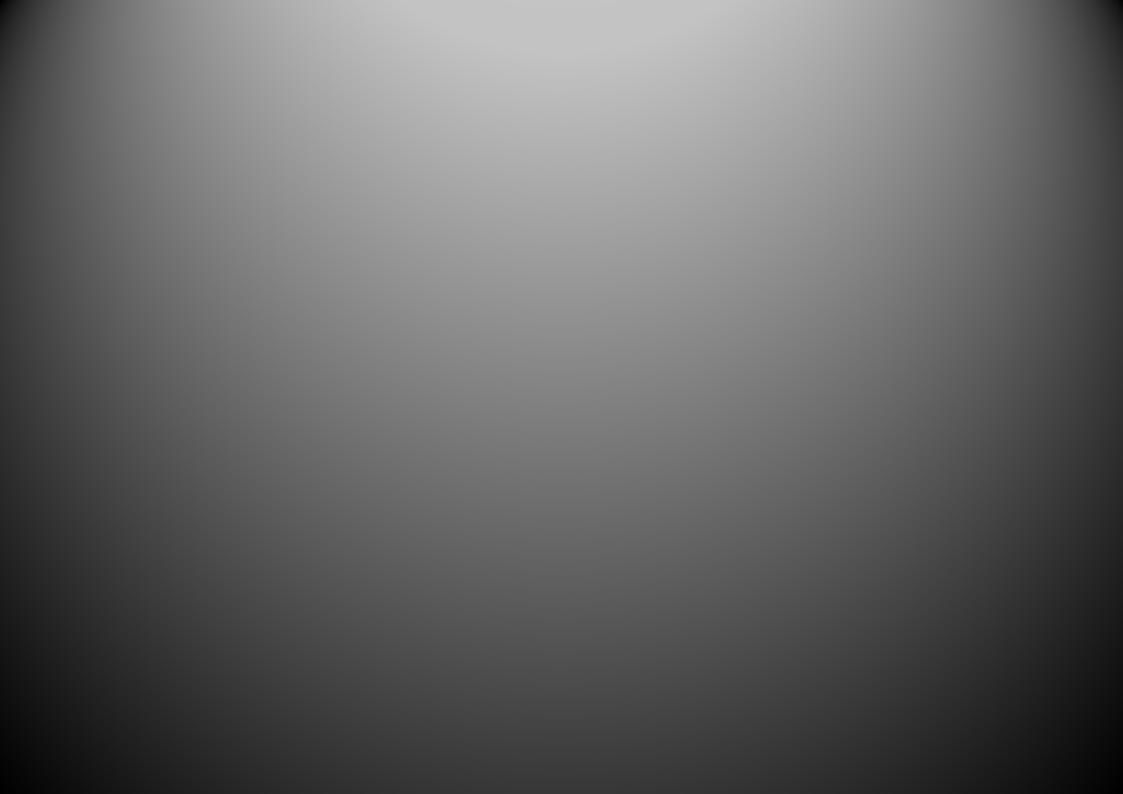


MINING PRODUCTS



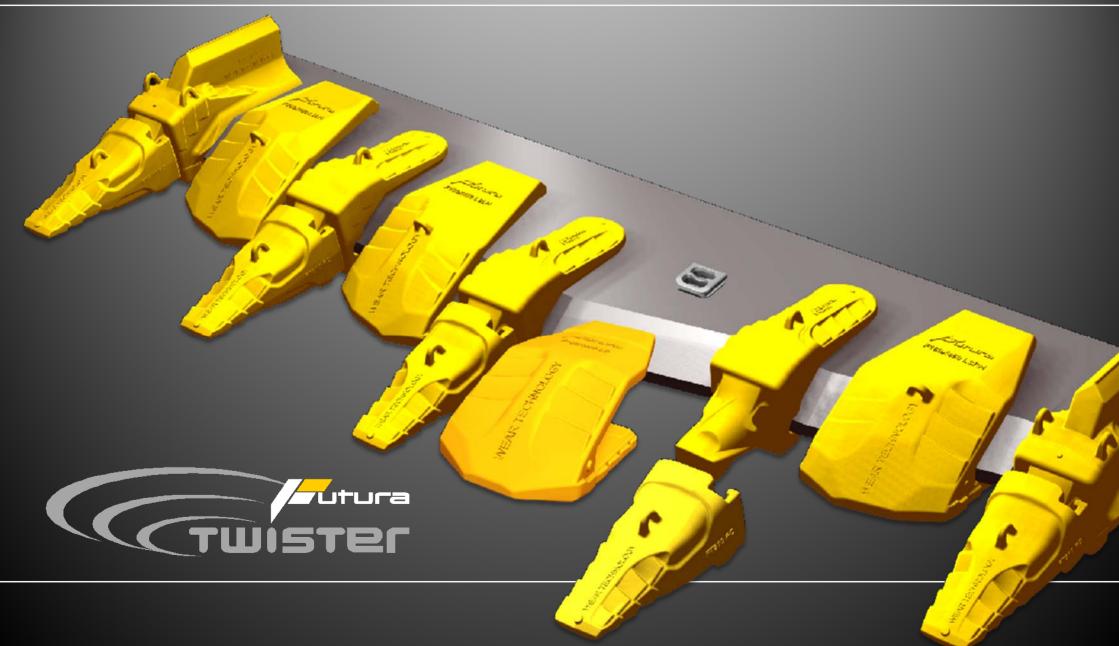
FUTURA HAMMERLES Side pin teeth & adapters up to 120 TON Machines



