b>32</b>

## Adapters Portadientes

FUTURA®	BYG®	FIAT®	FIXMET®	FEURST®	ESCO®	
-	-	71407829	1MF22FC / 1MF22OA 1MF22UC / 1MF22WC 1MF22WL / 1MF22WR	1530-222 1530-2220° 1230-222 1030-222	-	<b>22</b>
-	-	71417993	1MF24FC / 1MF24OA 1MF24UC / 1MF24WC 1MF24WL / 1MF24WR	1535-24 1535-240° 1035-24	-	<b>24</b>
-	-	71421566	1MF26FC / 1MF26OA 1MF26UC / 1MF26WC 1MF26WL / 1MF26WR	1540-26 1540-260° 1040-26	-	<b>26</b>
-	-	71432196	1MF28FC / 1MF28OA 1MF28WC / 1MF28WL 1MF28WR	1545-28 1550-28 1045-28	-	<b>28</b>
-	-	-	1MF32WC / 1MF32WL 1MF32WR	1560-32	-	<b>32</b>

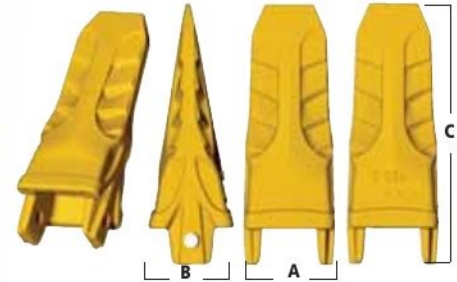
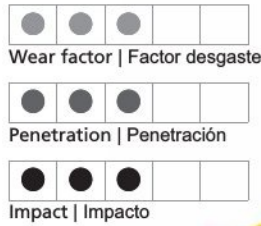
## Pins Pasadores

BYG®	FIAT®	FIXMET®	FEURST®	ESCO®	
<b>2MF-22P</b>	71467242 / 71407832	2MF22P	22CL	022PN	<b>22</b>
<b>2MF-24P</b>	71465124 / 71417996	2MF24P	24CL	024PN	<b>24</b>
<b>2MF-26P</b>	71464190 / 71421569	2MF26P	26CL	026PN	<b>26</b>
<b>2MF-28P</b>	71468105 / 71432199	2MF28P	28CL	028PN	<b>28</b>
<b>2MF-32P</b>	- / -	2MF32P	32CL	032PN	<b>32</b>

## Washers Arandelas

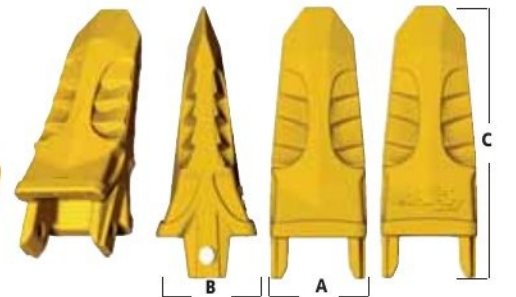
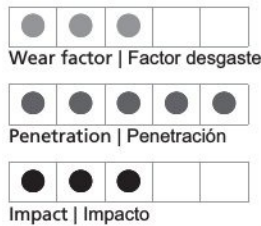
BYG®	FIAT®	FIXMET®	FEURST®	ESCO®	
<b>2MF-21 / 22R</b>	71467243 / 71407833	2MF21 / 22R	22RD	022LK	<b>22</b>
<b>2MF-24R</b>	71465125 / 71417997	2MF24R	24RD	024LK	<b>24</b>
<b>2MF-26 / 28R</b>	71464191 / 71421570	2MF26 / 28R	26RD	026-28LK	<b>26</b>
<b>2MF-26 / 28R</b>	71464191 / 71432200	2MF26 / 28R	28RD	026-28LK	<b>28</b>
<b>2MF-32R</b>	- / -	2MF32R	32RD	032LK	<b>32</b>

## STANDARD Teeth Diente STANDARD



mm.				REF	Pin	Washer	Tooth	Break Out Force Kn	Tn	Break Out Force Kn	Tn	Scale
A	B	C	KG									
80 3,15"	90 3,54"	218 8,58"	3,50 7,72	<b>FF22 S</b> 71407828	2MF-22P	2MF-21/22R	*	113 - 225	9 - 23	70 - 140	8 - 15	<b>22</b>
102 4,02"	106 4,17"	282 11,10"	6,86 15,12	<b>FF24 S</b> 71417992	2MF-24P	2MF-24R	*	225 - 314	23 - 32	140 - 245	15 - 25	<b>24</b>
120 4,72"	117 4,61"	330 12,99"	10,65 23,48	<b>FF26 S</b> 71421565	2MF-26P	2MF-26/28R	*	314 - 490	32 - 50	245 - 340	25 - 35	<b>26</b>
138 5,43"	130 5,12"	401 15,79"	16,00 35,27	<b>FF28 S</b> 71432195	2MF-28P	2MF-26/28R	*	490 - 735	50 - 75	340 - 490	35 - 50	<b>28</b>
163 6,42"	155 6,10"	422 16,61"	24,19 53,33	<b>FF32 S</b> -	2MF-32P	2MF-32R	*	735 - 930	75 - 95	490 - 635	50 - 65	<b>32</b>

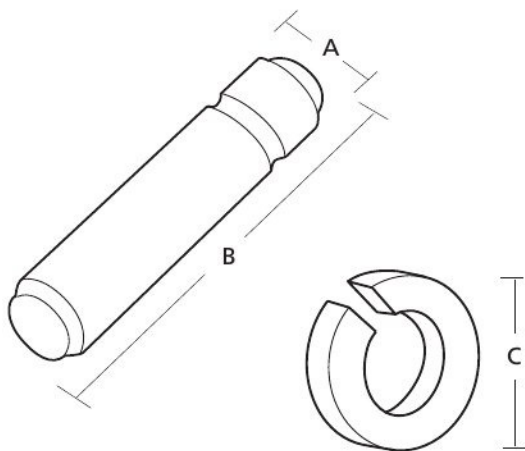
## ROCK CHISEL Teeth Diente Cincel Roca






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

**Fiat-Hitachi**

**PIN and WASHER Pasador y Arandela**



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





DIRECT  
REPLACEMENT  
PARTS FOR

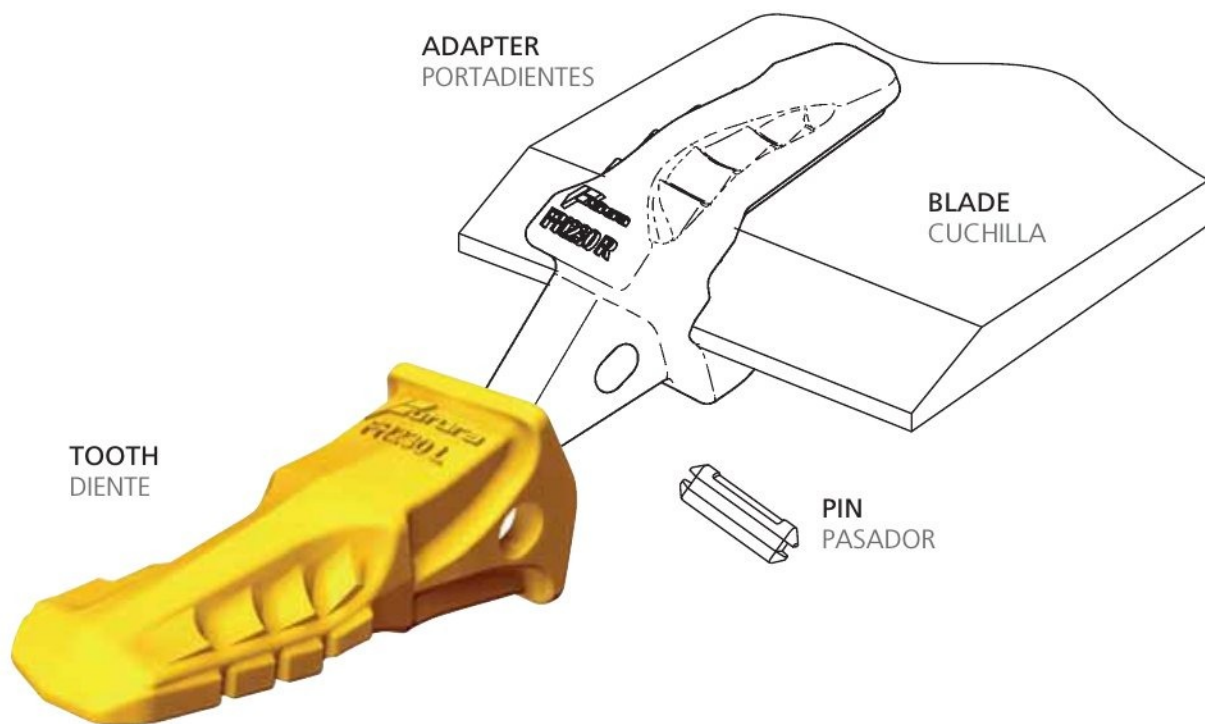
PIEZAS DE  
REEMPLAZO  
DIRECTO PARA

# H&L

## Side Pin System Sistema Pasador Lateral

**Bold part number,  
available product**  
*Other part numbers  
please consult*

**Referencia en negrita  
producto disponible**  
*Otras referencias  
consúltenos*



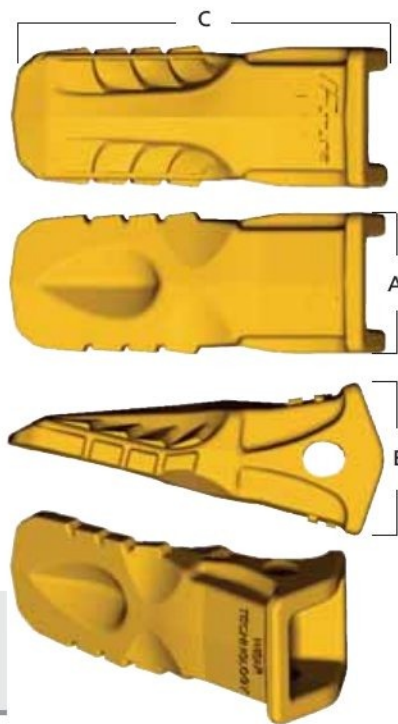
L	SYL	TL	WTL	WTS	Adapter	Adapter
<b>FH230 L</b> 23HXL 230-S	<b>FH230 SYL</b>	<b>FH230 TL</b> 23-TL	<b>FH230 WTL</b> 23-WTL	<b>FH230 WTS</b>	<b>FH230 R</b> 834-23	<b>FH230</b> 2740-23



**H&L**

**Side Pin Teeth L Diente Pasador Lateral L**

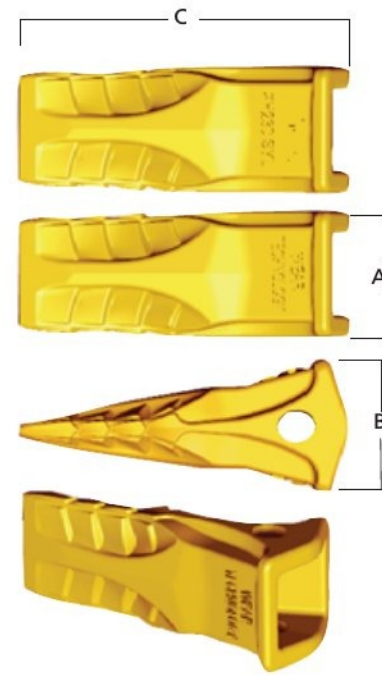
Wear factor | Factor desgaste  
Penetration | Penetración  
Impact | Impacto



mm.				REF	23-PN	FH230 834-23	FH230 R 2740-23	23
A	B	C	KG					
59 2,32"	62 2,44"	152 5,98"	1,10 2,43	<b>FH230 L</b> 23-HXL				

**Side Pin Teeth SYL Diente Pasador Lateral Simétrico**

Wear factor | Factor desgaste  
Penetration | Penetración  
Impact | Impacto



mm.				REF	23-PN	- <th rowspan="2">- <th rowspan="2">23</th> </th>	- <th rowspan="2">23</th>	23
A	B	C	KG					
59 2,32"	63 2,48"	156 6,14"	1,20 2,65	<b>FH230 SYL</b>		2740-23	834-23	

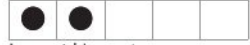
## Side Pin Teeth TL Diente Pasador Lateral TL



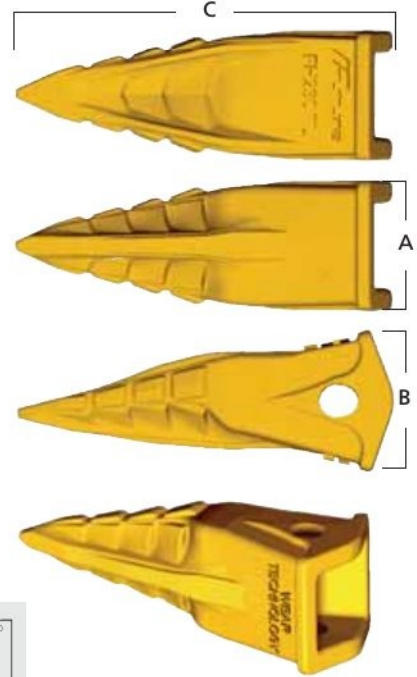
Wear factor | Factor desgaste



Penetration | Penetración



Impact | Impacto



mm.				REF				<table border="1"> <tr><td>0</td></tr> <tr><td>1</td></tr> <tr><td>2</td></tr> <tr><td>3</td></tr> </table>	0	1	2	3
0												
1												
2												
3												
A	B	C	KG									
60 2,36"	65 2,56"	162 6,38"	1,25 2,76	<b>FH230 TL</b> 23-TL	23-PN	FH230 834-23	FH230 R 2740-23	<b>23</b>				

