



**REAL  
STEEL**

# PRODUCT CATALOGUE

**HARDOX®**  
WEARPARTS



0800 REAL STEEL  
[WWW.REALSTEEL.CO.NZ](http://WWW.REALSTEEL.CO.NZ)

## OUR TEAM

Real Steel can get to you anywhere.

Our Wellington and Ashburton-based customer service team backs up a team of sales staff that cover all of New Zealand. All sales staff are equipped with the tools for measuring parts on site and mobile technology to connect with Real Steel systems to aid in quick turnaround of parts.

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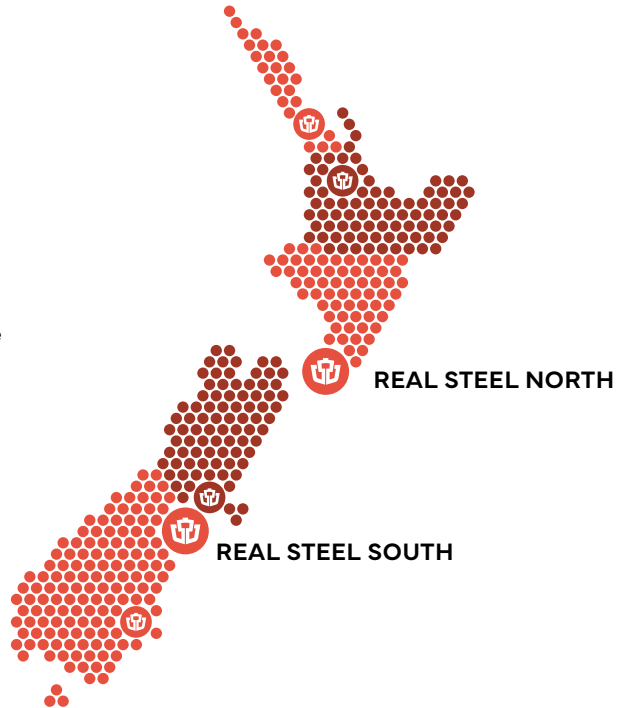


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# ABOUT REAL STEEL



0800 732 578 ■ [REALSTEEL.CO.NZ](http://REALSTEEL.CO.NZ)

## ABOUT US



## WE'RE REAL STEEL

Our family-owned business started in 2002 with roots in the quarrying industry. We intimately understand demanding working environments and know exactly what it takes to thrive in them.

Real Steel specialises in supplying and processing the world's best steels with the world's best design and manufacturing processes to deliver impeccable parts for manufacturing.

### Plate processing that raises the bar

We supply and process the world's best steels with the world's best design and manufacturing processes to deliver impeccable parts for demanding working environments.

Our combination of the largest and highest-precision steel cutting and forming machinery combined with cutting-edge systems and technology ensures that you get superior steel components, delivered on time, in spec, and in full.

### Wear parts that work harder

Your operations will see measurable savings and extended maintenance intervals thanks to our expertise built from our roots in the quarrying industry, the world's best brands of steel and cast wear parts, engineering design, and on-site service.







### Design Team

Our large team of tertiary-qualified designers uses the latest software to design fabricated wear parts and structures and 3D forming casting patterns. We also custom make one-off parts for a range of applications.

We've been doing this a long time and have a huge library of drawings at our disposal. This can save you the time and hassle of measuring up and you can be sure your parts will fit.

### World-class Steel Processing

At Real Steel we are constantly investing in the world's best machinery to get maximum performance out of our steel and your designs.

We have the most capable steel processing equipment at your service: huge press brakes, massive laser and plasma cutters, powerful drilling and CNC milling machines.



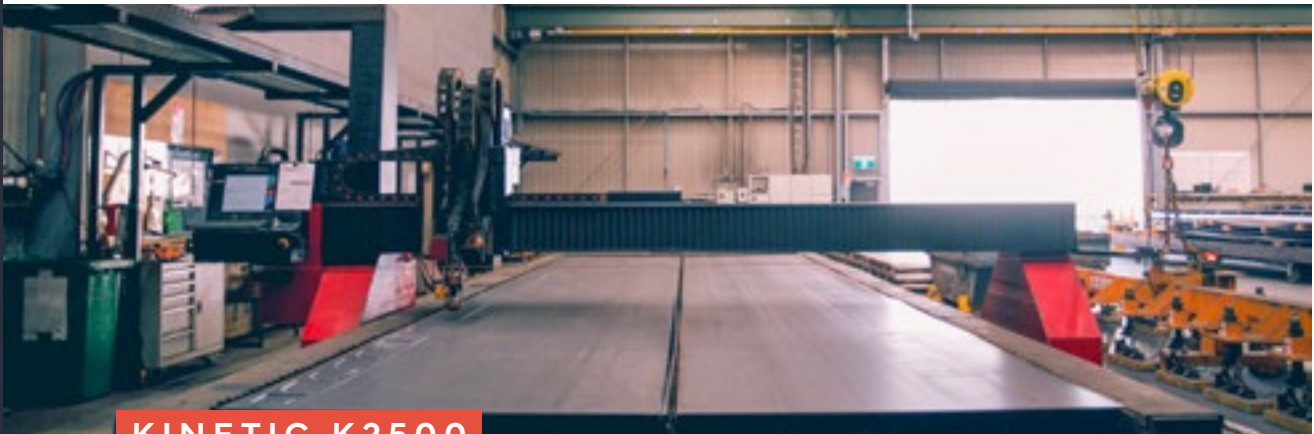
## CAPABILITIES



### INKY

#### Automated part marking

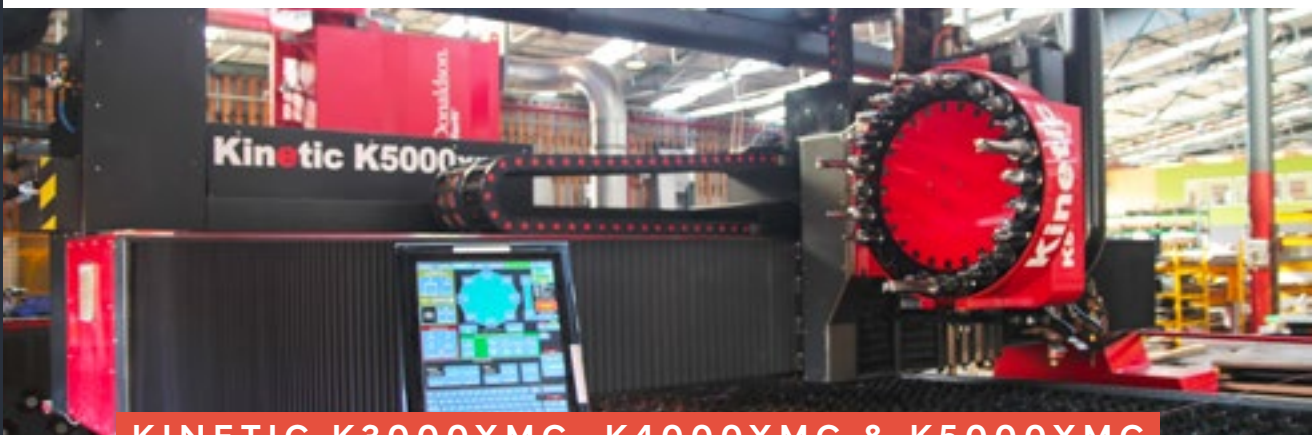
- Scans and identifies parts
- Inkjet prints all part info including barcode for full traceability



### KINETIC K2500

#### Standard plasma cutting

- Plasma up to 60mm
- Oxyfuel up to 200mm
- Cutting bed size 22m x 3.2m



### KINETIC K3000XMC, K4000XMC & K5000XMC

#### Plasma cutting, bevelling and drilling

- Plasma up to 60mm
- Tapping up to 30mm
- Drilling up to 100mm
- Boring up to 200mm







## LVD IMPULS

### Large laser cutting

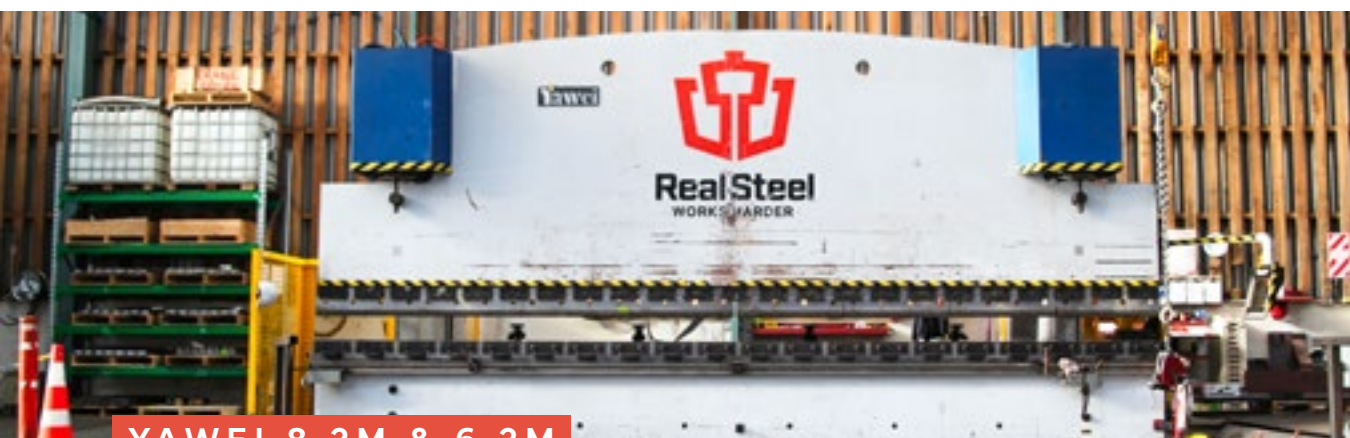
- 12m x 3.1m table capacity
- 7000kg max sheet weight
- 16mm max cutting thickness
- 2x tables
- 6kW CO2 laser



## LVD PHOENIX

### Standard laser cutting

- High-production laser cutting
- Automated loading and unloading
- 16mm max cutting thickness
- 6m x 2m table capacity
- 6kW fibre laser



## Yawei 8.2M & 6.2M

### Large heavy pressing

- 1000t max pressing force
- 5-axis CNC
- Various and custom tools available
- 8.2m length
- Desktop simulation software



## CAPABILITIES



### DERATECH 400T

#### Accurate pressing

- 5-axis CNC
- D-Alpha fully automatic angle measuring and correction system
- Hydraulic CNC crowning
- 4m forming length capacity



### LVD EASY FORM 3M & 4.5M

#### Super-accurate pressing

- 350t pressing force
- Rolla-V tooling
- CADMAN-B Bending CAM Simulation and Easy-Form in-process angle monitoring/correction system
- Sectional tooling with hydraulic clamping
- CNC crowning V-axis standard



### PENTA 6KW FIBRE LASER

#### Standard laser cutting

- 6m x 2.5m table size
- 2x tables
- 16mm max cutting thickness (carbon steel, aluminium and stainless)





KAO MING 2000SD & 3000SD

### Machining

- 3000 x 1250 table size
- 6000kg workpiece capacity
- GibbsCAM offline programming
- Cat 50 spindle max cutting thickness





## CAPABILITIES

### Our finishing processes pull out all the stops to save you time

At Real Steel we make it a priority to deliver your parts in the best possible condition. That's why we've invested in the best equipment to tidy up, clean and wrap your parts so

that they arrive to you ready to use. No sanding, grinding or cleanup required.



**LISSMAC XL 1500 & XS 300**

#### Deburring

- 1500mm max part width
- 12m max part length
- Eliminates sanding, grinding and cleanup
- Two machine sizes to suit large and small parts



**AUTOMATED WRAPPING LINE**

#### Quality packing

- Orbital technology
- Rust-inhibiting wrap
- Parts arrive just as they left the factory





# STEEL PLATE



0800 732 578 ■ [REALSTEEL.CO.NZ](https://www.REALSTEEL.CO.NZ)



### SWEDISH STEEL (SSAB)

SSAB is the producer of the world's cleanest, most consistent and technically advanced high strength steels. Their products allow for lighter structures with increased strength and longevity.

SSAB plate has an AccuRollTech™ guarantee. Computers check the plate over 100 times a second during roll out achieve a maximum thickness variation of 0.5–1.2mm for thicknesses of 2mm–80mm.

#### SSAB Processing Instructions



Everything you need to work with the world's most advanced steel, online:

- Machining for Strenx®
- Welding of Strenx®
- Thermal cutting of Hardox® & Strenx®
- Bending of high strength steel — Hardox®, Strenx®

Where to find them:

- Go to [www.ssab.com/support/processing](http://www.ssab.com/support/processing)
- Scroll to the bottom of the page

Select the relevant products and processing instructions you are looking for on the left hand side.

#### WeldCalc App

High-quality steels deserve high-quality welding.

SSAB WeldCalc calculates and presents welding recommendations for both Hardox® wear plates and Strenx® performance steels. Based on the welding method, the welding joint, steel grades and thicknesses, it gives you the result in seconds:

- Preheat and interpass temperatures
- Minimum and maximum heat input
- Welding machine settings (amps, volts and travel speed)
- Risk analysis

You can save the results and share the report as a PDF.



► For SSAB calculators and tools visit:  
[ssab.com/support/calculators-and-tools](http://ssab.com/support/calculators-and-tools)





# HARDOX®

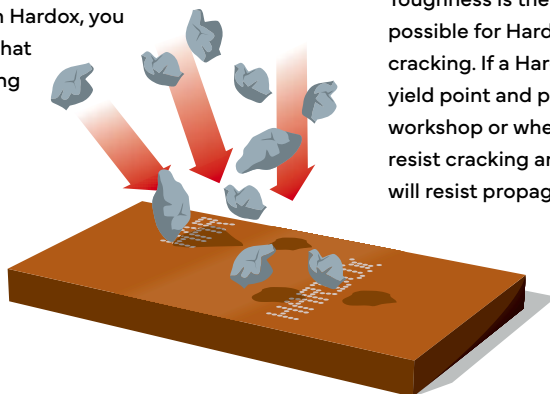
WEAR PLATE

## HARDOX® WEAR PLATE

**Extreme wear resistance has always been key to the success of Hardox.**

Hardox provides a unique combination of hardness and toughness for smarter, lighter structures with extreme performance and extended service life.

