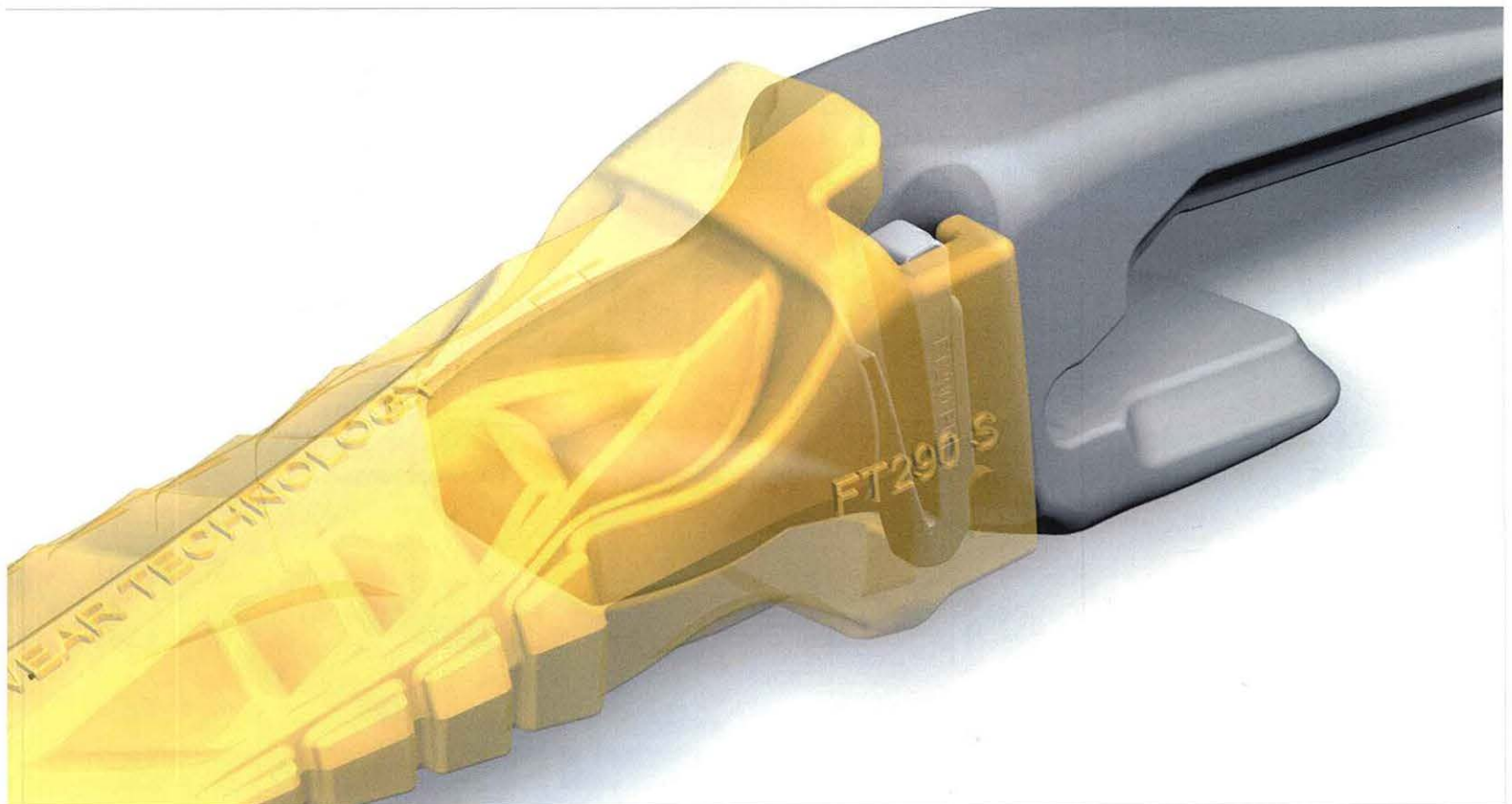




TWISTER



TWISTER Sizes

130	170	190	230	290	330	390	430	510	590	610	690	710	810
Light Construction			Construction				Heavy Construction			Mining			