## Side Pin Teeth WTL Diente Pasador Lateral WTL



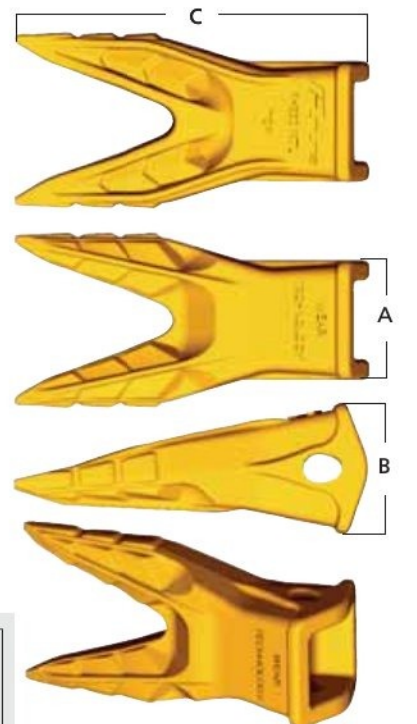
Wear factor | Factor desgaste



Penetration | Penetración



Impact | Impacto



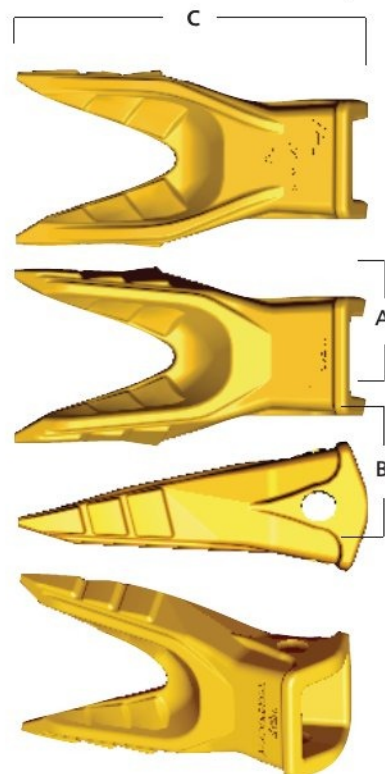
mm.				REF				<table border="1"> <tr><td>0</td></tr> <tr><td>1</td></tr> <tr><td>2</td></tr> <tr><td>3</td></tr> </table>	0	1	2	3
0												
1												
2												
3												
A	B	C	KG									
59 2,32"	64 2,52"	174 6,85"	1,66 3,66	<b>FH230 WTL</b> 23-WTL	23-PN	FH230 834-23	FH230 R 2740-23	<b>23</b>				



**H&L**

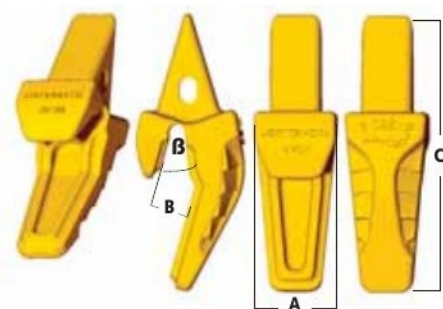
**Side Pin Teeth WTS Diente Pasador Lateral WTS**

Wear factor | Factor desgaste  
Penetration | Penetración  
Impact | Impacto



mm.			KG	REF	23-PN	2740-23	834-23	23
A	B	C						
59 2,32"	64 2,52"	174 6,85"	1,5 3,31	<b>FH230 WTS</b>	-	-	-	-

**Adapter R Portadientes R**



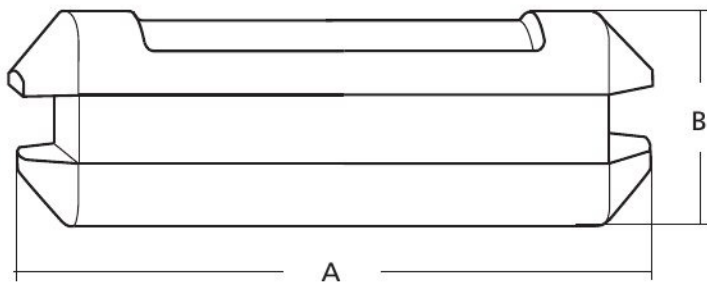
mm.				KG	REF	23-PN	FH230 L 23-HXL	FH230 TL 23-TL	FH230 WTL 23-WTL	23
A	B	C	B							
59 2,32"	27 1,06"	193 7,60"	21°	0,00	<b>FH230 R</b> 834-23	-	-	-	-	-

## Adapter Portadientes



mm.		A	B	C	B	 REF! REF!	REF	 23-PN	 <b>FH230 L</b> 23-HXL	 <b>FH230 TL</b>	 <b>FH230 WTL</b>	 0 1 2 3
A	B											
59	71	194	33°			<b>FH230</b>						<b>23</b>
2,32"	2,80"	7,64"				2740-23						

## Pin Pasador



mm.		A	B	 23-PN	 0 1 2 3
A	B				
54	19				
2,13"	0,75"				

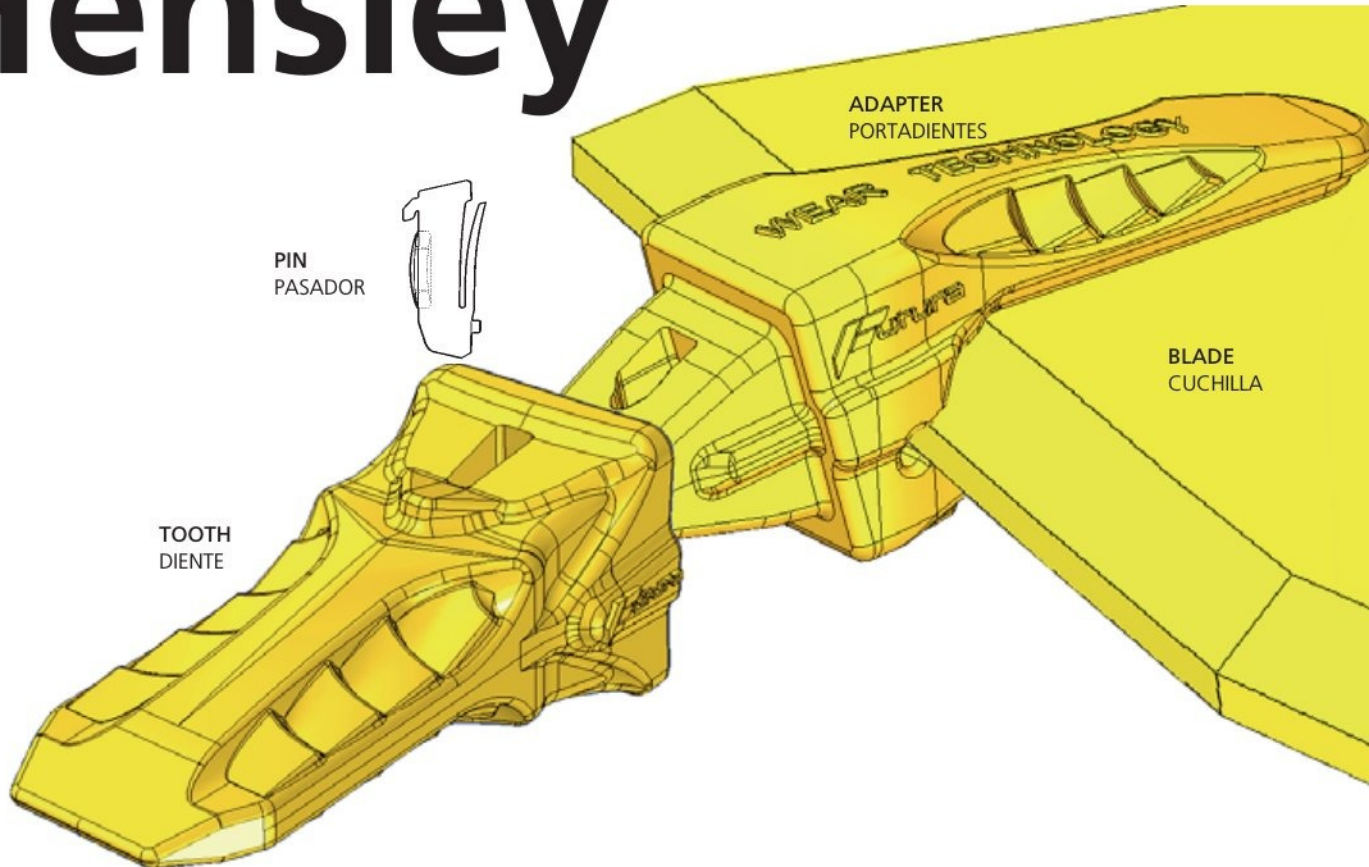
DIRECT  
REPLACEMENT  
PARTS FOR

PIEZAS DE  
REEMPLAZO  
DIRECTO PARA

# Hensley

**Bold part number,  
available product**  
Other part numbers  
please consult

**Referencia en negrita  
producto disponible**  
Otras referencias  
consúltenos



STANDARD	SYL	RP2	TIGER	TWIN TIGER	FLARE	ADAPTER	
<b>FP156 X</b> X156			<b>FP156 T</b> T156	<b>FP156 WT</b> X156WT	<b>FP156 F</b> X156F	<b>FP230X156 R</b> <b>FP550X156 R</b> <b>FP552X156 R</b>	<b>156</b>
<b>FP290 X</b> X290	<b>FP290 SYL</b> X290SYL	-	<b>FP290 T</b> T290	<b>FP290 WT</b> X290WT		<b>FP109X220 R</b>	<b>220</b>
<b>FP310 X</b> X310	-	-	-	<b>FP310 WT</b> X310WT		<b>FP127X290 R</b> <b>FP158X290 R</b>	<b>290</b>
<b>FP330 X</b> X330	<b>FP330 SYL</b> -	-	<b>FP330 T</b> T330	<b>FP330 WT</b> X330WT		-	<b>310</b>
<b>FP370 X</b> X370	-	-	<b>FP370 T</b> T370	<b>FP370 WT</b> X370WT		<b>FP158X330 R</b>	<b>330</b>
<b>FP400 X</b> X400	-	-	<b>FP400 T</b> T450	<b>FP400 WT</b> X450WT		<i>FP158X370 R</i> <b>FP937X370 R</b> <i>FP940X370 R</i>	<b>370</b>
<b>FP410 X</b> X410	-	-	<b>FP410 T</b> T410	<b>FP410 WT</b> X410WT		<i>FP802X400 R</i>	<b>400</b>
<b>FP450 X</b> X450	-	<b>FP450 RP2</b> X450RP2	<b>FP450 T</b> T450	<b>FP450 WT</b> X450WT		<i>FP937X410 R</i> <b>FP940X410 R</b>	<b>410</b>
<b>FP475 X</b> X475	-	-	-	<b>FP475 WT</b> X475WT	-	<i>FP303X450 R</i>	<b>450</b>
<b>FP500 X</b> X500	-	<b>FP500 RP2</b> X500RP2	<b>FP500 T</b> T500	<b>FP500 WT</b> X500WT	-	-	<b>500</b>

Theoretical weights, subject to variations Pesos teóricos, sujetos a variaciones | Manufacturer's names, descriptions, pictures and part numbers are used for reference purposes only. Los nombres, descripciones, ilustraciones y referencias de otras marcas se utilizan a modo de referencia.



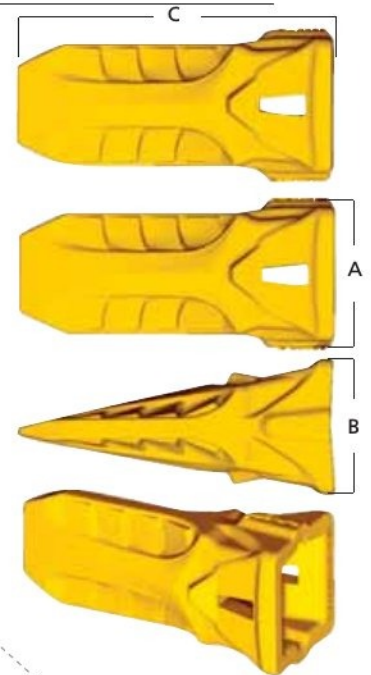
Hensley




Parabolic STANDARD Teeth Diente Parabólico STANDARD

Wear factor | Factor desgaste

Penetration | Penetración

Impact | Impacto



mm.					REF	pin pasador		
A	B	C						
57	55	130	0,85	<b>FP156 X</b> X156	P156	FP158X370 R FP937X370 R	<b>156</b>	
2,24"	2,17"	5,12"	1,87					
110	100	236	5,67	<b>FP290 X</b> X290	K290S	FP127X290 R FP158X290 R	<b>290</b>	
4,33"	3,94"	9,29"	12,50					
105	83	225	4,04	<b>FP310 X</b> X310	P160	-	<b>310</b>	
4,13"	3,27"	8,86"	8,91					
129	114	270	8,46	<b>FP330 X</b> X330	K330S	FP158X330 R	<b>330</b>	
5,08"	4,49"	10,63"	18,65					
141	128	302	11,8	<b>FP370 X</b> X370	K370S	FP158X370 R FP937X370 R	<b>370</b>	
5,55"	5,04"	11,89"	26,01					
146	121	295	10,92	<b>FP400 X</b> X400	P400HD	FP802X400 R	<b>400</b>	
5,75"	4,76"	11,61"	24,07					
158	140	335	16,15	<b>FP410 X</b> X410	K410S	FP937X410R FP940X410R	<b>410</b>	
6,22"	5,51"	13,19"	35,60					
172	165	366	22,42	<b>FP450 X</b> X450	K450S	FP303X450 R	<b>450</b>	
6,77"	6,50"	14,41"	49,43					
176	155	359	21,86	<b>FP475 X</b> X475	P475P		<b>475</b>	
6,93"	6,10"	14,13"	48,19					
192	175	413	29,5	<b>FP500 X</b> X500	K500R		<b>500</b>	
7,56"	6,89"	16,26"	65,04					