Originally intended as a wear plate, it turned out that the unique combination of hardness and toughness allows Hardox to perform as a load-carrying part in many applications. With Hardox, you can design structures that are wear-resistant, strong and lightweight at the same time.



### Hardness and toughness working together

Hardness is what gives Hardox its unique wear resistance and structural strength.

Hardox delivers the same wear resistance during the plate's entire service life, since it remains equally hard throughout. Hardness also provides excellent yield and tensile strength to resist deformation.

Toughness is the other strong point of Hardox, making it possible for Hardox to be bent, formed and welded without cracking. If a Hardox wear plate is stressed beyond its yield point and plastically deformed—on purpose in the workshop or when hit by a heavy rock on site—it will resist cracking and if a localized crack should occur it will resist propagation.

## Hardox® WearCalc

**Makes tough decisions about choosing the right wear plate easy.**

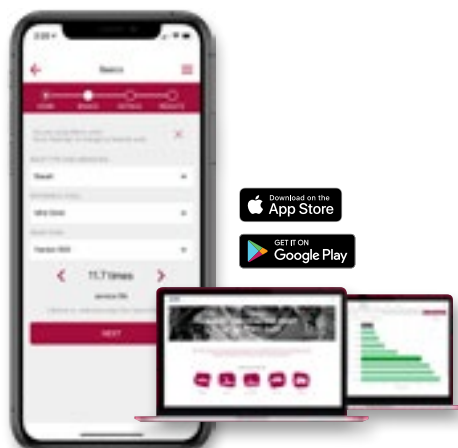
The best wear protection for your equipment starts with the right wear plate. As your equipment takes a pounding every day, you probably wonder how much wear and tear it can take, if you've chosen the right materials and steel grades, and whether your plate is worth the investment.

WearCalc — offered free of charge to SSAB's wear plate customers — lets you quickly and easily calculate the relative service life for all Hardox wear parts of different grades, so you can choose the best plate for your needs.

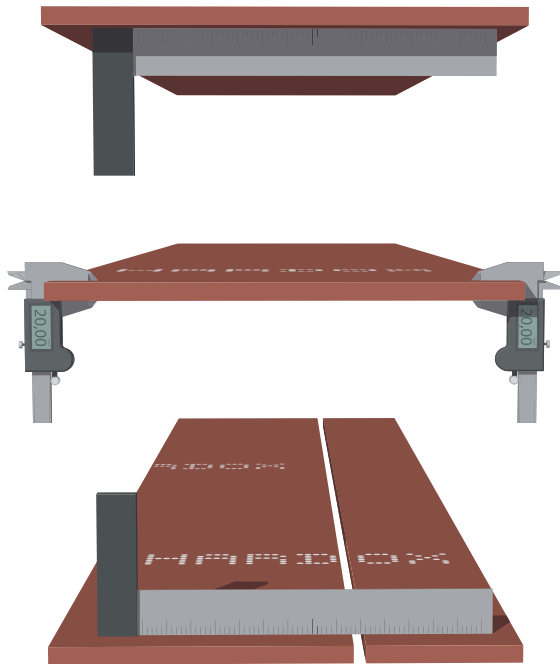
You can get WearCalc as an app or as a feature-rich desktop version that offers you the full potential to calculate service life for equipment like dump trucks and tippers, as well as sliding wear, impact wear and erosive wear.

Calculate sliding wear for different rock types using different grades of Hardox® wear plate.

- Find out the possible weight reduction after upgrading
- Identify payload increase
- Get the service life increase after upgrading
- Save the results and share the report with others



# HARDOX WEAR PLATE



## Flatness

Good for production and appearance. Flat plates can easily be welded to each other without problems with the welding gap. And if you are producing equipment with large flat surfaces they look great when painted or used as 'billboards'.

## Uniform Thickness

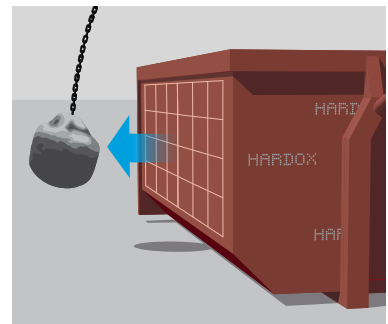
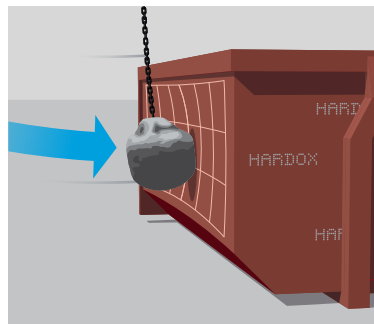
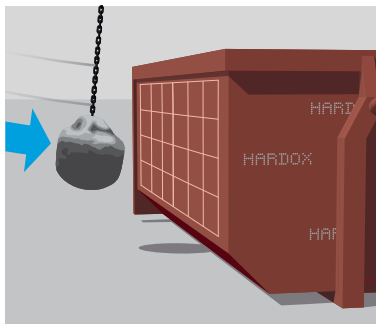
Narrow tolerances guarantees your finished structure will be as light as you expect. And when processing the plate even a fraction of a millimeter counts, since bending force and springback are directly related to the thickness.

## Internally Relaxed

Thanks to careful heat treatment during production, Hardox wear plates have uniform internal properties. This means that a plate will stay flat when cut into smaller pieces, whether it's cut cold or hot.

## Impact Resistant

The impact force from large and heavy objects is distributed over the plate, resisting dents and cracking. The metal absorbs the energy and returns to its original shape like a tennis racket hitting a ball.



## Workshop Friendly

Extreme consistency is a trademark of Hardox. When welding, bending or machining you can expect Hardox to deliver predictable performance within plates, between plates and over time. And as New Zealand's Hardox Wearparts centre we're always available for technical assistance from local and international engineers.



## Grades of Hardox®

► See Page 20 for range of thicknesses in stock

### HARDOX 450

Hardness: 425–475 HBW  
Yield strength: 1200 MPa  
Impact toughness: 50J (–40°C)  
Thicknesses: 2–130mm

Hardox 450 is an all-round wear resistant plate. Due to its high toughness, good bendability and excellent weldability, the plates can also be used for load bearing duties in certain applications.

Hardox 450 has a good balance of hardness and toughness that makes it a good all round wear and impact resistant solution.

#### APPLICATIONS

- Weld-in cutting edges
- Truck bodies
- Containers/bins
- Crushers
- Feeders
- Conveyors
- Buckets
- Knives

### HARDOX 500 TUF

Hardness: 475–505 HBW  
Impact toughness: 27J (–20°C)  
Thicknesses: 4–25.4mm

Hardox 500 Tuf wear plate is the latest upgrade in the Hardox range. It delivers high strength, extreme hardness and guaranteed toughness in one and the same wear plate. Hardox 500 Tuf combines the best properties from Hardox 450 and Hardox 500. The result is a wear plate with no competition on the market.

#### APPLICATIONS

- Tipper bodies
- Containers
- Mining tippers and trays
- Buckets
- Agricultural equipment
- Liners
- Wearparts

### HARDOX 500

Hardness: 450–540 HBW  
Yield strength: 1300 MPa  
Impact toughness: 37J (–40°C)  
Thicknesses: 4–80mm

Hardox 500 is a hard and yet tough, bendable and weldable abrasion resistant plate which is used in applications that demand higher wear resistance.

Hardox 500 has a balance that tips more in favour of sliding wear resistance at the expense of impact toughness.

#### APPLICATIONS

- Bolt-on cutting edges
- Cheek plates
- Crushers
- Feeders
- Buckets
- Knives
- Gears/sprockets

### HARDOX 600

TO ORDER

Hardness: 570–640 HBW  
Impact toughness: 20J (–40°C)  
Thicknesses: 8–50mm

Hardox 600 has a hardness of 600 Brinell, but can still be cut and welded.

Hardox 600 is an excellent wear plate for high performance applications when hardness and extreme wear resistance are your top priorities.

#### APPLICATIONS

- We use it to solve extreme wear issues in rock processing applications.

STRENX

**STRENX™**  
PERFORMANCE STEEL



## STRENX HIGH STRENGTH STEEL

### Improve performance with less weight

To make products lighter you need stronger steel that can be used in thinner dimensions. Depending on the starting point Strenx designs can reduce steel structure weight by up to 40 per cent and still achieve greater performance and a longer service life.

### Quality and consistency guarantees

SSAB's Strenx guarantees include tight thickness and flatness tolerances, and bending guarantees. These product guarantees are made in order to promise superior workshop and application performance.

### Superior performance and usability

Strenx features remarkable impact toughness with 700 MC Plus grade testing 40J at  $-60^{\circ}\text{C}$ . Bending radii as tight as 1.0x thickness and friendly welding properties mean the possibilities for weight reduction and fabrication efficiency are vast.

### Load more and burn less fuel

Increase payload and improve fuel efficiency. Trucks, trailers, trains and buses can become lighter without compromising on performance, safety and service life. Strenx steel delivers yield strengths of 600–1300 MPa, while being as workshop-friendly as regular steel.

### Reach higher and further

Strenx steel enables increased reach both upwards and outwards. Achieve greater performance without compromising on safety and without making the complete unit too heavy.

### Good news for farming and forestry

High capacity and low weight are important to agriculture and forestry. Low weight minimizes soil compacting on crop fields and ground damage in the forest. Strong and light machinery means less fuel, less wear and less hours worked for the same result.





## Grades of Strenx

► See Page 20 for range of thicknesses in stock

### STRENX 700 MC PLUS

Impact toughness: 40J (–6 0°C)  
Yield strength: 700 MPa  
Thicknesses: 3–12mm

Strenx 700 MCPlus is a high strength cold-forming steel distinguished by high strength, superior formability (1x thickness up to 12mm) and a high impact toughness.

### STRENX 700

Impact toughness: 69J (–40°C)  
Yield strength: 700 MPa  
Thicknesses: 4–160mm

Strenx 700 is a high strength structural steel (700 MPa) with outstanding toughness for load carrying structures and other applications. Has uniform properties, easy to bend and weld.

### STRENX 900 TO ORDER

Impact toughness: 27J (–40°C)  
Yield strength: 900 MPa  
Thicknesses: 4–100mm

Strenx 900 is a high strength steel (900 MPa) that provides a unique combination of strength and toughness together with first-rate workshop properties. It is intended for load carrying structures with high demand on low weight.

### STRENX 960 TO ORDER

Impact toughness: 40J (–40°C)  
Yield strength: 960 MPa  
Thicknesses: 4–100mm

Strenx 960 is a high strength steel (960 MPa) that provides a unique combination of strength and toughness together with first-rate workshop properties. It is intended for load carrying structures with high demand on low weight.

### STRENX 1100 TO ORDER

Impact toughness: 27J (–40°C)  
Yield strength: 1100 MPa  
Thicknesses: 4–40mm

Strenx 1100 (1100 MPa) is suited to meet the demand from equipment subjected to the heaviest loads but yet have to be light and tough. In spite of its strength the material is surprisingly easy to weld and bend.



DUROXITE

DUROXITE®

## DUROXITE OVERLAY PLATE

### Duroxite fights wear, guaranteed

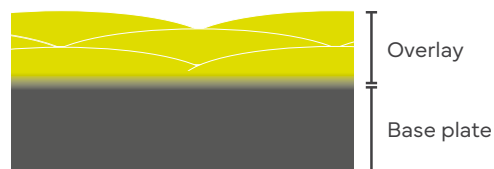
Add weeks, months, even years of trouble-free operations to your most extreme wear situations.

Duroxite consists of a highly abrasive-resistant chromium carbide layer bonded to a mild steel base plate. Overlay thickness is guaranteed within  $\pm 10\%$  and wear properties are guaranteed down to 75% of the overlay thickness. The remaining 15% is a transition layer necessary to maintain good bonding to the base plate.

### Designed for fabrication

Duroxite is designed to be hard, without giving you a hard time in the workshop. Even the most worn-out equipment can be rebuilt and repaired to perform as new.

With our broad product offering, including Hardox and Duroxite, and top-of-the-line processing equipment, you are able to restore products of practically any condition, size and design.



### DUROXITE 100

**Composition:** 3.5% Carbide, 20% Chrome

**Hardness:** 550-660 HBW

**Thicknesses:** 10-19mm

**Sheet size:** 3050-1450mm

► See Page 20 for range of thicknesses in stock

### Duroxite empowers your industry

The performance of Duroxite saves money and improves productivity in a wide range of applications through higher output and less maintenance. Duroxite is the natural choice for industries active in mining, energy, quarries, cement production and many other areas where abrasive materials require extremely hard surfaces.



## GRADE 350 MEDIUM-TENSILE

### The longest sheets of steel to expand possibilities and reduce complexity

We supply top quality Grade 350 steel in super long 10,000mm sheets. Combine this with our advanced steel processing machinery and you can create unique design solutions employing fewer pieces for reduced fabrication time.

**G350 AS/NZ 1594 & AS/NZ 3678 L15**

Yield strength: 350 MPa  
Thicknesses: 5–100mm

► See Page 20 for range of thicknesses in stock

## CORTEN STEEL

### Weather-resistant steels

Corten is known as “weathering steel” because it refers to the chemical composition of these steels, allowing them to exhibit increased resistance to atmospheric corrosion compared to other steels. This is because the steel forms a protective layer on its surface under the influence of the weather. Weathering steel, also known as low-alloy steel, are steels with a carbon content of less than 0.2 wt. %.

The corrosion-retarding effect of the protective layer is produced by the particular distribution and concentration

of alloying elements in it. The layer protecting the surface develops and regenerates continuously when subjected to the influence of the weather. In other words, the steel is allowed to rust in order to form the ‘protective’ coating.

**CORTEN JIS G3125 SPA-H**

Thicknesses: 2.5–5mm (other sizes by special order)

► See Page 20 for range of thicknesses in stock

## PLATE IN STOCK AT REAL STEEL

Grades, thicknesses and sizes outside of this range can be sourced upon request.