Direct replacement hammerless solutions



FUTURA TWISTER. Mining teeth & adapters up to 250 TON Machines





FUTURA TWISTER parts are suitable to be used with your current HELIX style teeth and adapters ✓





Futura Twister Sizes and Uses

	130	170	190	230	290	330	390	430	510	590	610	690	710	810
TWISTER Sizes	Ligh Cons	t structi	on		Constr	uction		Hea Cor	avy istructi	ion		Minin	g	

	130	170	190	230	290	330	390	430	510	590	610	690	710	810
Standard	5,9	8,7	11,5	16,7	25,0	33,8	46,9	63,6	81,2	103,7	144,1	248,4	345,1	
HD	4,5	6,8	8,9	12,9	19,5	25,0	33,4	46,9	63,6	81,2	103,7	136,4	211,3	
ST/HD	4,4	7,1	10,0	15,7	21,7	29,4	39,9	53,3	67,4	88,8	119,9	188,0	270,5	402,2
Extra HD	3,4	5,4	7,6	12,0	16,3	22,1	30,2	39,9	53,3	67,4	88,8	129,9	188,0	275,2
ST/HD									62,2	82,9	110,0	161,1	218,5	334,5
Extra HD									48,6	62,2	82,9	120,4	161,1	231,9
										on	y with	TWISTE	R Pin	

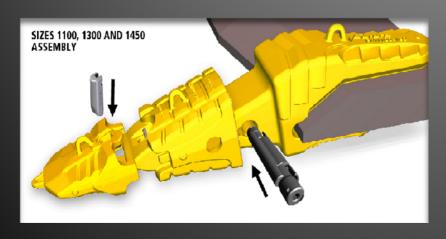




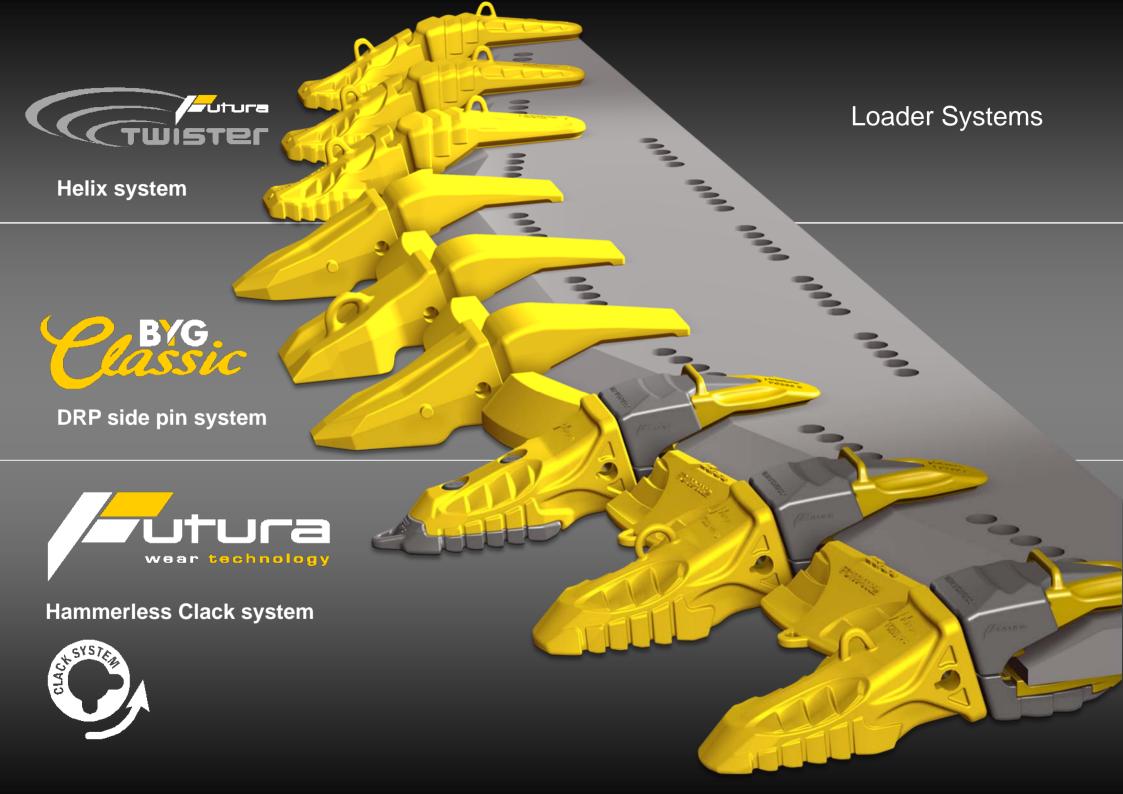
Hammerless system up to 350 - 800 TON Machines



