

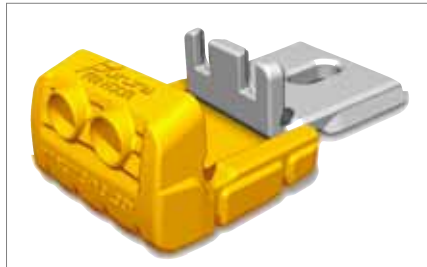


High Performance Wear Parts



Futura Wear Technology

A complete engineered range for perfect performance in all applications (light construction, heavy abrasion & mining) that fulfils all your requirements and expectations ✓



Economy

Hammerless System

FUTURA offers a range of universal hammerless locking systems that improve safety and make tooth/parts change-outs quick and easy ✓



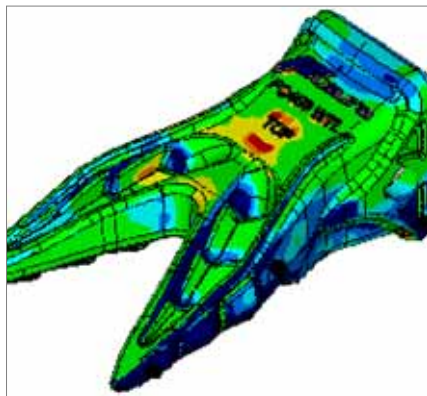
Performance

Innovative Solutions

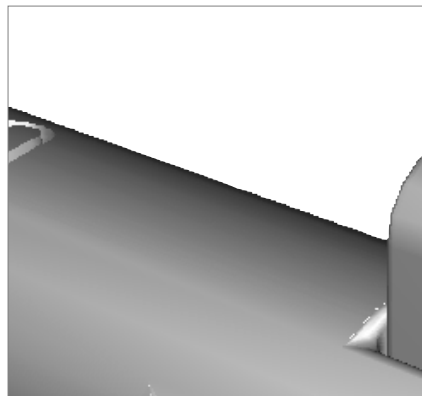
FUTURA teeth, adapters & bucket protection parts feature an innovative design that helps increase the life of each part & improves its efficiency for every application ✓



Productivity



Engineering

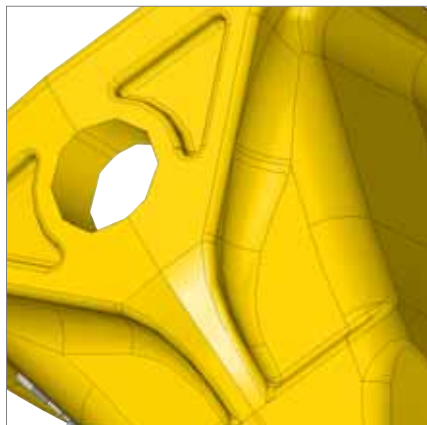


Safety



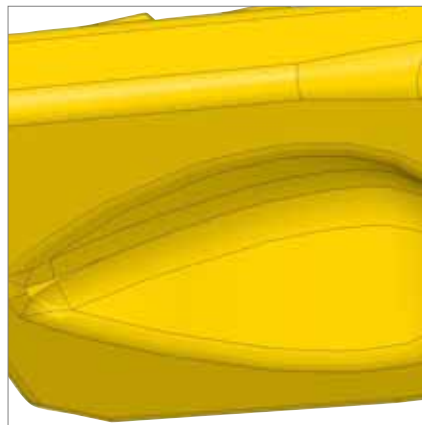
Efficiency

Design Features



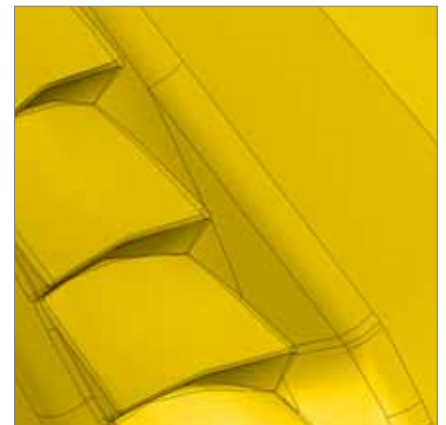
Lateral Ribs

Lateral ribs reinforce the teeth box and protect pin ✓ Minimizes pocket breakage ✓



Underside Pocket

Maintains tooth point sharpness without compromising point integrity ✓



Ribbed Sections

Optimized penetration and material flow ✓ Ribbed sections improve self-sharpening effect ✓ Ribbed sections increase total tooth wear life. The FUTURA shaping is engineered wear pattern technology ✓

FUTURA Alloy: Chemical Composition

Continuous quality control in the casting produce a part free of defects. A superior high strength wear steel chemistry ensures 500HB tough hardness.

Manganese, Chrome, Molybdenum and Silicon: Superior strength and toughness and resistance to impact, Carbon and Nickel: hardness and impact strength.

Analysis % Mechanical properties (Room temperature 20°C)

| C | Mn | Si | S | P | Cr | Mo | Ni | Re | Hardness | Impact strength V Notch |
|------|------|------|--------|--------|------|------|-------|------|----------|--------------------------------------|
| 0.25 | 0.50 | 1.00 | | | 1.40 | | | 0.10 | | akv _≥ 24J/cm ² |
| 0.31 | 1.10 | 1.40 | ≤0.035 | ≤0.035 | 1.80 | ≤0.3 | ≤0.30 | 0.25 | HRC48-52 | |

Proven Performance

Raised central ribs, lateral ribs and recessed pocket help material flow, **significantly extend tooth wear life** and increase sharpness properties providing better tooth penetration, **maintaining sharpness without reducing tooth resistance.**

More than 89% of wear steel is consumed on FUTURA worn teeth compared to new ones.

Thanks to its optimal design more than **68% of steel** has been used without losing teeth sharpness ✓

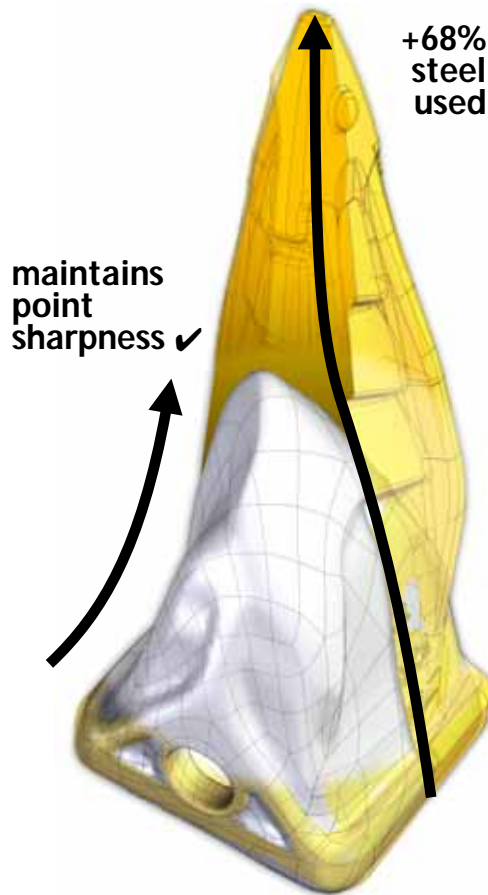
FUTURA teeth are generally heavier than other competitor's teeth in the same category size and models. The **additional steel** has been added in key areas where the tooth is subject to wear ✓

FUTURA RANGE has approximately 20% more usable wear material than other similar systems in the market.

It is not just the length of the tooth or the percentage over the total weight. What really counts is the total wear material weight. You can find high ratios, but less weight means fewer cycles achieved. **FUTURA teeth last many more cycles** ✓

We have added more material on bottom lateral ribs and around the box section providing superior penetration shape and maintaining pocket integrity.

Self-sharpening Design



Competitive Price



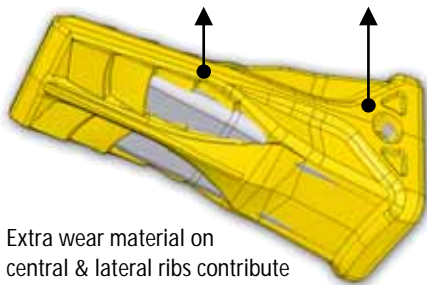
Engineered wear technology at an affordable price

DRP Teeth & Adapters for:

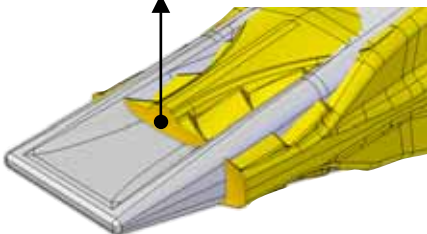
| | |
|---------------------------------|-------|
| Adco | p. 21 |
| Caterpillar | p. 04 |
| Esco | p. 12 |
| Fiat Hitachi | p. 18 |
| Hensley Parabólico | p. 19 |
| H&L | p. 20 |
| John Deere | p. 21 |
| Kobelco | p. 23 |
| Komatsu | p. 22 |
| Mini | p. 18 |
| Tata Hitachi | p. 18 |
| Volvo | p. 23 |
| Futura MINING | p. 13 |
| Futura TWISTER | p. 14 |
| Futura BUCKET PROTECTION | p. 24 |

FUTURA tooth vs. STANDARD tooth

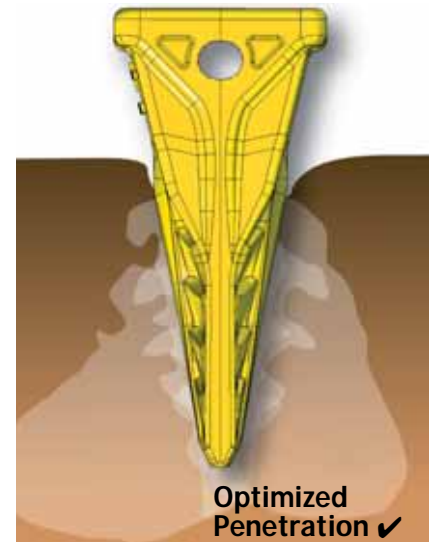
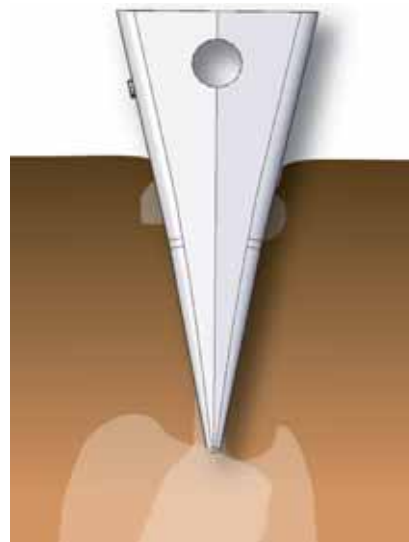
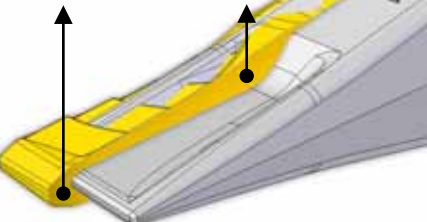
Extended lateral ribs maintain penetration shape, reinforce box strength & protect pin ✓



Extra wear material on central & lateral ribs contribute to self-sharpening effect ✓



Extra wear material on tooth tip and central rib ✓



| 1U-3252 | |
|-----------------------|-------------------|
| Wear factor | ●●●● |
| Penetration | ●●●● |
| Impact | ●●●● |
| Total Weight | 2,90 Kg. 6,38 Lbs |
| Wear Weight | 1,25 Kg. 2,75 Lbs |
| Estimated Wear Length | 57% |
| Estimated Wear Weight | 43% |

| FC250 SYL | |
|-----------------------|-------------------|
| Wear factor | ●●●● |
| Penetration | ●●●● |
| Impact | ●●●● |
| Total Weight | 4,10 Kg. 9,02 Lbs |
| Wear Weight | 2,80 Kg. 6,16 Lbs |
| Estimated Wear Length | 60% |
| Estimated Wear Weight | 68% |



Hammerless Side Pin System HL2P

New System is 100% compatible with your current Cat style ripper shank ✓
Increased pin retention: the pins are securely locked in place. Rubber insert under locking tab allows the locking tab (fig. 3) to compress, rotate and lock ✓
Easy to install and remove with manual drive or ratchet wrench with hex drive socket. Each pin comes with a heavy duty "dirt" plug to keep fines out of the pin's socket ✓

Increased Safety
 Compared to standard pin & washers ✓
Compatible with OEM & OEM adapters ✓
 The FUTURA hammerless system works only with FUTURA teeth but is fully compatible with DRP Caterpillar side pin adapters ✓

new!



HL2P

Hammerless Side Pin System

| Part# | OEM pin | OEM washer | Size |
|-----------|----------|------------|------|
| FC300HL2P | 107-3308 | 8E-6259 | 30 |
| | 132-4766 | 3G-9609 | |
| | 9J-2308 | 149-5733 | |
| FC350HL2P | 8E-6358 | 8E-6359 | 35 |
| | 114-0358 | 3G-9548 | |
| | 9J-2358 | 114-0359 | |
| FC400HL2P | 7T-3408 | 8E-8409 | 40 |
| | 116-7408 | 116-7409 | |
| FC450HL2P | 8E-0468 | 8E-8469 | 45 |
| | 114-0468 | 107-3469 | |
| FC550HL2P | 6Y-8558 | 8E-5559 | 55 |
| | 107-3378 | 3G-9559 | |
| | 1U-1558 | 107-8559 | |
| FC600HL2P | 6I-6608 | 6I-6609 | 60 |
| | 113-9608 | 113-9609 | |
| FC700HL2P | 4T-4708 | 4T-4707 | 70 |
| | 113-4708 | 113-4709 | |
| FC800HL2P | 134-1808 | 101-2874 | 80 |
| | 102-0101 | 134-1809 | |



HAMMERLESS Side Pin Teeth

Models and sizes

| LOADER / EXCAVATOR | | | | | | | | LOADER | | | | | | | | EXCAVATOR | | | | | | | | Size |
|--------------------|---------|---------|-----------|----------|------------|-------------|--------------|-----------|---------|----------|-----------|-----------|---------|----------|----------|-----------|----|--|--|--|--|--|--|------|
| L | U | F | RPL | RP | RPHD | RPHD2 | RPHD2C | SYL | I | TL | WTL | WTS | WTP | P | RE | RC | | | | | | | | |
| FC200 L | FC200 U | FC200 F | FC200 RPL | | | | | FC200 SYL | | FC200 TL | FC200 WTL | | | FC200 P | FC200 RE | FC200 RC | 20 | | | | | | | |
| FC220 L | | | | | | | | | | | | | | | | | 22 | | | | | | | |
| FC250 L | FC250 U | FC250 F | FC250 RPL | FC250 RP | | | | FC250 SYL | | FC250 TL | FC250 WTL | | | FC250 P | FC250 RE | FC250 RC | 25 | | | | | | | |
| FC300 L | FC300 U | FC300 F | FC300 RPL | FC300 RP | | | | FC300 SYL | | FC300 TL | FC300 WTL | | | FC300 P | FC300 RE | FC300 RC | 30 | | | | | | | |
| FC350 L | FC350 U | FC350 F | FC350 RPL | FC350 RP | | | | FC350 SYL | FC350 I | FC350 TL | FC350 WTL | FC350 WTS | | FC350 P | FC350 RE | FC350 RC | 35 | | | | | | | |
| FC400 L | | FC400 F | FC400 RPL | FC400 RP | FC400 RPHD | | | FC400 SYL | | FC400 TL | FC400 WTL | | | FC400 P | FC400 RE | FC400 RC | 40 | | | | | | | |
| FC450 L | FC450 U | FC450 F | FC450 RPL | FC450 RP | FC450 RPHD | FC450 RPHD2 | FC450 RPHD2C | FC450 SYL | FC450 I | FC450 TL | FC450 WTL | FC450 WTS | | FC450 P | FC450 RE | FC450 RC | 45 | | | | | | | |
| FC550 L | | FC550 F | FC550 RPL | FC550 RP | FC550 RPHD | FC550 RPHD2 | FC550 RPHD2C | FC550 SYL | FC550 I | FC550 TL | FC550 WTL | FC550 WTP | FC550 P | FC550 RE | FC550 RC | | 55 | | | | | | | |
| FC600 L | | | FC600 RPL | FC600 RP | FC600 RPHD | FC600 RPHD2 | FC600 RPHD2C | FC600 SYL | | FC600 TL | FC600 WTL | FC600 WTP | FC600 P | FC600 RE | FC600 RC | | 60 | | | | | | | |
| | | | | FC700 RP | FC700 RPHD | FC700 RPHD2 | FC700 RPHD2C | | | FC700 TL | FC700 WTL | | FC700 P | FC700 RE | FC700 RC | | 70 | | | | | | | |
| | | | | FC800 RP | FC800 RPHD | FC800 RPHD2 | FC800 RPHD2C | | | | | | FC800 P | FC800 RE | FC800 RC | | 80 | | | | | | | |

Universal Teeth: the one-for-all Futura solution

| Kg | Lb | Part# | OEM | Size |
|------|----|---------|---------|------|
| 3,2 | 7 | FC250 U | 1U-3252 | 25 |
| 4,0 | 9 | FC300 U | 1U-3302 | 30 |
| 6,1 | 13 | FC350 U | 1U-3352 | 35 |
| 10,7 | 24 | FC400 U | 9W-8452 | 40 |



new!