► [Contact us for details on plate geometry.](#)

	WEAR RESISTANT PLATE				HIGH TENSILE PLATE		WEATHERING STEEL	MEDIUM TENSILE PLATE	
	HARDOX® WEAR PLATE			DUROXITE™	STRENX™ PERFORMANCE STEEL		CORTEN	GRADE 350	
THK	450	500 TUF	500	100	SX700 MCP	SX700E	JIS G3125 SPA-H	AS/NZ 1594	AS/NZ 3678 L15
2	●								
2.5							●		
3	●				●		●		
3.2	●								
4	●				●		●		
5	●	●			●		●	●	
6	●	● — ○			●	●		●	●
7		●							
8	○ — ● — ○				●	●		●	●
10	○ — ● — ○			●	●	●		●	●
12	○ — ● — ○			●	●	●		●	●
15				●					
16	○ — ● — ○					●		●	●
19				●					
20	○ — ● — ○					●			●
25	○ — ● — ○					●			●
32	●		●			●			●
40	●		●			●			●
50	●		●			●			●
60	●					●			●
75	●								
80	●					●			●
100						●			●

○ — Hardox 500 Tuf fulfills the role of this plate at this thickness

## PRE-CUT PLATES / WEAR STRIPS HANDY SHEETS

**STRENX™**  
PERFORMANCE STEEL

### Strenx 700 MC Plus Handy Sheets

Thickness	Part Code	Size
3	HS-SX700MCP-3-01	1160 x 2500
3	HS-SX700MCP-3-02	1160 x 3000
4	HS-SX700MCP-4-01	1230 x 2500
4	HS-SX700MCP-4-02	1230 x 3000
5	HS-SX700MCP-5-01	1500 x 2500
5	HS-SX700MCP-5-02	1500 x 3000
6	HS-SX700MCP-6-01	1500 x 2500
6	HS-SX700MCP-6-02	1500 x 3000
8	HS-SX700MCP-8-01	1500 x 2500
8	HS-SX700MCP-8-02	1500 x 3000
10	HS-SX700MCP-10-01	1500 x 2500
10	HS-SX700MCP-10-02	1500 x 3000
12	HS-SX700MCP-12-01	1500 x 2500
12	HS-SX700MCP-12-02	1500 x 3000

### Strenx 700 E Handy Sheets

Thickness	Part Code	Size
16	HS-SX700-16-01	2500 x 1200
20	HS-SX700-20-01	2500 x 1200
25	HS-SX700-25-01	2500 x 1200

## GRADE 350

### G350 AS/NZ 1594 Handy Sheets

Thickness	Part Code	Size
5	HS-GR350-5-05	1520 x 2900
6	HS-GR350-6-05	1520 x 2900
8	HS-GR350-8-05	1520 x 2900
10	HS-GR350-10-05	1520 x 2900
12	HS-GR350-12-05	1520 x 2900
16	HS-GR350-16-05	1520 x 2900

**HARDOX®**  
WEAR PLATE

### Hardox 450 Handy Sheets

Thickness	Part Code	Size
3	HS-HX450-3-01	2500 x 1200
3.2	HS-HX450-3.2-01	2500 x 1200
4	HS-HX450-4-01	2500 x 1200
5	HS-HX450-5-01	2500 x 1200
6	HS-HX450-6-01	2500 x 1200

### Hardox 500 TUF Handy Sheets

Thickness	Part Code	Size
5	HS-HX500T-5-01	2500 x 1200
6	HS-HX500T-6-01	2500 x 1200
8	HS-HX500T-8-01	2500 x 1200
10	HS-HX500T-10-01	2500 x 1200
12	HS-HX500T-12-01	2500 x 1200
16	HS-HX500T-16-01	2500 x 1200
20	HS-HX500T-20-01	2500 x 1200
25	HS-HX500T-25-01	2500 x 1200

### Hardox 500 TUF Wear Strips

Thickness	Part Code	Size
5	WS-HX500T-5-01	50 x 2480
6	WS-HX500T-6-01	50 x 2480
8	WS-HX500T-8-01	50 x 2480
8	WS-HX500T-8-02	75 x 2480
8	WS-HX500T-8-03	100 x 2480
10	WS-HX500T-10-01	75 x 2480
10	WS-HX500T-10-02	100 x 2480
12	WS-HX500T-12-01	75 x 2480
12	WS-HX500T-12-02	100 x 2480
16	WS-HX500T-16-01	100 x 2480

Contact us if you need a custom sized plate or wear strip







# ROAD TRANSPORT



## HARDOX IN ROAD TRANSPORT



### Geared up to maximise performance and reduce running costs

Our specialised team works to specify and convert drawings into ordered flat pack bin and chassis kits. Our kits comprise the fewest possible parts to achieve the strongest finished product — all ordered for extremely fast and highly precise fabrication.



#### Tipper bodies

Hardox is perfect for tipper trucks and trailers used in quarrying, mining and other applications involving the moving of rocks and earth. Hardox lets you design low-weight bodies with the wear and impact resistance of much heavier structures.



#### Truck bodies

A Hardox truck body is lighter and more durable thanks to its combination of hardness and toughness. Hardox allows for a design with a minimum of reinforcing beams on the outside. Lower air resistance and more load-carrying capacity give better transport economy.



#### Containers

Containers made of Hardox are lighter, stronger and will last longer. They also give a wider field of applications. Wood chips one day, demolition rubble the next—a Hardox container will handle the toughest of loads and still return in good shape at the end of the day.

## Uncompromising performance

With just one piece of Hardox we eliminate everything that hurts performance and decreases service life. This is unbeatable.

**HARDOX®**  
WEAR PLATE

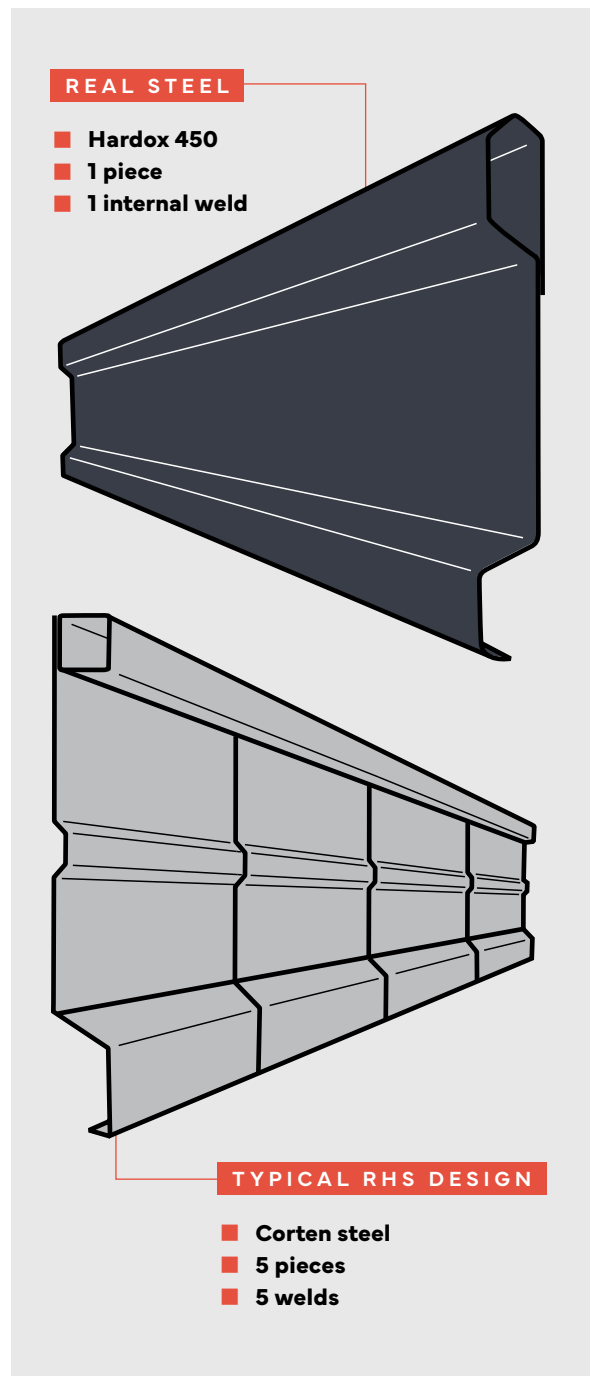
We do more with one piece of precision-folded steel than others can do with five.

We form tipper sides and decks from one piece of Hardox 450. From coaming rail to bottom skirt, headboard to tailgate, up to 8.2m in length you'll see no welds along the sides or in the floor. No weaknesses.

You get reduced tare weight, increased payload and unparalleled service life. And a truck body that looks beautiful from every angle.

## 8.2m truck side design comparison

RHS & Corten vs Real Steel One-Piece Side



## Coaming rail performance

RHS vs Real Steel One-Piece Coaming Rail

RHS

**-29%**  
**LIGHTER**

RHS

**+170%**  
**MORE STATIC LOAD**  
STRUCTURAL LOAD CAPACITY

RHS

**+272%**  
**MORE DEFLECTION**  
DEFORMATION RESISTANCE



## STRENX IN ROAD TRANSPORT



### Strong and reliable from surface to core

**Strenx steel increases payloads and improves fuel efficiency of trucks and trailers by making them lighter without losing performance, safety and service life.**

All steel has the same specific weight, so the only solution to less weight is to use thinner steel that is stronger. Strenx steel solves the equation with yield strengths of 600–1300 MPa, while still being as welcome in the workshop as regular steel.

With a Strenx chassis weight can be decreased significantly by using thinner plate that is also stronger. Depending on the chassis design, Strenx can reduce the total weight by 30–50%.

**STRENX™**  
PERFORMANCE STEEL

A lighter trailer allows for an increased payload so not only can it cart more material, it will weigh less when empty. Increasing payload and reducing fuel consumption is a huge win.

Reduced plate thickness enables a quicker and much cheaper welding process. 10-metre sheets of Strenx combined with our 8.2m forming capability means larger profiled and formed parts requiring fewer welds. With this in mind total production costs can be reduced by 30%.





# HARDOX WEARPARTS

**HARDOX**  
WEAR PLATE



0800 732 578 ■ [REALSTEEL.CO.NZ](http://REALSTEEL.CO.NZ)

## HARDOX WEARPARTS

**We don't just pump out parts.  
We engineer to make them better.**

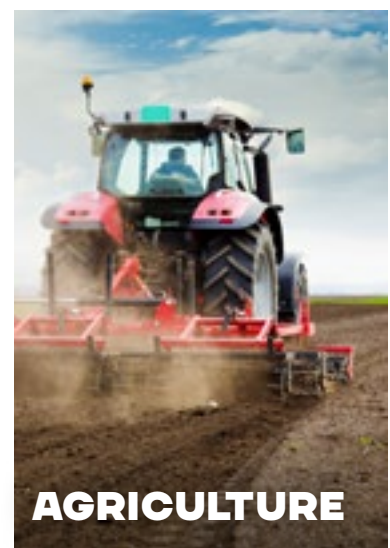
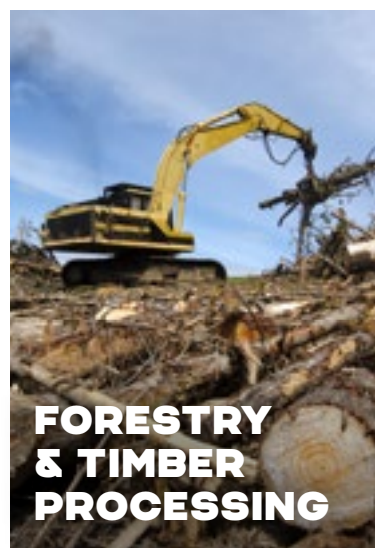
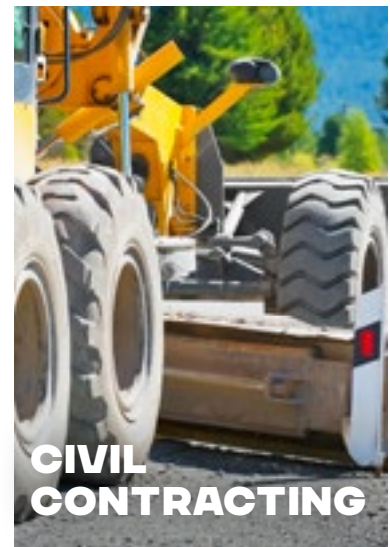
Real Steel is a member of the Hardox Wearparts network—dedicated experts using state-of-the-art techniques and processes certified by Swedish Steel (SSAB). We have the skills to create and redesign solutions that enhance performance and optimise value.

Over 40 years SSAB have continued to develop and improve Hardox steel. Our partnership gives us direct access to this expertise to solve your wear problems to deliver increased service life of up to ten times or more.