Machine weight up to 325 Tn size BOF 139,1 Tn 950 up to 400 Tn size BOF 171,1 Tn 1100 up to 500 Tn size BOF 252,6 Tn 1300 up to 800 Tn size BOF 342,2 Tn 1450









Futura Bucket Protection







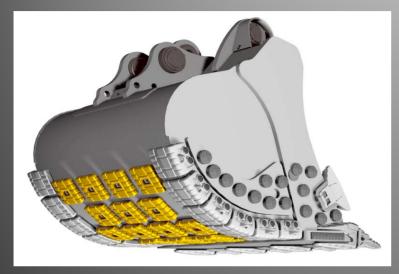




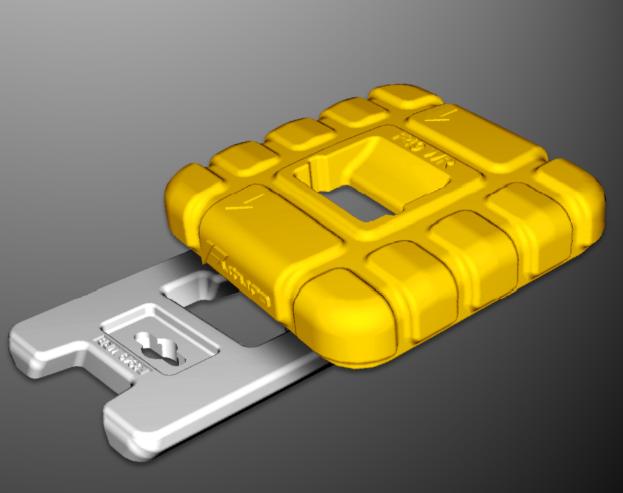




Wear runners: mechanically attached 500HB

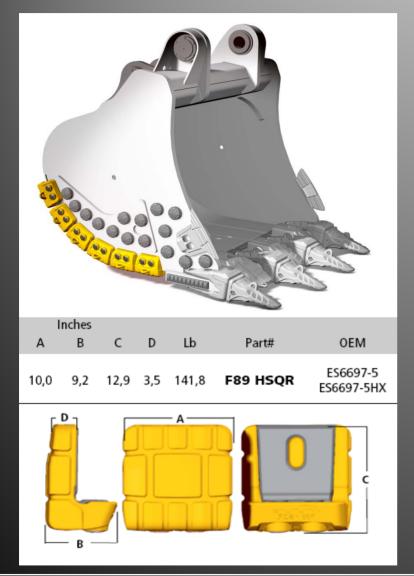


	nches				
A	В	С	Lb	Part#	OEM
10,1	2,3	10,1	50,4	F59 WR	KLR01MB
10,1	3,1	10,1	68,9	F79 WR	KLR02MB B10X10WR275
	c	5			





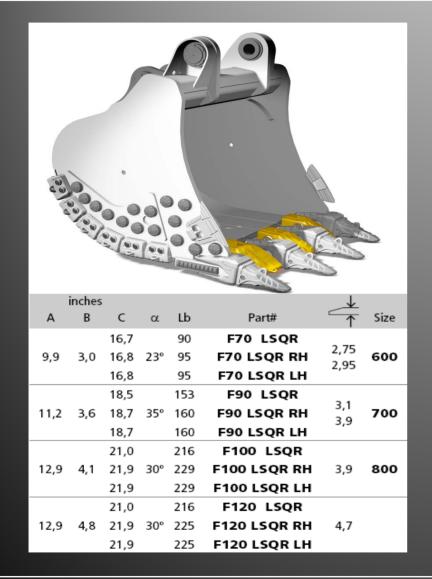
Heel shrouds: mechanically attached 500HB







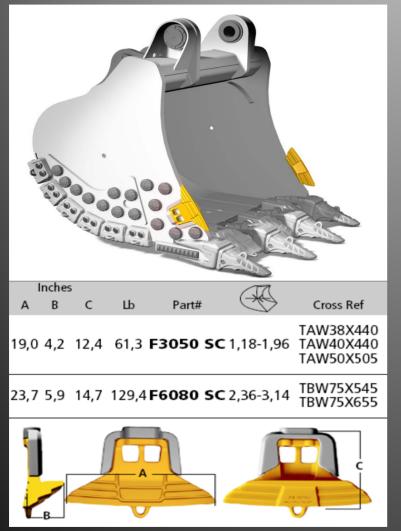
Lip shrouds: mechanically attached 500HB