Wear factor



Penetration



Impact



Key to part numbers

| | | | | |
|----------|----------|------------|----------|------------------|
| F | C | 350 | R | E |
| Brand | Type | Size | Version | Rock Exploder |

DRP Caterpillar: Loader | Excavator Teeth

L

Long



| Kg | Lb | Part# | OEM | Size |
|------|----|---------|---------|------|
| 1,6 | 4 | FC200 L | 1U-3202 | 20 |
| 2,1 | 5 | FC220 L | 6Y-3222 | 22 |
| 3,4 | 7 | FC250 L | 1U-3252 | 25 |
| 4,5 | 10 | FC300 L | 1U-3302 | 30 |
| 7,1 | 16 | FC350 L | 1U-3352 | 35 |
| 8,6 | 19 | FC400 L | 7T-3402 | 40 |
| 13,3 | 29 | FC450 L | 9W-8452 | 45 |
| 20,6 | 45 | FC550 L | 9W-8552 | 55 |
| 31,0 | 68 | FC600 L | 6I-6602 | 60 |



F

Flare



| Kg | Lb | Part# | OEM | Size |
|------|----|---------|---------------------|------|
| 1,5 | 3 | FC200 F | 109-9200 | 20 |
| 3,9 | 9 | FC250 F | 3G-8250 | 25 |
| 6,8 | 15 | FC300 F | 4T-1300 107-3300 | 30 |
| 9,3 | 20 | FC350 F | 8J-3350 107-3350 | 35 |
| 12,8 | 28 | FC400 F | 7T-3400 107-3400 | 40 |
| 18,5 | 41 | FC450 F | 8J-1450 107-3450 | 45 |
| 28,8 | 63 | FC550 F | 7J-9550 107-3550 | 55 |

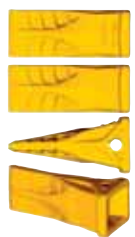


SYL

Symmetric



| Kg | Lb | Part# | OEM | Size |
|------|----|-----------|-------------------------|------|
| 2,0 | 4 | FC200 SYL | 1U-3202 SYL | 20 |
| 4,1 | 9 | FC250 SYL | 1U-3252 SYL | 25 |
| 5,8 | 13 | FC300 SYL | 1U-3302 SYL 183-5300 | 30 |
| 8,0 | 18 | FC350 SYL | 1U-3352 SYL 168-1359 | 35 |
| 15,4 | 34 | FC400 SYL | 8E-4402 SYL 168-1409 | 40 |
| 17,0 | 37 | FC450 SYL | 9W-8452 SYL 159-0459 | 45 |
| 26,5 | 58 | FC550 SYL | 9W-8552 SYL 159-0559 | 55 |
| 40,6 | 89 | FC600 SYL | 159-0607 | 60 |



DRP Caterpillar Loader Teeth



| Kg | Lb | Part# | OEM | Size |
|------|----|-----------|---------|------|
| 1,9 | 4 | FC200 RPL | 4T-2203 | 20 |
| 3,8 | 8 | FC250 RPL | 9N-4252 | 25 |
| 6,0 | 13 | FC300 RPL | 9N-4302 | 30 |
| 8,5 | 19 | FC350 RPL | 9N-4352 | 35 |
| 11,5 | 25 | FC400 RPL | 8E-4402 | 40 |
| 17,9 | 39 | FC450 RPL | 9N-4452 | 45 |
| 22,0 | 48 | FC550 RPL | 9N-4552 | 55 |
| 38,8 | 85 | FC600 RPL | 7Y-0602 | 60 |



| Kg | Lb | Part# | OEM | Size |
|------|-----|----------|-----------------------|------|
| 5,9 | 13 | FC250 RP | 4T-2253 RP | 25 |
| 8,4 | 18 | FC300 RP | 4T-2303 RP | 30 |
| 11,7 | 26 | FC350 RP | 4T-2353 RP | 35 |
| 16,1 | 35 | FC400 RP | 7T-3403 RP | 40 |
| 24,0 | 53 | FC450 RP | 9W-1453 RP | 45 |
| 29,0 | 64 | FC550 RP | 9W-1553 RP 6Y-2553 | 55 |
| 51,7 | 114 | FC600 RP | 6I-6603 RP | 60 |
| 65,2 | 143 | FC700 RP | 4T-4703 RP | 70 |



| Kg | Lb | Part# | OEM | Size |
|-------|-----|------------|----------|------|
| 19,3 | 42 | FC400 RPHD | 13S-9400 | 40 |
| 27,9 | 61 | FC450 RPHD | 138-6451 | 45 |
| 33,4 | 73 | FC550 RPHD | 138-6552 | 55 |
| 60,5 | 133 | FC600 RPHD | 13S-9600 | 60 |
| 74,1 | 163 | FC700 RPHD | 13S-9700 | 70 |
| 120,5 | 265 | FC800 RPHD | 13S-9800 | 80 |

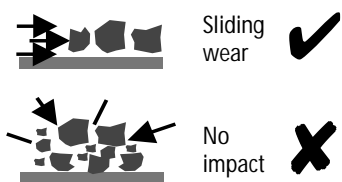


exclusive!

Original solution: enables the tip of the teeth (most subject to wear) to be replaced

Mechanical Properties

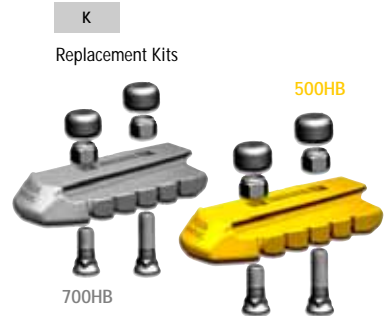
| | Hardness (HB) | Impact Resistance (FT-LB) -40°C | Tension (PSI) | Resistance (PSI) | Elasticity (%) | Reduction Area (%) |
|------------|---------------|---------------------------------|---------------|------------------|----------------|--------------------|
| Body | 460-530 | 25 | 240 | 200 | 7 | 18 |
| Shoe 700HB | 700 | 10 | 210 | 300 | 5 | 25 |
| Shoe 500HB | 460-530 | 25 | 240 | 200 | 7 | 18 |



| Kg | Lb | Part# | OEM | Size |
|-------|-----|--------------|----------|------|
| 27,1 | 60 | FC450 RPHD2C | 138-6451 | 45 |
| 33,2 | 73 | FC550 RPHD2C | 138-6552 | 55 |
| 58,7 | 129 | FC600 RPHD2C | 13S-9600 | 60 |
| 74,8 | 165 | FC700 RPHD2C | 13S-9700 | 70 |
| 117,4 | 258 | FC800 RPHD2C | 13S-9800 | 80 |



| Kg | Lb | Part# | OEM | Size |
|-------|-----|-------------|----------|------|
| 27,1 | 60 | FC450 RPHD2 | 138-6451 | 45 |
| 32,2 | 71 | FC550 RPHD2 | 138-6552 | 55 |
| 56,5 | 124 | FC600 RPHD2 | 13S-9600 | 60 |
| 74,5 | 164 | FC700 RPHD2 | 13S-9700 | 70 |
| 123,2 | 271 | FC800 RPHD2 | 13S-9800 | 80 |



| 500 HB kit | | 700 HB kit | | Size |
|----------------|--|----------------|--|------|
| FC450 RPHD2-5K | | FC450 RPHD2-7K | | 45 |
| FC550 RPHD2-5K | | FC550 RPHD2-7K | | 55 |
| FC600 RPHD2-5K | | FC600 RPHD2-7K | | 60 |
| FC700 RPHD2-5K | | FC700 RPHD2-7K | | 70 |
| FC800 RPHD2-5K | | FC800 RPHD2-7K | | 80 |

DRP Caterpillar Excavator teeth

RC

Rock Chisel



| Kg | Lb | Part# | OEM | Size |
|------|-----|----------|------------------------|------|
| 1,8 | 4 | FC200 RC | - | 20 |
| 4,2 | 9 | FC250 RC | - | 25 |
| 5,9 | 13 | FC300 RC | 1U-3302 RC 125-8309 | 30 |
| 8,8 | 19 | FC350 RC | 1U-3352 RC 119-9359 | 35 |
| 11,6 | 26 | FC400 RC | 7T-3402 RC 124-7409 | 40 |
| 17,7 | 39 | FC450 RC | 1U-3452 RC 116-7459 | 45 |
| 30,5 | 67 | FC550 RC | 1U-3552 RC 113-0559 | 55 |
| 40,6 | 89 | FC600 RC | 6I-6602 RC 119-9609 | 60 |
| 57,2 | 126 | FC700 RC | 4T-4702 RC | 70 |
| 81,5 | 179 | FC800 RC | - | 80 |



RE

Rock Explorer



| Kg | Lb | Part# | OEM | Size |
|------|-----|----------|------------------------|------|
| 5,6 | 12 | FC300 RE | 1U-3302 RC 125-8309 | 30 |
| 8,6 | 19 | FC350 RE | 1U-3352 RC 119-9359 | 35 |
| 10,8 | 24 | FC400 RE | 7T-3402 RC 124-7409 | 40 |
| 15,8 | 35 | FC450 RE | 1U-3452 RC 116-7459 | 45 |
| 28,1 | 62 | FC550 RE | 1U-3552 RC 113-0559 | 55 |
| 47,0 | 103 | FC600 RE | 6I-6602 RC 119-9609 | 60 |
| 55,0 | 121 | FC700 RE | 4T-4702 RC | 70 |



I

Impact



| Kg | Lb | Part# | OEM | Size |
|------|----|---------|--------------------|------|
| 5,2 | 11 | FC300 I | - | 30 |
| 7,1 | 16 | FC350 I | 1U-3351 | 35 |
| 14,4 | 32 | FC450 I | 9W-8451 1U-3451 | 45 |
| 21,6 | 48 | FC550 I | 9W-8551 1U-3551 | 55 |



P

Penetration



| Kg | Lb | Part# | OEM | Size |
|------|-----|---------|----------|------|
| 1,4 | 3 | FC200 P | 1U-3209 | 20 |
| 3,2 | 7 | FC250 P | 9J-4259 | 25 |
| 4,1 | 9 | FC300 P | 9J-4309 | 30 |
| 6,5 | 14 | FC350 P | 9J-4359 | 35 |
| 9,7 | 21 | FC400 P | 6Y-7409 | 40 |
| 13,1 | 29 | FC450 P | 9W-8459 | 45 |
| 17,9 | 39 | FC550 P | 9W-8559 | 55 |
| 27,3 | 60 | FC600 P | 7I-7609 | 60 |
| 37,4 | 82 | FC700 P | 4T-4709 | 70 |
| 54,8 | 121 | FC800 P | 117-6809 | 80 |



TL

Tiger Long



| Kg | Lb | Part# | OEM | Size |
|------|----|----------|------------------------|------|
| 1,2 | 3 | FC200 TL | 1U-3202 TL 9W-8209 | 20 |
| 2,6 | 6 | FC250 TL | 1U-3252 TL 9W-8259 | 25 |
| 3,7 | 8 | FC300 TL | 1U-3302 TL 9W-8309 | 30 |
| 6,2 | 14 | FC350 TL | 1U-3352 TL 9W-8359 | 35 |
| 10,3 | 23 | FC400 TL | 7T-3402 TL 6Y-5409 | 40 |
| 12,8 | 28 | FC450 TL | 1U-3452 TL 7I-8459 | 45 |
| 17,5 | 39 | FC550 TL | 1U-3552 TL 9W-6559 | 55 |
| 31,0 | 68 | FC600 TL | 6I-6602 TL 107-8609 | 60 |
| 44,0 | 97 | FC700 TL | 4T-4702 TL | 70 |



WTL

Twin Tiger Long



| Kg | Lb | Part# | OEM | Size |
|------|-----|-----------|-------------------------|------|
| 1,8 | 4 | FC200 WTL | 1U-3202 WTL 135-8208 | 20 |
| 4,0 | 9 | FC250 WTL | 1U-3252 WTL 135-8258 | 25 |
| 5,6 | 12 | FC300 WTL | 1U-3302 WTL 135-9308 | 30 |
| 8,5 | 19 | FC350 WTL | 1U-3352 WTL 135-9337 | 35 |
| 14,0 | 31 | FC400 WTL | 7T-3402 WTL 135-9408 | 40 |
| 16,1 | 35 | FC450 WTL | 1U-3452 WTL 138-6458 | 45 |
| 22,6 | 50 | FC550 WTL | 1U-3552 WTL 138-6558 | 55 |
| 39,9 | 88 | FC600 WTL | 6I-6602 WTL 135-9608 | 60 |
| 54,2 | 119 | FC700 WTL | 4T-4702 WTL | 70 |



WTS

Twin Tiger Sharp



| Kg | Lb | Part# | OEM | Size |
|------|----|-----------|-----|------|
| 8,0 | 18 | FC350 WTS | - | 35 |
| 15,0 | 33 | FC450 WTS | - | 45 |



WTP

Twin Tiger Special



| Kg | Lb | Part# | OEM | Size |
|------|----|-----------|-----|------|
| 24,3 | 54 | FC550 WTP | - | 55 |
| 36,1 | 79 | FC600 WTP | - | 60 |



Original solution for extreme applications Enables the tungsten tip of the tooth (most subject to wear) to be replaced

PHC

Penetration Hard Core



| Kg | Lb | Part# | OEM | Size |
|------|----|-----------|-----|------|
| 13,2 | 29 | FC600 WTP | - | 45 |



Tooth PHC Features a Chrome White Iron Core for extreme penetration

DRP Caterpillar Excavator Adapters and Weld-on Noses

| WN | | Weld On Nose | |
|------|----|--------------|------|
| Kg | Lb | Part# | Size |
| 1,0 | 2 | WN-200 | 20 |
| 1,8 | 4 | WN-220 | 22 |
| 2,4 | 5 | WN-250 | 25 |
| 4,3 | 9 | WN-300 | 30 |
| 5,0 | 11 | WN-350 | 35 |
| 7,0 | 15 | WN-400 | 40 |
| 9,2 | 20 | WN-450 | 45 |
| 13,5 | 30 | WN-550 | 55 |
| 26,0 | 57 | WN-600 | 60 |
| 31,2 | 69 | WN-700 | 70 |
| 44,3 | 97 | WN-800 | 80 |