### Hardox is everywhere

Working hard to improve performance and reduce running costs in a range of industries:







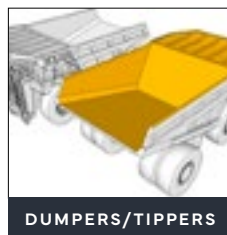
**DOZERS**

- Blade Skins
- Cutting Edges & End Bits
- Rippers
- Blade Conversions
- Side Plates



**EXCAVATORS**

- New/Rebuild Buckets
- Cutting Edges
- Skins
- Side Cutters
- Wear Strips



**DUMPERS/TIPPERS**

- Lining Plates
- Beds
- Bin Kits

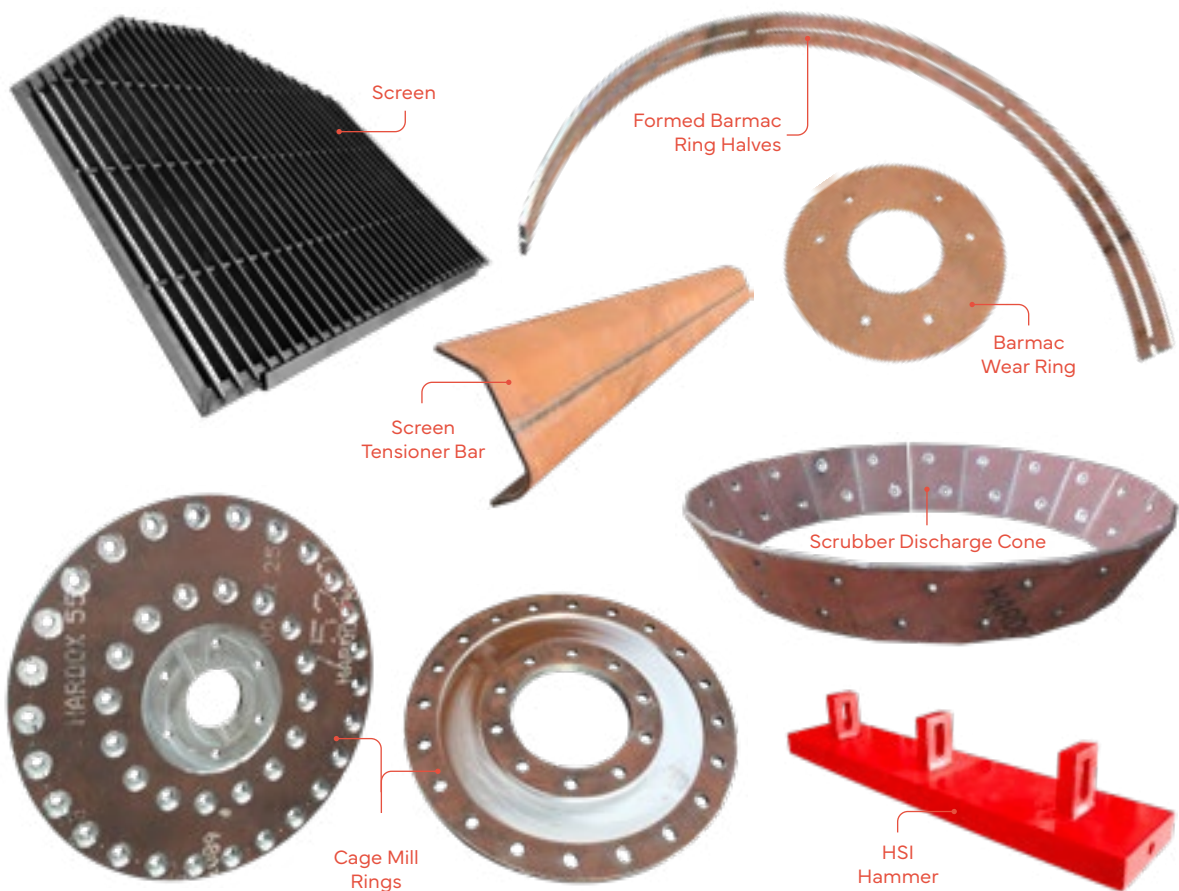


**GRABS/GRAPPLES**

- Cutting Edges
- Grab Tips
- Grab Tines



## QUARRYING / MINING / AGGREGATES



**HAMMER MILLS**

- Bolt-On/Bolted Lining Plates
- Hammerst
- Grizzly Bars
- Screens



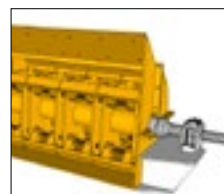
**CONVEYORS**

- Conveyor Paddles
- Sprocket Wheels
- Bolt-On/Bolted Lining Plates



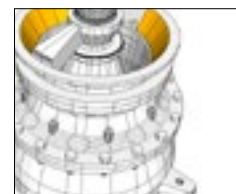
**JAW CRUSHERS**

- Cheek Plates
- Bolt-On/Bolted Lining Plates
- Weld-On Lining Plates
- Screens



**IMPACT CRUSHERS**

- Grizzly Bars
- Screens
- Bolt/Bolted Lining Plates
- Weld-On Lining Plates
- Blow Bar Support Plates



**CONE CRUSHERS**

- Bolt-On Lining Plates
- Weld-On Lining Plates



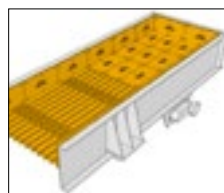
**SKIPS**

- Bolt-On Lining Plates
- Bolted Lining Plates



**CHUTES**

- Bolt-On Lining Plates
- Bolted Lining Plates



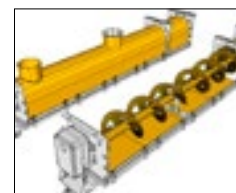
**FEEDERS**

- Bolted Lining Plates
- Bolt-On Lining Plates
- Grizzly Bars
- Screens



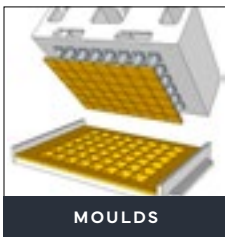
**SCREENS**

- Grizzly Bars
- Screens
- Grizzly Bar Seats



**SCREW CONVEYORS**

- Tubes
- Feeder Screws
- Bolted Lining Plates



- Tamper Shoes
- Cavity Walls



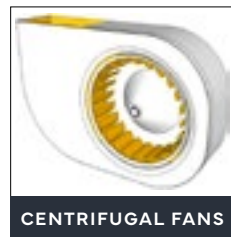
- Weld-On Lining Plates
- Bolt-On Lining Plates



- Mixer Paddles
- Drums
- Chutes



- Weld-On Lining Plates
- Bolt-On Lining Plates
- Paddles



- Fan Blades

## CIVIL CONTRACTING



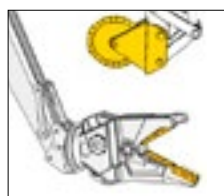
**ASPHALT DRYERS**

- Tubes
- Fins
- Weld-on Lining Plates



**PAVERS**

- Floor Plates
- Bolt-On Lining Plates
- Runners
- Screed Plates



**DEMOLITION**

- Cutter Wheels
- Knives
- Pulverizer Teeth



**EXCAVATORS**

- New/Rebuild Buckets
- Cutting Edges
- Skins
- Side Cutters
- Wear Strips



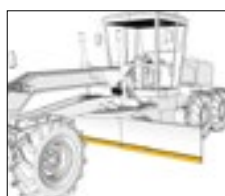
**LOADERS**

- New/Rebuild Buckets
- Cutting Edges
- Skins
- Side Cutters
- Wear Strips



**DOZERS**

- Blade Skins & Conversions
- Cutting Edges & End Bits
- Rippers
- Side Plates



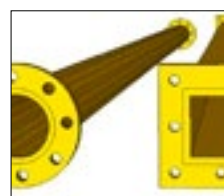
**GRADERS**

- Back Rails
- Mould Board
- End Bits
- Overlays



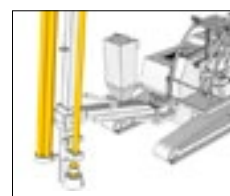
**DUMPERS/TIPPERS**

- Lining Plates
- Beds
- Bin Kits



**DREDGING**

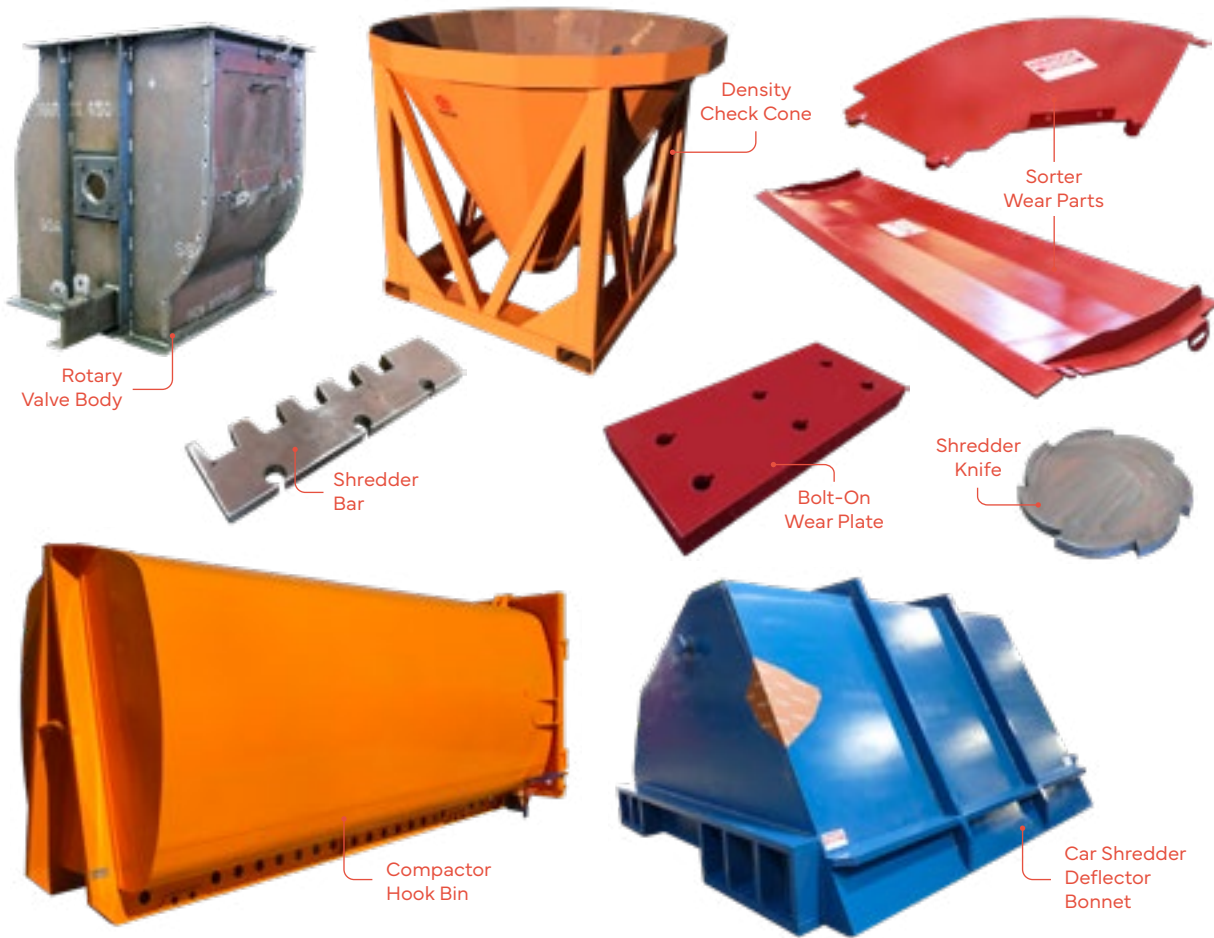
- Dredging/Slurry Tubes



**DRILL RIGS**

- Drill Tubes

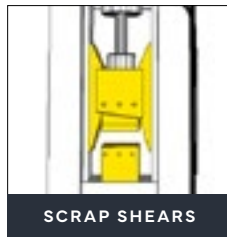




- Drum Cleaners/Scrapers
- Bolt-On Lining Plates
- Weld-On Lining Plates
- Screens



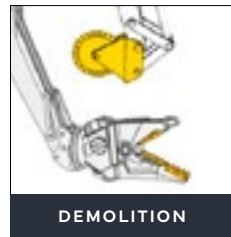
- Bolt-On Lining Plates
- Weld-On Lining Plates
- Shredder Knives
- Shredder Rakes



- Knives



- Bolt-On Lining Plates



- Cutter Wheels
- Knives
- Pulverizer Teeth



- Bolt-On Lining Plates
- Bolted Lining Plates



- Cutting Edges
- Grab Tips
- Grab Tines



- Full Tipper Bodies
- Full Tipper Chassis



- Conveyor Paddles
- Sprocket Wheels
- Bolt/Bolted Lining Plates



- Grizzly Bars
- Screens
- Grizzly Bar Seats

# AGRICULTURE / FORESTRY / TIMBER



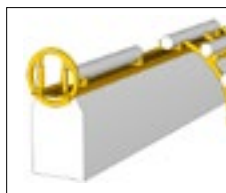
**DELIMBERS**

- Delimbing Knives



**FORWARDERS**

- Bolt-On Lining Plates



**SAW MILLS**

- Chain Floor Plates
- Chain Links
- Cradles
- Guides
- Shrouds



**DEBARKING DRUMS**

- Chain Floor Plates
- Chains
- Guides
- Screens



**GRAIN SILOS**

- Tubes
- Feeder Screws
- Chutes



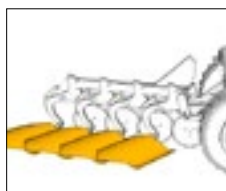
**FORKLIFTS**

- Forks



**FORK BUCKETS**

- Tines
- Buckets



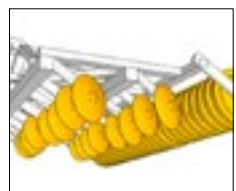
**PLOUGHS**

- Plough Blades



**CULTIVATORS**

- Tines



**DISC HARROWS**

- Discs
- Leveling Rollers
- Subsoilers





# FOXBOX TRENCH SHIELDS



0800 732 578 ■ [REALSTEEL.CO.NZ](http://REALSTEEL.CO.NZ)



## FOXBOX TRENCH SHIELDS

### HARDOX TOUGH, ALLOY LIGHT.

Foxbox trench shields are made from Hardox and Strenx advanced high strength steels. Up to five times stronger and three times tougher than standard steels.

They are designed and optimised to the benefits of Hardox and Strenx making them lighter than aluminium trench shields and less than half the weight of other steel options. Being incredibly lightweight lets operators deploy a Foxbox in confined work sites with much smaller machinery.

### Safety in design

Each Foxbox is engineered and certified to **AS4744.1:2000** standard. Documentation for each Foxbox is available at [www.foxbox.tools](http://www.foxbox.tools) for the life of the product. Certification, owners manual and safe usage guidelines can be readily accessed by the operator. Instructions are printed on each shield.