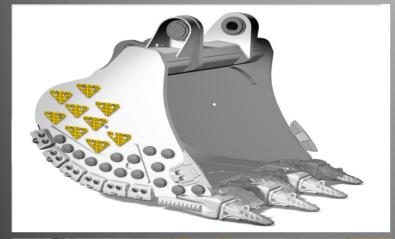
Side cutters: mechanically attached 500HB

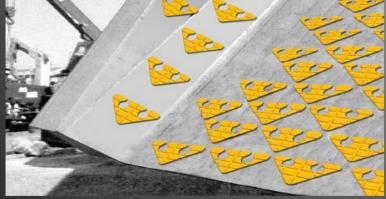




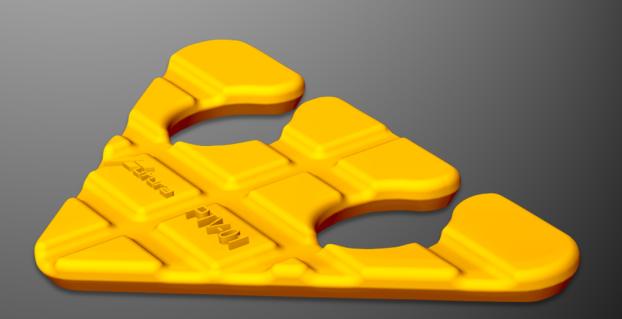


Wear pads: weld-on protection pads





Extended wear life of the surface where placed







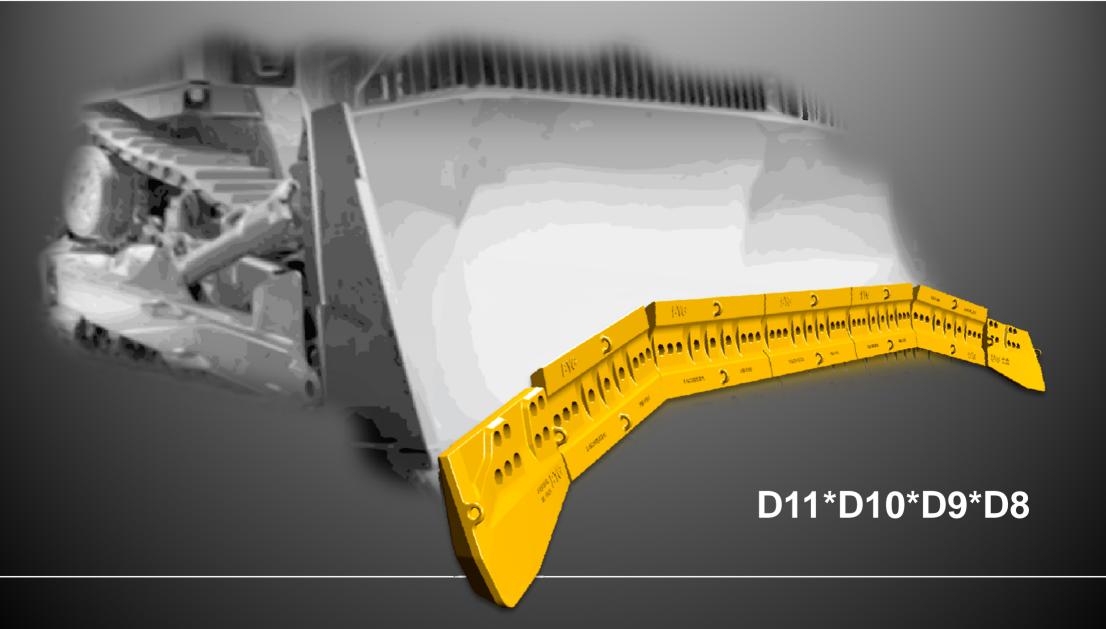


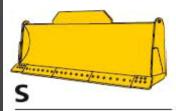




FUTURA chocky bars & wear buttons are manufactured with 20% more wear material

Cast edges and end bits

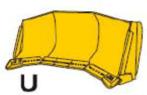




STRAIGHT

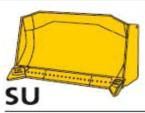
A good dozer blade knife for most dozer applications. Available for most machines.

Dozer types



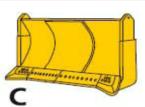
UNIVERSAL

Straight blade with heavy loads over long distances. Available for larger models.



SEMI-U

A small straight dozer blade with end bits, to provide better load carring medium to large machine.