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

| X | | Excavator Adapters | | | | |
|-------|-----|--------------------|---------------|---------------------|---|------|
| Kg | Lb | B° | Part# | OEM | F | Size |
| 1,8 | 4 | 23° | FC200 | 119-3205 | 1 | 20 |
| 3,3 | 7 | 24° | FC220 | 6Y-3224 | 1 | 22 |
| 4,4 | 10 | 24° | FC250 | 6Y-3254 113-3253 | 1 | 25 |
| 7,5 | 16 | 22° | FC300 | 3G-6304 | 1 | 30 |
| 7,6 | 17 | 22° | FC300-35 | 8E-9490 | 1 | 35 |
| 10,5 | 23 | 22° | FC350 | 6I-6354 | 1 | 35 |
| 10,2 | 22 | 35° | FC350-B35 | 3G-8354 | 1 | 40 |
| 14,4 | 32 | 23° | FC400 | 6I-6404 | 1 | 40 |
| 22,2 | 49 | 23° | FC450 | 6I-6464 | 1 | 45 |
| 21,2 | 47 | 23° | FC450 RH | 6I-6465 | 1 | 45 |
| 21,2 | 47 | 23° | FC450 LH | 6I-6466 | 1 | 45 |
| 22,0 | 48 | 23° | FC450 RHS | | 1 | 45 |
| 22,0 | 48 | 23° | FC450 LHS | | 1 | 45 |
| 34,0 | 75 | 22° | FC450-63 | - | 1 | 55 |
| 31,2 | 69 | 22° | FC450-63 RH | - | 1 | 55 |
| 31,2 | 69 | 22° | FC450-63 LH | - | 1 | 55 |
| 35,1 | 77 | 23° | FC550 | 6I-6554 | 2 | 60 |
| 34,3 | 75 | 23° | FC550 RH | 6I-6555 | 2 | 60 |
| 34,3 | 75 | 23° | FC550 LH | 6I-6556 | 2 | 60 |
| 35,6 | 78 | 23° | FC550 RHS | 105-6270 | 2 | 60 |
| 35,6 | 78 | 23° | FC550 LHS | 105-6279 | 2 | 60 |
| 64,4 | 142 | 22° | FC600 | 6I-6604 | 2 | 60 |
| 61,3 | 135 | 22° | FC600 RH | 6I-6605 | 2 | 60 |
| 61,3 | 135 | 22° | FC600 LH | 6I-6606 | 2 | 60 |
| 65,1 | 143 | 22° | FC600 RHS | | 2 | 60 |
| 65,1 | 143 | 22° | FC600 LHS | | 2 | 60 |
| 65,0 | 143 | 22° | FC600-80 | | 2 | 60 |
| 61,2 | 135 | 22° | FC600-80 RH | | 2 | 60 |
| 61,2 | 135 | 22° | FC600-80 LH | | 2 | 60 |
| 87,3 | 192 | 35° | FC700 | 222-7700 | 2 | 70 |
| 82,6 | 182 | 35° | FC700 RH | - | 2 | 70 |
| 82,6 | 182 | 35° | FC700 LH | - | 2 | 70 |
| 81,9 | 180 | 35° | FC700 RHS | - | 2 | 70 |
| 81,5 | 179 | 35° | FC700 LHS | - | 2 | 70 |
| 80,0 | 176 | 31° | FC700-90 R | | 2 | 70 |
| 81,5 | 179 | 31° | FC700-90 R RH | | 2 | 70 |
| 81,5 | 179 | 31° | FC700-90 R LH | | 2 | 70 |
| 88,0 | 194 | 35° | FC700-95 | | 2 | 70 |
| 82,4 | 181 | 35° | FC700-95 RH | | 2 | 70 |
| 82,4 | 181 | 35° | FC700-95 LH | | 2 | 70 |
| 122,0 | 268 | 30° | FC800 | 6I-8804 | 2 | 80 |
| 117,9 | 259 | 30° | FC800 RH | - | 2 | 80 |
| 117,9 | 259 | 30° | FC800 LH | - | 2 | 80 |



Design of side pin adapters has been improved so the washer hole is on the side that allows more room for pin installation and removal.

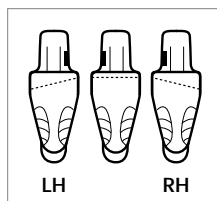


fig. 1 Standard

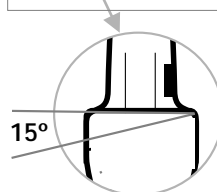
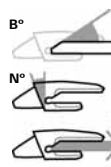
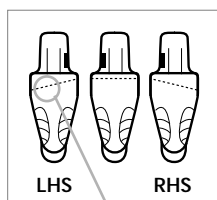


fig. 2 with Wear Cap



WC Adapter Wear Caps



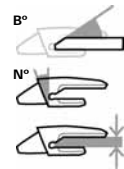
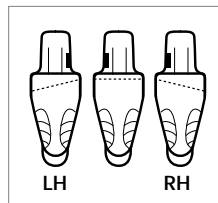
| Kg | Lb | 500HB | 700HB | Size |
|------|----|----------|-----------|------|
| 4,7 | 10 | FC550 WC | FC550 WC7 | 55 |
| 8,1 | 18 | FC600 WC | FC600 WC7 | 60 |
| 10,2 | 22 | FC700 WC | FC700 WC7 | 70 |
| 15,9 | 35 | FC800 WC | FC800 WC7 | 80 |

DRP Caterpillar Loader Adapters



S Loader Adapter

| Kg | Lb | B° | | Part# | OEM | F Size |
|-------|-----|-----|-----|--------------------|----------|-------------|
| 20,0 | 44 | 23° | | FC400 S | 125-8404 | 1 |
| 19,6 | 43 | 23° | 45 | FC400 S RHS | - | 1 40 |
| 19,6 | 43 | 23° | | FC400 S LHS | - | 1 |
| 23,5 | 52 | 23° | | FC450 S | 114-0464 | 1 |
| 24,1 | 53 | 23° | 50 | FC450 S RHS | 114-0466 | 1 45 |
| 24,1 | 53 | 23° | | FC450 S LHS | 114-0465 | 1 |
| 43,5 | 96 | 22° | | FC550 S | 107-3554 | 2 |
| 44,3 | 97 | 22° | 60 | FC550 S RHS | 107-3555 | 2 55 |
| 44,3 | 97 | 22° | 63 | FC550 S LHS | 107-3556 | 2 |
| 77,0 | 169 | 23° | | FC600 S | 119-8604 | 2 |
| 78,2 | 172 | 23° | 70 | FC600 S RHS | 119-8605 | 2 60 |
| 78,2 | 172 | 23° | | FC600 S LHS | 119-8606 | 2 |
| 77,8 | 171 | 22° | | FC700 S | 133-0704 | 2 |
| 78,7 | 173 | 22° | 70 | FC700 S RHS | 133-0705 | 2 70 |
| 78,7 | 173 | 22° | 75 | FC700 S LHS | 133-0706 | 2 |
| 80,4 | 177 | 22° | | FC800 S | 61-8804 | 2 80 |
| 123,7 | 272 | 23° | 100 | FC800 S | 61-8804 | 2 80 |



Loader Adapter Wear Caps



| Kg | Lb | 500HB | Size | SWCU |
|------|----|-------------------|-----------|------|
| 8,3 | 18 | FC550 SWCU | 55 | |
| 14,2 | 31 | FC600 SWCU | 60 | |
| 12,0 | 26 | FC700 SWCU | 70 | |
| 22,8 | 50 | FC800 SWCU | 80 | |



| SWCD | Kg | Lb | 500HB | Size |
|------|------|----|-------------------|-----------|
| | 5,1 | 11 | FC550 SWCD | 55 |
| | 11,8 | 26 | FC600 SWCD | 60 |
| | 10,4 | 23 | FC700 SWCD | 70 |
| | 17,0 | 37 | FC800 SWCD | 80 |

Clack System: the Fully Hammerless Ripper System

Hammerless



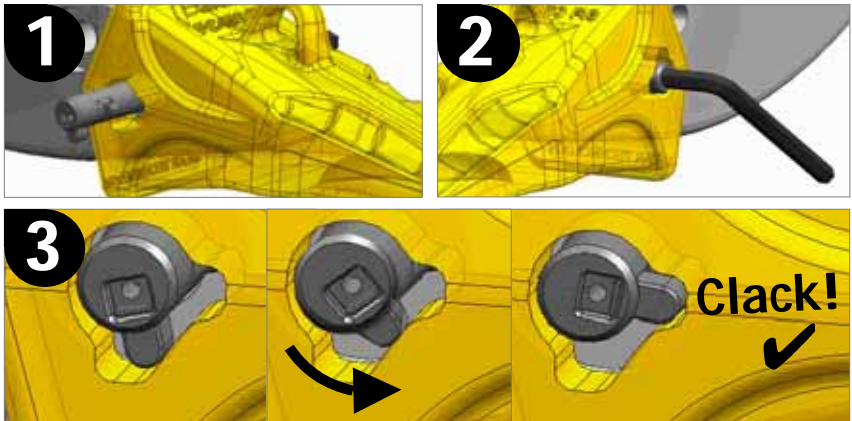
New System is **100% compatible** with your current Cat style ripper shank ✓

Increased pin retention: the pins are securely locked in place. Rubber insert under locking tab allows the locking tab (fig. 3) to compress, rotate and lock ✓

Easy to install and remove with manual drive or ratchet wrench with hex drive socket. Each pin comes with a heavy duty "dirt" plug to keep fines out of the pin's socket ✓

| L mm | L inch | ø mm | ø inch | Kg | Lb | Part# | Size |
|------|--------|------|--------|------|-----|-----------|------|
| 92 | 3,6 | 20,5 | 0,8 | 0,3 | 0,6 | F CR300HP | R300 |
| 120 | 4,7 | 20,5 | 0,8 | 0,4 | 0,8 | F CR350HP | R350 |
| 135 | 5,3 | 26,0 | 1,0 | 0,67 | 1,5 | F CR450HP | R450 |
| 153 | 6,0 | 33,0 | 1,3 | 1,24 | 2,7 | F CR500HP | R500 |
| 170 | 6,7 | 37,5 | 1,5 | 1,72 | 3,8 | F CR550HP | R550 |

All FUTURA ripper teeth can be used with the new FUTURA HAMMERLESS SYSTEM as well as the standard Caterpillar pin & washers ✓



Allen Keys needed: FCR300HP Allen M12 | FCR350HP Allen M12 | FCR450HP Allen M14 | FCR500HP Allen M17 | FCR550HP Allen M22



DRP Caterpillar Hammerless Ripper Protector



Hammerless



Hammerless Ripper Protector

Clack System Hammerless Ripper Teeth

Hammerless

R1
Short



| Kg | Lb | Part# | OEM | Size |
|------|-----|----------|--------------------|------|
| 19,3 | 42 | FC450 R1 | 9W-2451 4T-5451 | R450 |
| 32,5 | 72 | FC500 R1 | 4T-4501 4T-5501 | R500 |
| 51,9 | 114 | FC550 R1 | 9W-4551 | R550 |



R2
Medium



| Kg | Lb | Part# | OEM | Size |
|------|-----|----------|--------------------|------|
| 6,3 | 14 | FC300 R2 | 4T-4302 6Y-0309 | R300 |
| 14,5 | 32 | FC350 R2 | 6Y-0352 6Y-0359 | R350 |
| 25,0 | 55 | FC450 R2 | 9W-2452 4T-5452 | R450 |
| 33,0 | 73 | FC500 R2 | 4T-5502 | R500 |
| 55,4 | 122 | FC550 R2 | 6Y-3552 | R550 |



R2ST
Medium Star



| Kg | Lb | Part# | OEM | Size |
|------|----|------------|----------|------|
| 13,7 | 30 | FC350 R2ST | | R350 |
| 20,5 | 45 | FC450 R2ST | 9W2452ST | R450 |
| 32,7 | 72 | FC500 R2ST | | R500 |



R2S
Medium Centerline



| Kg | Lb | Part# | OEM | Size |
|------|-----|-----------|---------|------|
| 36,6 | 81 | FC500 R2S | 4T-4502 | R500 |
| 57,3 | 126 | FC550 R2S | 9W-4552 | R550 |



R3
Long



| Kg | Lb | Part# | OEM | Size |
|------|----|----------|--------------------|------|
| 22,6 | 50 | FC450 R3 | 114-0453 | R450 |
| 37,9 | 83 | FC500 R3 | 4T-5503 4T-4503 | R500 |



R3ST
Long Star




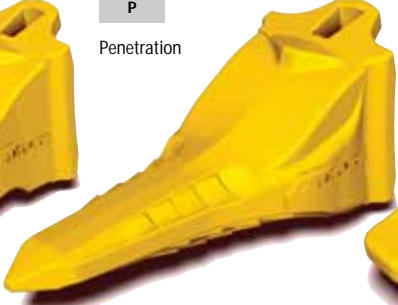


| Kg | Lb | Part# | OEM | Size |
|------|----|------------|-----|------|
| 36,6 | 81 | FC500 R3ST | | R500 |





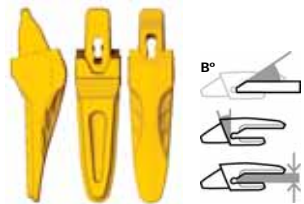
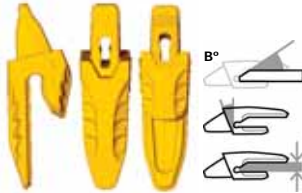
DRP Caterpillar: Other Parts

Vertical Pin System

| | | | |
|----------|-------------|---------------------|-------------------|
| L | P | F | R |
| Long | Penetration | Flush Mount Adapter | Excavator Adapter |

| | | | |
|--|---|--|---|
|  |  |  |  |
|--|---|--|---|

| <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Kg</th> <th>Lb</th> <th>Part#</th> <th>OEM</th> </tr> </thead> <tbody> <tr> <td>1,4</td> <td>3</td> <td>FC23 L</td> <td>4K-6936</td> </tr> <tr> <td>1,9</td> <td>4</td> <td>FC34 L</td> <td>4K-0034</td> </tr> </tbody> </table> | Kg | Lb | Part# | OEM | 1,4 | 3 | FC23 L | 4K-6936 | 1,9 | 4 | FC34 L | 4K-0034 | <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Kg</th> <th>Lb</th> <th>Part#</th> <th>OEM</th> </tr> </thead> <tbody> <tr> <td>1,1</td> <td>2</td> <td>FC23 P</td> <td>4K-6936</td> </tr> </tbody> </table> | Kg | Lb | Part# | OEM | 1,1 | 2 | FC23 P | 4K-6936 | <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Kg</th> <th>Lb</th> <th>B°</th> <th>Part#</th> </tr> </thead> <tbody> <tr> <td>3,5</td> <td>8</td> <td>25°</td> <td>FC23 F</td> </tr> </tbody> </table> | Kg | Lb | B° | Part# | 3,5 | 8 | 25° | FC23 F | <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Kg</th> <th>Lb</th> <th>B°</th> <th>Part#</th> </tr> </thead> <tbody> <tr> <td>2,7</td> <td>6</td> <td>25°</td> <td>FC23 R</td> </tr> </tbody> </table> | Kg | Lb | B° | Part# | 2,7 | 6 | 25° | FC23 R |
|---|----|--------|---------|-----|-----|---|--------|---------|-----|---|--------|---------|---|----|----|-------|-----|-----|---|--------|---------|--|----|----|----|-------|-----|---|-----|--------|--|----|----|----|-------|-----|---|-----|--------|
| Kg | Lb | Part# | OEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,4 | 3 | FC23 L | 4K-6936 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,9 | 4 | FC34 L | 4K-0034 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kg | Lb | Part# | OEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1 | 2 | FC23 P | 4K-6936 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kg | Lb | B° | Part# | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,5 | 8 | 25° | FC23 F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kg | Lb | B° | Part# | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,7 | 6 | 25° | FC23 R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | |
|---|---|--|---|
|  |  |  |  |
|---|---|--|---|

6Y

Monoblock Tooth



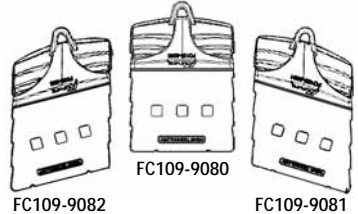

| Kg | Lb | Part# | OEM |
|-----|----|-----------|--------------------|
| 3,6 | 8 | FC6Y-6335 | 6Y-6335 9W-1879 |

109

Lip Protector




| Kg | Lb | Part# | OEM |
|------|-----|------------|----------|
| 51,2 | 113 | FC109-9080 | 109-9080 |
| 51,2 | 113 | FC109-9081 | 109-9081 |
| 51,2 | 113 | FC109-9082 | 109-9082 |



Scarifier Shank & Tip

TS

Scarifier Tip

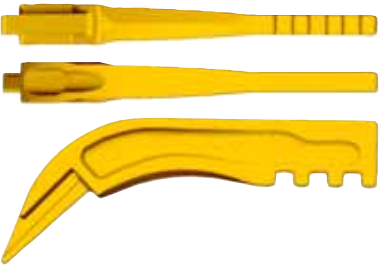
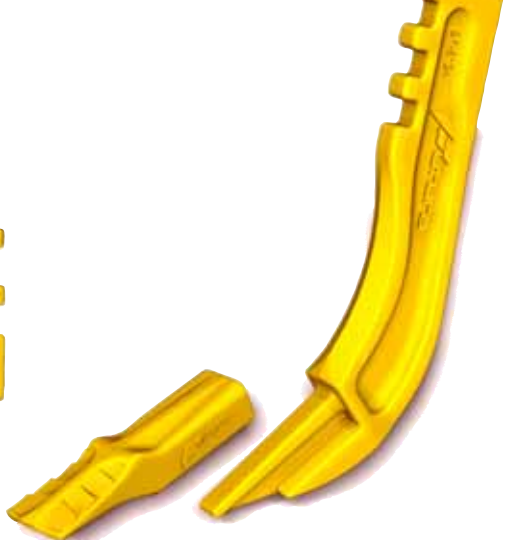
| Kg | Lb | Part# | OEM |
|-----|----|---------|--------------------|
| 1,5 | 3 | FC10 TS | 6Y-5230 2D-5572 |