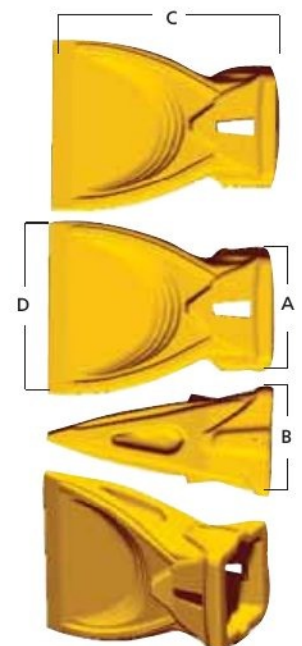



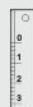

Parabolic FLARE Teeth Diente Parabólico ANCHO

Wear factor | Factor desgaste

Penetration | Penetración

Impact | Impacto



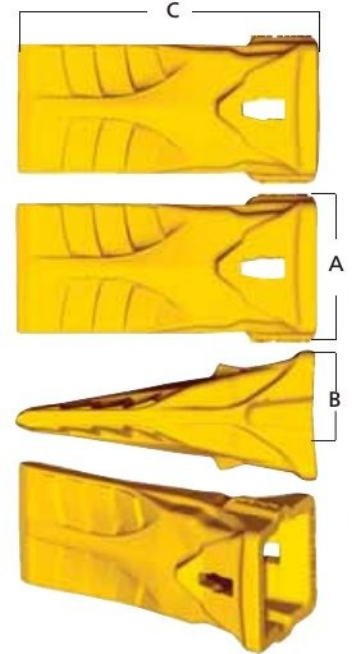
mm.					REF	pin pasador		
A	B	C	D					
60	63	128	111	1,48	<b>FP156 F</b> X156	K156S	FP127X156 R FP158X156 R	<b>156</b>
2,36"	2,48"	5,04"	4,37"	3,26				


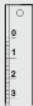
### Parabolic SYL Teeth Diente Parabólico SIMÉTRICO

Wear factor | Factor desgaste

Penetration | Penetración

Impact | Impacto



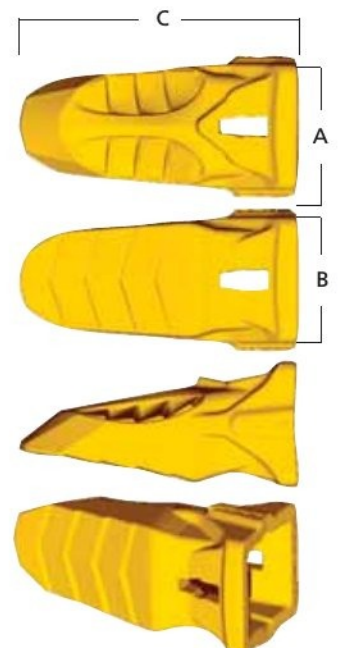
mm.		C	KG	REF	pin pasador		
A	B						
108 4,25"	94 3,70"	222 8,74"	4,8 10,58	<b>FP290 SYL</b> X290SYL	K290S	FP127X290 R FP158X290 R	<b>290</b>
124 4,88"	110 4,33"	257 10,12"	7,4 16,31	<b>FP330 SYL</b> -	K330S	FP158X290 R	<b>330</b>



### Parabolic RP2 Teeth Diente Parabólico RP2

Wear factor | Factor desgaste

Penetration | Penetración

Impact | Impacto



mm.		C	KG	REF	pin pasador		
A	B						
172 6,77"	155 6,10"	346 13,62"	23,06 50,84	<b>FP450 RP2</b> X450RP2	K450S	FP303X450 R	<b>450</b>
186 7,32"	172 6,77"	396 15,59"	33,62 74,12	<b>FP500 RP2</b> X500RP2	K500R		<b>500</b>



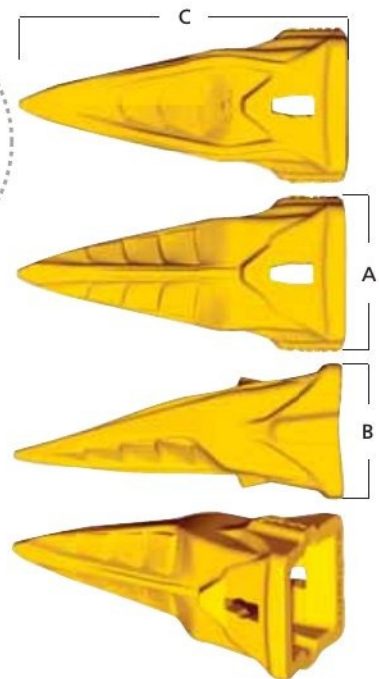
Hensley

Parabolic TIGER Teeth Diente Parabólico TIGER

Wear factor | Factor desgaste

Penetration | Penetración

Impact | Impacto



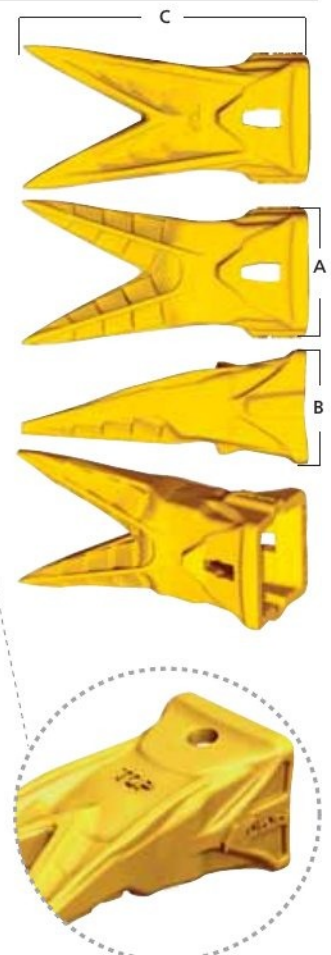
mm.			KG	REF	pin pasador	Pin	mm
A	B	C					
60 2,36"	55 2,17"	149 5,87"	0,84 1,85	<b>FP156 T</b> T156		FP127X156 R FP158X156 R	<b>156</b>
107 4,21"	97 3,82"	240 9,45"	5,67 12,50	<b>FP290 T</b> T290	K290S	FP127X290 R FP158X290 R	<b>290</b>
124 4,88"	110 4,33"	278 10,94"	6,08 13,40	<b>FP330 T</b> T330	K330S	FP158X290 R	<b>330</b>
137 5,39"	125 4,92"	303 11,93"	8,68 19,14	<b>FP370 T</b> T370	K370S	FP158X370 R FP937X370 R FP940X370 R	<b>370</b>
141 5,55"	116 4,57"	306 12,05"	8,14 17,95	<b>FP400 T</b> T400	P400HD	FP802X400 R	<b>400</b>
153 6,02"	134 5,28"	345 13,58"	11,77 25,95	<b>FP410 T</b> T410	K410S	FP937X410R FP940X410R	<b>410</b>
166 6,54"	156 6,14"	380 14,96"	16,50 36,38	<b>FP450 T</b> T450	K450S	FP303X450 R	<b>450</b>
186 7,32"	169 6,65"	417 16,42"	20,92 46,12	<b>FP500 T</b> T500	K500R		<b>500</b>

Parabolic TWIN TIGER Teeth Diente Parabólico TWIN TIGER

Wear factor | Factor desgaste

Penetration | Penetración

Impact | Impacto

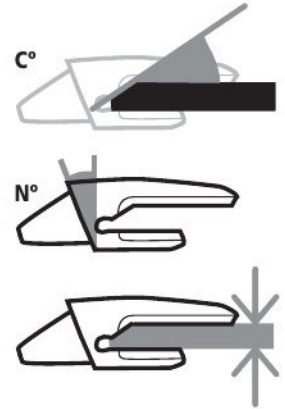


mm.			KG	REF	pin pasador	Pin	mm
A	B	C					
60 2,36"	55 2,17"	159 6,26"	1,17 2,58	<b>FP156 WT</b> X156WT	K290S	FP127X156 R FP158X156 R	<b>156</b>
108 4,25"	98 3,86"	240 9,45"	5,67 12,50	<b>FP290 WT</b> X290WT	K290S	FP127X290 R FP158X290 R	<b>290</b>
108 4,25"	96 3,78"	243 9,57"	5,54 12,21	<b>FP310 WT</b> X310WT	P160	-	<b>310</b>
124 4,88"	110 4,33"	277 10,91"	7,60 16,75	<b>FP330 WT</b> X330WT	K330S	FP158X290 R	<b>330</b>
137 5,39"	125 4,92"	302 11,89"	10,60 23,37	<b>FP370 WT</b> X370WT	K370S	FP158X370 R FP937X370 R FP940X370 R	<b>370</b>
141 5,55"	116 4,57"	304 11,97"	10,00 22,05	<b>FP400 WT</b> X400WT	P400HD	FP802X400 R	<b>400</b>
153 6,02"	134 5,28"	344 13,54"	14,69 32,39	<b>FP410 WT</b> X410WT	K410S	FP937X410R FP940X410R	<b>410</b>
165 6,50"	155 6,10"	378 14,88"	20,18 44,49	<b>FP450 WT</b> X450WT	K450S	FP303X450 R	<b>450</b>
173 6,81"	143 5,63"	372 14,65"	19,26 42,46	<b>FP475 WT</b> X475WT	P475P	-	<b>475</b>
183 7,20"	164 6,46"	414 16,30"	24,59 54,21	<b>FP500 WT</b> X500WT	K500R	-	<b>500</b>

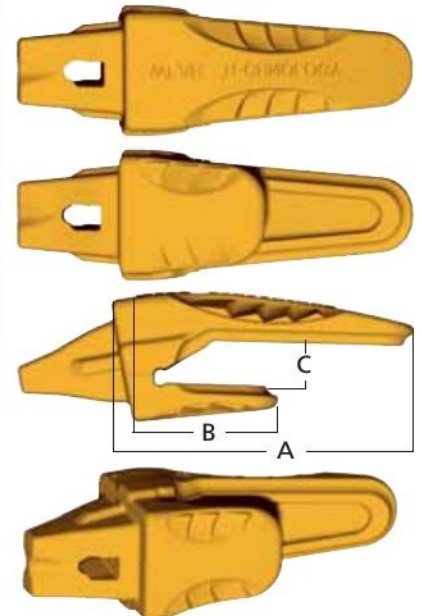
Theoretical weights, subject to variations Pesos teóricos, sujetos a variaciones | Manufacturer's names, descriptions, pictures and part numbers are used for reference purposes only. Los nombres, descripciones, ilustraciones y referencias de otras marcas se utilizan a modo de referencia.



Parabolic Adapter Portadientes Parabólico



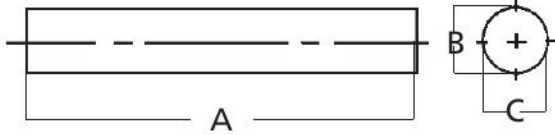
mm.				C°	N°		REF	OEM	
A	B	C							
139 5,47"	54 2,13"	17 0,67"	<b>15</b> 0,59"	30°	15°	1,90 4,19	<b>FP230X156 R</b>	230X156	
173 6,81"	80,5 3,17"	27 1,06"	<b>25</b> 0,98"	26°	13°	2,40 5,29	<b>FP550X156 R</b>	550X156	<b>156 *</b>
167 6,57"	92 3,62"	21,5 0,85"	<b>20</b> 0,79"	30°	15°	2,40 5,29	<b>FP552X156 R</b>	552X156	
229 9,02"	143 5,63"	33 1,30"	<b>30</b> 1,18"	30°	15°	6,50 14,33	<b>FP109X220 R</b>	109X220	<b>220 *</b>
274 10,79"	121 4,76"	33 1,30"	<b>30</b> 1,18"	30°	12°	10,80 23,81	<b>FP127X290 R</b>	127X290	<b>290</b>
261,5 10,30"	167 6,57"	41 1,61"	<b>38</b> 1,50"	30°	12°	11,20 24,69	<b>FP158X290 R</b>	158X290	
292 11,50"	195 7,68"	40 1,57"	<b>38</b> 1,50"	30°	15°	17,00 37,48	<b>FP158X330 R</b>	158X330	<b>330</b>
323 12,72"	156 6,14"	40 1,57"	<b>38</b> 1,50"	30°	12°	19,00 41,89	<i>FP158X370 R</i>	158X370	
323 12,72"	156 6,14"	47 1,85"	<b>45</b> 1,77"	30°	12°	18,20 40,12	<b>FP937X370 R</b>	937X370	<b>370</b>
323 12,72"	156 6,14"	52 2,05"	<b>50</b> 1,97"	30°	12°	17,60 38,80	<i>FP940X370 R</i>	940X370	
337 13,27"	167 6,57"	52 2,05"	<b>50</b> 1,97"	30°	15°	21,20 46,74	<i>FP802X400 R</i>	802X400	<b>400</b>
331 13,03"	156 6,14"	47 1,85"	<b>45</b> 1,77"	30°	12°	22,50 49,60	<i>FP937X410 R</i>	937X410	<b>410</b>
332 13,07"	154 6,06"	52 2,05"	<b>50</b> 1,97"	30°	12°	21,50 47,40	<b>FP940X410 R</b>	940X410	
363 14,29"	237 9,33"	65 2,56"	<b>63,5</b> 2,50"	30°	12°	33,20 73,19	<i>FP303X450 R</i>	303X450	<b>450</b>