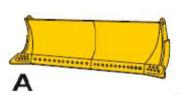
CUSHION

Relatively narrow blade. Wears a brace to push other equipment as scrapers.



POWER bucket and tilt angle (dump)

A versatile blade. Available for D6 and smaller machines.



ANGLE

An economical blade for light and medium designed for the D8 and smaller machines, which require an ability to push to the side.

STD

General Use

IMP HC Blades for general use available in different thicknesses to suite the work being done.



Standard Profile

Esco Style

Esco Style Blades

For use in high abrasion and / or high impact.

They Are notably reinforce, providing greater resistance to breakage.



Profile type Cast Esco





UT FD

Utility

UT are for normal conditions to abrasive.
They have a low initial cost.

ED copy for grading and finishing custom

FD serve for grading and finishing system. Earthmoving works. For lightly abrasive materials.

5 main options for DRP Caterpillar corners



IMP HC

Utility

IMP HC End bits are used for moving earth and normal materials.



GD

General Service

For general use. They are used for earthmoving works, Diverse material, Edge of reinforced penetration.



EWL

Extra Wear Life

High production leveling. Debris removal. Ripping of land. For abrasive conditions.



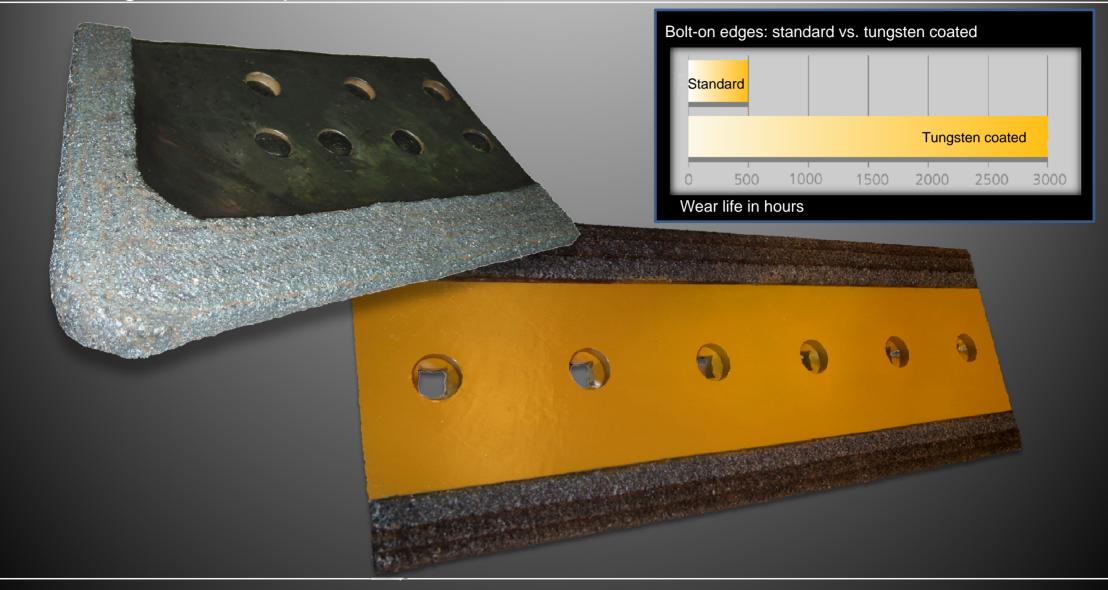
*Esco ® Style

For use in high abrasion and / or high impact.

They Are notably reinforced in its perimeter and with a reinforcing rib to the tip providing greater resistance to breakage.