SS

Scarifier Shank

| Kg | Lb | Part# | OEM |
|-----|----|---------|---------|
| 5,4 | 12 | FC10 SS | 9F-5124 |

DRP Esco

DRP Esco Conical Teeth and Adapters

Long

L



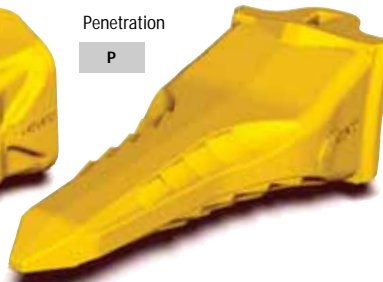
Standard

S



Penetration

P



Adapter

R

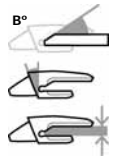


| Kg | Lb | Part# | OEM | Size |
|-----|----|---------------|------|-----------|
| 1,1 | 2 | FE18 L | 18TL | 18 |

| Kg | Lb | Part# | OEM | Size |
|-----|----|---------------|-----|-----------|
| 2,3 | 5 | FE25 S | 25S | 25 |
| 2,9 | 6 | FE30 S | 30S | 30 |
| 4,2 | 9 | FE35 S | 35S | 35 |
| 6,9 | 15 | FE40 S | 40S | 40 |

| Kg | Lb | Part# | OEM | Size |
|-----|----|---------------|-------|-----------|
| 1,1 | 2 | FE18 P | 18VIP | 18 |

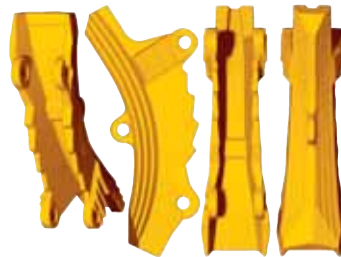
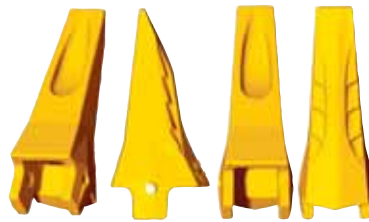
| Kg | Lb | B° | Part# | OEM | Size |
|-----|----|-----|---------------|--------|-----------|
| 1,6 | 4 | 28° | FE18 R | 833-18 | 18 |
| 3,7 | 8 | 23° | FE25 R | 855-25 | 25 |



Ripper

Ripper Teeth:
Medium

R2



| Kg | Lb | Part# | OEM | Size |
|------|----|----------------|--------|-----------|
| 4,1 | 9 | FE22 R2 | 22R10 | 22 |
| 6,2 | 14 | FE25 R2 | 25R12 | 25 |
| 14,5 | 32 | FE35 R2 | 35R14A | 35 |
| 27,4 | 60 | FE39 R2 | 39R17E | 39 |

Ripper Protector

RPT



| Kg | Lb | B° | Part# | OEM | Size |
|------|----|----|----------------|--------|-----------|
| 43,8 | 96 | 90 | F39 RPT | 39RHSL | 39 |

Superconical teeth

Standard

S



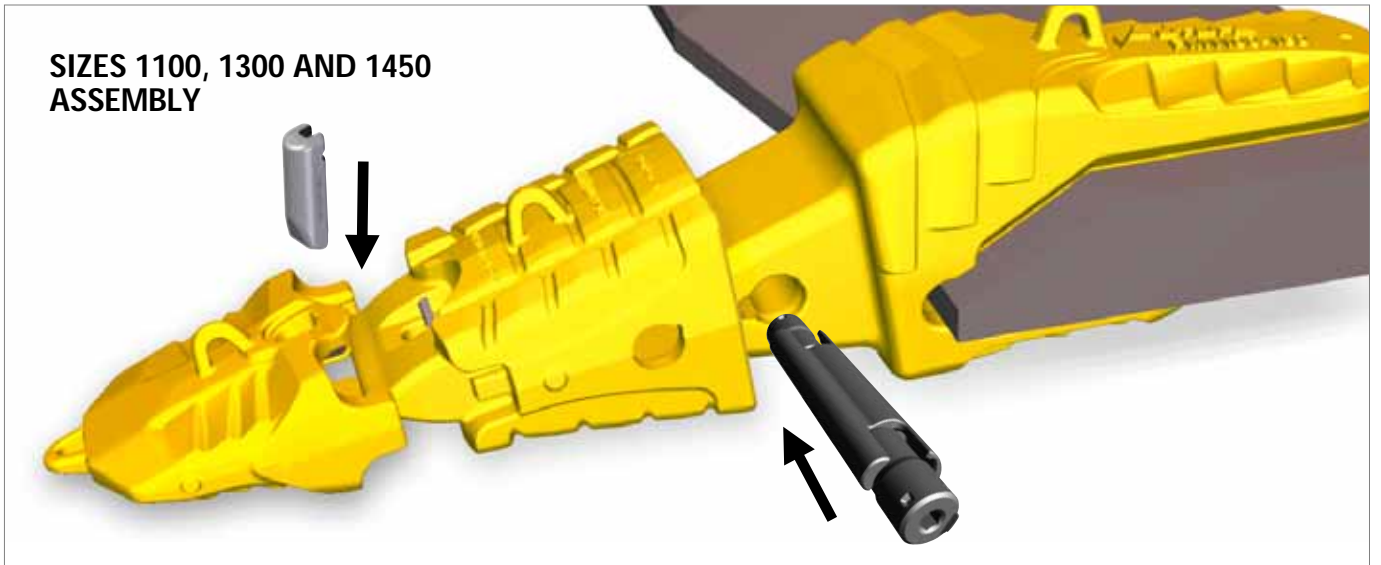
| Kg | Lb | Part# | OEM | Size |
|------|----|---------------|------------------------|-----------|
| 27,9 | 61 | FE66 S | 66-R 66-FP 66-LP | 66 |
| 35,7 | 79 | FE76 S | 76-R 76-FP 76-LP | 76 |

Rock Exploder

R



| Kg | Lb | Part# | OEM | Size |
|------|-----|---------------|------|-----------|
| 60,0 | 132 | FE86 R | 86-R | 86 |



RC

Rock Chisel



| Kg | Lb | Part# | Cross Ref. | Size |
|-----|-----|-----------------|------------|------------|
| 107 | 235 | FM950 RC | fits S95SD | 950 |



RC

Rock Chisel



| Kg | Lb | Part# | Cross Ref. | Size |
|------|-----|------------------|------------|-------------|
| 58,2 | 128 | FM920 RC | DRP 92KHA | 1100 |
| 72,4 | 159 | FM1120 RC | DRP 112KH | 1300 |
| | | FM1220 RC | DRP 122KH | 1450 |



IA

Intermediate Adapter



| Kg | Lb | Part# | Cross Ref. | Size |
|-----|-----|-----------------------|------------|-------------|
| 133 | 293 | FM1100-920 IA | S110H92K | 1100 |
| 188 | 414 | FM1300-1120 IA | S130H112K | 1300 |
| | | FM1450-1220 IA | S145H122K | 1450 |



PN

Mining Pin



| L mm | inch | Ø inch | Kg | Lb | Part# | Cross Ref | Size |
|------|------|--------|-----|-----|------------------|-----------|------------|
| 280 | 11,0 | 61 | 2,4 | 3,4 | FM950 PNK | S95RPN | 950 |

PN

Mining Pin



| L mm | inch | Ø inch | Kg | Lb | Part# | Cross Ref | Size |
|------|------|--------|-----|-----|------------------|-------------|-------------|
| 177 | 7,0 | 51 | 2,0 | 1,2 | FM920 PN | DRP PN92K | 1100 |
| 189 | 7,4 | 59 | 2,3 | 1,6 | FM1120 PN | DRP PN112KC | 1300 |
| | | | | | FM1220 PN | DRP PN122KC | 1450 |

PIA

Intermediate Adapter Pin



| L mm | inch | Ø inch | Kg | Lb | Part# | Cross Ref | Size |
|------|------|--------|-----|-----|--------------------|-----------|-------------|
| 327 | 12,9 | 62 | 2,4 | 7,0 | FM1100 PIAK | S110PN | 1100 |
| 378 | 14,9 | 61 | 2,4 | 7,0 | FM1300 PIAK | S130PNA | 1300 |
| | | | | | FM1450 PIAK | S145PNA | 1450 |

Your current Intermediate Mining Adapter



Your current Mining Adapter



Complete Mining System

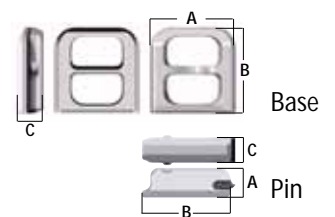
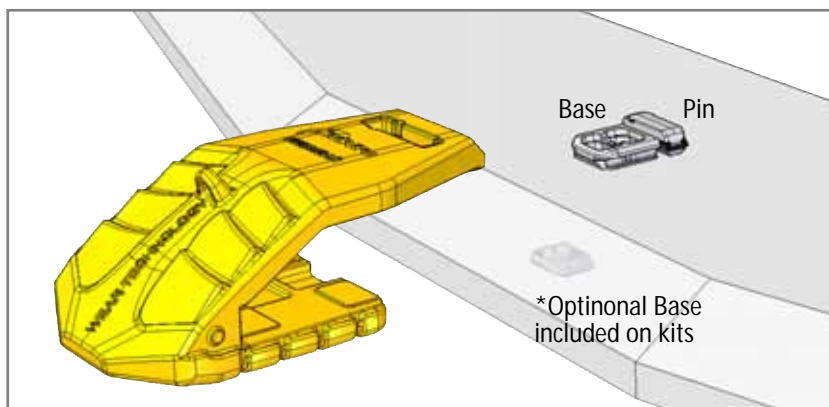
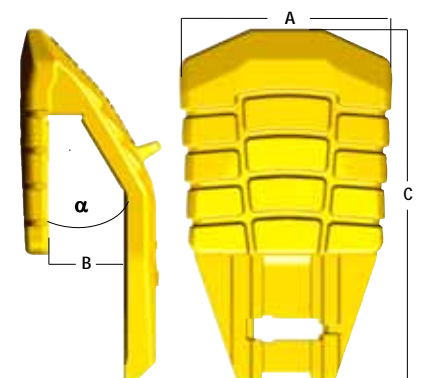
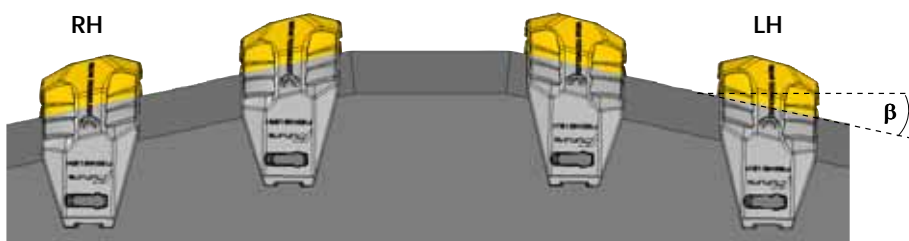
| Machine weight | size |
|----------------|-------------|
| up to 325 tn | 950 |
| BOF 139,1 tn | |
| up to 400 tn | 1100 |
| BOF 171,1 tn | |
| up to 500 tn | 1300 |
| BOF 252,6 tn | |
| up to 800 tn | 1450 |
| BOF 342,2 tn | |





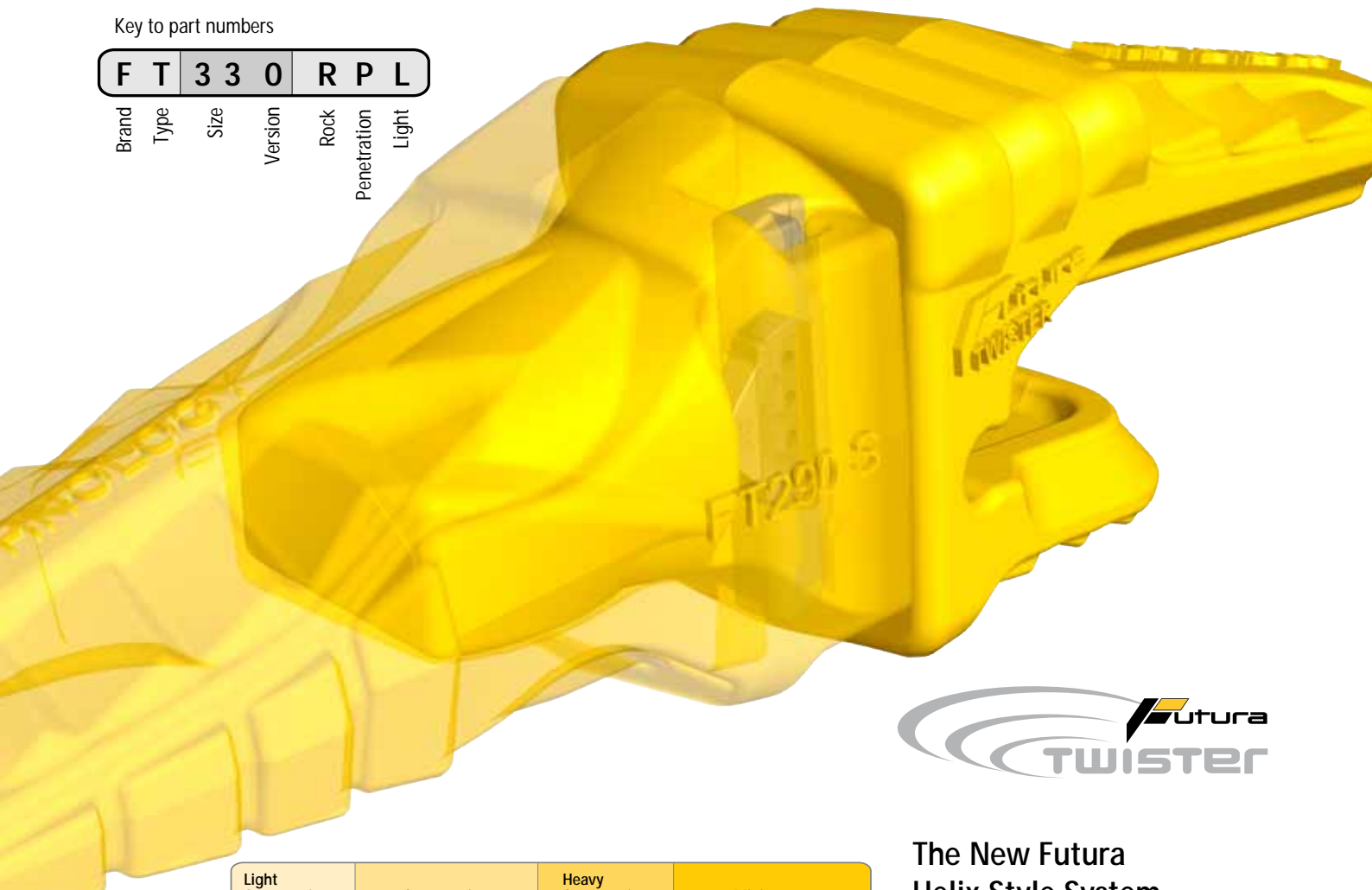
UP TO 800 TN
MACHINES

| PROTECTOR | | | | | | | BASE | | | | | PIN | | | | | | | | |
|-----------|-----|-----|----------|---------|-----|-----------------|---|-----|-----|-----|----|------|-----------|-----|----|-----|-----|-----|-----------|-----|
| mm | | | | | | | mm | | | | | mm | | | | | | | | |
| A | B | C | α | β | Kg | Part# | Cross Ref | A | B | C | Kg | Base | Cross Ref | A | B | C | Kg | Pin | Cross Ref | |
| 433 | | 623 | | | 156 | F120X410 LS | TBC120X410-1 | | | | | | | | | | | | | |
| 433 | 124 | 640 | 30° | 14° | 157 | F120X410 LSLH | TBC120X410-3L | 120 | 127 | 128 | 38 | 2,0 | FBB | TBB | 52 | 45 | 2,2 | FBP | TBP | |
| 433 | | 640 | | 14° | 157 | F120X410 LSRH | TBC120X410-3R | | | | | | | | | | | | | |
| 452 | | 595 | | | 130 | F120X440 LS | TBC120X440-1B | | | | | | | | | | | | | |
| 455 | 124 | 609 | 30° | 11,5° | 131 | F120X440 LSLH | TBC120X440-2LB | 120 | 127 | 128 | 38 | 2,0 | FBB | TBB | 52 | 154 | 45 | 2,2 | FBP | TBP |
| 455 | | 609 | | 11,5° | 131 | F120X440 LSRH | TBC120X440-2RB | | | | | | | | | | | | | |
| 443 | | 714 | | - | 182 | F140X420 KLS* | TBC140X420-1A | | | | | | | | | | | | | |
| 441 | 143 | 729 | 30° | 11,5° | 180 | F140X420 KLSLH* | TBC140X420-2LA | 140 | 127 | 128 | 38 | 2,0 | FBB | TBB | 52 | 154 | 45 | 2,2 | FBP | TBP |
| 441 | | 729 | | 11,5° | 180 | F140X420 KLSRH* | TBC140X420-2RA | | | | | | | | | | | | | |
| 470 | | 820 | | | 240 | F160X450 KLS* | TBC160X450-1 | | | | | | | | | | | | | |
| 470 | 166 | 800 | 30° | 14° | 241 | F160X450 KLSLH* | TBC160X450-2L | 160 | 127 | 128 | 38 | 2,0 | FBB | TBB | 52 | 154 | 45 | 2,2 | FBP | TBP |
| 470 | | 800 | | 14° | 241 | F160X450 KLSRH* | TBC160X450-2R | | | | | | | | | | | | | |
| 454 | 236 | 822 | 30° | - | 365 | F230X430 KLS | TCCF130-28 TCCF130-21B TCCF130-21C TCCF130-16A | 230 | 160 | 166 | 48 | 3,9 | FCB | TCB | 64 | 216 | 50 | 4,7 | FCP | TCP |