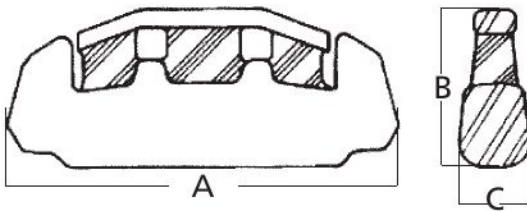
Hensley

Parabolic Pin Pasador Parabólico

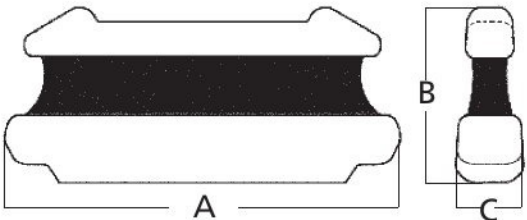
1. Roll Pins / Pasador Cilindrico



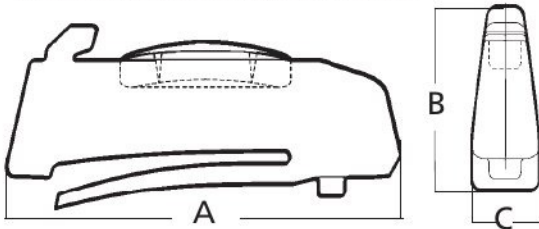
2. Flex Pin / Pasador Flexible (Optional)



3. STP Solid Rubber (Optional) / Goma Solida

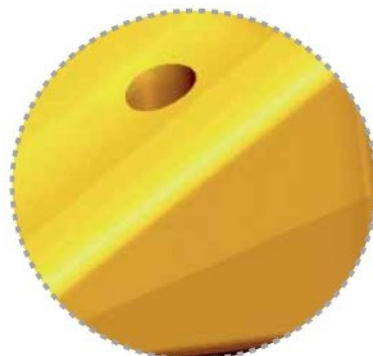


4. STEEL KEEPER / Acero Standard



		mm.		KG	Pin / Pasador	Type	
A	B	C					
51	10	10	0,05	P156	Roll Pin	156	
2,01"	0,39"	0,39"	0,11				
76	13	13	0,05	P160	Roll Pin	160	
2,99"	0,51"	0,51"	0,11				
76	13	13	0,05	X220	Roll Pin	220	
2,99"	0,51"	0,51"	0,11				
78	32	14	0,12	P290	Flex Pin		
3,07"	1,26"	0,55"	0,25				
79	32	13	0,13	P290STP	STP	290	
3,11"	1,26"	0,51"	0,30				
78	32	14	0,19	K290S	Standard		
3,07"	1,26"	0,55"	0,42				
76	13	13	0,05	P160	Roll Pin	310	
2,99"	0,51"	0,51"	0,11				
89	41	14	0,19	P330	Standard		
3,50"	1,61"	0,55"	0,42				
89	41	14	0,20	P330STP	STP	330	
3,50"	1,61"	0,55"	0,44				
89	41	14	0,22	K330S	Standard Steel Key		
3,50"	1,61"	0,55"	0,49				
110	48	21	0,39	P370	Flex Pin		
4,33"	1,89"	0,83"	0,86				
110	48	21	0,43	P370STP	STP	370	
4,33"	1,89"	0,83"	0,95				
110	48	21	0,48	K370S	Standard Steel Key		
4,33"	1,89"	0,83"	1,06				
90	40	13	0,20	P400HD	Flex Pin HD	400	
3,54"	1,57"	0,51"	0,44				
117	53	21	0,43	P410	Flex Pin		
4,61"	2,09"	0,83"	0,95				
117	53	21	0,51	P410STP	STP	410	
4,61"	2,09"	0,83"	1,12				
117	53	21	0,56	K410S	Standard Steel Key		
4,61"	2,09"	0,83"	1,23				
132	54	22	0,54	P450	Flex Pin	450	
5,20"	2,13"	0,87"	1,19				
132	54	22	0,65	K450S	Standard Steel Key		
5,20"	2,13"	0,87"	1,43				
116	43	17	0,39	P475P	Flex Pin	475	
4,57"	1,69"	0,67"	0,86				
151	54	29	1,13	K500R	Standard Steel Key	500	
5,94"	2,13"	1,14"	2,49				

Size / Talla  
156, 220



Size / Talla  
290, 330, 370, 400, 410 4520



**John Deere**

DIRECT  
REPLACEMENT  
PARTS FOR

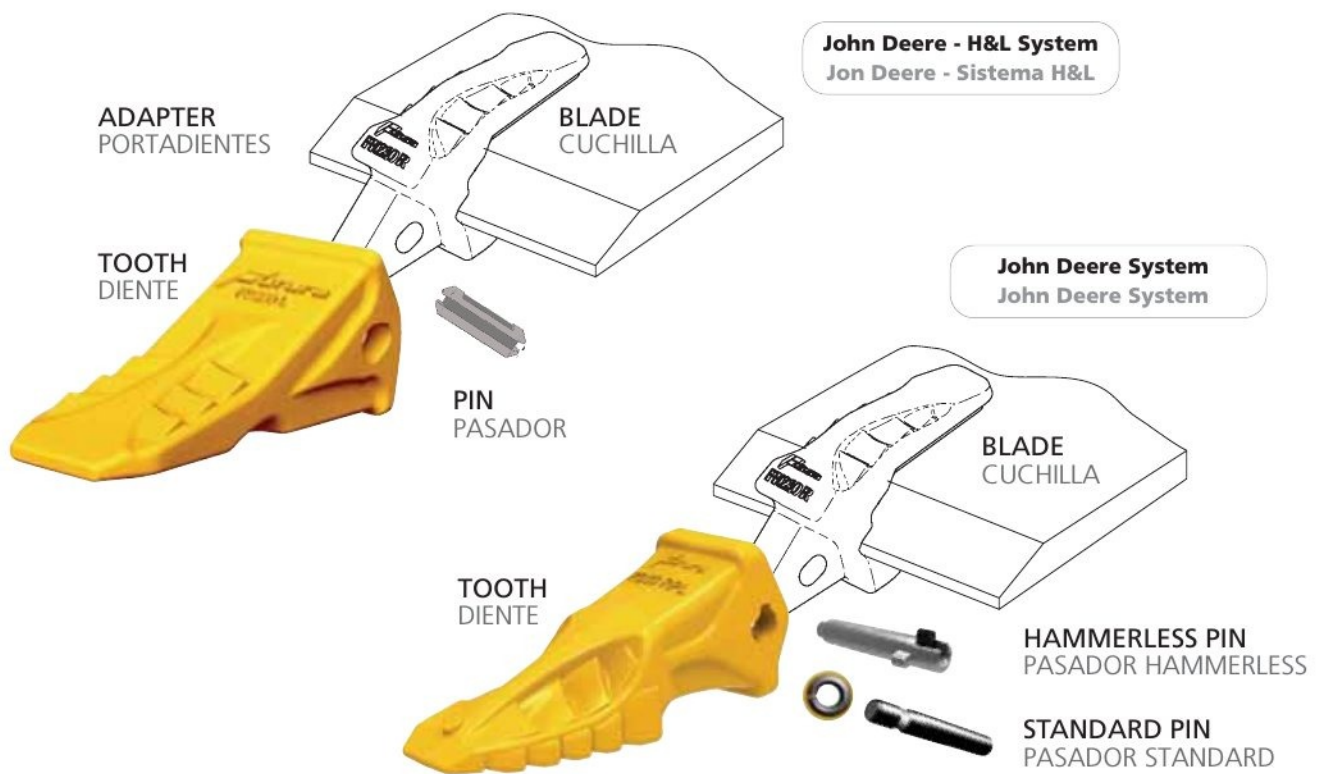
PIEZAS DE  
REEMPLAZO  
DIRECTO PARA

**Bold part number,  
available product**  
*Other part numbers  
please consult*

**Referencia en negrita  
producto disponible**  
*Otras referencias  
consúltenos*

# John Deere

## Side Pin Tooth Dientes Pasador Lateral



<b>FD230 L</b>	<b>FD230 TL</b>	<b>FD230 WTL</b>	-	-	<b>23</b>
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<b>FD33 RP</b>	<b>FD33 RPL</b>	<b>33</b>
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**John Deere - H&L System**  
Jon Deere - Sistema H&L

**John Deere System**  
Sistema John Deere



John Deere

John Deere - H&L System  
Jon Deere - Sistema H&L

### Side Pin Teeth L Diente Pasador Lateral L



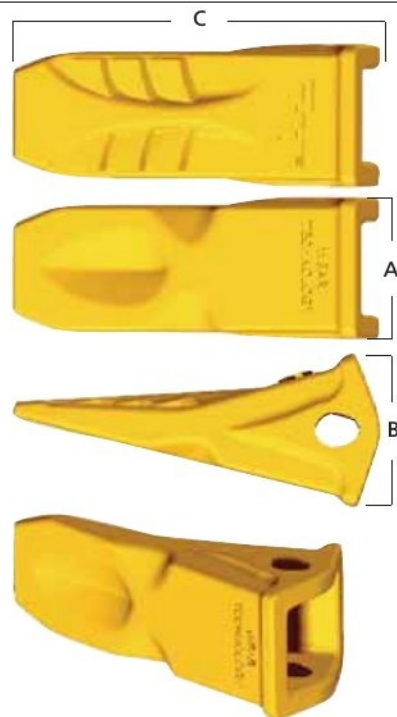
Wear factor | Factor desgaste



Penetration | Penetración



Impact | Impacto



mm.				REF	OEM		
A	B	C					
59 2,32"	62 2,44"	154 6,06"	1,16 2,56	<b>FD230 L</b>		23-PN	<b>23</b>

### Side Pin Teeth TL Diente Pasador Lateral TL



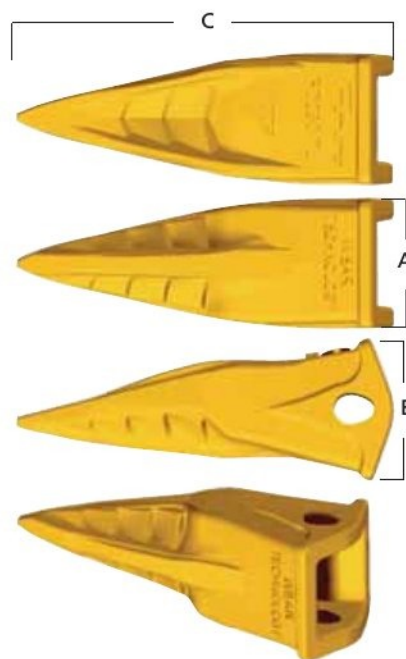
Wear factor | Factor desgaste



Penetration | Penetración



Impact | Impacto



mm.				REF	OEM		
A	B	C					
59 2,32"	64 2,52"	172 6,77"	1,30 2,87	<b>FD230 TL</b>		23-PN	<b>23</b>

**John Deere - H&L System**  
Jon Deere - Sistema H&L

**John Deere**

### Side Pin Teeth WTL Diente Pasador Lateral WTL



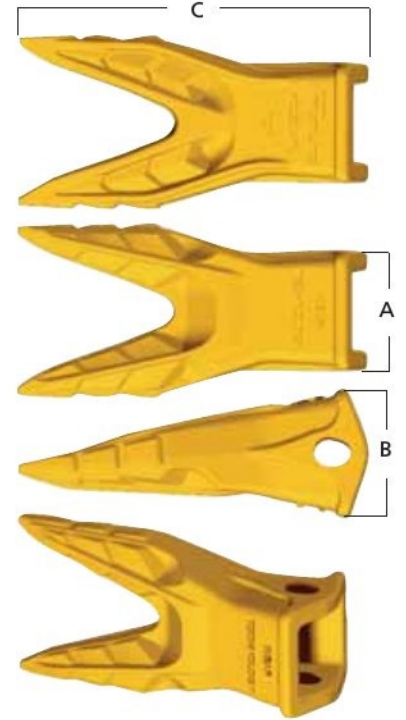
Wear factor | Factor desgaste



Penetration | Penetración

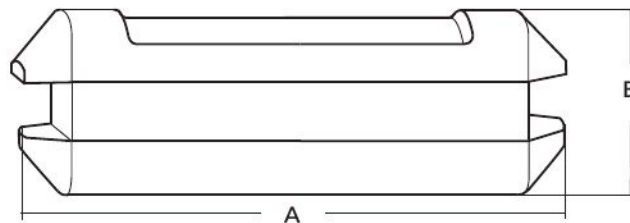


Impact | Impacto



mm.				REF	OEM		
A	B	C					
59 2,32"	64 2,52"	173 6,81"	1,63 3,59	<b>FD230 WTL</b>		23-PN	<b>23</b>

### PIN Pasador



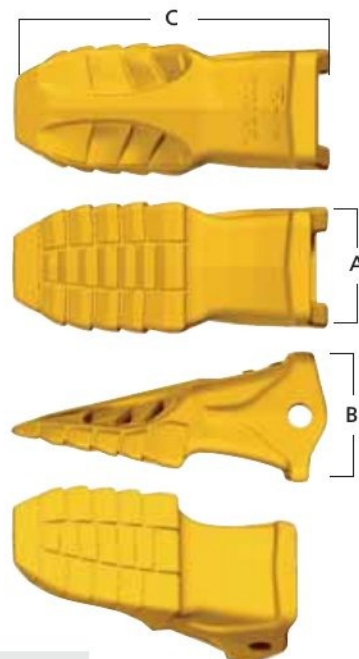
mm.			
A	B		
54 2,13"	19 0,75"	<b>23-PN</b>	<b>23</b>

John Deere

John Deere System  
Sistema John Deere

Side Pin Teeth RP Diente Pasador Lateral RP

Wear factor | Factor desgaste  
Penetration | Penetración  
Impact | Impacto



mm.				REF	OEM	132-4766	8E-6259 149-5733	FD33 PHL	33
A	B	C	KG						
119 4,69"	116 4,57"	287 11,30"	9,55 21,05	<b>FD33 RP</b>	TF33 L				

Side Pin Teeth RPL Diente Pasador Lateral RPL

Wear factor | Factor desgaste  
Penetration | Penetración  
Impact | Impacto



mm.				REF	OEM	132-4766	8E-6259 149-5733	FD33 PHL	33
A	B	C	KG						
119 4,69"	116 4,57"	287 11,30"	9,55 21,05	<b>FE33 RPL</b>	TF33 L				