Guide to part sizes by machine breakout force (tons)

	130	170	190	230	290	330	390	430	510	590	610	690	710	810
Standard	5,7	8,6	11,4	16,5	24,5	32,2	39,4	48,5	58,2	70,5	88,6	110,2	131,6	
HD	4,6	6,8	8,7	12,8	19,2	24,5	31,8	39,2	48,4	58,2	70,2	88,6	110,2	
ST/HD	3,4	5,3	6,8	9,8	13,2	16,8	21,5	26,5	31,1	38,4	48,2	63,6	76,1	97,4
Extra HD	2,9	4,2	5,6	7,8	10,4	13,2	17,2	21,5	26,5	31,2	38,4	49,2	60,2	76,0
ST/HD									36,4	45,3	56,2	70,2	86,5	110,5
Extra HD									31,0	36,5	45,2	58,9	70,4	90,2

The New Futura Helix Style System

Complete system featuring teeth, adapters and pins ✓

Variety of designs to suit common and heavy duty excavator or loader applications. Sizes from 130 to 810 ✓

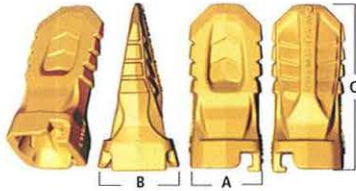
TWISTER teeth and pins are suitable to be used with any other HELIX style adapter available in the market ✓

Excavator teeth

S Standard



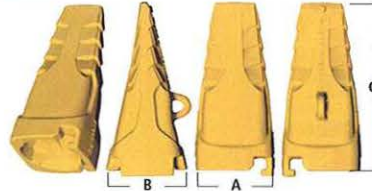
mm			Kg	Ref	Cross Ref.	mm
A	B	C				
55	67	120	0,97	FT130 S	V13SYL SDMTLR	130
65	69	156	1,50	FT170 S	V17SYL SD1TLR	170
80	96	187	3,20	FT190 S	V19SYL SD3TLR	190
90	107	210	4,34	FT230 S	V23SYL SD4TLR	230
102	116	238	6,00	FT290 S	V29SYL SD5TLR	290
111	126	262	8,20	FT330 S	V33SYL SD7TLR	330
128	143	294	11,60	FT390 S	V39SYL SD8TLR	390
140	157	326	15,90	FT430 S	V43SYL SD9TLR	430
152	165	374	20,80	FT510 S	V51SYL SD10TLR	510
165	178	402	26,30	FT590 S	V59SYL SD11TLR	590



RC Rock Chisel



mm			Kg	Ref	Cross Ref.	mm
A	B	C				
128	143	294	11,60	FT390 RC	V39SD SD8PR	390
140	157	326	15,90	FT430 RC	V43SD SD9PR	430
152	165	374	20,80	FT510 RC	V51SD V51SDX SD10PR	510
165	178	402	26,30	FT590 RC	V59SD V59SDX SD11PR	590
170	198	429	32,10	FT610 RC	V61SD V61SDX SD12PR	610
205	219	470	46,30	FT690 RC	V69SD	690
224	237	500	57,80	FT710 RC	V71SD	710
267	280	576	90,50	FT810 RC	V81SD	810



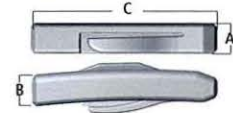
PN

TWISTER pins could be re-used several times ✓

The TWISTER pin is designed to be used with other HELIX style products in the market ✓