Key to part numbers

| | | | |
|----------|----------|------------|------------------------|
| F | T | 330 | RPL |
| Brand | Type | Size | Version |
| | | | Rock Penetration Light |



| | | | |
|--------------------|--------------|--------------------|--------|
| Light Construction | Construction | Heavy Construction | Mining |
|--------------------|--------------|--------------------|--------|

Guide to part sizes by Maximum Machine Weight (tons)

| | 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 |

only with TWISTER Pin

The New Futura Helix Style System

Complete system featuring teeth, adapters and pins ✓
 Variety of designs to suit common & heavy duty excavator or loader applications. Sizes from 130 to 810 ✓

The helix style TWISTER teeth, adapters and pins (sizes 130-430 only) are suitable to be used with any other HELIX style parts available in the market ✓



Teeth: FUTURA TWISTER teeth are suitable to be used with your current HELIX style adapter. Sizes 510 to 810 must use TWISTER pins ✓



Adapters and Weld on Noses: FUTURA TWISTER adapters are suitable to be used with your current HELIX style teeth ✓



Pins: FUTURA TWISTER pins (sizes 130 to 430) are designed to be used with other HELIX style products in the market ✓

Loader Teeth

RPL

Rock Penetration Light



| Kg | Lb | Part# | Cross Ref. | Size |
|-----|----|-----------|---------------|------|
| 1,5 | 3 | FT170 RPL | V17TYL SD1 CE | 170 |
| 3,0 | 7 | FT190 RPL | V19TY SD3 CE | 190 |
| 4,3 | 9 | FT230 RPL | V23TY SD4 CE | 230 |
| 6,0 | 13 | FT290 RPL | V29TYL SD5 CE | 290 |



RP

Rock Penetration



| Kg | Lb | Part# | Cross Ref. | Size |
|------|----|----------|---------------|------|
| 10,2 | 22 | FT330 RP | V33AD SD7 SA | 330 |
| 15,5 | 34 | FT390 RP | V39AD SD8 SA | 390 |
| 20,2 | 44 | FT430 RP | V43AD SD9 SA | 430 |
| 27,1 | 60 | FT510 RP | V51AD SD10 SA | 510 |



RPHD

Rock Penetration HD



| Kg | Lb | Part# | Cross Ref. | Size |
|------|-----|------------|------------|------|
| 43,0 | 95 | FT590 RPHD | V59AR | 590 |
| 47,1 | 104 | FT610 RPHD | V61ARL | 610 |
| 89,2 | 196 | FT710 RPHD | V71ARL | 710 |



Excavator teeth

S

Standard



| Kg | Lb | Part# | Cross Ref. | Size |
|------|----|---------|-----------------|------|
| 1,0 | 2 | FT130 S | V13SYL SDM TLR | 130 |
| 1,5 | 3 | FT170 S | V17SYL SD1 TLR | 170 |
| 3,3 | 7 | FT190 S | V19SYL SD3 TLR | 190 |
| 4,3 | 9 | FT230 S | V23SYL SD4 TLR | 230 |
| 6,2 | 14 | FT290 S | V29SYL SD5 TLR | 290 |
| 8,0 | 18 | FT330 S | V33SYL SD7 TLR | 330 |
| 11,8 | 26 | FT390 S | V39SYL SD8 TLR | 390 |
| 15,9 | 35 | FT430 S | V43SYL SD9 TLR | 430 |
| 19,9 | 44 | FT510 S | V51SYL SD10 TLR | 510 |
| 26,5 | 58 | FT590 S | V59SYL SD11 TLR | 590 |
| 30,6 | 67 | FT610 S | V61SYL | 610 |



RC

Rock Chisel



| Kg | Lb | Part# | Cross Ref. | Size |
|------|-----|----------|--------------|------|
| 8,0 | 18 | FT330 RC | V33SD SD7 PR | 330 |
| 11,5 | 25 | FT390 RC | V39SD SD8 PR | 390 |
| 16,0 | 35 | FT430 RC | V43SD SD9 PR | 430 |
| 21,3 | 47 | FT510 RC | V51SD V51SDX | 510 |
| 26,2 | 58 | FT590 RC | V59SD V59SDX | 590 |
| 32,5 | 72 | FT610 RC | V61SD V61SDX | 610 |
| 46,5 | 102 | FT690 RC | V69SD | 690 |
| 57,9 | 127 | FT710 RC | V71SD | 710 |
| 90,3 | 199 | FT810 RC | V81SD | 810 |



I

Impact



| Kg | Lb | Part# | Cross Ref. | Size |
|------|-----|---------|---------------|------|
| 4,0 | 9 | FT230 I | V23RYL | 230 |
| 5,7 | 13 | FT290 I | V29RYL | 290 |
| 11,3 | 25 | FT390 I | V39RYL | 390 |
| 14,6 | 32 | FT430 I | V43RYL | 430 |
| 19,8 | 44 | FT510 I | V51RYL | 510 |
| 26,2 | 58 | FT590 I | V59RYL | 590 |
| 28,2 | 62 | FT610 I | V61RY | 610 |
| 44,1 | 97 | FT690 I | V69RYL | 690 |
| 55,3 | 122 | FT710 I | V71RXL V71RYL | 710 |
| 87,0 | 191 | FT810 I | V81RXL V81RYL | 810 |



TL

Tiger Long



| Kg | Lb | Part# | Cross Ref. | Size |
|------|----|----------|--------------|------|
| 0,9 | 2 | FT130 TL | V13VY SDM PE | 130 |
| 1,3 | 3 | FT170 TL | V17VY SD1 PE | 170 |
| 2,5 | 6 | FT190 TL | V19VY SD3 PE | 190 |
| 3,5 | 8 | FT230 TL | V23VY SD4 PE | 230 |
| 5,0 | 11 | FT290 TL | V29VY SD5 PE | 290 |
| 6,9 | 15 | FT330 TL | V33VY SD7 PE | 330 |
| 9,7 | 21 | FT390 TL | V39VY SD8 PE | 390 |
| 13,6 | 30 | FT430 TL | V43VY SD9 PE | 430 |



VTL

Vector Tiger Long



| Kg | Lb | Part# | Cross Ref. | Size |
|------|-----|-----------|----------------------|------|
| 17,5 | 39 | FT510 VTL | V51VY V51VYH SD10 PE | 510 |
| 22,8 | 50 | FT590 VTL | V59VY V59VYH | 590 |
| 27,8 | 61 | FT610 VTL | V61VX SD12 PE | 610 |
| 40,3 | 89 | FT690 VTL | V69VX | 690 |
| 50,7 | 112 | FT710 VTL | V71VX | 710 |
| 80,0 | 176 | FT810 VTL | V81VX | 810 |



WTL

Twin Tiger Long



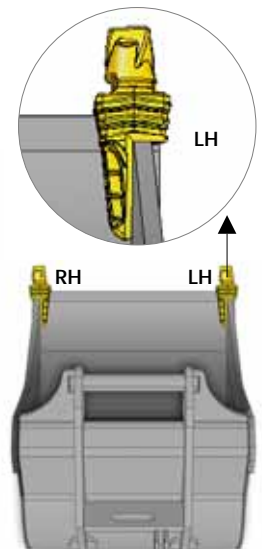
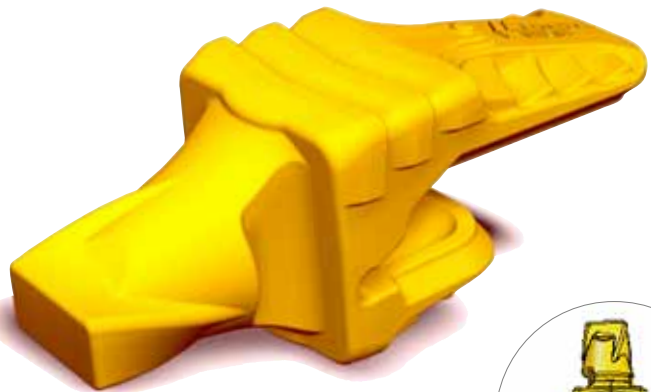
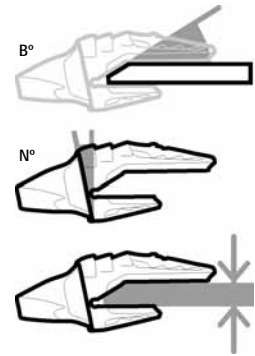
| Kg | Lb | Part# | Cross Ref. | Size |
|------|----|-----------|-----------------|------|
| 0,8 | 2 | FT130 WTL | | 130 |
| 1,6 | 4 | FT170 WTL | V17TVY SD1 DPE | 170 |
| 2,9 | 6 | FT190 WTL | V19TVY SD3 DPE | 190 |
| 4,4 | 10 | FT230 WTL | V23TVY SD4 DPE | 230 |
| 5,8 | 13 | FT290 WTL | V29TVY SD5 DPE | 290 |
| 8,3 | 18 | FT330 WTL | V33TVY SD7 DPE | 330 |
| 11,9 | 26 | FT390 WTL | V39TVY SD8 DPE | 390 |
| 16,6 | 37 | FT430 WTL | V43TVY SD9 DPE | 430 |
| 21,2 | 47 | FT510 WTL | V51TVY SD10 PRD | 510 |
| 26,7 | 59 | FT590 WTL | V59TVY | 590 |
| 34,7 | 76 | FT610 WTL | V61TVP | 610 |



| Kg | Lb | N° | B° | | Part# | Cross Ref. | Size |
|-------|-------|----|----|------------|--------------|---|-------------------------------|
| 1,2 | 2,6 | 15 | 30 | 16 | 0,6" | FT130 FT130 RH FT130 LH | 1610T-V13 130 |
| 2,0 | 4,3 | 15 | 30 | 20 | 0,8" | FT170 FT170 RH FT170 LH | 8841-V17 170 |
| 2,5 | 5,5 | 17 | 23 | 25 | 1,0" | FT170-25 FT170-25 RH FT170-25 LH | 8842-V17 170 |
| 4,8 | 10,6 | 15 | 30 | 25 | 1,0" | FT190 FT190 RH FT190 LH | 8822-V19 5854-V19 190 |
| 6,8 | 15,0 | 15 | 30 | 25 | 1,0" | FT230 FT230 RH FT230 LH | 5854-V23 230 |
| 6,5 | 14,3 | 15 | 30 | 30 | 1,2" | FT230-30 FT230-30 RH FT230-30 LH | 3880-V23 5849-V23 230 |
| 8,4 | 18,5 | 10 | 30 | 30 | 1,2" | FT290 FT290 RH FT290 LH | 5849-V29 290 |
| 7,8 | 17,2 | 10 | 30 | 35 | 1,4" | FT290-35 FT290-35 RH FT290-35 LH | 3881A-V29 3871A-V29 290 |
| 7,8 | 17,2 | 10 | 30 | 40 | 1,6" | FT290-40 FT290-40 RH FT290-40 LH | 3882A-V29 5850-V29 290 |
| 11,4 | 25,1 | 10 | 30 | 40 | 1,6" | FT330 FT330 RH FT330 LH | 5855-V33 3882A-V33 330 |
| 16,3 | 35,9 | 10 | 30 | 45 | 1,8" | FT390 FT390 RH FT390 LH | 3810A-V39 390 |
| 23,2 | 51,0 | 10 | 30 | 50 | 2,0" | FT430 FT430 RH FT430 LH | 8801-V43 5856-V43 430 |
| 27,6 | 60,7 | 10 | 30 | 60 63,5 | 2,4" 2,5" | FT510 FT510 RH FT510 LH | 5857A-V51 3811-V51 510 |
| 37,9 | 83,4 | 10 | 30 | 70 | 2,8" | FT590 FT590 RH FT590 LH | 3858-V59 590 |
| 59,5 | 130,9 | 10 | 30 | 80 | 3,1" | FT610 FT610 RH FT610 LH | 5898-V61 610 |
| 73,5 | 161,7 | 10 | 30 | 80 | 3,1" | FT690 FT690 RH FT690 LH | 5898-V69 690 |
| 74,2 | 163,2 | 10 | 30 | 90 | 3,5" | FT690-90 FT690-90 RH FT690-90 LH | 6803-V69 690 |
| 121,5 | 267,3 | 10 | 30 | 90 | 3,5" | FT710 FT710 RH FT710 LH | 2837-V71 710 |
| 119,5 | 262,9 | 10 | 30 | 100 | 3,9" | FT710-100 FT710-100 RH FT710-100 LH | 5897-V71 710 |
| 177,2 | 389,8 | 10 | 30 | 120 | 4,7" | FT810 FT810 RH FT810 LH | 3869B-V81 810 |
| 200,0 | 440,0 | 10 | 30 | 140 | 5,5" | FT810-140 | 6806-V81 810 |

TWISTER Adapter

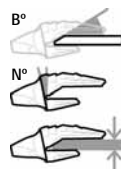
X



| Kg | Lb | N° | B° | | | Part# | Cross Ref. | Size |
|-------|-----|----|----|-----|----------|-------|------------|-----------------|
| 94,1 | 207 | 10 | 30 | 70 | 2,8" 60 | 2,4" | FT510 C | 510 |
| 106,8 | 235 | 10 | 30 | 70 | 2,8" 60 | 2,4" | FT590 C | 590 |
| 151,7 | 334 | 10 | 30 | 90 | 3,5" 90 | 3,5" | FT610 C | 610 |
| 179,0 | 394 | 10 | 30 | 90 | 3,5" 80 | 3,1" | FT690 C | 690 |
| 281,6 | 620 | 10 | 30 | 100 | 3,9" 80 | 3,1" | FT710 C | RS-V71 710 |
| 430,7 | 948 | 10 | 30 | 140 | 5,5" 100 | 3,9" | FT810 C | 6807-V81 810 |

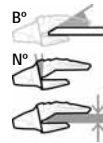
TWISTER Corners

C

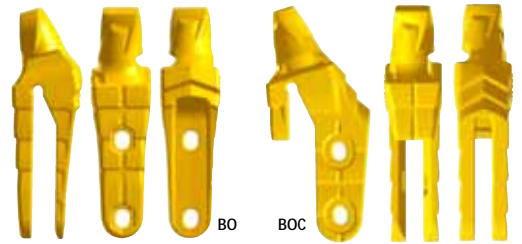


BO

TWISTER Bolt-On Adapters and Corner Adapters

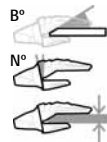


| Kg | Lb | N° | B° | Pin Config | Part# | Size |
|------|----|----|----|-----------------|----------------|------|
| | | | | | FT190-20 BO | 190 |
| | | | | | FT190-25 BO | |
| | | | | | FT230 BO | |
| 7,6 | 17 | 17 | 25 | 25 1,0" | FT230-25 BO16 | 230 |
| | | | 64 | 2,5" | FT230-25 BOC23 | |
| | | | | | FT290 BO | |
| | | | | | FT290 BOC | 290 |
| 9,4 | 21 | 17 | 25 | 35 1,4" | FT290-35 BO16 | |
| 11,7 | 26 | 17 | 25 | 35 1,4" 26 1,0" | FT290-35 BOC23 | |