**5X STRONGER** THAN  
STANDARD STEEL



LESS THAN **HALF THE**  
**WEIGHT** OF OTHER  
STEEL OPTIONS



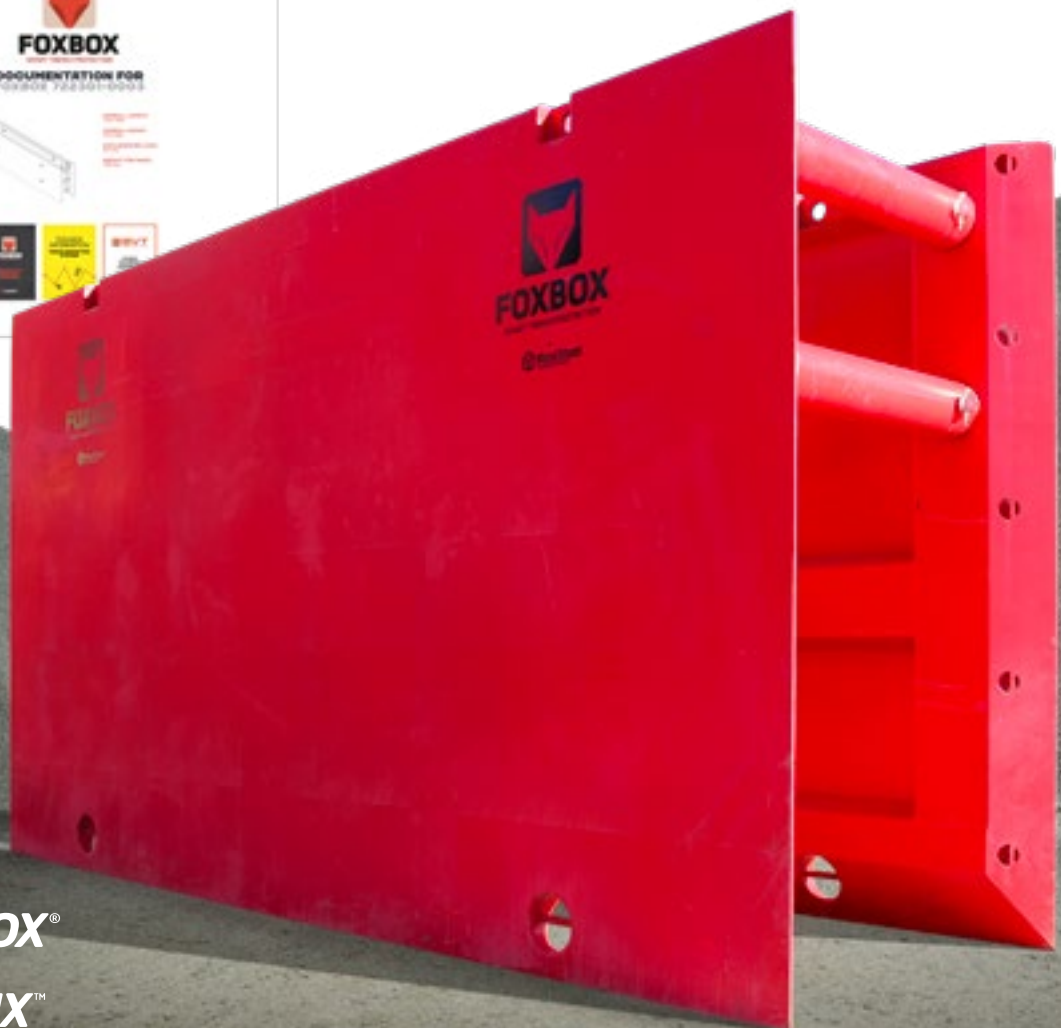
REQUIRES **SMALLER**  
**MACHINERY** FOR  
MORE FLEXIBILITY



MASSIVE LOWER **STRUT**  
**CLEARANCE** OF **1.5M**



ENGINEERED AND  
**CERTIFIED** TO  
**AS4744.1:2000**  
STANDARD



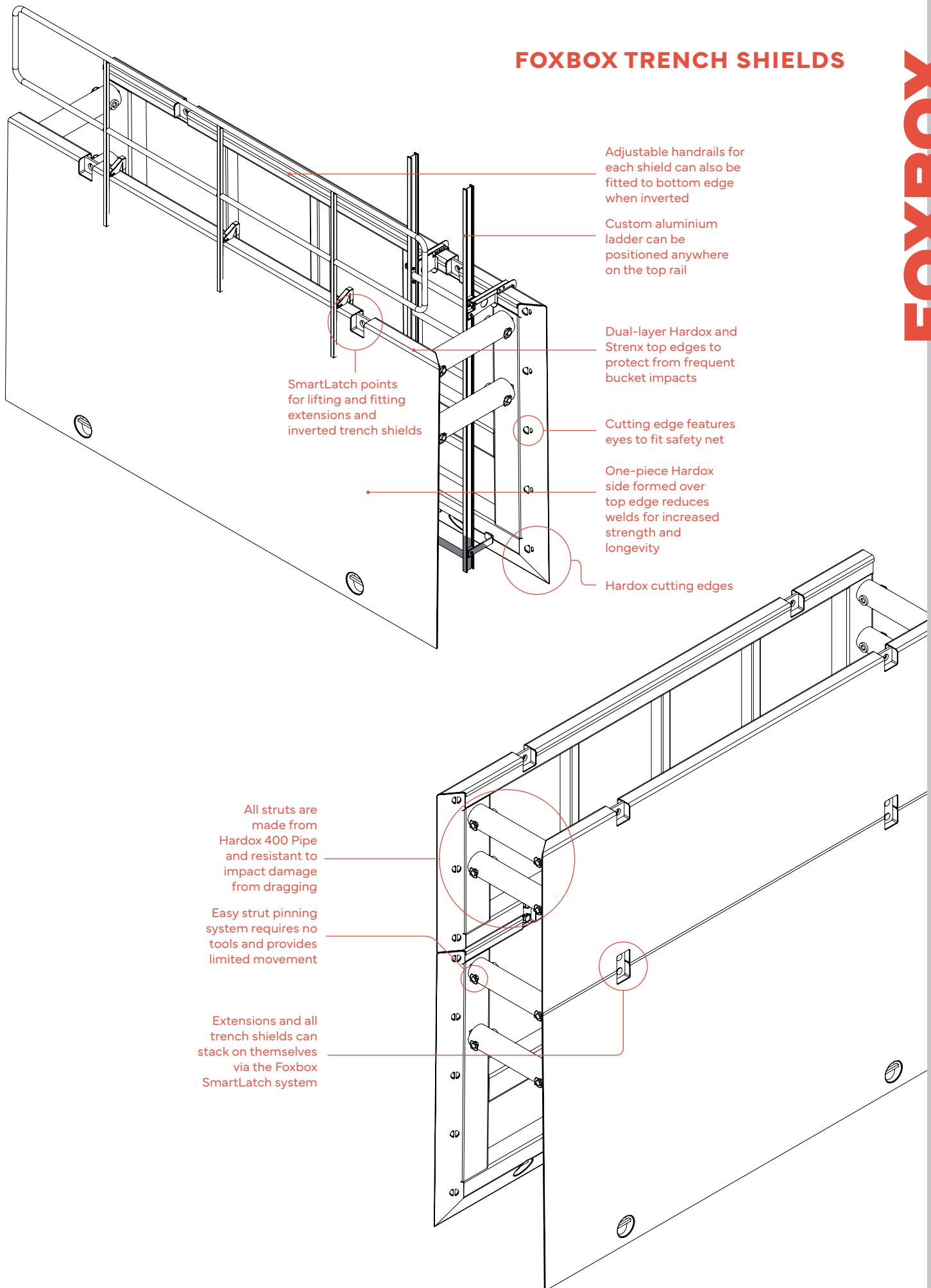
**HARDOX**<sup>®</sup>  
WEAR PLATE

**STRENX**<sup>™</sup>  
PERFORMANCE STEEL



## FOXBOX TRENCH SHIELDS

FOXBOX

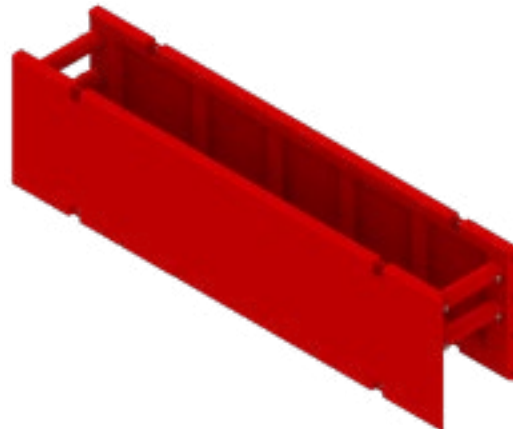


## FOXBOX TRENCH SHIELDS



### 7.2 M X 2.3 M TRENCH SHIELDS

- Length (overall): **7205mm**
- Length (between struts): **6673mm**
- Height (overall): **2315mm**
- Height (under lower struts): **1490mm**
- Max strut length: **2000mm**
- Safe working load: **25 kPa**
- Weight for both panels including struts 1000mm long: **2378kg**



### 5.0 X 1.3 M EXTENSION

- Length (overall): **5175mm**
- Length (between struts): **4645mm**
- Height (overall): **1345mm**
- Height (under lower struts): **616mm**
- Max strut length: **3000mm**
- Safe working load: **40kpa**
- Weight for both panels including struts 1000mm long: **1010kg**



### 4.0 M X 1.3 M EXTENSION

- Length (overall): **4175mm**
- Length (between struts): **3645mm**
- Height (overall): **1345mm**
- Height (under lower struts): **616mm**
- Max strut length: **3000mm**
- Safe working load: **40kPa**
- Weight for both panels including struts 1000mm long: **828kg**



### 5.0 M X 2.3 M TRENCH SHIELD

- Length (overall): **5175mm**
- Length (between struts): **4645mm**
- Height (overall): **2345mm**
- Height (under lower struts): **1490mm**
- Max strut length: **1500mm**
- Safe working load: **40kpa**
- Weight for both panels including struts 1000mm long: **1870kg**





## FOXBOX TRENCH SHIELDS

FOXBOX



### 4.0 M X 2.3 M TRENCH SHIELD

- Length (overall): **4175mm**
- Length (between struts): **3645mm**
- Height (overall): **2345mm**
- Height (under lower struts): **1490mm**
- Max strut length: **2000mm**
- Safe working load: **40 kPa**
- Weight for both panels including struts 1000mm long: **1485kg**



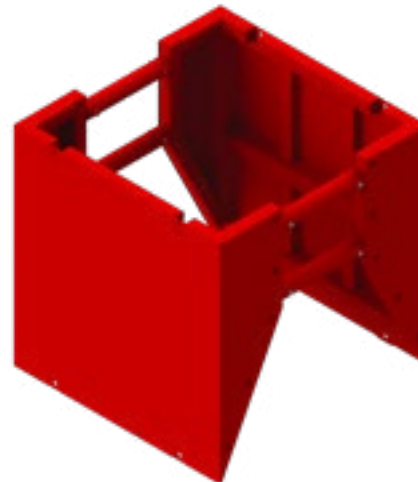
### 3.0 X 2.3 M TRENCH SHIELD

- Length (overall): **3175mm**
- Length (between struts): **2650mm**
- Height (overall): **2345mm**
- Height (under lower struts): **1490mm**
- Max strut length: **2000mm**
- Safe working load: **40kPa**
- Weight for both panels including struts 1000mm long: **990kg**



### 1.8 M X 2.3 M TRENCH SHIELD

- Length (overall): **1800mm**
- Length (between struts): **1440mm**
- Height (overall): **2345mm**
- Height (under lower struts): **1490mm**
- Max strut length: **3000mm**
- Safe working load: **40kPa**
- Weight for both panels including struts 1000mm long: **660kg**



### 2.5 M X 2.5 M MANHOLE BOX

- Length (overall): **2500mm**
- Length (between struts): **2160mm**
- Height (overall): **2500mm**
- Height (under lower struts): **1500mm**
- Max strut length: **—**
- Safe working load: **50kpa**
- Weight for both panels including struts 1000mm long: **1150kg**







# CUTTING EDGES & BUCKETS



0800 732 578 ■ [REALSTEEL.CO.NZ](https://www.realsteel.co.nz)



# “THE BEAST OF THE BEST”

“Same job and operator loading 2,300 ton per day, EnduroBlade lasted over 1,800 hours! Other brands only managed between 600 and 900 hours. This incredible wear life makes EnduroBlades very economical!”

ANDY MITCHELL, LAKE HOOD QUARRY

**3X** BETTER WEAR LIFE



## Works Harder, Longer

Hardox's unique combination of hardness and toughness is the key to EnduroBlades consistently outlasting the competition. Hardox is equally hard throughout the plate so it delivers the same wear resistance during the plate's entire service life.

## Wear Life Guarantee

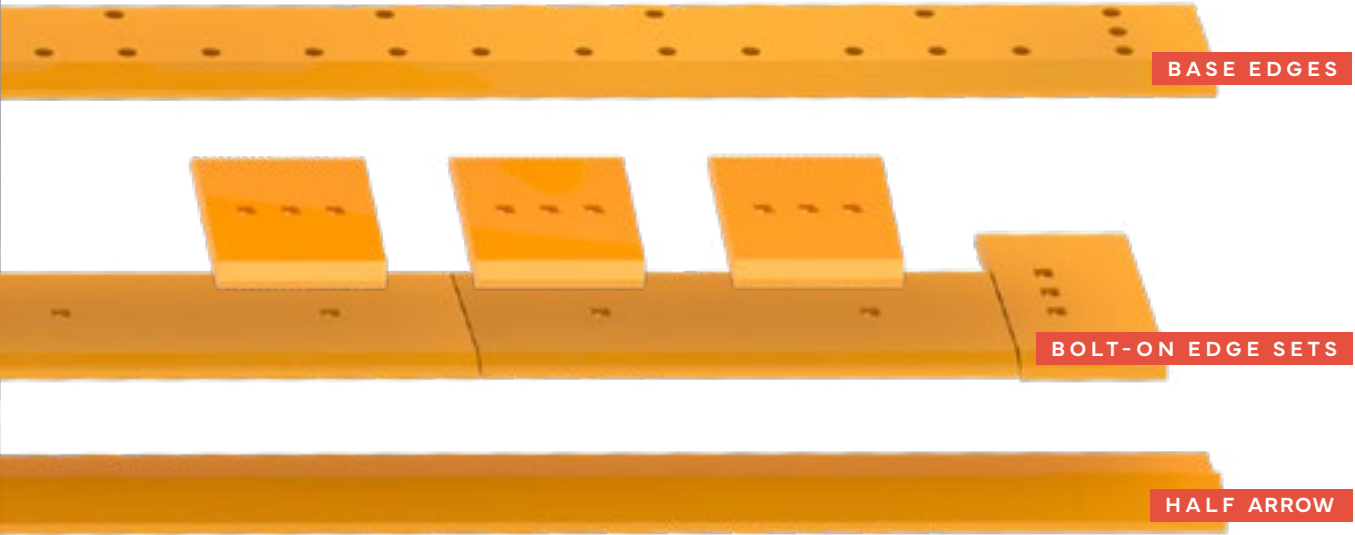
We guarantee you'll get better cost-per-hour performance from an EnduroBlade over your previous cutting edge product. If you experience otherwise we'll refund the difference in cost-per-hour from your previous product.