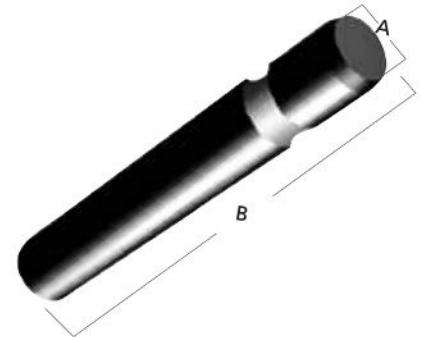


**John Deere System**  
Sistema John Deere

**John Deere**

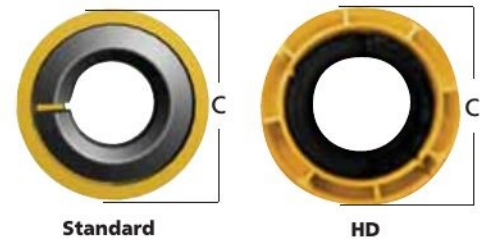
### Pin STANDARD Pasador STANDARD

mm.			Standard		HD		
A	B			OEM		OEM	
14 0,55"	92 3,62"	107-3308 <b>132-4766</b>	<b>8E-6259</b>	9J-2308	<b>149-5733</b>	3G-9609	<b>33</b>



### Washer STANDARD Arandela STANDARD

	Standard		HD		
C		OEM		OEM	
30 1,18"	<b>8E-6259</b>	9J-2308	<b>149-5733</b>	3G-9609	<b>33</b>



Standard

HD

Standard > re-usable  
HD > non re-usable

### PHL HAMMERLESS Pin Pasador HAMMERLESS

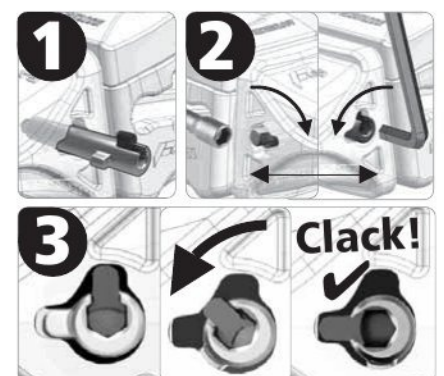


SOCKET HEX

HEX KEY

**M10 3/8"** FD33 PHL **M8 5/16"**

L	ø		REF	
105 4,13"	14,2 0,56"	0,10 0,22	<b>FD33 PHL</b>	<b>33</b>



**John Deere**

**Edge Protectors** Protectores de Cuchilla

**T55**



**T26**



Kg	Lb		Part#	OEM	Machine
39	87	20	<b>T196455</b>	T196455	844 J

Kg	Lb		Part#	OEM	Machine
130	286	20	<b>T198126</b>	T198126	844 J

DIRECT  
REPLACEMENT  
PARTS FOR

PIEZAS DE  
REEMPLAZO  
DIRECTO PARA

**Bold part number,  
available product**

*Other part numbers  
please consult*

**Referencia en negrita  
producto disponible**

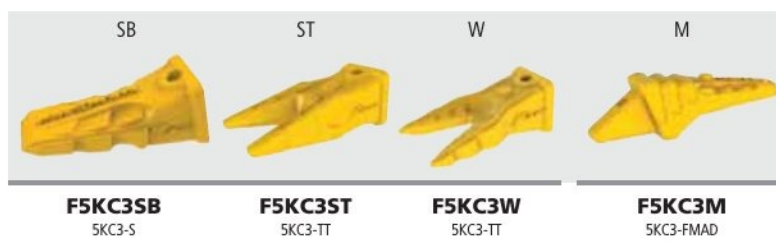
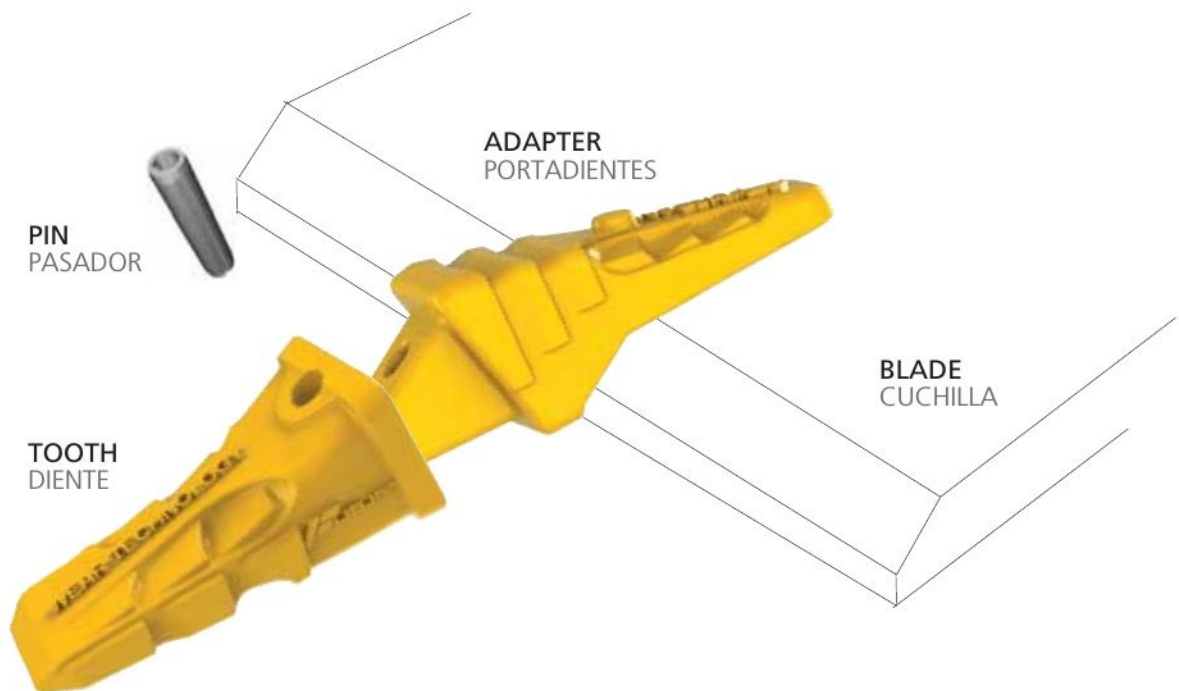
*Otras referencias  
consúltenos*

# Keech

## Vertical Pin System

## Sistema Pasador Vertical

## Vertical





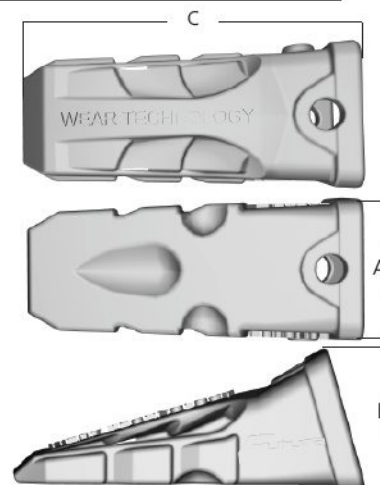
Keech

Vertical Pin Tooth SB Diente Pasador Vertical SB

Wear factor | Factor desgaste

Penetration | Penetración

Impact | Impacto



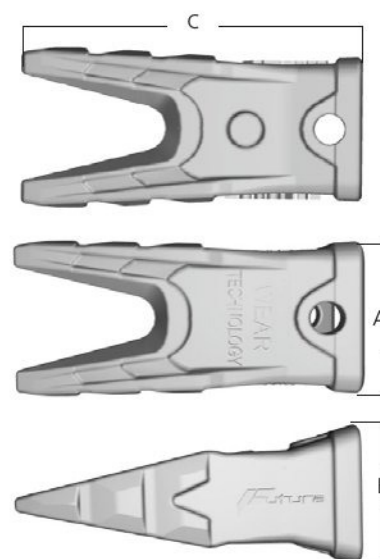
mm.				REF		
A	B	C				
54 2,13"	53 2,09"	124,5 4,90"	0,89 1,96	<b>F5KC3SB</b> 5KC3-S	PIN-10050 ES	F5KC3M 5KC3-FMAD

Vertical Pin Tooth ST Diente Pasador Vertical ST

Wear factor | Factor desgaste

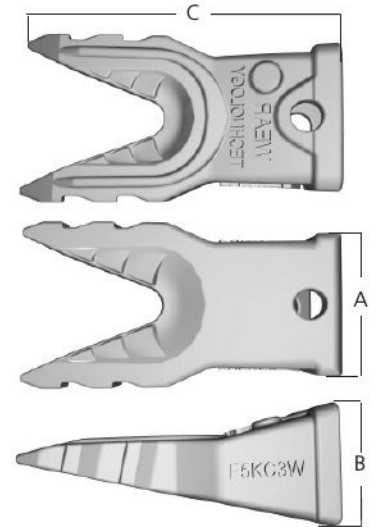
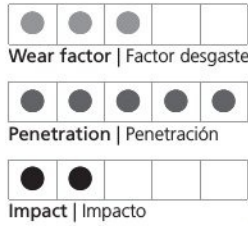
Penetration | Penetración

Impact | Impacto



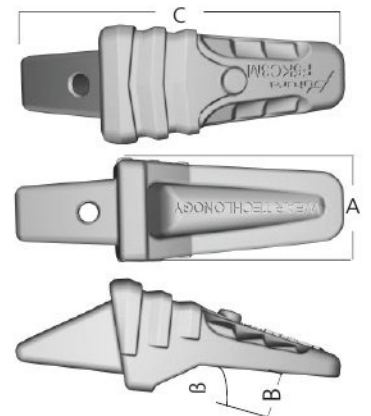
mm.				REF		
A	B	C				
54 2,13"	52,5 2,07"	129 5,08"	0,95 2,09	<b>F5KC3ST</b> 5KC3-TT	PIN-10050 ES	F5KC3M 5KC3-FMAD

## Vertical Pin Tooth W Diente Pasador Vertical W



mm.				REF		
A	B	C				
69 2,72"	50 1,97"	126 4,96"	0,86 1,90	<b>F5KC3W</b> 5KC3-TT	PIN-10050 ES	F5KC3M 5KC3-FMAD

## Vertical Pin Adapter M Portadientes Pasador Vertical ST



mm.								REF
A	B	B'	B°	C				
53,5 2,11"	52 2,05"	14,5 0,57"	30	159 6,26"	1,66 3,66	<b>F5KC3M</b> 5KC3-FMAD		

**Keech****Spring Pin Pasador**

mm.

L	Ø		REF
45	10	0,10	<b>PIN-10050 ES</b>
1,77"	0,39"	0,22	



DIRECT  
REPLACEMENT  
PARTS FOR

PIEZAS DE  
REEMPLAZO  
DIRECTO PARA

# Kobelco

**Bold part number, available product**  
Other part numbers please consult

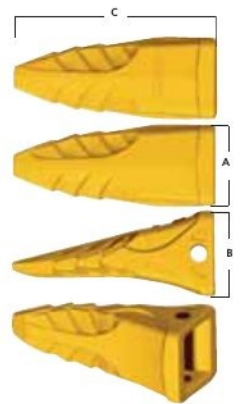
**Referencia en negrita producto disponible**  
Otras referencias consúltenos

## Lateral PIN tooth P Diente Pasador Lateral Penetración

Wear factor | Factor desgaste

Penetration | Penetración

Impact | Impacto



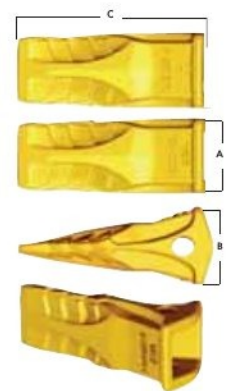
mm.			REF	Yn61B010065002	-	SK100
A	B	C				
110 4,33"	115 4,53"	276 10,87"	8,10 17,86	Yn61B010065001		

## Lateral PIN tooth SYL Diente Pasador Lateral Simétrico

Wear factor | Factor desgaste

Penetration | Penetración

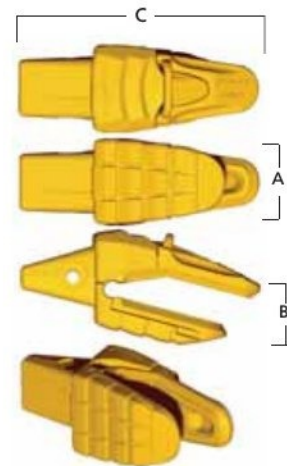
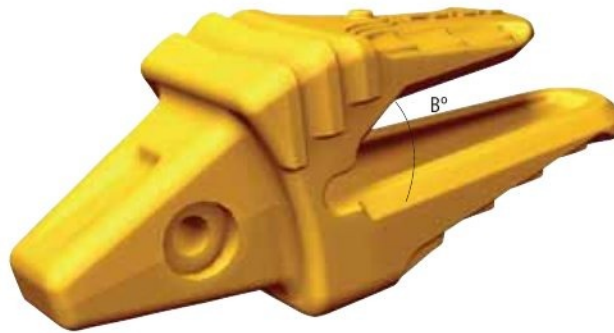
Impact | Impacto



mm.			REF	Yn69B000085002-L	FKB210 Yn61B01020P1-L	SK210
A	B	C				
110 4,33"	115 4,53"	276 10,87"	8,10 17,86	Yn69B000085001-L	FKB210 Yn61B01020P1-L	SK210
110 4,33"	115 4,53"	276 10,87"	13,30 29,32	LC69B00001S1-L	FKB350 LV61B01001P1-L	SK350