FL

TWISTER Flush Adapter



| Kg | Lb | N° | B° | Pin Config | Part# | Cross Ref. | Size |
|-----|----|----|----|-----------------|----------|-----------------------|------|
| | | | | | FT130 FL | | 130 |
| 2,4 | 5 | 15 | 25 | 20 0,8" | FT170 FL | | 170 |
| 4,5 | 10 | 15 | 25 | 20 0,8" 25 1" | FT190 FL | 8806-V19 8802-V19 | 190 |
| 7,0 | 15 | 15 | 25 | 30 1,2" 35 1,4" | FT230 FL | 8803-V23 8830-V23 | 230 |
| 9,9 | 22 | 17 | 25 | 40 1,6" | FT290 FL | 8831-V29 3829A-V29 | 290 |

WN

TWISTER Weld On Nose



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

| Kg | Lb | Part# | Cross Ref | Size |
|------|-------|----------|-----------|------|
| 0,5 | 1,1 | FT130 WN | | 130 |
| 0,9 | 2,0 | FT170 WN | | 170 |
| 1,8 | 4,0 | FT190 WN | WN-V19 | 190 |
| 2,7 | 5,9 | FT230 WN | WN-V23 | 230 |
| 3,7 | 8,1 | FT290 WN | WN-V29 | 290 |
| 5,3 | 11,7 | FT330 WN | WN-V33 | 330 |
| 7,5 | 16,5 | FT390 WN | WN-V39 | 390 |
| 10,3 | 22,7 | FT430 WN | WN-V43 | 430 |
| 15,0 | 33,0 | FT510 WN | WN-V51 | 510 |
| 18,9 | 41,5 | FT590 WN | WN-V59 | 590 |
| 23,5 | 51,7 | FT610 WN | WN-V61 | 610 |
| 33,8 | 74,4 | FT690 WN | WN-V69 | 690 |
| 47,5 | 104,5 | FT710 WN | WN-V71 | 710 |
| 64,0 | 140,8 | FT810 WN | WN-V81 | 810 |

PN

TWISTER Pin

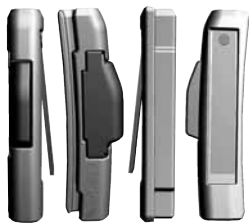


Fig A



Fig B



FUTURA TWISTER pins could be re-used several times ✓

FUTURA TWISTER pins Sizes 130 to 430 are designed to be used with other HELIX style products in the market ✓

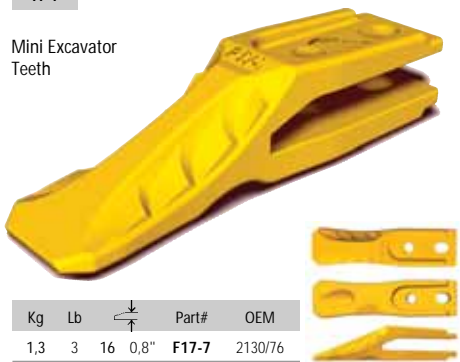
| Kg | Lb | L mm | L inch | Part# | F | Cross Ref | Size |
|------|-----|------|--------|-----------|---|---------------------------|------------|
| 0,03 | 0,1 | 48 | 1,9" | FT1317 PN | A | V13-17PN SDMCL/1CL/2CL | 130 170 |
| 0,06 | 0,1 | 52 | 2,0" | FT1923 PN | A | V23PN SD3CL/SD4CL | 190 230 |
| 0,12 | 0,3 | 78 | 3,1" | FT290 PN | A | V29PN / SD5CL | 290 |
| 0,14 | 0,3 | 86 | 3,4" | FT330 PN | A | V33PN / SD7CL | 330 |
| 0,18 | 0,4 | 94 | 3,7" | FT390 PN | A | V39PN / SD8CL | 390 |
| 0,26 | 0,6 | 106 | 4,2" | FT430 PN | A | V43PN / SD9CL | 430 |
| 0,34 | 0,7 | 112 | 4,4" | FT510 PN | B | V51PN SD10CL/SD11CL | 510 |
| 0,38 | 0,8 | 121 | 4,7" | FT590 PN | B | V59PN SD10CL/SD11CL | 590 |
| 0,40 | 0,9 | 131 | 5,1" | FT610 PN | B | V61PN / SD12CL | 610 |
| 0,73 | 1,6 | 146 | 5,7" | FT690 PN | B | V69PN | 690 |
| 0,75 | 1,7 | 160 | 6,3" | FT710 PN | B | V71PN | 710 |
| 1,10 | 2,4 | 187 | 7,4" | FT810 PN | B | V81PN | 810 |

Mini Excavator

Teeth and adapters

17-7

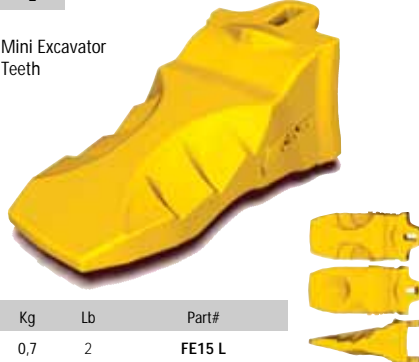
Mini Excavator
Teeth



| Kg | Lb | | Part# | OEM |
|-----|----|---------|-------|---------|
| 1,3 | 3 | 16 0,8" | F17-7 | 2130/76 |

L

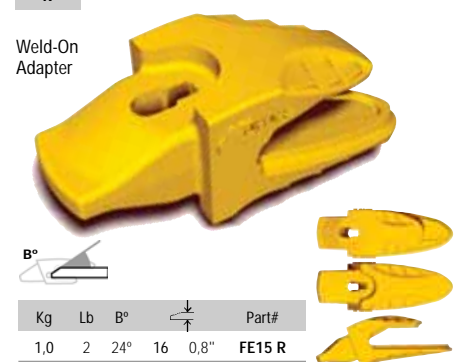
Mini Excavator
Teeth



| Kg | Lb | Part# |
|-----|----|--------|
| 0,7 | 2 | FE15 L |

R

Weld-On
Adapter



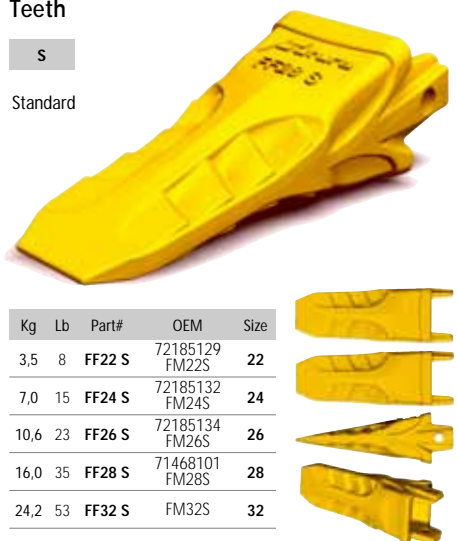
| Kg | Lb | B° | | Part# |
|-----|----|-------------|--|--------|
| 1,0 | 2 | 24° 16 0,8" | | FE15 R |

DRP Fiat Hitachi

Teeth

S

Standard



| Kg | Lb | Part# | OEM | Size |
|------|----|--------|-------------------|------|
| 3,5 | 8 | FF22 S | 72185129 FM22S | 22 |
| 7,0 | 15 | FF24 S | 72185132 FM24S | 24 |
| 10,6 | 23 | FF26 S | 72185134 FM26S | 26 |
| 16,0 | 35 | FF28 S | 71468101 FM28S | 28 |
| 24,2 | 53 | FF32 S | FM32S | 32 |

RC

Rock Chisel



| Kg | Lb | Part# | OEM | Size |
|------|----|---------|-------------------|------|
| 3,8 | 8 | FF22 RC | MF22E | 22 |
| 6,6 | 15 | FF24 RC | 72185133 MF24E | 24 |
| 10,2 | 22 | FF26 RC | 72185135 MF26E | 26 |
| 15,3 | 34 | FF28 RC | 72185121 MF28E | 28 |

Key to part numbers

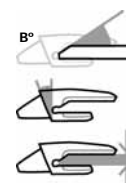
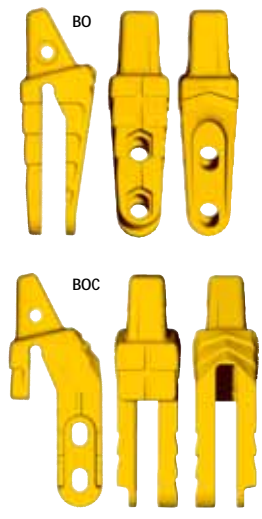
| F F | | 2 8 | | R C | |
|-------|------|------|------|--------|--|
| Brand | Type | Size | Rock | Chisel | |

DRP Bolt-On Loader Adapters for Volvo and Hitachi

BO

Loader Bolt-On Adapter and Corner Adapter

| Kg | Lb | B° | | Part# | Size |
|------|----|-------|--------------|-----------|---------------|
| 12,8 | 28 | 25 40 | 1,6" | FC350 BO | VOLVO L220D |
| 16,9 | 37 | 25 40 | 1,6" 35 1,4" | FC350 BOC | Hitachi LX290 |



DRP Parabolics

X

Standard



| Kg | Lb | Part# | OEM | Size |
|------|----|---------|------|------|
| 0,9 | 2 | FP156 X | X156 | 156 |
| 5,7 | 12 | FP290 X | X290 | 290 |
| 4,0 | 9 | FP310 X | X310 | 310 |
| 8,5 | 19 | FP330 X | X330 | 330 |
| 11,8 | 26 | FP370 X | X370 | 370 |
| 11,1 | 25 | FP400 X | X400 | 400 |
| 16,1 | 35 | FP410 X | X410 | 410 |
| 22,9 | 50 | FP450 X | X450 | 450 |
| 21,5 | 47 | FP475 X | X475 | 475 |
| 29,9 | 66 | FP500 X | X500 | 500 |



T

Tiger



| Kg | Lb | Part# | OEM | Size |
|------|----|---------|------|------|
| 0,8 | 2 | FP156 T | T156 | 156 |
| 4,1 | 9 | FP290 T | T290 | 290 |
| 6,1 | 13 | FP330 T | T330 | 330 |
| 8,7 | 19 | FP370 T | T370 | 370 |
| 8,1 | 18 | FP400 T | T400 | 400 |
| 11,8 | 26 | FP410 T | T410 | 410 |
| 16,5 | 36 | FP450 T | T450 | 450 |
| 20,7 | 46 | FP500 T | T500 | 500 |



WT

Twin Tiger



| Kg | Lb | Part# | OEM | Size |
|------|----|----------|---------|------|
| 1,2 | 3 | FP156 WT | X156 WT | 156 |
| 5,3 | 12 | FP290 WT | X290 WT | 290 |
| 5,5 | 12 | FP310 WT | X310 WT | 310 |
| 7,6 | 17 | FP330 WT | X330 WT | 330 |
| 10,6 | 23 | FP370 WT | X370 WT | 370 |
| 10,2 | 22 | FP400 WT | X400 WT | 400 |
| 14,9 | 33 | FP410 WT | X410 WT | 410 |
| 20,3 | 45 | FP450 WT | X450 WT | 450 |
| 19,3 | 42 | FP475 WT | X475 WT | 475 |
| 24,6 | 54 | FP500 WT | X500 WT | 500 |



SYL

Symmetric

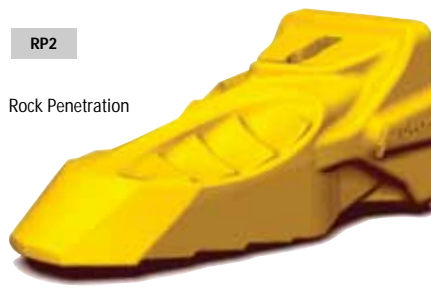


| Kg | Lb | Part# | OEM | Size |
|-----|----|-----------|----------|------|
| 4,8 | 11 | FP290 SYL | X290 SYL | 290 |
| 7,3 | 16 | FP330 SYL | X330 SYL | 330 |



RP2

Rock Penetration



| Kg | Lb | Part# | OEM | Size |
|------|----|-----------|---------|------|
| 22,6 | 50 | FP450 RP2 | X450RP | 450 |
| 33,6 | 74 | FP500 RP2 | X500RP2 | 500 |



F

Flare

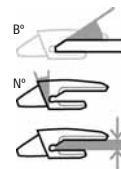


| Kg | Lb | Part# | OEM | Size |
|------|----|---------|--------|------|
| 1,5 | 3 | FP156 F | X156 F | 156 |
| 6,0 | 13 | FP290 F | X290 F | 290 |
| 9,4 | 21 | FP330 F | X330 F | 330 |
| 12,0 | 26 | FP370 F | X370 F | 370 |
| 16,8 | 37 | FP410 F | X410 F | 410 |
| 23,3 | 51 | FP450 F | X450 F | 450 |



R

Parabolic Adapter



| Kg | Lb | N° | B° | ↕ | Part# | OEM | Size | |
|------|----|----|----|------|-------|-------------|---------|-----|
| 1,9 | 4 | 15 | 30 | 15 | 0,6" | FP230X156 R | 230X156 | |
| 2,3 | 5 | 13 | 26 | 25 | 1,0" | FP550X156 R | 550X156 | 156 |
| 2,3 | 5 | 15 | 30 | 20 | 0,8" | FP552X156 R | 552X156 | |
| 6,2 | 14 | 15 | 30 | 30 | 1,2" | FP109X220 R | 109X220 | 220 |
| 10,3 | 23 | 12 | 30 | 30 | 1,2" | FP127X290 R | 127X290 | 290 |
| 11,0 | 24 | 12 | 30 | 38 | 1,5" | FP158X290 R | 158X290 | |
| 16,5 | 36 | 15 | 30 | 38 | 1,5" | FP158X330 R | 158X330 | 330 |
| 19,0 | 42 | 12 | 30 | 38 | 1,5" | FP158X370 R | 158X370 | |
| 18,2 | 40 | 12 | 30 | 45 | 1,8" | FP937X370 R | 937X370 | 370 |
| 17,6 | 39 | 12 | 30 | 50 | 2,0" | FP940X370 R | 940X370 | |
| 21,2 | 47 | 15 | 30 | 50 | 2,0" | FP802X400 R | 802X400 | 400 |
| 22,5 | 50 | 12 | 30 | 45 | 1,8" | FP937X410 R | 937X410 | |
| 21,8 | 48 | 12 | 30 | 50 | 2,0" | FP940X410 R | 940X410 | 410 |
| 33,2 | 73 | 12 | 30 | 63,5 | 2,5" | FP303X450 R | 303X450 | 450 |

L
Long



| Kg | Lb | Part# | OEM | Size |
|-----|----|---------|-----------------|------|
| 1,2 | 3 | FH230 L | 23-HXL 230-S | 23 |



TL
Tiger Long



| Kg | Lb | Part# | OEM | Size |
|-----|----|----------|-------|------|
| 1,3 | 3 | FH230 TL | 23-TL | 23 |



WTL
Twin Tiger Long



| Kg | Lb | Part# | OEM | Size |
|-----|----|-----------|--------|------|
| 1,7 | 4 | FH230 WTL | 23-WTL | 23 |



SYL
Symmetric



| Kg | Lb | Part# | OEM | Size |
|-----|----|-----------|-----|------|
| 1,3 | 3 | FH230 SYL | | 23 |