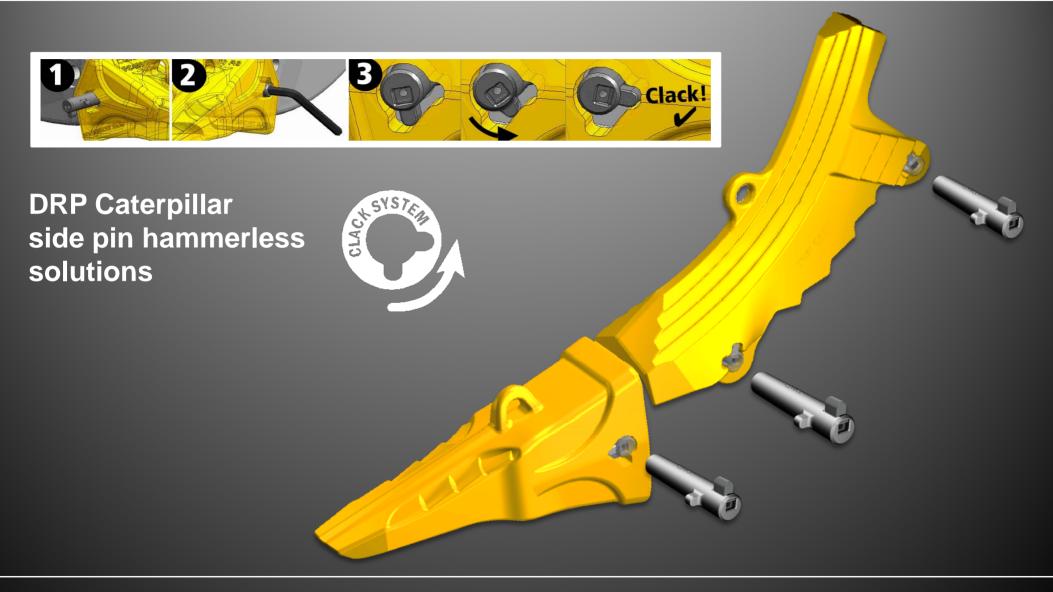
Tungsten coated products



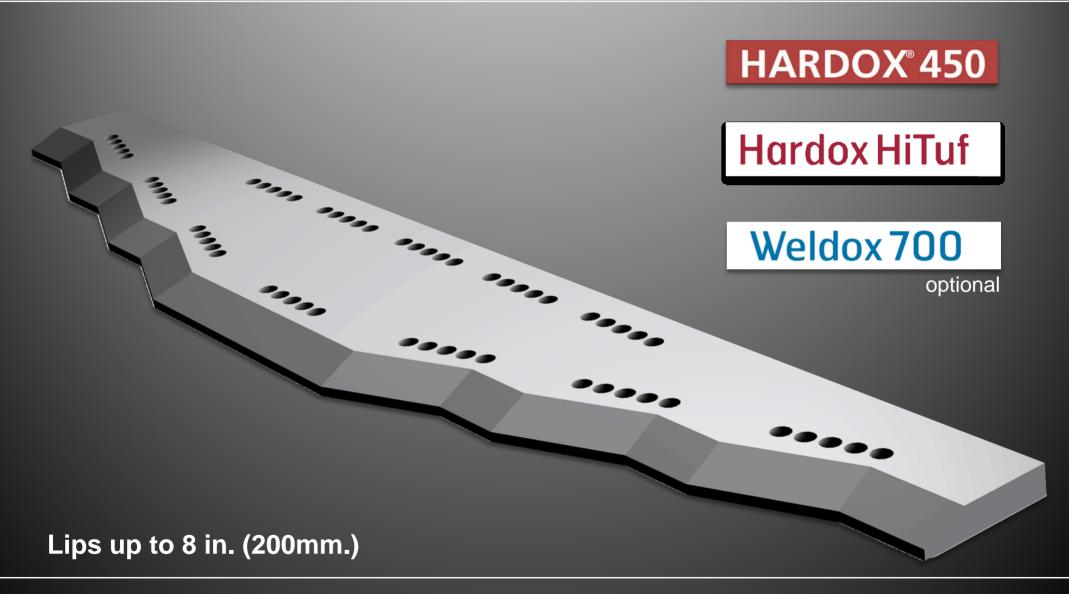
One-piece fabricated ripper shanks



Hammerless Ripper solutions



Fabricated steel lips for excavators and loaders

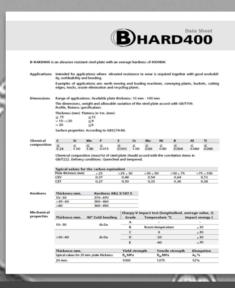


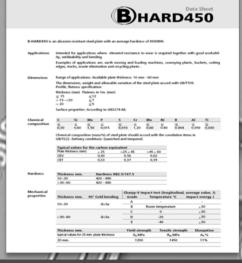


Wear Plates



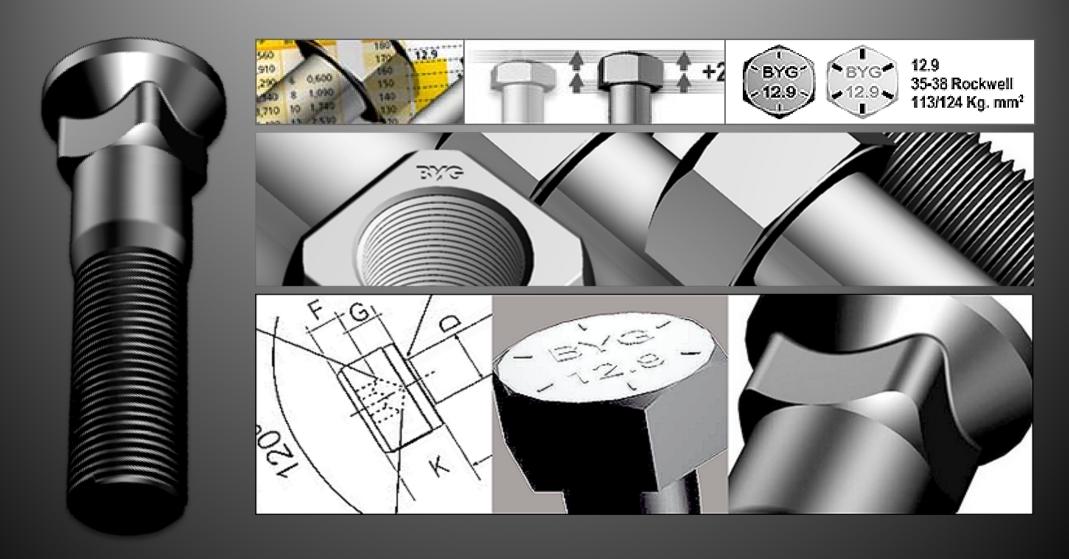






				(9)ŀ	1/	۱R	D	50	0			
B-HARDSOO is	an abrasio	n resistar	st steel j	plate with an	average	hardnes	is of 500	Hew.						
Applications	Intended for applications where elevated resistance to wear is required. Examples of applications are: earth moving and loading machines, conveying plants, buckets, cutting													
				are: earth m ination and re			ing mad	hines, con	weying pla	nts, buck	cets, cutting			
Dimensions				uilable plate										
		The dimensions, weight and allowable variation of the steel plate accord with GB/T709. Profile, flatness specification:												
	thickness (mm) Flatness in 1m, (mm) ≤ 15 > 15—20 ≤ 12													
	a 20 s.9 Surface properties: According to GB3274-Mt.													
Chemical			Mo											
Chemical	€ ≤	54	Mn	-	•	Cr S	Me ≤ 1.00	Ni ≤ 1.20	•	Al S	n			
	Chemical composition (mass/h) of steel plate should accord with the correlation items in GB/T222. Belivery conditions: Quenched and tempered.													
	Plate the	Chaess (m)	n)	carbon equiv	>25 ×	50								
	CEV			0,46	0,64									
	CET			0,38	0,3	9								
Hardness	Thickness mm. Hardness HB2.5/187.5 10-30 470-540													
	>30-5)	470											
Mechanical						Charpy-V impact test (longitudinal, average value, J)								
properties	Thickness mm. 90° (Cold bending	6	Grade		Temperature "C		mpact e	nergy J				
	10-30			d=3a			Boom	temperat			20			
						C ROOM		om temperature			20			
	>30-5			4-34				-20			20			
	>20-20 B134					ŧ		-40		,29				
	Thickn	ess mm.			Yie	Yield strength		Tensile strength		Elongation				
				ate thickness		F _q MPa		F _m MPa		A ₆ %				