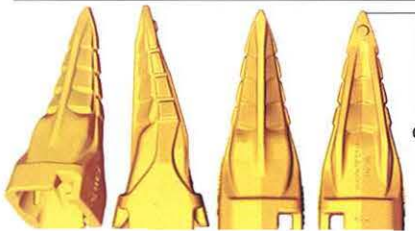
mm			Kg	Ref	Type	Cross Ref.	mm
A	B	C					
10	10	48	0,03	FT1317 PN	A	V13-17PN SDMCL/1CL/2CL	1317
				FT1923 PN	A	V19PN SD3CL/SD4CL	1923
				FT230 PN	A	V23PN	230
14	15	78	0,14	FT290 PN	A	V29PN / SD5CL	290
				FT330 PN	A	V33PN / SD7CL	330
				FT390 PN	A	V39PN / SD8CL	390
20	20	106	0,28	FT430 PN	A	V43PN / SD9CL	430
				FT510 PN	A	V51PN SD10CL/SD11CL	510
				FT590 PN	A	V59PN SD10CL/SD11CL	590
22	23	133	0,40	FT610 PN	B	V61PN / SD12CL	610
				FT690 PN	B	V69PN	690
				FT710 PN	B	V71PN	710
				FT810 PN	B	V81PN	810



TL Tiger Long



mm			Kg	Ref	Cross Ref.	mm
A	B	C				
66	69	175	1,30	FT170 TL	V17VY SD1 PE	170
77	96	200	2,60	FT190 TL	V19VY SD3 PE	190
90	107	225	3,60	FT230 TL	V23VY SD4 PE	230
102	116	270	5,10	FT290 TL	V29VY SD5 PE	290
114	126	295	7,00	FT330 TL	V33VY SD7 PE	330
128	143	326	9,90	FT390 TL	V39VY SD8 PE	390
144	157	364	13,70	FT430 TL	V43VY SD9 PE	430



VTL Vector Tiger Long



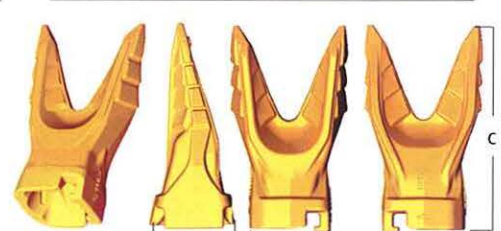
mm			Kg	Ref	Cross Ref.	mm
A	B	C				
151	165	395	17,50	FT510 VTL	V51VY V51VYH SD10PE	510
165	178	430	22,50	FT590 VTL	V59VY V59VYH SD11PE	590
170	198	464	27,80	FT610 VTL	V61VX SD12PE	610
210	219	508	39,90	FT690 VTL	V69VX	690
230	237	550	51,50	FT710 VTL	V71VX	710
265	278	642	81,10	FT810 VTL	V81VX	810



WTL Twin Tiger Long



mm			Kg	Ref	Cross Ref.	mm
A	B	C				
66	69	175	1,96	FT170 WTL	V17TVY	170
77	96	200	3,91	FT190 WTL	V19TVY	190
90	107	225	5,42	FT230 WTL	V23TVY	230
102	116	270	7,68	FT290 WTL	V29TVY	290
114	126	295	10,54	FT330 WTL	V33TVY	330
128	143	326	14,90	FT390 WTL	V39TVY	390
144	157	364	20,62	FT430 WTL	V43TVY	430
151	165	326	26,34	FT510 WTL	V51TVY	510
165	178	364	33,87	FT590 WTL	V59TVY	590
170	198	326	41,85	FT610 WTL	V61TVP	610



Coming soon!

Loader Teeth

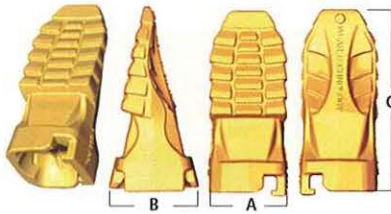
RPL

Rock Penetration Light



Coming soon!

mm			Kg	Ref	Cross Ref.	mm
A	B	C				
66	70	157	1,50	FT170 RPL	V17AD SD1CE	170
80	96	191	3,20	FT190 RPL	V19AD SD3CE	190
90	107	213	4,40	FT230 RPL	V23AD SD4CE	230
102	116	241	6,44	FT290 RPL	V29AD SD5CE	290