WTS
Twin Tiger Sharp

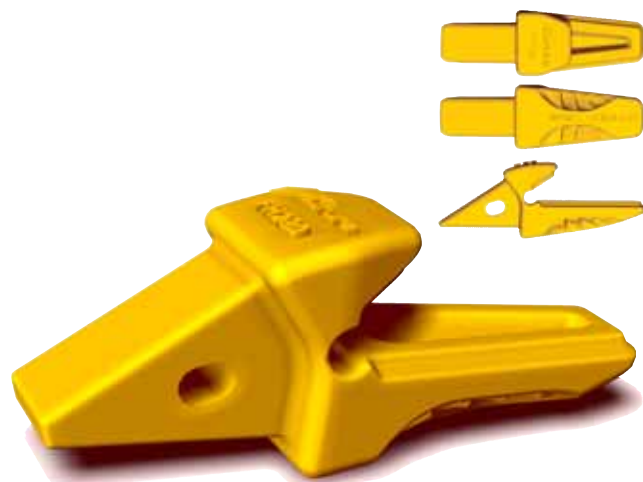


| Kg | Lb | Part# | OEM | Size |
|-----|----|-----------|-----|------|
| 1,6 | 4 | FH230 WTS | | 23 |











| 23 | Kg | Lb | B° | Part# | OEM | Size | |
|---------|-----|----|----|-------|-------|--------|----|
| Adapter | 1,9 | 4 | 25 | 1,0" | FH230 | 834-23 | 23 |

| R | Kg | Lb | B° | Part# | OEM | Size | | |
|-----------|-----|----|----|-------|------|---------|---------|----|
| Adapter R | 2,2 | 5 | 21 | 25 | 1,0" | FH230 R | 2740-23 | 23 |









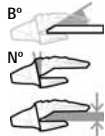
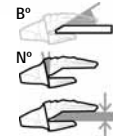
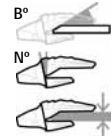






DRP John Deere

Teeth

| L | TL | WTL | RPL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|---|------|------|-----|---|---------|--------|----|--|----|----|-------|-----|------|-----|---|----------|-------|----|---|----|----|-------|-----|------|-----|---|-----------|---------|----|--|----|----|-------|-----|------|-----|----|----------|--------|----|
| Long | Tiger Long | Twin Tiger | Rock Penetration Light | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr><th>Kg</th><th>Lb</th><th>Part#</th><th>OEM</th><th>Size</th></tr> </thead> <tbody> <tr><td>1,2</td><td>3</td><td>FD230 L</td><td>TF23 L</td><td>23</td></tr> </tbody> </table> | Kg | Lb | Part# | OEM | Size | 1,2 | 3 | FD230 L | TF23 L | 23 | <table border="1"> <thead> <tr><th>Kg</th><th>Lb</th><th>Part#</th><th>OEM</th><th>Size</th></tr> </thead> <tbody> <tr><td>1,3</td><td>3</td><td>FD230 TL</td><td>TT230</td><td>23</td></tr> </tbody> </table> | Kg | Lb | Part# | OEM | Size | 1,3 | 3 | FD230 TL | TT230 | 23 | <table border="1"> <thead> <tr><th>Kg</th><th>Lb</th><th>Part#</th><th>OEM</th><th>Size</th></tr> </thead> <tbody> <tr><td>1,6</td><td>4</td><td>FD230 WTL</td><td>T230 WT</td><td>23</td></tr> </tbody> </table> | Kg | Lb | Part# | OEM | Size | 1,6 | 4 | FD230 WTL | T230 WT | 23 | <table border="1"> <thead> <tr><th>Kg</th><th>Lb</th><th>Part#</th><th>OEM</th><th>Size</th></tr> </thead> <tbody> <tr><td>9,6</td><td>21</td><td>FD33 RPL</td><td>TF33 L</td><td>33</td></tr> </tbody> </table> | Kg | Lb | Part# | OEM | Size | 9,6 | 21 | FD33 RPL | TF33 L | 33 |
| Kg | Lb | Part# | OEM | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2 | 3 | FD230 L | TF23 L | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kg | Lb | Part# | OEM | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,3 | 3 | FD230 TL | TT230 | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kg | Lb | Part# | OEM | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,6 | 4 | FD230 WTL | T230 WT | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kg | Lb | Part# | OEM | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9,6 | 21 | FD33 RPL | TF33 L | 33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

DRP Adco

Teeth and adapters

| RH | C | LH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|-------|------|------|-----|---|----------|-------|-----|-----|----|----------|-------|-----|------|----|----------|-------|-----|--|----|----|-------|-----|------|-----|---|---------|------|-----|-----|----|---------|------|-----|------|----|---------|------|-----|---|----|----|-------|-----|------|-----|---|----------|-------|-----|-----|----|----------|-------|-----|------|----|----------|-------|-----|
| Right Hand | Central | Left Hand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Kg | Lb | Part# | OEM | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,5 | 3 | FA110 RH | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5,0 | 11 | FA310 RH | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10,4 | 23 | FA410 RH | 400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kg | Lb | Part# | OEM | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,5 | 3 | FA110 C | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5,0 | 11 | FA310 C | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10,4 | 23 | FA410 C | 400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kg | Lb | Part# | OEM | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,5 | 3 | FA110 LH | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5,0 | 11 | FA310 LH | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10,4 | 23 | FA410 LH | 400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RH | C | LH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Kg | Lb | Part# | OEM | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,5 | 3 | FA100 RH | 100RH | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4,2 | 9 | FA300 RH | 300RH | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10,4 | 23 | FA400 RH | 400RH | 400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kg | Lb | Part# | OEM | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,5 | 3 | FA100 C | 100C | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5,0 | 11 | FA300 C | 300C | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10,4 | 23 | FA400 C | 400C | 400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kg | Lb | Part# | OEM | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,5 | 3 | FA100 LH | 100LH | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4,2 | 9 | FA300 LH | 300LH | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10,4 | 23 | FA400 LH | 400LH | 400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

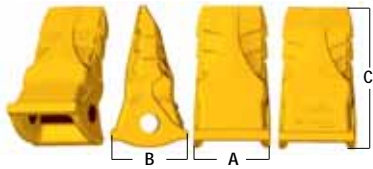
DRP Komatsu

Teeth

I Impact



| mm | | | | | |
|----------------|-----|-----|------|----------------|--------------|
| A | B | C | Kg | Part# | OEM |
| FK200 I | | | | | 200 |
| 124 | 121 | 230 | 8,60 | FK300 I | 20Y-70-K4070 |
| | | | | | 300 |



S Standard



| mm | | | | | |
|-----|-----|-----|-------|----------------|--------------|
| A | B | C | Kg | Part# | OEM |
| 102 | 112 | 225 | 5,10 | FK200 S | 205-70-19570 |
| | | | | | 200 |
| 124 | 121 | 248 | 7,93 | FK300 S | 207-70-14151 |
| | | | | | 300 |
| 146 | 135 | 276 | 11,60 | FK400 S | 208-70-14152 |
| | | | | | 400 |



TL Tiger Long



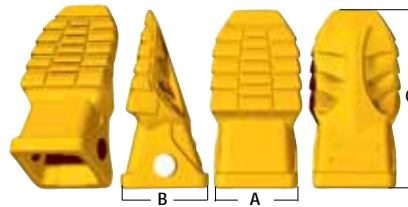
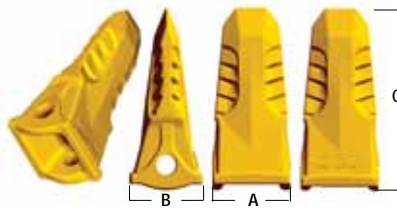
| mm | | | | | |
|-----|-----|-----|-------|-----------------|--------------|
| A | B | C | Kg | Part# | OEM |
| 102 | 112 | 270 | 5,30 | FK200 TL | 20Y-70-K4060 |
| | | | | | 200 |
| 122 | 122 | 299 | 7,70 | FK300 TL | 20Y-70-K4070 |
| | | | | | 300 |
| 146 | 137 | 340 | 11,40 | FK400 TL | 208-70-K1340 |
| | | | | | 400 |



RC Rock Chisel



| mm | | | | | |
|-----|-----|-----|------|------------------|--------------|
| A | B | C | Kg | Part# | OEM |
| 102 | 112 | 267 | 7,0 | FK200 RC | 205-70-19570 |
| | | | | | 200 |
| 124 | 124 | 295 | 10,3 | FK300 RC | 207-70-14151 |
| | | | | | 300 |
| 146 | 136 | 345 | 15,5 | FK400 RC | 208-70-14152 |
| | | | | | 400 |
| 185 | 191 | 438 | 35,1 | FK750 RC | 208-70-14152 |
| | | | | | 750 |
| 188 | 310 | 518 | 54,8 | FK1100 RC | 209-70-54720 |
| | | | | | 1000 |
| | | | | | 1100 |



RPL Rock Penetration Light

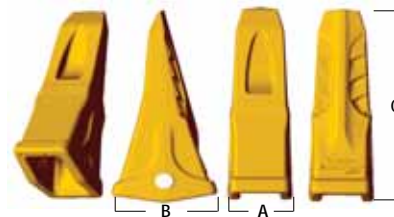


| mm | | | | | |
|------------------|-----|-----|-------|------------------|--------------|
| A | B | C | Kg | Part# | OEM |
| FK420 RPL | | | | | 420 |
| 140 | 146 | 300 | 12,00 | FK600 RPL | 426-847-1110 |
| | | | | | 600 |

R2

Ripper Teeth Intermediate

| mm | | | | | |
|-----|-----|-----|------|-----------------|--------------|
| A | B | C | Kg | Part# | OEM |
| 129 | 185 | 356 | 16,6 | FK155 R2 | 175-78-31230 |
| | | | | | 155 |
| 133 | 215 | 394 | 21,0 | FK355 R2 | 195-78-21331 |
| | | | | | 355 |
| 144 | 230 | 463 | 30,9 | FK375 R2 | 195-78-71320 |
| | | | | | 375 |
| 163 | 266 | 476 | 40,1 | FK475 R2 | 198-78-21420 |
| | | | | | 475 |



DRP Volvo

Teeth

I
Impact



| mm | | | Kg | Part# | OEM | |
|-----|-----|-----|-------|----------------|------------|-----------|
| A | B | C | | | | |
| 151 | 141 | 265 | 13,50 | FV360 I | 1171-01910 | 36 |
| 152 | 156 | 287 | 15,50 | FV460 I | 14553243 | 46 |



SYL
Symmetric



| mm | | | Kg | Part# | OEM | |
|-----|-----|-----|-------|------------------|--------|-----------|
| A | B | C | | | | |
| 152 | 156 | 323 | 16,00 | FV460 SYL | KT55 G | 46 |



Key to part numbers

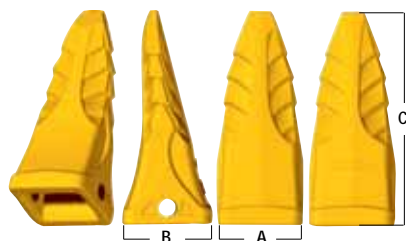
| | | | | |
|----------|----------|------------|------------|----------|
| F | V | 360 | SYL | L |
| Brand | Type | Size | Version | Long |
| | | | Symmetric | |

DRP Kobelco

FAE

Penetration Teeth

| mm | | | Kg | Part# | OEM |
|-----|-----|-----|------|----------------|----------------|
| A | B | C | | | |
| 110 | 115 | 276 | 8,10 | FAE0925 | YN61B01006S001 |

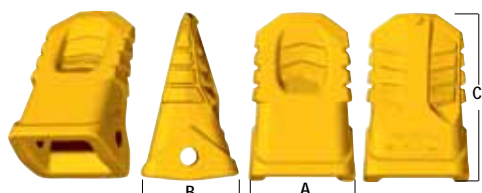


DRP Tata Hitachi

RE



Rock Exploder



| mm | | | Kg | Part# | OEM | |
|-----|-----|-----|------|------------------|---------|-----------|
| A | B | C | | | | |
| 128 | 133 | 236 | 10,1 | FTH210 RE | TB00705 | 21 |
| 159 | 143 | 248 | 12,8 | FTH350 RE | TB00822 | 35 |







Bucket Protection: Quick Guide







|  | 15-22 Tn |  | 30mm 1,2" |
|---|---------------------------|---|--------------|
| FC300... | Excavator teeth size 30 | | |
| FC300 | Excavator adapter size 30 | | |
| F280 WS | Side cutter | | |
| F10 HS | Heel shroud | | |
| F50 CB | Chocky bar | | |
| F60 WB | Wear button | | |



|  | 20-25 Tn |  | 40mm 1,6" |
|---|---------------------------|---|--------------|
| FC350... | Excavator teeth size 35 | | |
| FC350 | Excavator adapter size 35 | | |
| F50 LS | Lip shroud | | |
| F3050 SC | Side cutter (mechanical) | | |
| F12 HS | Heel shroud | | |
| F59 HSQR | Heel shroud (mechanical) | | |
| F39 WR | Wear runners | | |
| F65 CB | Chocky bar | | |
| F75 WB | Wear button | | |

|  | 24-40 Tn |  | 50mm 2" |
|---|---------------------------|--|------------|
| FC450... | Excavator teeth size 45 | | |
| FC450 | Excavator adapter size 45 | | |
| F50 LS | Lip shroud | | |
| F50 LSQR | Lip shroud (mechanical) | | |
| F3050 SC | Side cutter (mechanical) | | |
| F24 HS | Heel shroud | | |
| F69 HSQR | Heel shroud (mechanical) | | |
| F49 WR | Wear runners | | |
| F65 CB | Chocky bar | | |
| F75 WB | Wear button | | |

|  | 40-53 Tn |  | 60mm 2,4" |
|---|---------------------------|---|--------------|
| FC550... | Excavator teeth size 55 | | |
| FC550 | Excavator adapter size 55 | | |
| F60 LS | Lip shroud | | |
| F60 LSQR | Lip shroud (mechanical) | | |
| F3050 SC | Side cutter (mechanical) | | |
| F24 HS | Heel shroud | | |
| F69 HSQR | Heel shroud (mechanical) | | |
| F49 WR | Wear runners | | |
| F65 CB | Chocky bar | | |
| F90 WB | Wear button | | |

|  | 53-68 Tn |  | 75mm 3" |
|---|---------------------------|---|------------|
| FC600... | Excavator teeth size 60 | | |
| FC600 | Excavator adapter size 60 | | |
| F70 LS | Lip shroud | | |
| F70 LSQR | Lip shroud (mechanical) | | |
| F6080 SC | Side cutter (mechanical) | | |
| F40 HS | Heel shroud | | |
| F89 HSQR | Heel shroud (mechanical) | | |
| F59 WR | Wear runners | | |
| F115 WB | Chocky bar | | |
| F100 CB | Wear button | | |

|  | 70-119 Tn |  | 90mm 3,5" |
|---|---------------------------|--|--------------|
| FC700... | Excavator teeth size 70 | | |
| FC700 | Excavator adapter size 70 | | |
| F90 LS | Lip shroud | | |
| F90 LSQR | Lip shroud (mechanical) | | |
| F6080 SC | Side cutter (mechanical) | | |
| F40 HS | Heel shroud | | |
| F89 HSQR | Heel shroud (mechanical) | | |
| F59 WR | Wear runners | | |
| F115 WB | Chocky bar | | |
| F100 CB | Wear button | | |

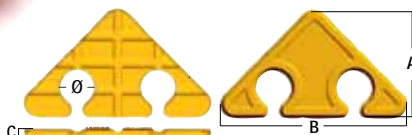
|  | >120 Tn |  | 100mm 3,9" |
|---|---------------------------|---|---------------|
| FC800... | Excavator teeth size 80 | | |
| FC800 | Excavator adapter size 80 | | |
| F90 LS | Lip shroud | | |
| F100 LSQR | Lip shroud (mechanical) | | |
| F6080 SC | Side cutter (mechanical) | | |
| F40 HS | Heel shroud | | |
| F89 HSQR | Heel shroud (mechanical) | | |
| F59 WR | Wear runners | | |
| F150 WB | Chocky bar | | |
| F130 CB | Wear button | | |

Bucket protection

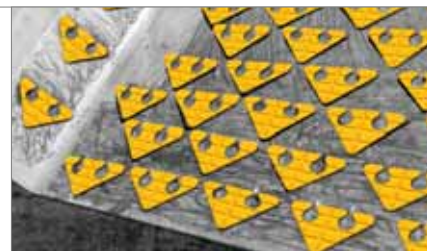
PTV Wear pads



| mm | | C | Ø | Kg. | Part# |
|-----|-----|----|----|------|--------|
| A | B | | | | |
| 158 | 275 | 16 | 50 | 2,00 | PTV-01 |

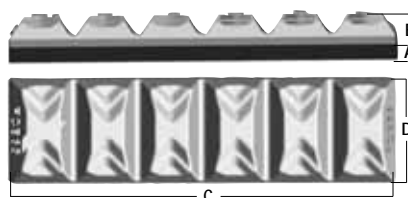


Extended wear life of the surface where placed ✓
 Savings on Maintenance cost: Only worn parts need replacement ✓
 Quick and easy installation: Weld on protectors ✓