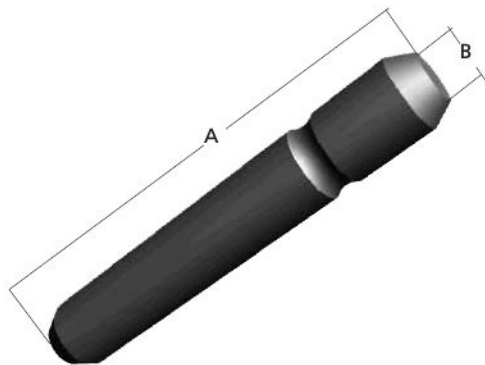
**Kobelco**

**Adapter Portadientes**



mm.					REF		
A	B	C	B°				
126 4,96"	140 5,51"	364 14,33"	30	14,70 32,41	<b>FKB210</b> YN61B01020P1-L	YN69B00008S002-L	<b>SK210</b>
133 5,24"	164 6,46"	370 14,57"	30	18,70 41,23	<b>FKB350</b> LV61B01001P1-L	LC69B00001S2-L	<b>SK350</b>

**Pin Pasador**



mm.		REF	
A	B		
118 4,65"	20 0,79"	<b>YN69B00008S002-L</b>	<b>210</b>
132 5,20"	20 0,79"	<b>LC69B00001S2-L</b>	<b>350</b>

DIRECT  
REPLACEMENT  
PARTS FOR

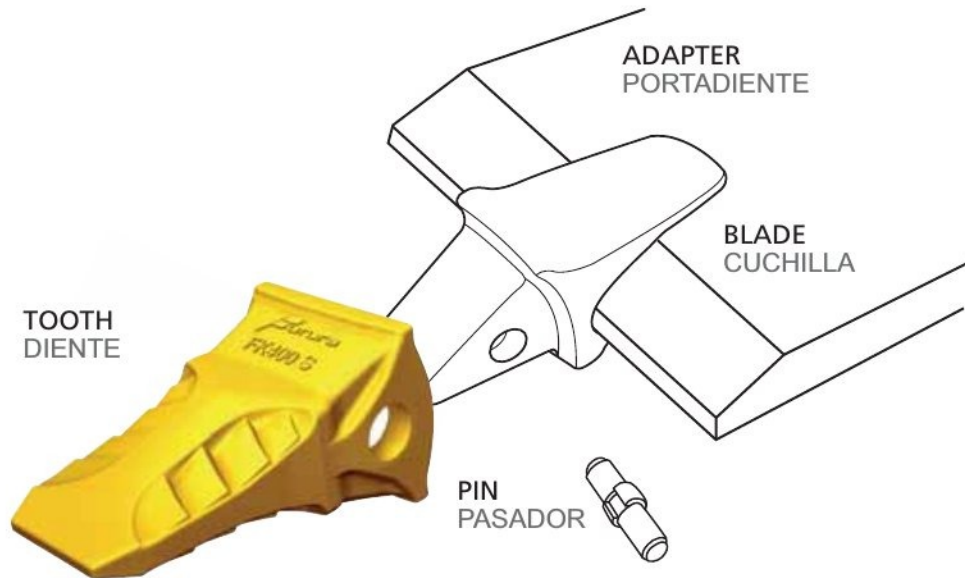
PIEZAS DE  
REEMPLAZO  
DIRECTO PARA

# Komatsu

## Side Pin Teeth Sistema Pasador Lateral

**Bold part number,  
available product**  
*Other part numbers  
please consult*

**Referencia en negrita  
producto disponible**  
*Otras referencias  
consúltenos*



EXCAVATOR TEETH EXCAVADORA				LOADER TEETH CARGADORA	
IMPACT	STANDARD	ROCK CHISEL	TIGER LONG	ROCK PENETRATION LIGHT	
<b>FK200 I</b> -	<b>FK200 S</b> 205-70-19570	<b>FK200 RC</b> 205-70-19570	<b>FK200 TL</b> 205-70-19570	-	<b>200</b>
<b>FK300 I</b> 205-70-19570	<b>FK300 S</b> 207-70-14151	<b>FK300 RC</b> 207-70-14151	<b>FK300 TL</b> 207-70-14151	-	<b>300</b>
-	<b>FK400 S</b> 208-70-14152	<b>FK400 RC</b> 208-70-14152	<b>FK400 TL</b> 208-70-14152	-	<b>400</b>
-	-	<b>FK750 RC</b> 208-70-14152 209-70-54720	-	-	<b>650</b> <b>750</b>
-	-	<b>FK1100 RC</b> 209-70-54720 21N-72-14290	-	-	<b>1000</b> <b>1100</b>
-	-	-	-	<b>FK420 RPL</b> 423-847-1140	<b>420</b>
-	-	-	-	<b>FK600 RPL</b> 426-847-1110	<b>600</b>

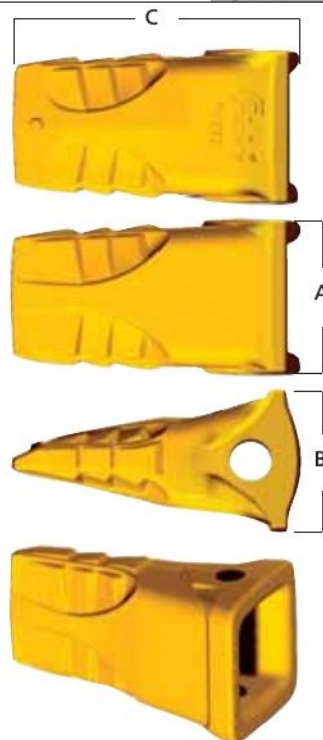


Komatsu

IMPACT Teeth Diente IMPACTO



Wear factor | Factor desgaste  
Penetration | Penetración  
Impact | Impacto

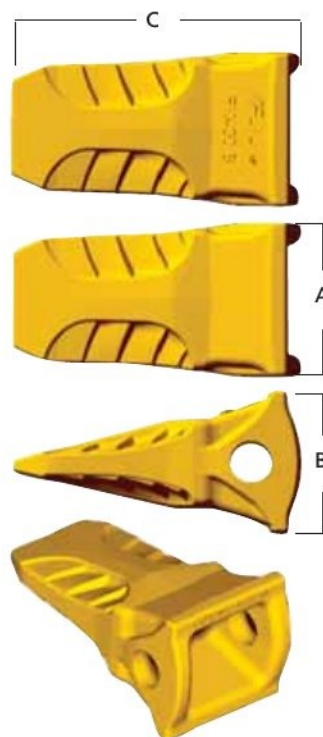


mm.				KG	REF			
A	B	C						
124 4,88"	121 4,76"	230 9,06"	5,6 12,35	<b>FK200 I</b> -	09244-02496	205-70-68141 205-939-7120	<b>200</b>	
124 4,88"	121 4,76"	230 9,06"	7,10 15,65	<b>FK300 I</b> 205-70-19570	09244-02516	207-70-14142 207-939-3120	<b>300</b>	

STANDARD Teeth Diente STANDARD

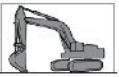


Wear factor | Factor desgaste  
Penetration | Penetración  
Impact | Impacto

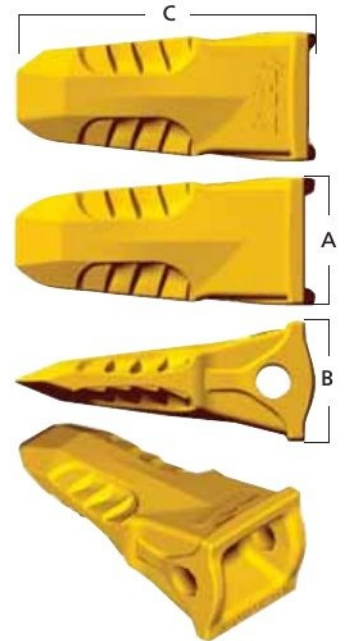


mm.				KG	REF			
A	B	C						
102 4,02"	112 4,41"	225 8,86"	5,10 11,24	<b>FK200 S</b> 205-70-19570	09244-02496	205-70-68141 205-939-7120	<b>200</b>	
124 4,88"	121 4,76"	248 9,76"	7,93 17,48	<b>FK300 S</b> 207-70-14151	09244-02516	207-70-14142 207-939-3120	<b>300</b>	
146 5,75"	135 5,31"	276 10,87"	11,60 25,57	<b>FK400 S</b> 208-70-14152	09244-03036	208-70-14143	<b>400</b>	

## ROCK CHISEL Teeth Diente CINCEL ROCA



Wear factor | Factor desgaste  
 Penetration | Penetración  
 Impact | Impacto

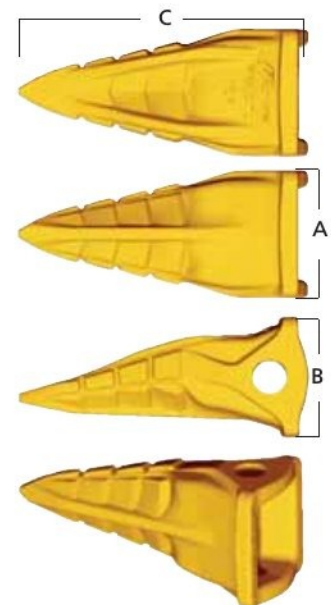


mm.			KG	REF			
A	B	C					
102 4,02"	112 4,41"	267 10,51"	7,00 15,43	<b>FK200 RC</b> 205-70-19570	09244-02496	205-70-68141 205-939-7120	<b>200</b>
124 4,88"	124 4,88"	295 11,61"	10,50 23,15	<b>FK300 RC</b> 207-70-14151	09244-02516	207-70-14142 207-939-3120	<b>300</b>
146 5,75"	136 5,35"	345 13,58"	15,50 34,17	<b>FK400 RC</b> 208-70-14152 RE	09244-03036	208-70--14143	<b>400</b>
185 7,28"	191 7,52"	438 17,24"	35,10 77,38	<b>FK750 RC</b> 208-70-14152 209-70-54720	209-70-54240	209-70-74140	<b>650</b> <b>750</b>
188 7,40"	310 12,20"	518 20,39"	54,80 120,81	<b>FK1100 RC</b> 209-70-54720 21N-72-14290	21N-72-14330	21N-70-14140	<b>1000</b> <b>1100</b>

## TIGER LONG Teeth Diente TIGER LONG



Wear factor | Factor desgaste  
 Penetration | Penetración  
 Impact | Impacto

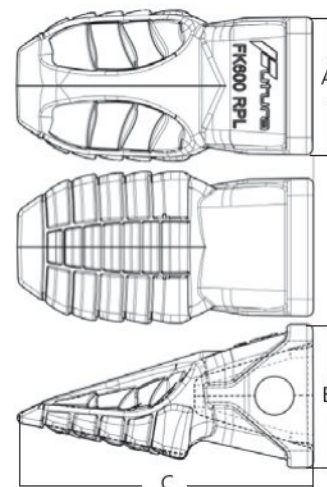


mm.			KG	REF			
A	B	C					
102 4,02"	112 4,41"	270 10,63"	5,40 11,90	<b>FK200 TL</b> 205-70-19570	09244-02496	205-70-68141 205-939-7120	<b>200</b>
122 4,80"	122 4,80"	299 11,77"	7,90 17,42	<b>FK300 TL</b> 207-70-14151	09244-02516	207-70-14142 207-939-3120	<b>300</b>
146 5,75"	137 5,39"	340 13,39"	11,40 25,13	<b>FK400 TL</b> 208-70-14152 RE	09244-03036	208-70--14143	<b>400</b>



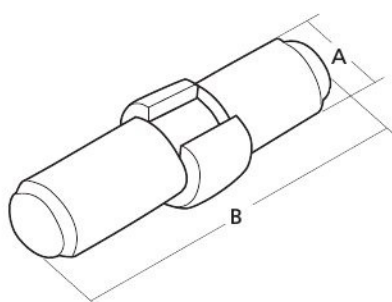
Komatsu

ROCK PENETRATION LIGHT Teeth Diente Penetración Roca Ligero



mm.				REF	[Pin]	[Bracket]	[Bracket]	[Bracket]	[Bracket]	[Bracket]
A	B	C	KG							
				FK420 RPL 423-847-1140	09244-02516	423-847-1111	-	419-847-1210 423-847-1210	<b>420</b>	
140 5,51"	146 5,75"	300 11,81"	16,50 36,38	<b>FK600 RPL</b> 426-847-1110	09244-03036	425-847-1191 426-847-1141	426-847-1120 426-847-1121	426-847-1121 A	<b>600</b>	

Pin Pasador



mm.		Ref. BYG	OEM	[Excavator]
A	B			
25 0,98"	97 3,82"	<b>09244-02496</b>	205-70-19610 205-70-69130	PC100, PC100L-5, PC120-5, PC130, PC200LC-5, PW210-1
25 0,98"	119 4,69"	<b>09244-02516</b>	175-78-21810	PC220, PC220LC-5, PC240LC-NLC, PC280LC-3, PC290 LC/NLC, PC300, PC300LC-5, PC340 LC/NLC PC360LC-3, PC-380 LC
30 1,18"	145 5,71"	<b>09244-03036</b>	198-79-11320 A09-78-11730 426-847-1130	PC400, PC400LC-5, PC450, PC450LC
36 1,42"	165 6,50"	<b>209-70-54240</b>	209-70-54240	PC650, PC650LC-3, PC650SE, PC750, PC750SE
40 1,57"	165 6,50"	<b>21N-72-14330</b>	21N-70-00060	PC-1000LC-1 PC1000SE-1, PC-1100SP, PC-1200
50 1,97"	183 7,20"	<b>21T-72-74320</b>	-	PC-1600, PC-1600-1



**KVX**

DIRECT  
REPLACEMENT  
PARTS FOR

PIEZAS DE  
REEMPLAZO  
DIRECTO PARA

# KVX

## Bolt-On Teeth

### Dientes Atornillables

**Bold part number, available product**  
*Other part numbers please consult*

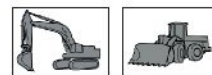
**Referencia en negrita producto disponible**  
*Otras referencias consúltenos*