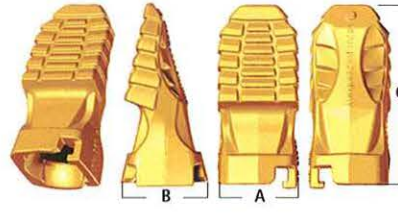
RP

Rock Penetration



Coming soon!

mm			Kg	Ref	Cross Ref.	mm
A	B	C				
				FT330 RP	V33AR SD7SA	330
				FT390 RP	V39AR SD8SA	390



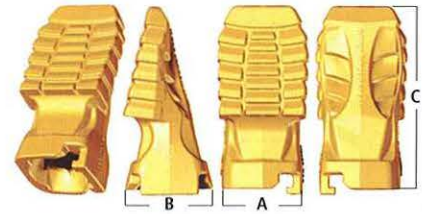
RPHD

Rock Penetration HD



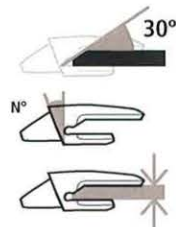
Coming soon!

mm			Kg	Ref	Cross Ref.	mm
A	B	C				
				FT430 RPHD	V43ARH	430
				FT510 RPHD	V51ARH	510
				FT590 RPHD	V59ARH	590



Excavator Adapters

mm		N°	Kg	Ref	Cross Ref.	mm
A	B					
61	101	15 16	1,3	FT130	1610T-V13	130
59	110	15 20	2,0	FT170	8841-V17	170
76	157	15 25	4,9	FT190	8822-V19	190
87	197	15 25	6,9	FT230	5854-V23	230
87	197	15 30	6,6	FT230-30	3880-V23	230
100	206	10 30	8,5	FT290	5849-V29	290
100	206	10 35	8,0	FT290-35	3881A-V29 SD5 1535	290
112	232	10 40	11,7	FT330	5855-V33	330
134	239	10 45	16,7	FT390	3882A-V39 SD8 1545	390
146	289	10 50	23,9	FT430	8801-V43 SD9 1550	430
161	299	10 60	28,7	FT510	5857A-V51	510
177	334	10 70	38,6	FT590	3858-V59	590
244	462	10 80	59,5	FT610	5898-V61	610
232	464	10 80	75,0	FT690	5898-V69	690
285	608	10 90	120,9	FT710	2837-V71	710
285	608	10 100	119,0	FT710-100	5897-V71	710
368	635	10 120	176,6	FT810	3869B-V81	810



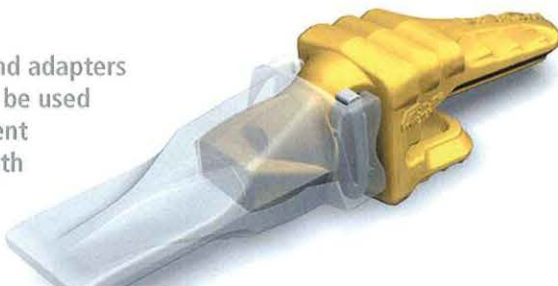
X

Key to part numbers

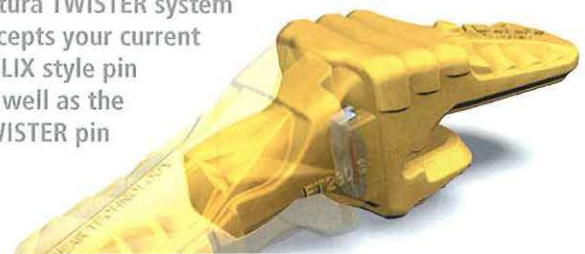
F	T	330	R	P	L
Brand	Type	Size	Version	Rock Penetration	Light



TWISTER pin and adapters are suitable to be used with your current HELIX style teeth



Futura TWISTER system accepts your current HELIX style pin as well as the TWISTER pin