## Service Advantage

We've got experts on the ground across New Zealand. Get in touch so we can visit you, assess your needs and specify an EnduroBlade that is guaranteed to reduce your running costs and downtime.

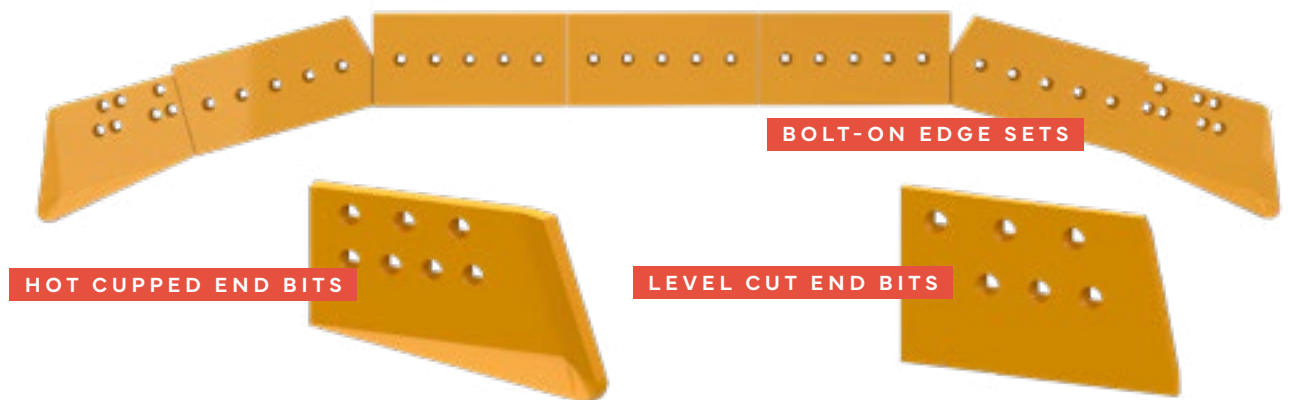


LOADER EDGES

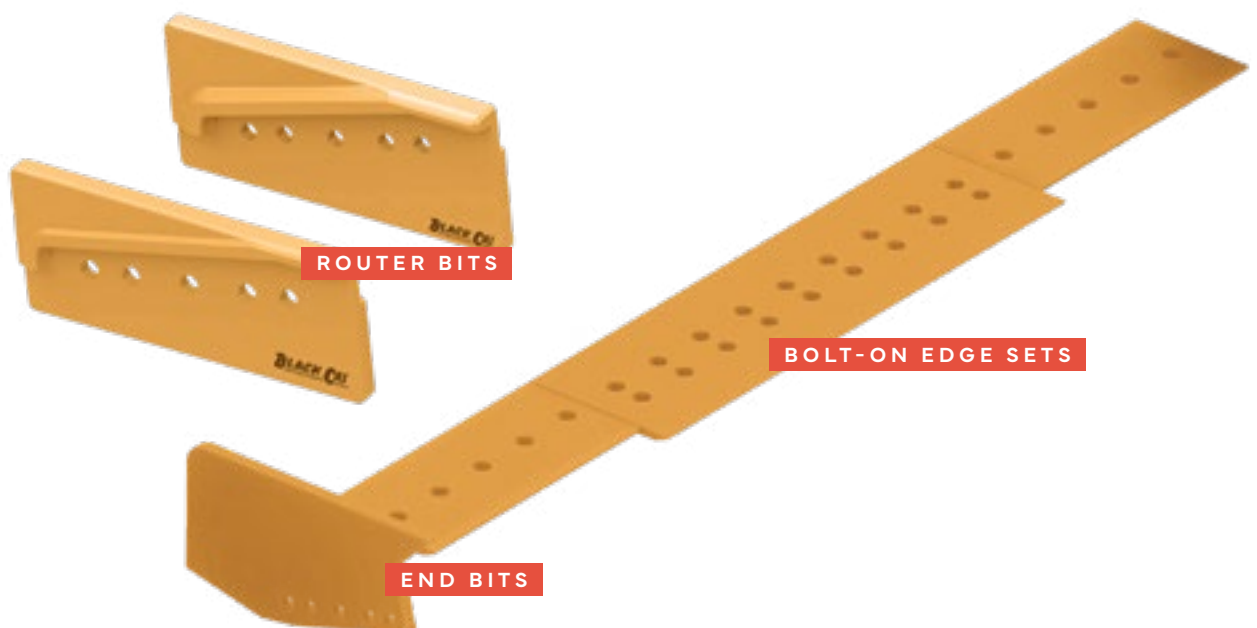


## DOZERS / SCRAPERS

### DOZER EDGES



### SCRAPER EDGES



KOMATSU

HYUNDAI

VOLVO

CAT

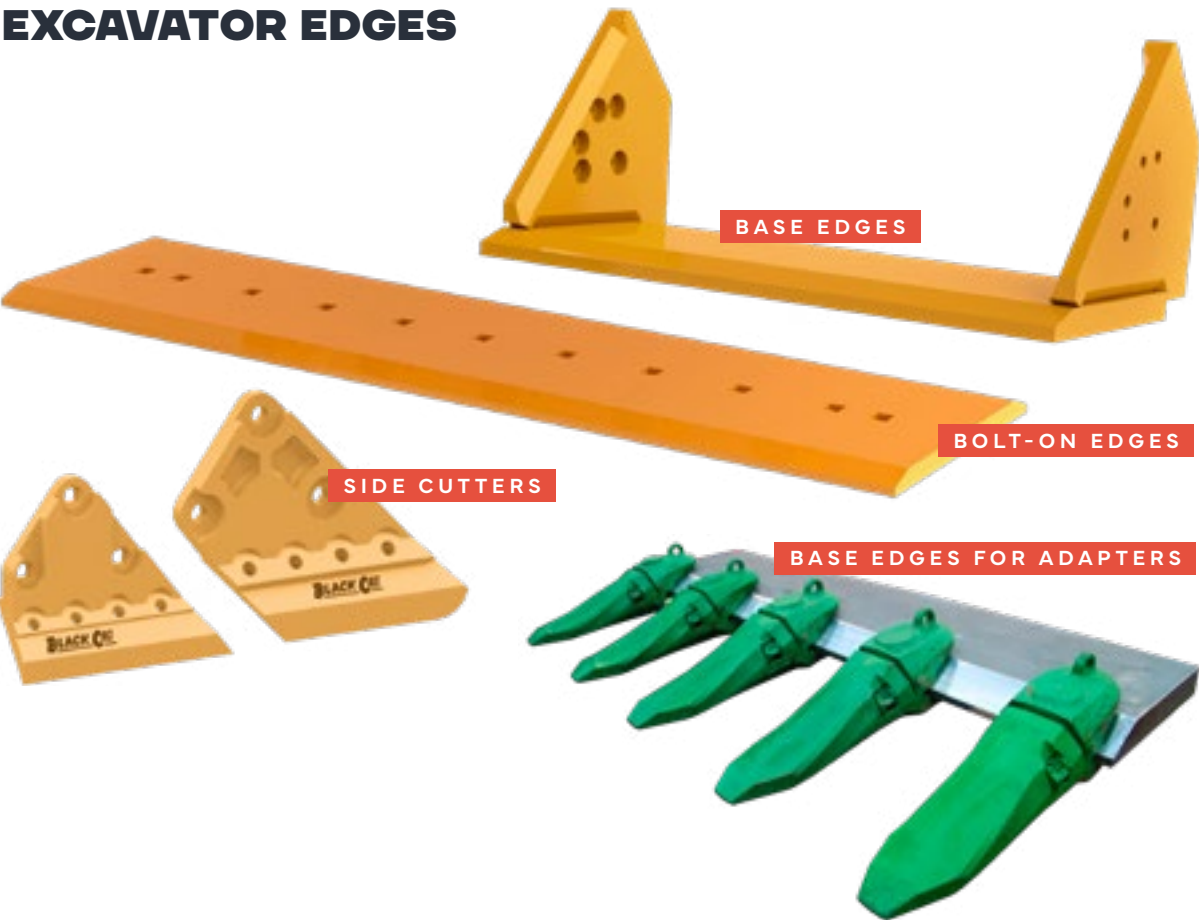
ESCO

We can custom make cutting edges for every major brand that work harder and last longer. For any parts that wear out, get in touch and we can help.





## EXCAVATOR EDGES



## COUNTERSUNK NIB BOLTS

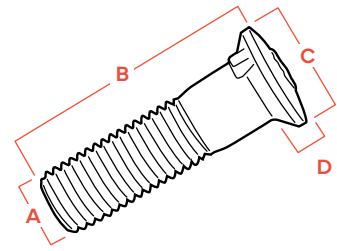
We've improved the performance of our cutting edges by deploying Countersunk Nib Bolts.

Here's what you need to know:

- Up to 10% deeper countersinking resulting in longer edge life
- Fully machined hole for optimum fit
- No heat affected zone resulting in harder edge around the hole
- Smaller countersink with less material removed results in less wash around hole



## NIB BOLTS / BOLT TORQUE VALUES



### Countersunk Nib Bolts

Ø = Diameter ● = Stocked Part

Bolt Ø	Bolt Length													Head Ø	Head Thickness
	1 1/2"	2"	2 1/4"	2 1/2"	2 3/4"	3"	3 1/4"	3 1/2"	3 3/4"	4"	4 1/4"	4 1/2"	5"		
1/2" (12.7)	●	●												23	8
5/8" (15.8)		●	●	●	●	●	●	●		●				26	10
3/4" (19)			●	●	●	●	●	●	●	●				30	10
7/8" (22.2)					●	●	●	●	●	●				36	13
1" (25.4)				●	●	●	●	●	●	●		●		40	13
1-1/4" (31.7)										●	●	●	●	51	17
1-3/8" (34.9)												●		59	24

### Plow Bolt & Nib Bolt Torque Values

#### Strength Grade Designations

Grade 12.9	Range	Tensile Strength Lbf/in <sup>2</sup> (min)	Proof Load Stress lbf/ in <sup>2</sup>	Rockwell Hardness
170,000 PSI (min)	5/8" to 1. 3/8"	170,000 PSI	140,000 PSI	C36 – C42

#### Recommended Torque Values

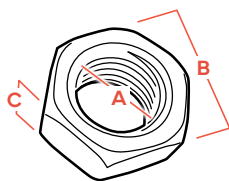
Thread Diameter (UNC)	5/8"	3/4"	7/8"	1"	1. 1/8"	1. 1/4"	1. 3/8"
Torque (lb.ft)	250	440	700	1060	1505	2100	2788

#### THREAD TYPE NOTE

There are two common threads used on imperial dimension bolts: UNF (Fine) and UNC (Coarse). **Our Plow Bolts are UNC (Coarse).**

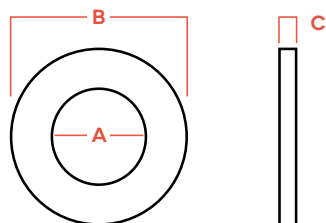


## NUTS / WASHERS / PLOW BOLTS



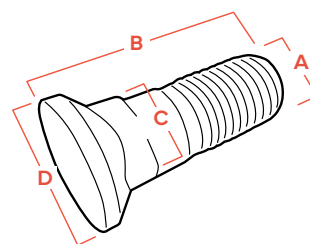
### Nuts

A	B	C
Nut Ø	Nut Width (Across Flats)	Nut Thickness
1/2" (12.7)	19	11
5/8" (15.8)	23	14
3/4" (19)	28	16
7/8" (22.2)	32	19
1" (25.4)	37	22
1-1/4" (31.7)	47	27
1-3/8" (34.9)	51	30



### Washers

A	B	C
Washer Inside Ø	Washer Outside Ø	Washer Thickness
5/8" (15.8)	33	3
3/4" (19)	37	5
7/8" (22.2)	43	5
1" (25.4)	49	6
1-1/4" (31.7)	62	4



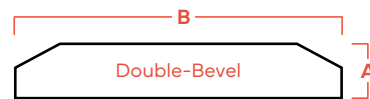
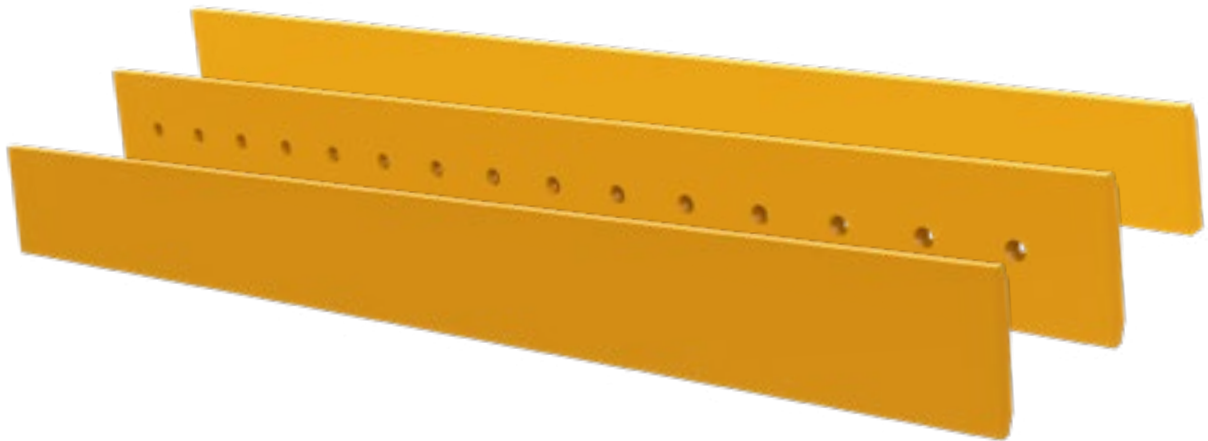
### Plow Bolts

Ø = Diameter ● = Stocked Part

A	B																C	D	
Bolt Ø	Bolt Length																Bolt Square	Head Ø	
	1 ½"	1 ¾"	2"	2 ¼"	2 ½"	2 ¾"	3"	3 ¼"	3 ½"	3 ¾"	3 ⅞"	4"	4 ¼"	4 ½"	5"	6"			7 ½"
1/2" (12.7)	●		●	●	●		●											13	22
5/8" (15.8)		●	●	●	●	●	●	●	●			●			●			16	26
3/4" (19)			●	●	●	●	●	●	●	●		●			●	●	●	19	30
7/8" (22.2)					●	●	●	●	●	●		●		●	●			22	35
1" (25.4)					●	●	●	●	●	●		●		●	●			26	41
1-1/4" (31.7)											●	●	●	●	●			34	51
1-3/8" (34.9)												●		●		●		35	60



## BAR STOCK



### Single-Bevel Bar Stock

	A	B
Part Number	Thickness	Width
BSSB12110	12	110
BSSB16110	16	110
BSSB16150	16	152
BSSB20150	19	152
BSSB20200	19	203
BSSB20250	19	254
BSSB25200	25	203
BSSB25250	25	254
BSSB30300	30	300

### Double-Bevel Bar Stock

	A	B
Part Number	Thickness	Width
BSDB16150	16	152
BSDB20200	19	203
BSDB20250	19	254
BSDB25200	25	203
BSDB25250	25	254
BSDB30330	30	330
BSDB40330	40	330

### Pre-Drilled Double-Bevel Bar Stock

				A	B
Part Number	Description	Bolt Size	Hole Spacing	Thickness	Width
BSDBP1615058	DB 16 X 150 5-8IN P X 6	5/8"	6"	16	152
BSDBP2020034	DB 20 X 200 3-4IN P X 6	3/4"	6"	19	203
BSDBP2525034	DB 25 X 250 3-4IN P X 6	3/4"	6"	25	254
BSDBP2525078	DB 25 X 250 7-8IN P X 6	7/8"	6"	25	254
BSDBP3033001	DB 30 X 330 1IN P X 6	1"	6"	30	330



We can also rapidly manufacture cutting edges from high quality Black Cat bar stock to suit your machine.