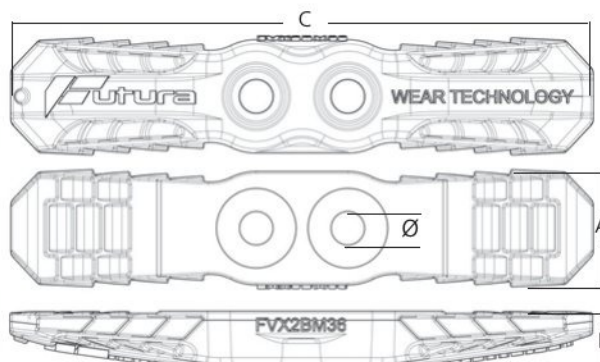
SIZE		SIZE		OEM			Ø	in	SIZE
M27	6-9 TON	M27	<b>FVX2BM27</b>	131202	<b>BK-27060</b>	BOLT M27X60	27,8	1,09"	<b>M27</b>
M36	10-17 TON	M36	<b>FVX2BM36</b>	131203	<b>BK-36077</b>	BOLT M36X77	36,6	1,44"	<b>M36</b>
M48	18-24 TON	M48	<b>FVX2BM48</b>	131206	<b>BK-48100</b>	BOLT M48X100	48,9	1,93"	<b>M48</b>

KVX

Bolt-On Tooth Diente Atornillable



WEAR FACTOR | DESGASTE  
PENETRATION | PENETRACIÓN  
IMPACT | IMPACTO



A	in	B	mm in	C	in	Ø	in	kg	Lb	Part#	OEM	Excavator	SIZE
90	3,54"	44	1,73"	522	20,55"	27,8	1,09"	9,3	20	FVX2BM27	131202	6-11 TON	M27
123	4,84"	58	2,28"	637	25,08"	36,6	1,44"	22,5	50	FVX2BM36	131203	11-23 TON	M36
154	6,06"	77	3,03"	796	31,34"	48,9	1,93"	38,0	84	FVX2BM48	131206	23-35 TON	M48

Bolts for KVX Tooth Tornillos para dientes KVX



Ø	in	L	mm in	kg	Lb	Part#	OEM	Excavator	SIZE
27,8	1,09"	60	2,36"	0,37	0,81	BK-27060	35068	6-11 TON	M27
36,6	1,44"	77	3,03"	0,66	1,45	BK-36077	035073H	11-23 TON	M36
48,9	1,93"	100	3,94"	1,65	3,63	BK-48100	138829H	23-35 TON	M48

Mini Excavator

DIRECT  
REPLACEMENT  
PARTS FOR

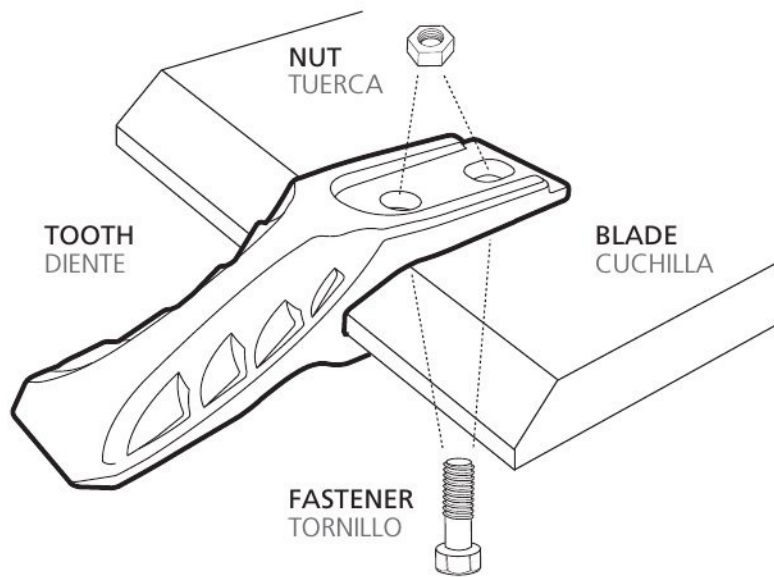
PIEZAS DE  
REEMPLAZO  
DIRECTO PARA

# Mini Excavators

**Bold part number, available product**  
Other part numbers please consult

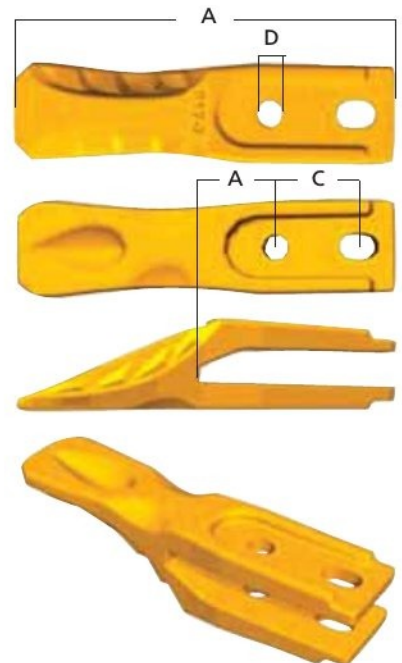
**Referencia en negrita producto disponible**  
Otras referencias consúltenos

## Teeth Dientes



### Bolt-On Mini Excavator Tooth Diente Atornillable para Miniexcavadora

●	●	●	□	□
Wear factor   Factor desgaste				
●	●	●	□	□
Penetration   Penetración				
●	●	●	□	□
Impact   Impacto				



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



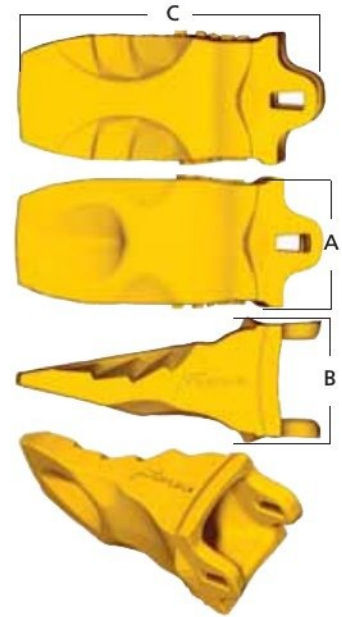
**Mini Excavator**

**Vertical Pin Tooth** Diente Pasador Vertical Largo

Wear factor | Factor desgaste

Penetration | Penetración

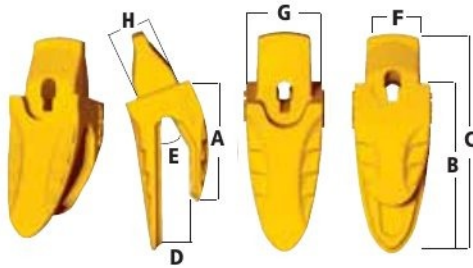
Impact | Impacto



mm.								15
A	B	C						
52 2,05"	51 2,01"	122 4,80"	0,70 1,54	<i>FE15 L</i> *	18-PN	15-LK	FE15 R	

\* Replaceable FT130 S

**Vertical Pin Weld-On Adapter** Portadientes Pasador Vertical Soldable

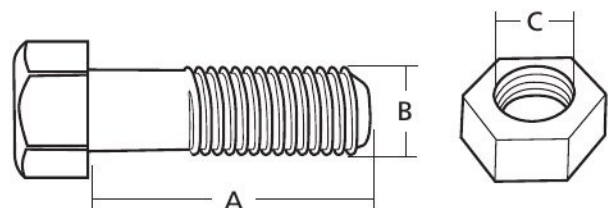


mm.														15
A	B	C	D	E	F	G	H							
23 3,27"	11 3,98"	150 5,91"	11 0,71"	24°	36 1,42"	51 2,01"	58 2,28"	15 0,63"	1,03 2,27	<i>FE15 R</i> *	18-PN	15-LK	FE15 L	

\* Replaceable FT130

**Bolts & Nuts** Tornillos y Tuercas

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



**Tata-Hitachi**

DIRECT  
REPLACEMENT  
PARTS FOR

PIEZAS DE  
REEMPLAZO  
DIRECTO PARA

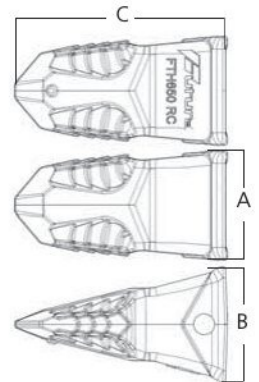
**Bold part number,  
available product**  
Other part numbers  
please consult

**Referencia en negrita  
producto disponible**  
Otras referencias  
consúltenos

# Tata-Hitachi

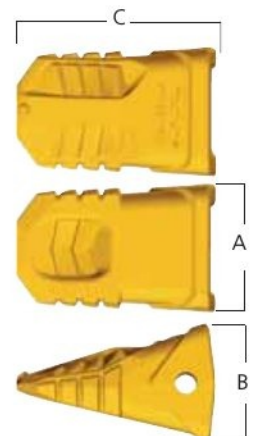
## Side Pin Teeth Dientes Pasador Lateral

### ROCK CHISEL Teeth Diente Pasador Lateral CINCEL ROCA



mm.				REF	Pin	C	Pin	Scale
A	B	C	KG					
171 6,73"	181 7,13"	330 12,99"	21,20 46,74	<b>FTH650 RC</b> TD08460	- TE09010	- TE09011	-	<b>65</b>
192,9 7,59"	202 7,95"	446 17,56"	40,80 89,95	<b>FTH1200 RC</b> TD08413	- TE08790	- TE08791	<b>FTH1200 PNHL</b>	<b>120</b>

### ROCK EXPLODER Teeth Diente Pasador Lateral ROCK EXPLODER



mm.				REF	Pin	C	Pin	Scale
A	B	C	KG					
128 5,04"	133 5,24"	236 9,29"	9,40 20,72	<b>FTH210 RE</b> TB00705	TE21526	TE21627	-	<b>21</b>
159 6,26"	143 5,63"	248 9,76"	12,30 27,12	<b>FTH350 RE</b> TB00822	TB00822 LP TE04412	TB00822 R	-	<b>35</b>

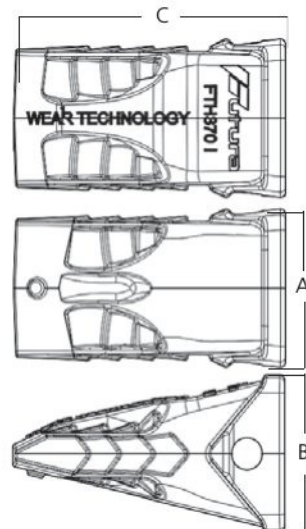
**Tata-Hitachi**

**IMPACT Teeth** Diente IMPACTO

● ● ●    
WEAR FACTOR | DESGASTE

● ● ●    
PENETRATION | PENETRACIÓN

● ● ● ● ●   
IMPACT | IMPACTO



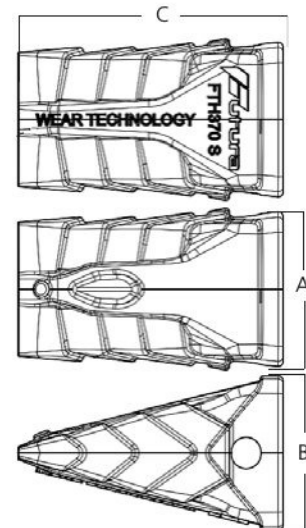
mm.			KG	REF	CROSS	FTH370	37
A	B	C					
136 5,35"	135 5,31"	233 9,17"	10,20 22,49	<b>FTH370 I</b>	TE06423		

**SYMMETRICAL Teeth** Diente SIMÈTRICO

● ● ●    
WEAR FACTOR | DESGASTE

● ● ●    
PENETRATION | PENETRACIÓN

● ● ● ● ●   
IMPACT | IMPACTO

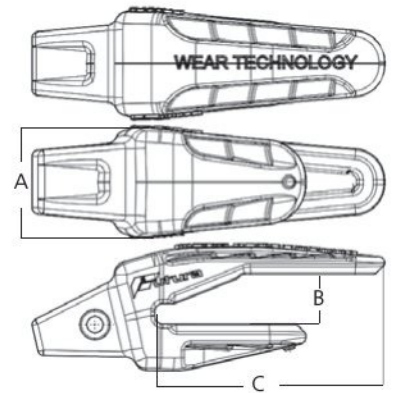
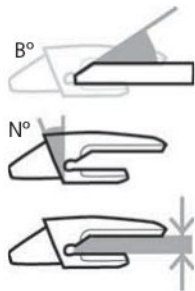


mm.			KG	REF	CROSS	FTH370	37
A	B	C					
136 5,35"	135 5,31"	233 9,17"	10,50 23,15	<b>FTH370 S</b>	TE06423		



**Tata-Hitachi**

**Adapter** Portdientes



mm.		C		B°	N°		REF	CROSS	
A	B								
138 5,43"	63 2,48"	290 11,42"	60 2,36"	22°	13°	23,60 52,03	<b>FTH370</b>	TE06422	<b>37</b>

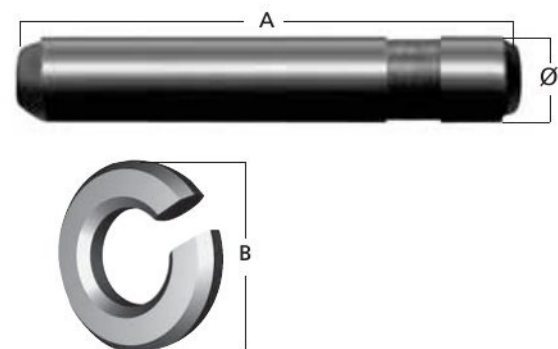
**Tata-Hitachi**

**Adapter Portadientes**



mm.									
A	B	C		B°	N°		REF		
129 5,08"	42 1,65"	254 10,00"	40 1,57"	90	10	14,60 32,19	<b>FTH210-B90</b>		<b>21</b>
152 5,98"	62 2,44"	340 13,39"	60 2,36"	90	13,2	26,20 57,76	<b>FTH350-B90</b>		<b>35</b>