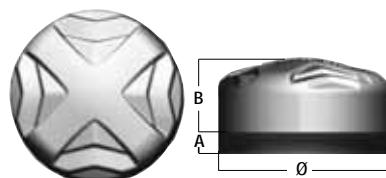
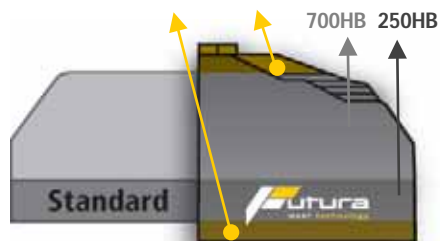
CB Chocky Bars 700HB

| mm | | C | D | Kg | Part# | Cross Ref. |
|-----|----|-----|-----|-----|---------|---------------------------|
| A | B | | | | | |
| 9,5 | 19 | 240 | 25 | 1,0 | F25 CB | D25CB |
| 9,5 | 19 | 240 | 40 | 1,6 | F40 CB | D38CB CB40N 1086NA |
| 9,5 | 19 | 240 | 50 | 2,1 | F50 CB | D51CB CB50N |
| 9,5 | 19 | 240 | 65 | 2,7 | F65 CB | D64CB CB65N 1088NA |
| 9,5 | 19 | 240 | 100 | 4,2 | F100 CB | D100CB CB100N |
| 9,5 | 19 | 240 | 130 | 5,5 | F130 CB | D130CB CB130N 090NA |



WB Wear Buttons 700HB

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



| mm | | Ø | Kg | Part# | Cross Ref. |
|-----|----|-------|------|---------|----------------|
| A | B | | | | |
| 9,5 | 21 | 60,0 | 0,61 | F60 WB | D50BN / WB60 |
| 9,5 | 28 | 75,0 | 1,16 | F75 WB | D75BN / WB75 |
| 9,5 | 34 | 90,0 | 1,40 | F90 WB | D90BN / WB90 |
| 13 | 35 | 115,0 | 3,52 | F115 WB | D114BN |
| 16 | 45 | 150,0 | 7,55 | F150 WB | D150BN / WB150 |



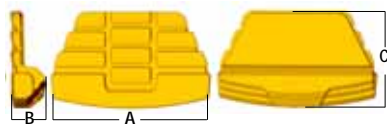
Bucket protection

Side Cutters

WS Weld-On 400HB



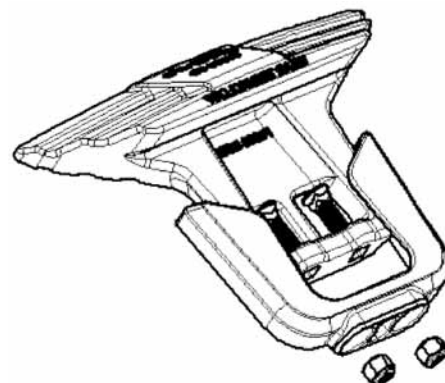
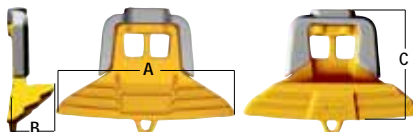
| mm | | | Kg. | Part# | Cross Ref. |
|-----|----|-----|-----|---------|------------|
| A | B | C | | | |
| 150 | 32 | 89 | 1,6 | F150 WS | 14,5-16 |
| 200 | 40 | 123 | 3,4 | F200 WS | 25 |
| 280 | 40 | 123 | 5,0 | F280 WS | 25 WP72S |



SC Mechanically Attached 500HB



| mm | | | Kg. | Part# | Cross Ref. |
|-----|-----|-----|------|----------|--|
| A | B | C | | | |
| 483 | 106 | 316 | 27,8 | F3050 SC | 30-50 TAW38X440 TAW40X440 TAW50X505 |
| 603 | 150 | 373 | 58,7 | F6080 SC | 60-80 TBW75X545 TBW75X655 |



Heel Shrouds

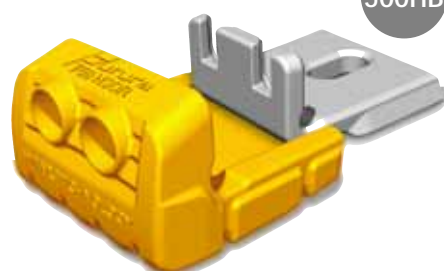
HS Weld-On 400HB



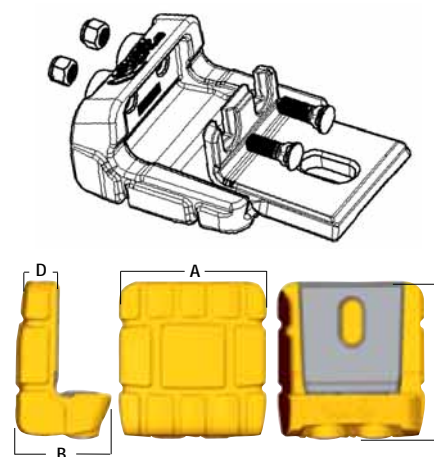
| mm | | | | Kg | Part# | Cross Ref. |
|-----|-----|-----|-----|-------|--------|------------------------|
| A | B | C | D | | | |
| 189 | 98 | 183 | 38 | 9,60 | F10 HS | ES6697-4 ES6697-4HX |
| 189 | 106 | 204 | 43 | 11,85 | F12 HS | ES6697-3 ES6697-3HX |
| 189 | 158 | 266 | 64 | 23,15 | F24 HS | ES6697-2 ES6697-2HX |
| 253 | 205 | 307 | 64 | 40,60 | F40 HS | ES6697-5 ES6697-5HX |
| 250 | 256 | 361 | 115 | 87,90 | F90 HS | ES6697-7 |



HSQR Mechanically Attached



| mm | | | | Kg | Part# | Cross Ref. |
|-----|-----|-----|----|------|----------|------------------------|
| A | B | C | D | | | |
| 206 | 123 | 217 | 49 | 19,5 | F49 HSQR | ES6697-4 ES6697-4HX |
| 206 | 133 | 217 | 59 | 21,8 | F59 HSQR | ES6697-3 ES6697-3HX |
| 255 | 183 | 269 | 69 | 41,4 | F69 HSQR | ES6697-2 ES6697-2HX |
| 255 | 233 | 328 | 89 | 64,3 | F89 HSQR | ES6697-5 ES6697-5HX |

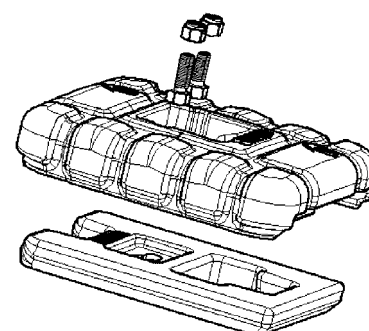
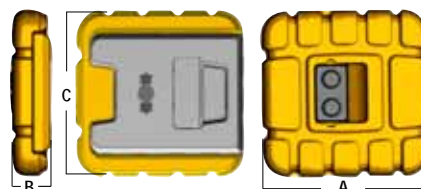


Wear Runners

WR Mechanically Attached 500HB



| mm | | | Kg | Part# | Cross Ref. |
|-----|----|-----|-------|--------|------------------------|
| A | B | C | | | |
| 206 | 39 | 206 | 9,87 | F39 WR | KLR01MC |
| 206 | 49 | 206 | 12,42 | F49 WR | KLR02MC B8X8WR175 |
| 256 | 59 | 256 | 22,87 | F59 WR | KLR01MB |
| 256 | 79 | 256 | 31,24 | F79 WR | KLR02MB B10X10WR275 |



Bucket protection

Lip Shrouds

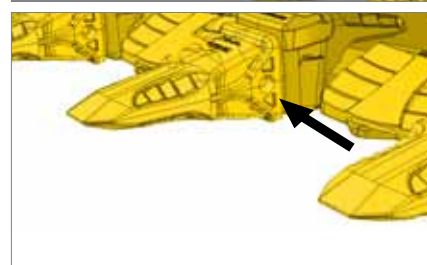
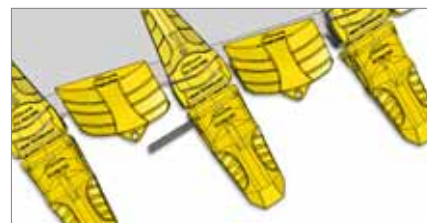
LS Weld-On 400HB



LSQR Mechanically Attached 500HB



500HB

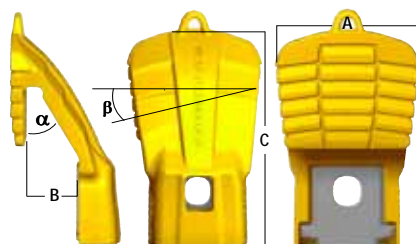
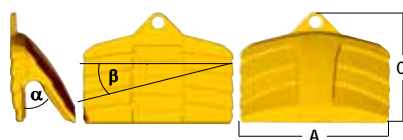


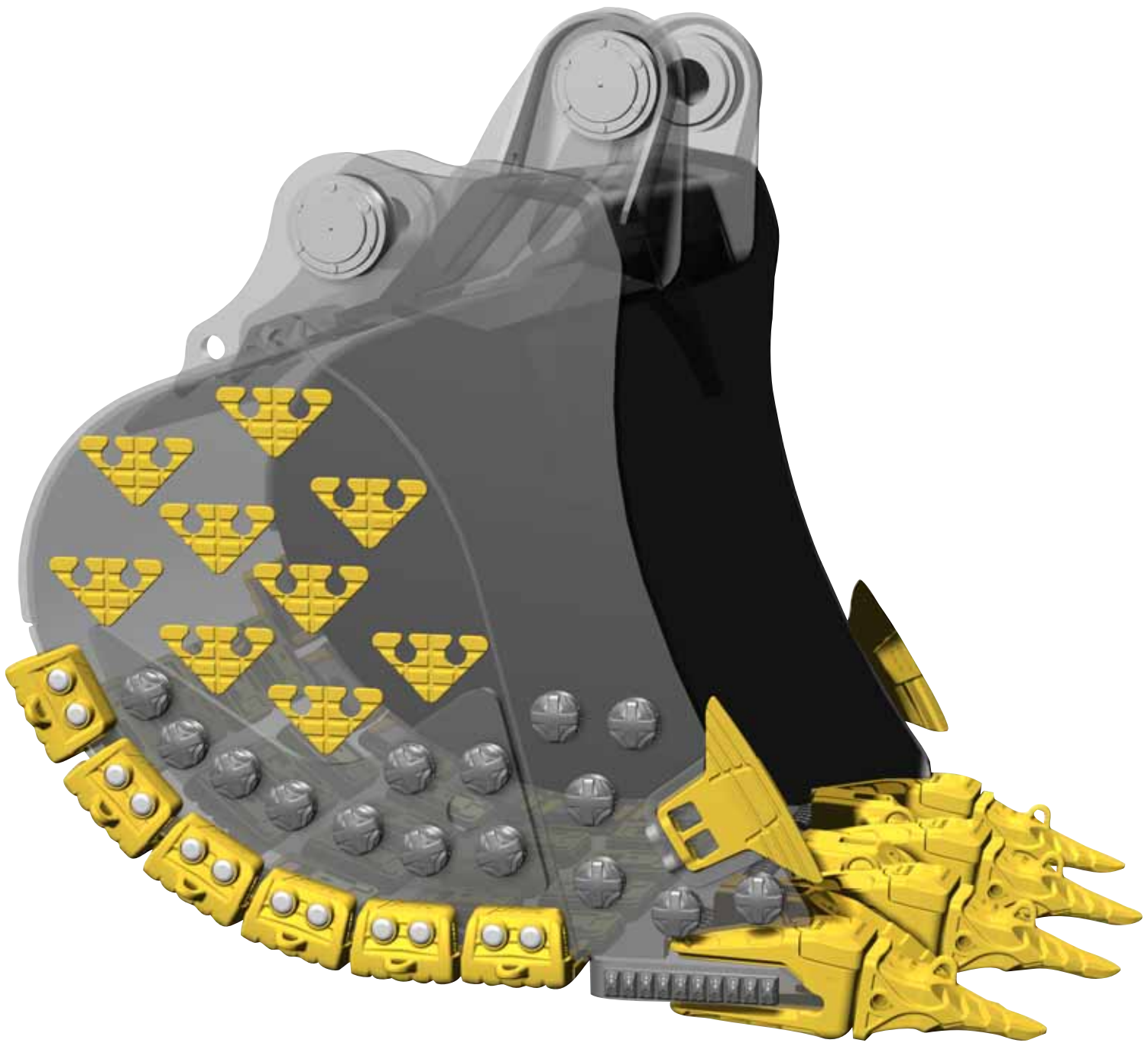
FUTURA lip shrouds are specially designed to ease pin insertion and removal ✓



| mm | | α | β | Kg | Part# | | Cross Ref. |
|-----|-----|----------|---------|------|------------------|-----------|-------------------------------|
| A | C | | | | | | |
| 180 | - | - | 6,1 | | F50 LS | | |
| 150 | 188 | 23° | 15° | 7,0 | F50 LSRH | 40 50 | 460 |
| | 188 | 15° | 7,0 | | F50 LSLH | | |
| 236 | - | - | 19,3 | | F60 LS | | |
| 250 | 231 | 23° | 15° | 20,0 | F60 LSRH | 60 | 550 |
| | 231 | 15° | 20,0 | | F60 LSLH | | |
| 236 | - | - | 21,0 | | F70 LS | | |
| 250 | 231 | 23° | 15° | 21,9 | F70 LSRH | 70 75 | 600 |
| | 231 | 15° | 21,9 | | F70 LSLH | | |
| 268 | - | - | 35,7 | | F90 LS | | |
| 362 | 268 | 35° | 15° | 36,7 | F90 LSRH | 80 100 | 700 |
| | 268 | 15° | 36,7 | | F90 LSLH | | |
| 276 | - | - | 34,6 | | FEB90 | | B90 |
| 356 | 276 | 31° | 15° | 36,4 | FEB90 L | 80 100 | B90L 700 |
| | 276 | 15° | 36,0 | | FEB90 R | | B90R |
| 322 | - | - | 42,0 | | F120 LS | | CESA 24 26-2A |
| 321 | 322 | 30° | 15° | 41,9 | F120 LSRH | 120 | CESA 24 26-2A/1 800 |
| | 322 | 15° | 41,9 | | F120 LSLH | | CESA 24 26-2A/LA |

| mm | | α | β | Kg | Part# | | Cross Ref. |
|-----|-----|----------|---------|-----|---------------------|-----------|------------|
| A | B | | | | | | |
| | 345 | - | - | 13 | F50 LSQR | | |
| 152 | 55 | 347 | 23° | 15° | F50 LSQR RH | 40 50 | 460 |
| | 347 | 15° | 14 | | F50 LSQR LH | | |
| | 403 | - | - | 38 | F60 LSQR | | |
| 247 | 62 | 405 | 23° | 15° | F60 LSQR RH | 60 | 550 |
| | 405 | 15° | 42 | | F60 LSQR LH | | |
| | 424 | - | - | 41 | F70 LSQR | | |
| 251 | 77 | 426 | 23° | 15° | F70 LSQR RH | 70 75 | 600 |
| | 426 | 15° | 43 | | F70 LSQR LH | | |
| | 471 | - | - | 69 | F90 LSQR | | |
| 284 | 92 | 475 | 35° | 15° | F90 LSQR RH | 80 100 | 700 |
| | 475 | 15° | 73 | | F90 LSQR LH | | |
| | 533 | - | - | 98 | F100 LSQR | | |
| 327 | 103 | 555 | 30° | 15° | F100 LSQR RH | 100 | 800 |
| | 555 | 15° | 104 | | F100 LSQR LH | | |
| | 533 | - | - | 98 | F120 LSQR | | |
| 327 | 123 | 555 | 30° | 15° | F120 LSQR RH | 120 | |
| | 555 | 15° | 102 | | F120 LSQR LH | | |





BYG

Europe

BYG France
byg.france@byg.com

BYG Germany
byg.germany@byg.com

BYG Portugal
byg.portugal@byg.com

BYG Russia
byg.russia@byg.com

BYG Spain
byg.spain@byg.com

BYG UK
byg.uk@byg.com

Africa

BYG Nigeria
byg.nigeria@byg.com

America

BYG Canada
byg.canada@byg.com

BYG Sudamerica
byg.sudamerica@byg.com

BYG USA
byg.usa@byg.com

Asia

BYG China
byg.china@byg.com

BYG India
byg.india@byg.com

BYG Singapore
byg.singapore@byg.com

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



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