REAL STEEL BUCKETS

EDGES & BUCKETS

## ACHIEVE BUCKET PERFECTION

We've got all the pieces to the puzzle.

Real Steel is New Zealand's foremost expert in extreme wear solutions and ground engaging tools.

We build heavy-duty buckets custom designed for your application. We deploy the industry's best on-site support, design expertise, steel processing, and specify the very best materials: Hardox and ESCO.

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WEARPARTS



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# BUCKET TEETH



0800 732 578 ■ [REALSTEEL.CO.NZ](http://REALSTEEL.CO.NZ)

## IDENTIFY YOUR BUCKET TOOTH

**Unsure what bucket teeth you've got on your digger? Use this handy guide to find out.**

There are several ways to determine your bucket tooth fitment style and size. We only stock bucket teeth for 3-ton diggers and larger. Before we start, there is one obvious place to look for a part number.

The part number of a bucket tooth is typically cast into the interior wall or rear edge of the tooth pocket. If you can't locate it or make it out, then follow our guide below.

### 1. SIDE PIN OR TOP PIN

#### Side Pin

There are many side pin bucket tooth fitment styles. By far the most popular is the Cat J-Series. We also stock Komatsu bucket teeth. Here's how to tell which is which.

##### CAT J-SERIES



Cat J-Series pins run horizontally through the tooth and adapter.



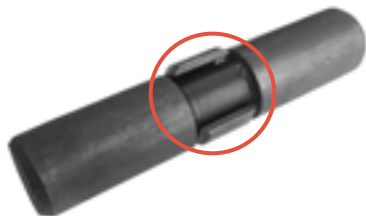
J-series has a pin and separate retainer. The pins have a recessed groove at one end to seat the retainer that is inserted into the adapter.



J-Series adapters have a recessed area on one side of the nose that retainer is inserted into.

► [View our J-Series bucket teeth on page 54](#)

##### KOMATSU



Komatsu bucket teeth have an integrated centre-ring pin and retainer that looks like the above.



Komatsu adapters can be distinguished from Cat J-Series because they have no recessed area for a retainer on the nose.

► [View our Komatsu bucket teeth on page 68](#)



## IDENTIFY YOUR BUCKET TOOTH

### Top Pin

#### ESCO CONICAL



ESCO Conical bucket teeth have a vertical pin system. The hole is on the top and is rectangular shape with a square top and rounded bottom.



The pins and rubber retainers look like the above.



The top end of the tooth tends to have a rounded shape that fits into a concave counter space on the adapter.

► [View our ESCO Conical bucket teeth on page 63](#)

## 2. MACHINE SIZE

Once you have identified the fitment style the next step is to confirm the fitment size. The quickest way to narrow down where to look is to use the machine size. The correct size adapters should be fitted to a bucket that is designed for a specific machine size. Correct advice isn't always followed but it is a good start to help identify your fitment size.

The first page in every bucket tooth section in this catalogue features a handy chart that matches the correct machine tonnage with fitment sizes.

## 3. PIN AND RETAINER SIZE

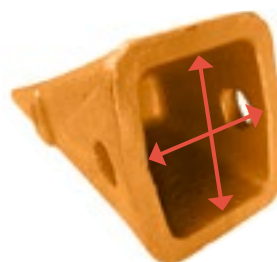
Measuring your pins and retainers is the most accurate way to determine your fitment size because they are manufactured to more exacting measurements than cast teeth.

Now that you know what fitment type and size matches your machine tonnage, you can find the product listings for the pin and retainer in that size.

Check the table of measurements that reference a diagram of your pin/retainer. Closely match those listed to confirm your fitment size. If the measurements differ then check the measurements of pin/retainers for the fitment sizes above and below to see if you find a better match.

## 4. TOOTH POCKET SIZE

If you're still unsure, or you want to double-check your result, you can measure the interior pocket opening of your worn/other teeth. The pocket is the area that the adapter nose fits into. The interior pocket is subject to minimal wear during the life of a bucket tooth. This makes it a good location to compare measurements.



## 5. SUCCESS!

If you're not confident that you've identified the correct part get in touch and we can help.

DISCLAIMER: Real Steel is not responsible for customers who use this guide and order the wrong teeth. We offer a 90-day returns policy on incorrect purchases.





## CAT J-SERIES

### Pick the right tool for the job

Our J-series bucket teeth are high-quality after market castings made by Black Cat Blades. We offer a wide variety of tooth shapes and sizes, ensuring we have what you need for your specific application. Finding the right balance of strength, penetration and wear life is vital to choosing the tip shape for your application.



### Machine tonnage and fitment size chart

Tonnage	5-6	7-10	10-15	15-20	20-25	25-30	35-40	45-50	50-60
J-Series	J200	J225	J250	J300	J350	J400	J460	J550	J600



#### STANDARD

Provides good balance of strength and digging capability. Ideal for most general purpose applications.



#### HEAVY DUTY ABRASION

Loader tooth for high-impact situations with abrasive, hard-to-penetrate materials.



#### PENETRATION

For tightly compacted, or frozen applications where penetration is the primary concern.



#### ROCK CHISEL

For highly abrasive material while providing good penetration and wear life.



#### PENETRATION PLUS

A self-sharpening penetration tooth with more wear material and less cross-sectional area.



#### TIGER

Maximum penetration and self-sharpening. Ideal for dense material such as clay.



#### HD PENETRATION (RP2)

Loader tooth for high-impact, hard-to-penetrate materials. More material in the high wear areas.



#### TWIN TIGER

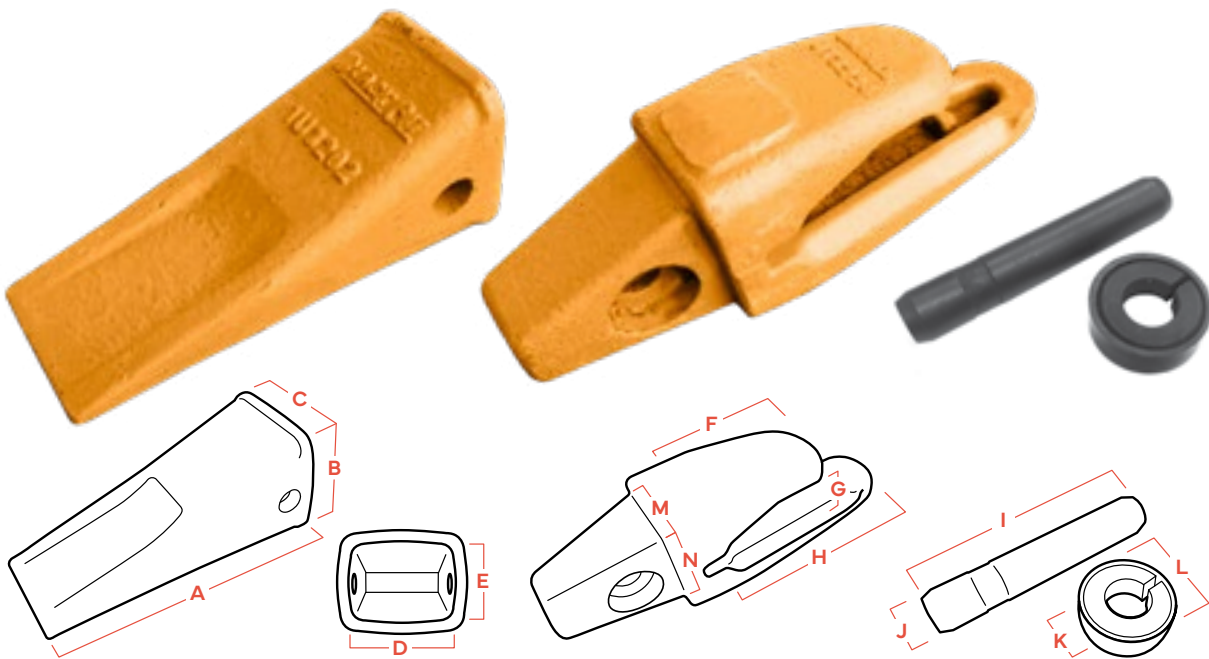
Enhanced fracture capability, but less penetration and more wear than regular tiger. Ideal for breaking materials.



#### WELD-ON ADAPTER NOSE

Weld-on noses for repairing broken adapters.





## Teeth

Product	Part Number	Weight (KG)	EXTERIOR			POCKET	
			A	B	C	D	E
J200 Standard	TC-1U3202	1.3	146	63	57	44	44
J200 Tiger	TC-T1U3202	1.5	165	70	60	44	44
J200 Twin Tiger	TC-4T2203TV	1.7	171	68	60	44	44
J225 Standard	TC-6Y3222	2.0	165	76	67	44	60
J225 Penetration	TC-6Y8229	2.1	166	84	70	44	60

## Adapters

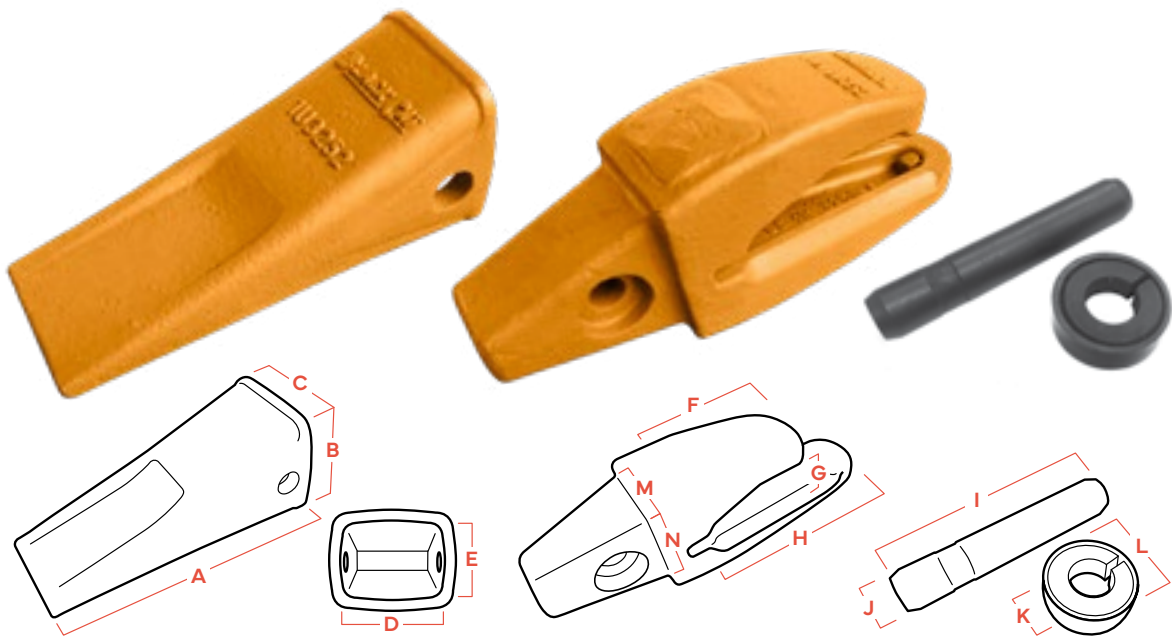
Product	Part Number	Weight (KG)	Bevel°	STRAPS			NOSE	
				F	G	H	M	N
J200 Adapter	TC-1193205	2.2	25	65	23	95	35	45
J200 Bottom Strap Adapter	TC-8J7525	1.5	25	20	15	90	35	45
J200 Weld on Nose	TC-8J7525WN	1.0	–	–	–	–	35	45
J225 Adapter	TC-6Y3224	3.1	25	75	28	120	43	57
J225 Weld on Nose	TC-J225WN	1.7	–	–	–	–	43	57

## Pins & Retainers

Ø = Diameter

Product	Part Number	Weight (KG)	Length	Diameter	RETAINER	
					K	L
J200 Pin	TC-8E6208	0.1	60	11	–	–
J200 Retainer	TC-8E6209	0.1	–	–	10.6	23
J225 Pin	TC-6Y3228	0.1	67	14	–	–
J225-J250-J300 Retainer	TC-8E6259	0.1	–	–	13.6	30

## CAT J250



### Teeth

Product	Part Number	Weight (KG)	EXTERIOR			POCKET	
			A	B	C	D	E
J250 Standard	TC-1U3252	3.2	190	86	76	56	67
J250 Tiger	TC-1U3252VIP	2.9	203	90	78	56	67
J250 Twin Tiger	TC-1U3252TVC	2.9	213	87	76	56	67
J250 Penetration Plus	TC-1U3252PP	4.6	222	97	84	56	67