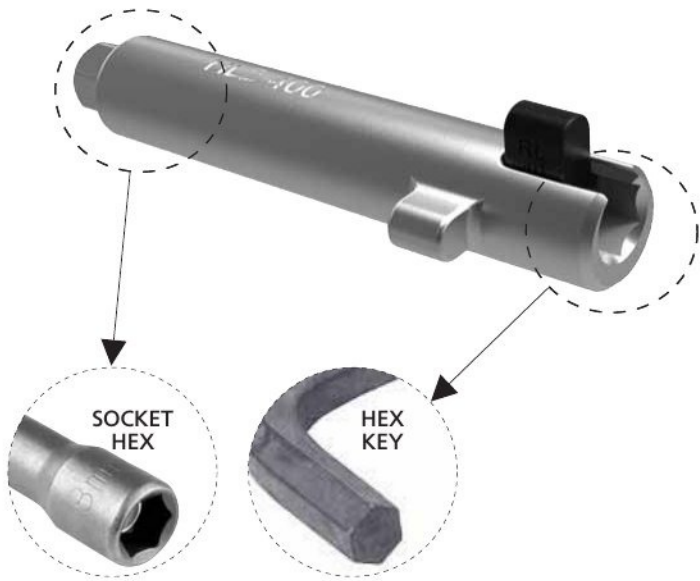
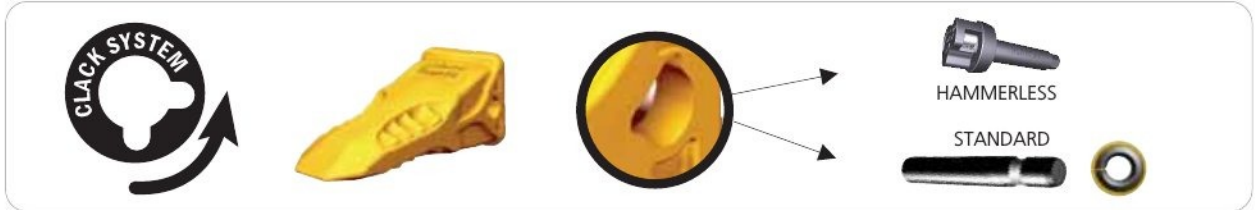
**STANDARD Pin and Washer Pasador y Arandela STANDARD**



mm.									
A	∅			B					
146 5,75"	20 0,79"	0,17 0,37	<b>TE21526</b> TE21526	36,2 1,43"	0,04 0,09	<b>TE21627</b>		<b>21</b>	
146 5,75"	20 0,79"	0,35 0,77	<b>FB00822 LP</b> TEO4412	38 1,50"	0,05 0,11	<b>TB00822 RT</b>		<b>35</b>	
122 4,80"	18,5 0,73"	0,25 0,55	- TE09010					<b>65</b>	
146 5,75"	20 0,79"	1,42 3,13	TEO8790					<b>120</b>	

**Tata-Hitachi**

## Hammerless Pin Pasador Hammerless



**KIT**

**2 LOCKING OPTION**  
**2 OPCIONES DE MONTAJE**  
**2 OPTIONS DE MONTAGE**  
**2 OPÇÕES DE MONTAGEM**

mm.	OEM								
L	Ø								

180	36,8	1,5	<b>FTH1200 PNHL</b>	TEO8790	TEO8791	•	•	•	M24 15/16" M21 13/16"	<b>120</b>
7,09"	1,45"	3,31								



Tata-Hitachi

ENGLISH

ASSEMBLY INSTRUCTIONS

► The FUTURA systems HL2, RHP and PHL work with FUTURA teeth ONLY ► For Adapters FC2 omit step 1

1 Insert the washer into the adapter washer hole as shown in the picture  
2 Mount the tooth on the adapter/ripper 3 Insert the pin into the hole  
4 Use a SOCKET HEX or a HEX KEY (check the HEX TABLE below for recommended keys for each pin) to rotate the pin from any of its ends. A rubber insert under locking tab allows the locking tab (fig 5) to compress, rotate and lock. 6 Each pin comes with a heavy duty dirt plug to keep fines out of the pin's socket. Choose the right plug according to the tooth recess and place. Discard the other plug.

DISASSEMBLY  
Repeat steps in reverse order.

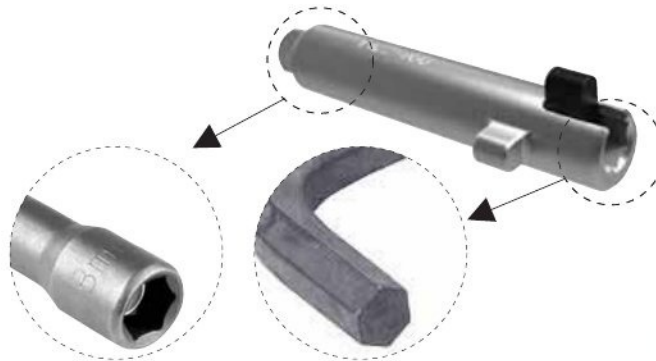
ESPAÑOL

INSTRUCCIONES DE MONTAJE

► El sistema FUTURA HL2, RHP y PHL FUNCIONA SOLO CON DIENTES MARCA FUTURA ► Para el montaje con portadientes FC2 omite el paso 1

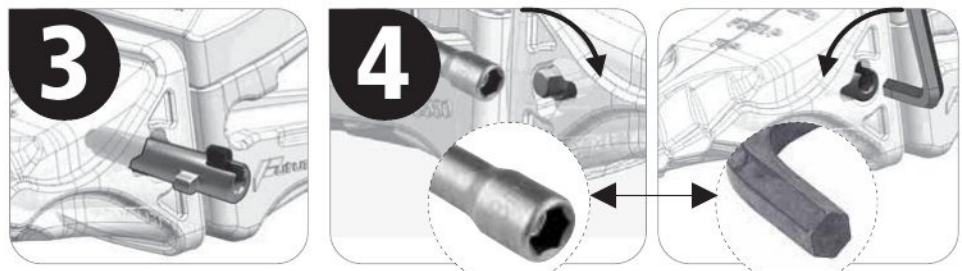
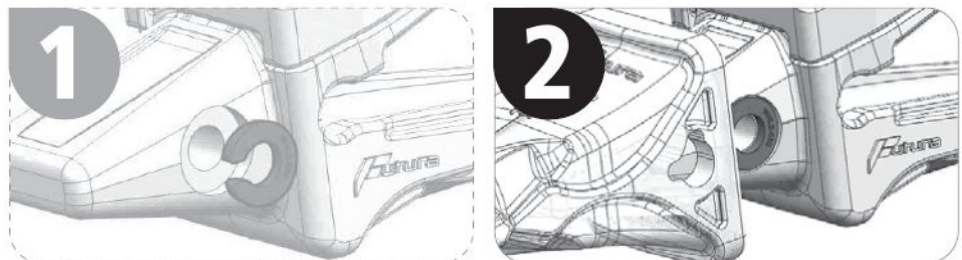
1 Inserte la arandela en el hueco del portadientes/ripper en la posición que se indica 2 Encaje el diente en el portadientes 3 Coloque el pasador en el orificio del diente como se indica 4 Utilice una llave ALLEN o un VASO HEXAGONAL para girar el pasador (compruebe el tamaño de la llave en la tabla más abajo) 5 El mecanismo de fijación del pasador permite que la pestaña de cierre se comprima, rote y bloquee el diente 6 Los pasadores HL2 van acompañados de un tapón de goma anti-suciedad para sus extremos. Elija el que mejor se ajuste y colóquelo en posición. Los tapones de goma ayudan a prevenir la entrada de suciedad. Deseche el tapón sobrante.

DESMONTAJE  
Repetir los pasos en orden inverso.

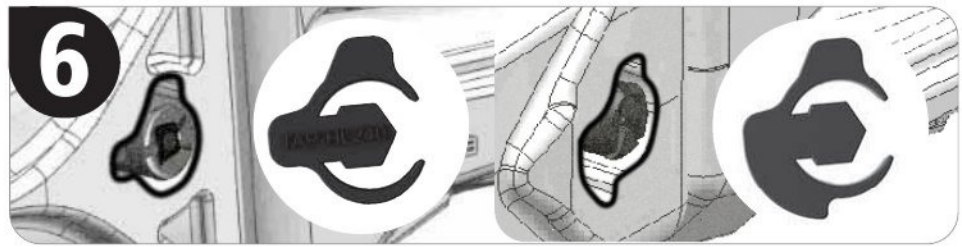
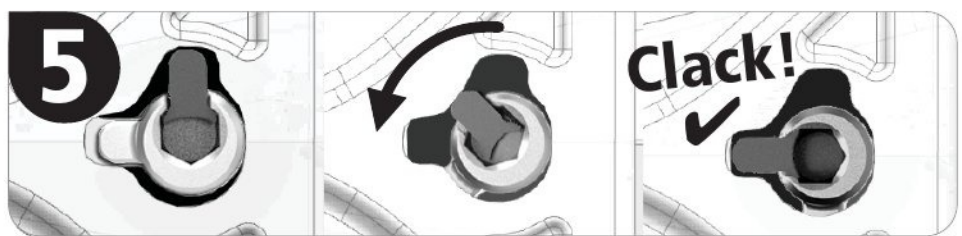


SOCKET HEX **PNHL** HEX KEY  
M21 13/16" FTH1200 PNHL M24 15/16"

2 LOCKING OPTION  
2 OPCIONES DE MONTAJE  
2 OPTIONS DE MONTAJE  
2 OPÇÕES DE MONTAGEM



SOCKET HEX HEX KEY



DIRECT  
REPLACEMENT  
PARTS FOR

PIEZAS DE  
REEMPLAZO  
DIRECTO PARA

# Volvo

**Bold part number,  
available product**  
Other part numbers  
please consult

**Referencia en negrita  
producto disponible**  
Otras referencias  
consúltenos

## Side Pin Teeth Dientes Pasador Lateral

### ROCK CHISEL Teeth Diente Pasador Lateral CINCEL ROCA



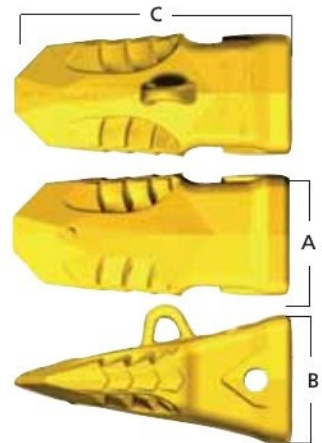
Wear factor | Factor desgaste



Penetration | Penetración



Impact | Impacto



mm.				REF				
A	B	C						
180	194	403,5	35,90	<b>FV700 RC</b>	IE 10001 L	IE 10002 L	FV700	<b>700</b>
7,09"	7,64"	15,89"	79,14	14526511L				

### IMPACT Teeth Diente Pasador Lateral IMPACTO



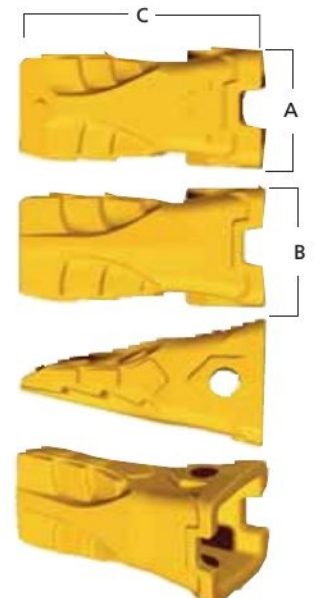
Wear factor | Factor desgaste



Penetration | Penetración



Impact | Impacto



mm.				REF	
A	B	C			
151	141	265	13,50	<b>FV360 I</b>	<b>360</b>
5,94"	5,55"	10,43"	29,76	1171-01910	
152	156	287	15,50	<b>FV460 I</b>	<b>460</b>
5,98"	6,14"	11,30"	34,17	14553243	



**Volvo**

**SYMMETRIC Tooth Diente SIMÉTRICO**

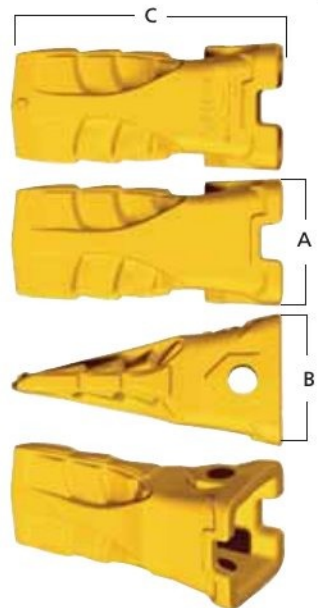
Wear factor | Factor desgaste

Penetration | Penetración

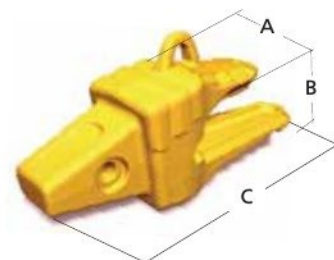
Impact | Impacto



mm.			KG	REF	460
A	B	C			
152	156	323	16,10	<b>FV460 SYL</b>	
5,98"	6,14"	12,72"	35,49	KT55 G 14553243	

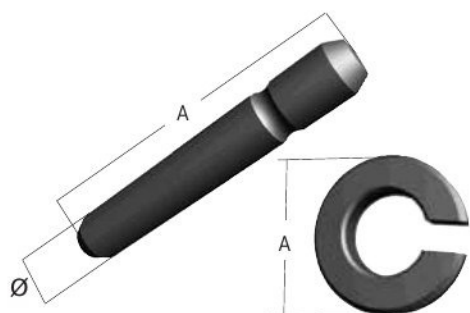


**Weld-On Adapter Portadientes Soldable**



mm.			KG	REF	IE 10001 L	IE 10002 L	700
A	B	C					
171	209	539	43,60	<b>FV700</b>			
6,73"	8,23"	21,22"	96,12	14326509L			

**Pin & Washer Pasador y Arandela**



mm.		IE 10001 L	700
A	Ø		
160	27,5		
6,30"	1,08"		

mm.		IE 10002 L	700
A			
50,4			
1,98"			