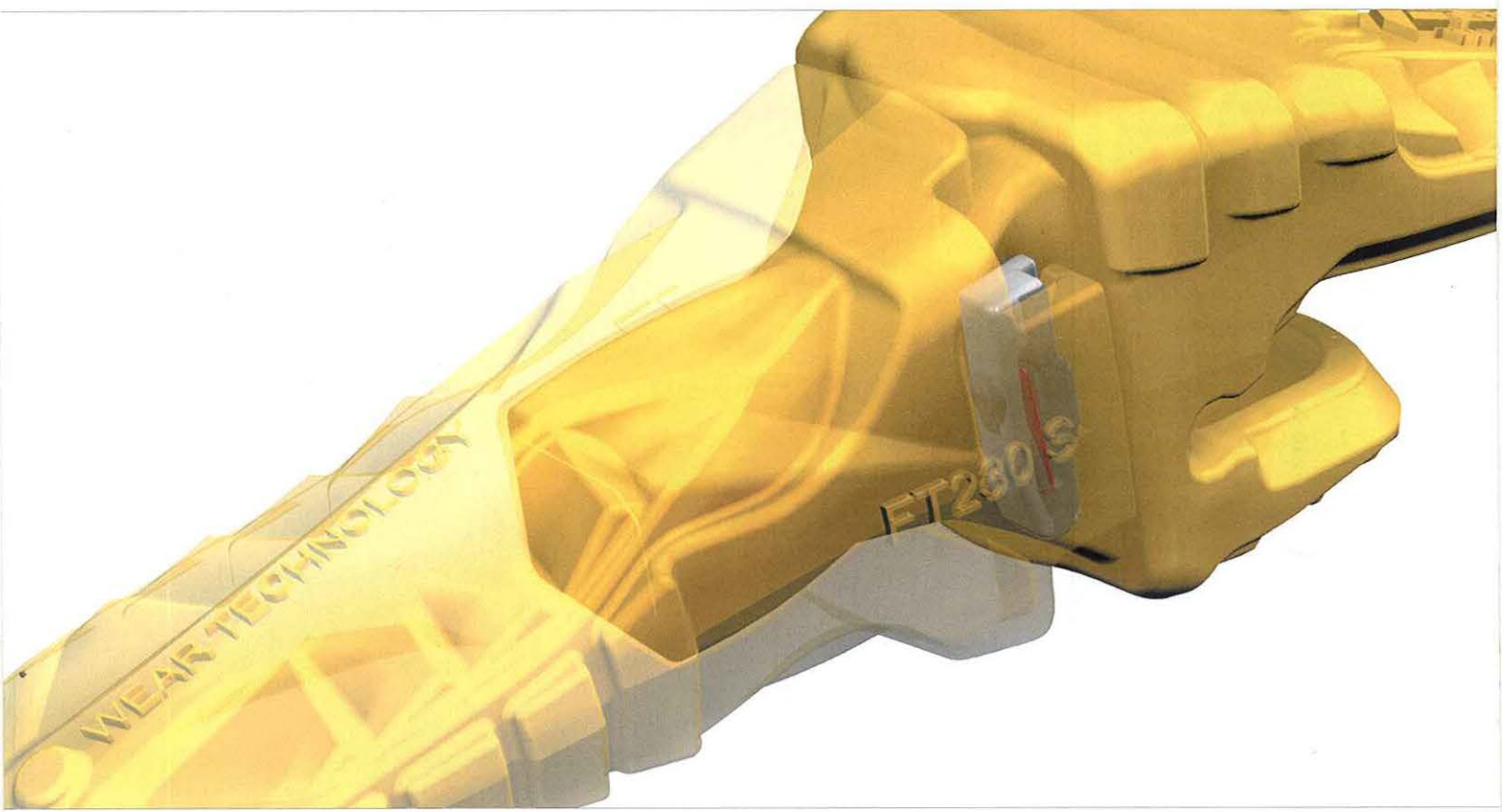




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Head office
El Pla 45, Polígono El Pla
08750 Molins de Rei, SPAIN
tel +34 936 804 901
fax +34 936 805 899
enquiries@byg.com