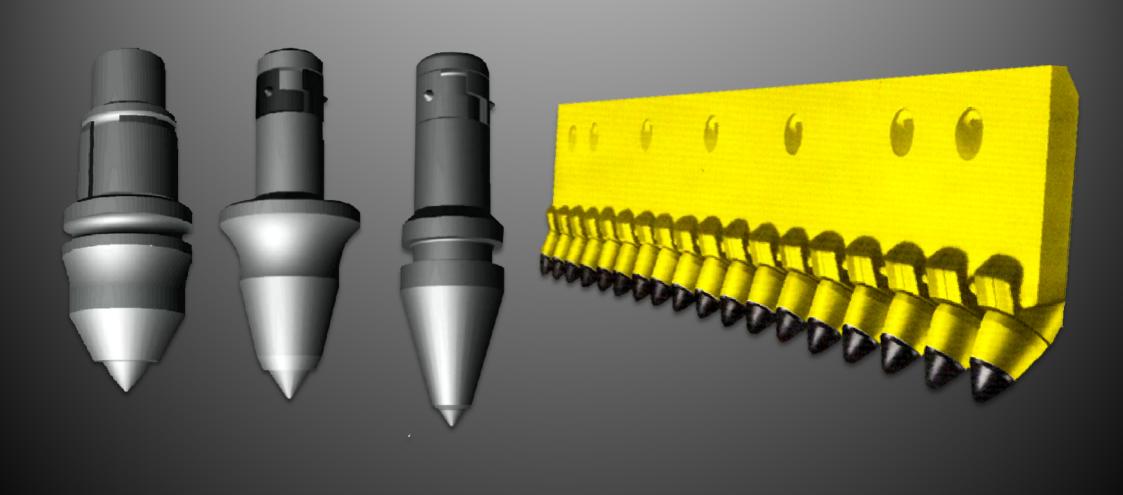
Fasteners Quality 12.9



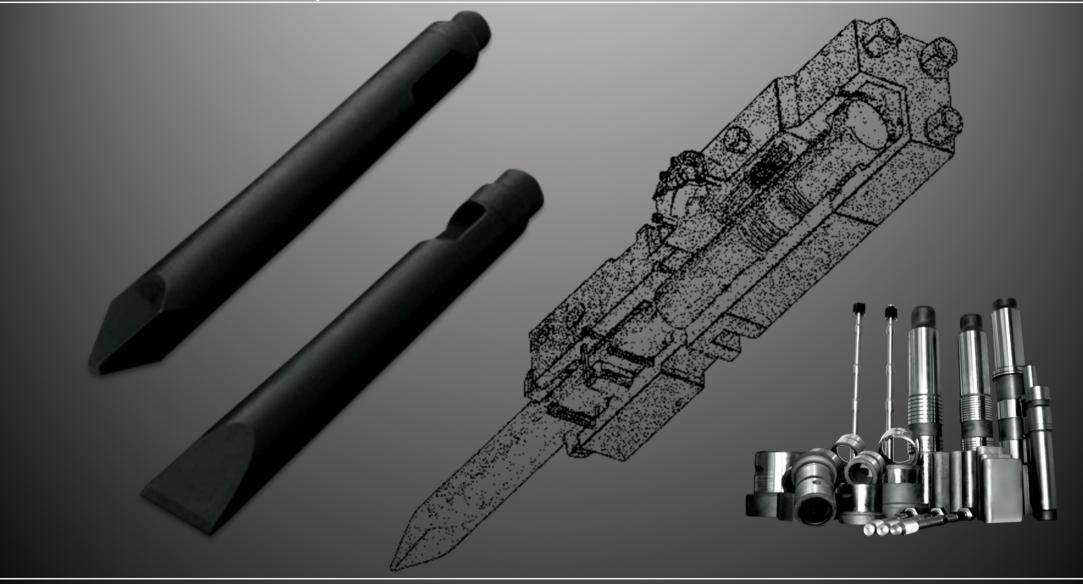
Special mining undercarriage



Special mining cutting tools



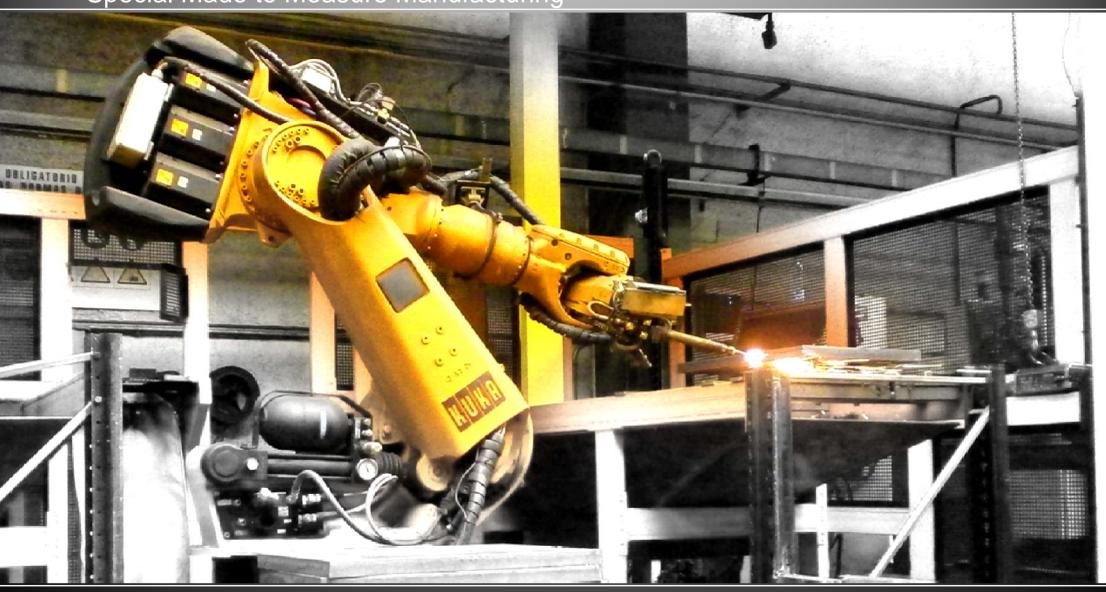
Parts and tools for hydraulic breaker



Value Added Services



Special Made to Measure Manufacturing



R&D: In House Engineering Department



ISO Certified Company





CERTIFICATE

EC-5448/10

EC-5448/10

LGAI Technological Center, S.A. certifies that the Quality Management System of the organization:

BYG, S.A.

El Pla 45 - Poligono El Pla E-08750 MOLINS DE REY, Barcelona

For the following activities:

 Design, marketing and distribution of parts for original equipment manufacturers of earth moving and mining machinery,

is in accordance with the requirements of the standard



ISO 9001:2008 This certificate is valid until May 21, 2013