### Adapters

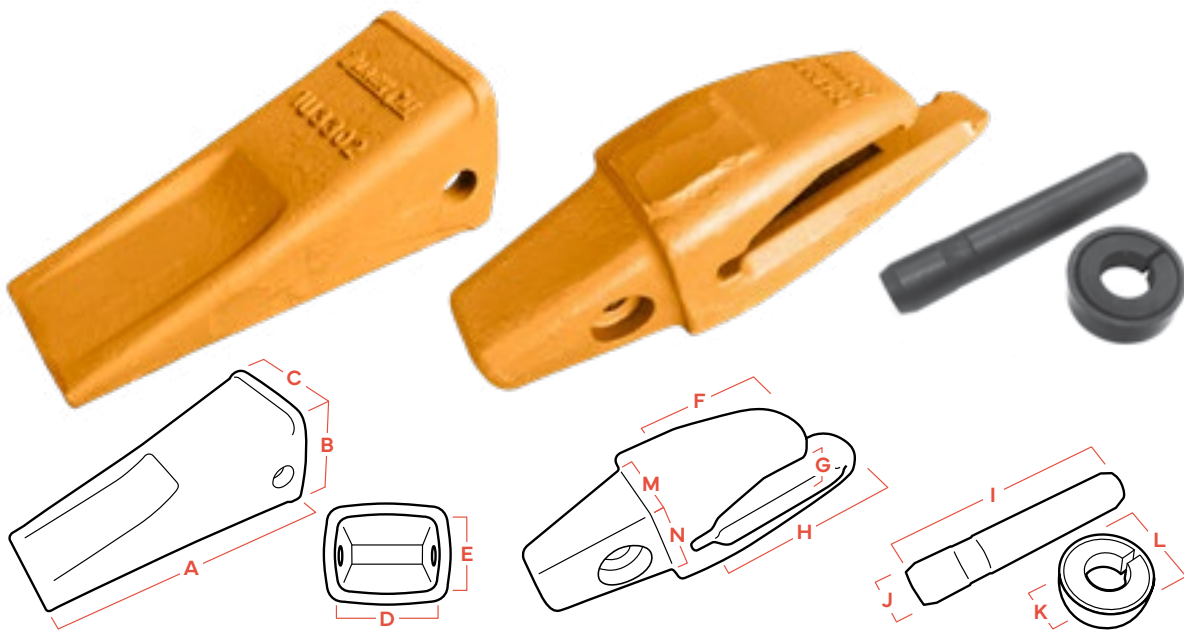
Product	Part Number	Weight (KG)	Bevel°	STRAPS			NOSE	
				F	G	H	M	N
J250 Bottom Strap Adapter	TC-360169	5.2	25	35	38	175	48	65
J250 Bolt on Adapter	TC-1U0257	10.2	20	215	30	215	48	65
J250 Adapter Twin Strap	TC-1193253	5.2	25	110	35	140	48	65
J250 Weld On Nose	TC-J250WN	2.4	–	–	–	–	48	65

### Pins & Retainers

Ø = Diameter

Product	Part Number	Weight (KG)	PIN		RETAINER	
			I	J	K	L
J250 Pin	TC-8E6258	0.1	76	14	–	–
J225-J250-J300 Retainer	TC-8E6259	0.1	–	–	13.6	30





## Teeth

Product	Part Number	Weight (KG)	EXTERIOR			POCKET	
			A	B	C	D	E
J300 Standard	TC-1U3302	4.6	215	100	84	67	76
J300 Standard Wide	TC-9N4303	6.7	223	101	84	67	76
J300 Penetration	TC-9J4309	4.1	220	103	89	67	76
J300 Rock Exploder	TC-1U3302RE-R	5.6	251	103	90	67	76
J300 Shark Long	TC-1U3302SYL-R	4.6	234	104	90	67	76
J300 Tiger	TC-1U3302T	4.7	241	105	86	67	76
J300 Twin Tiger	TC-1U3302TV	4.9	242	104	85	67	76

## Adapters

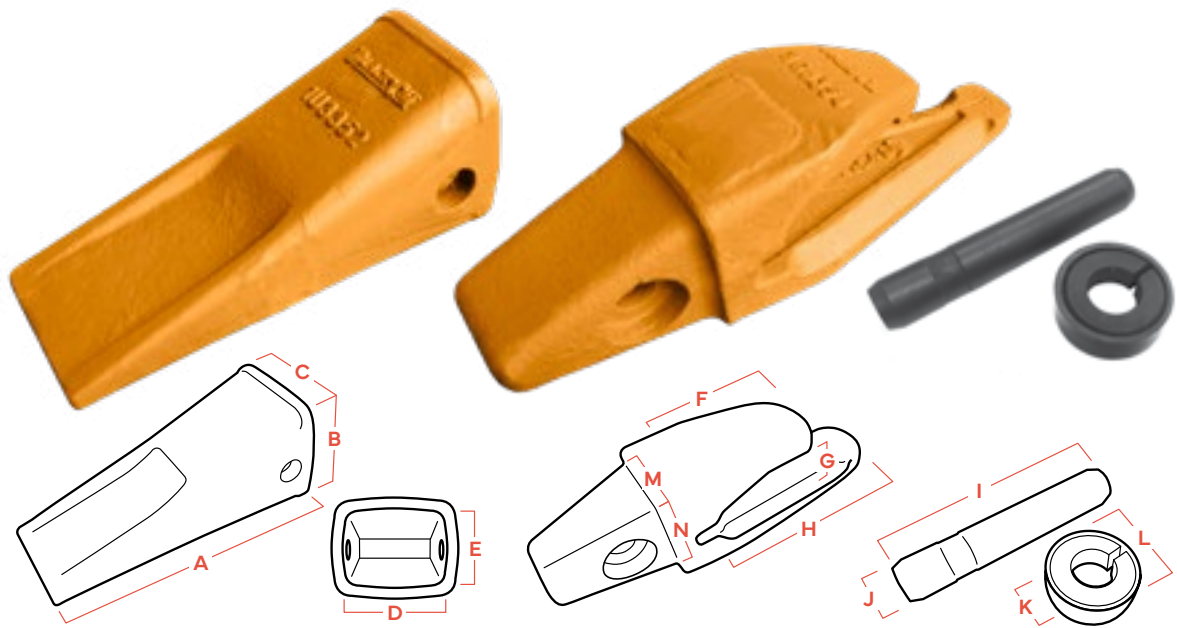
Product	Part Number	Weight (KG)	Bevel°	STRAPS			NOSE	
				F	G	H	M	N
J300 Adapter	TC-3G6304	8.0	25	115	35	200	60	72
J300 Adapter Bolt-On	TC-1U0307	9.6	25	220	-	-	60	72
J300 Weld On Nose	TC-J300WN	3.4	-	-	-	-	60	72

## Pins & Retainers

Ø = Diameter

Product	Part Number	Weight (KG)	Length	Diameter	RETAINER	
					I	J
J300 Pin	TC-1073308	0.1	90	14	-	-
J225-J250-J300 Retainer	TC-8E6259	0.1	-	-	13.6	30

## CAT J350



### Teeth

Product	Part Number	Weight (KG)	EXTERIOR			POCKET	
			A	B	C	D	E
J350 Standard	TC-1U3352	6.8	241	108	102	75	81
J350 Heavy Duty Abrasion	TC-1U3352HDAL	6.4	241	120	106	75	81
J350 Penetration	TC-9J4359	5.8	251	111	102	75	81
J350 Penetration Plus	TC-1U3352PP	7.4	260	112	105	75	81
J350 Tiger	TC-1U3352T	6.7	286	112	105	75	81
J350 Rock Chisel	TC-1U3352RC	8.1	283	114	104	73	80
J350 Twin Tiger	TC-1U3352TV	7.2	286	111	105	75	81

### Adapters

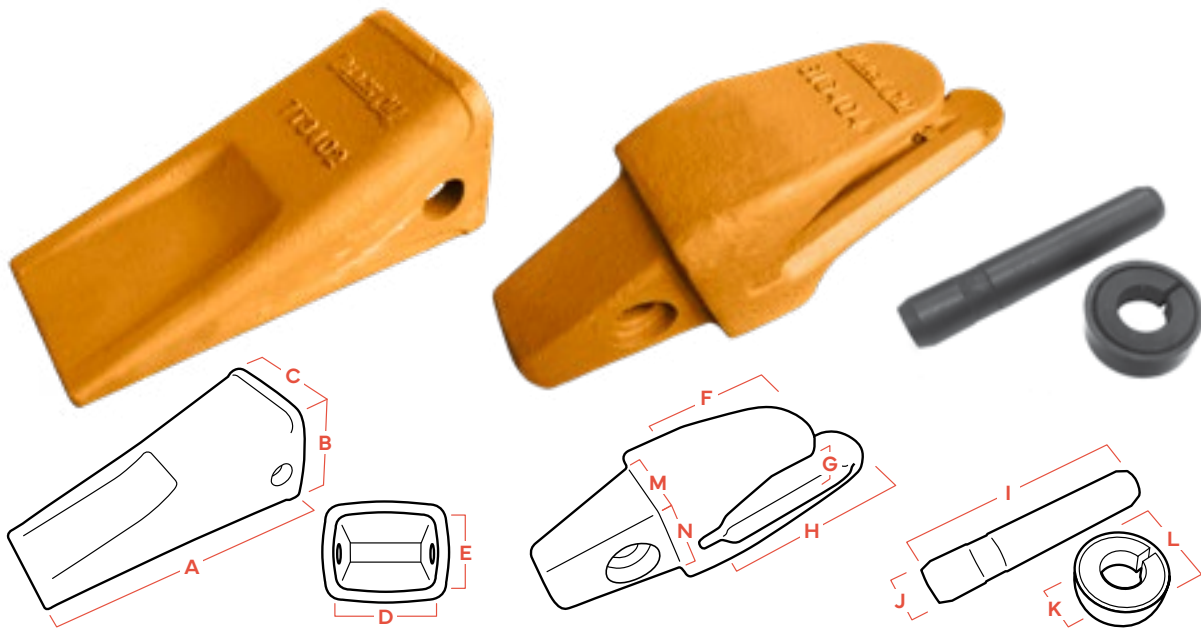
Product	Part Number	Weight (KG)	Bevel°	STRAPS			NOSE	
				F	G	H	M	N
J350 Adapter	TC-3G8354	9.1	35	110	42	200	67	82
J350 Weld on Nose	TC-J350WN	4.6	-	-	-	-	67	82

### Pins & Retainers

∅ = Diameter

Product	Part Number	Weight (KG)	Length	Diameter	RETAINER	
					K	L
J350 Pin	TC-8E6358	0.1	105	19	-	-
J350 Retainer	TC-8E6359	0.1	-	-	18.5	40





## Teeth

Product	Part Number	Weight (KG)	EXTERIOR			POCKET	
			A	B	C	D	E
J400 Standard	TC-1U3402	9.5	267	127	117	88	89
J400 Rock Chisel	TC-1U3402RC	11.9	308	132	121	88	89
J400 Penetration	TC-6Y7409	9.2	266	133	120	88	89
J400 Penetration Plus	TC-1U3402PP	11.8	290	133	122	88	89

## Adapters

Product	Part Number	Weight (KG)	Bevel°	STRAPS			NOSE	
				F	G	H	M	N
J400 Adapter — 44m Lip	TC-6I6404	15.9	25	160	44	220	90	77
J400 Adapter — 50mm Lip	TC-6I6404-16	17.0	25	160	50	220	90	77
J400 Weld on Nose	TC-J400WN	6.8	—	—	—	—	90	77

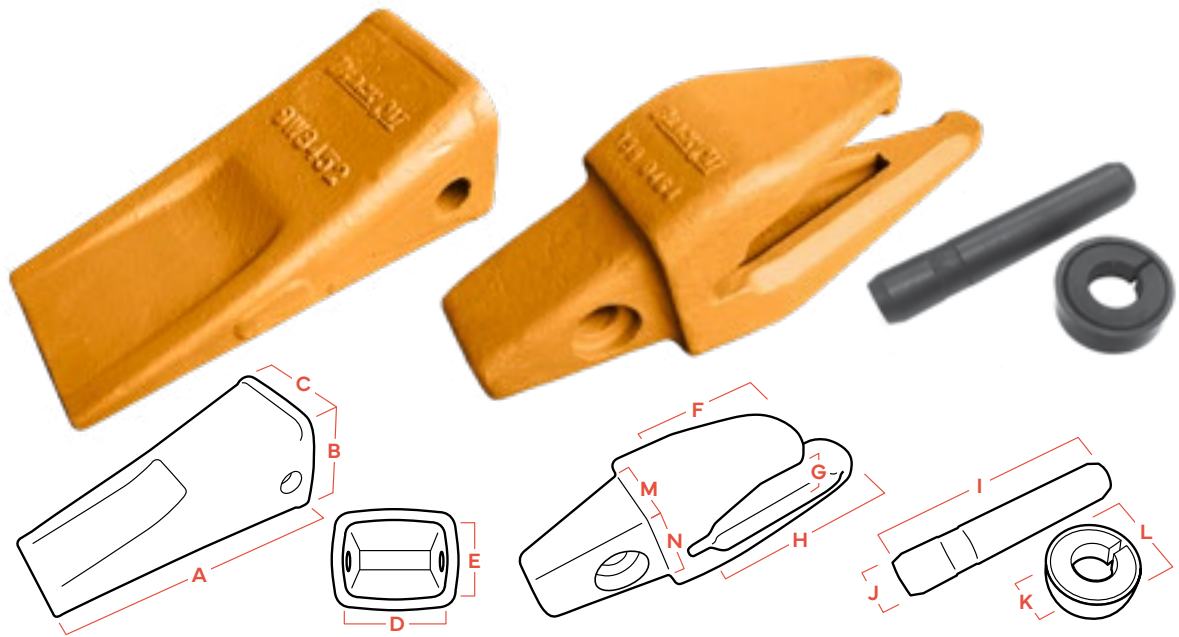
## Pins & Retainers

Ø = Diameter

Product	Part Number	Weight (KG)	PIN		RETAINER	
			I	J	K	L
J400 Pin	TC-7T3408	0.1	117	22	—	—
J400 Retainer	TC-7T3409	0.1	—	—	21.5	42



## CAT J460



### Teeth

Product	Part Number	Weight (KG)	EXTERIOR			POCKET	
			A	B	C	D	E
J460 Standard	TC-9W8452	11.6	298	127	130	100	101
J460 Rock Chisel	TC-1U3452RC	14.3	330	140	135	100	101
J460 Tiger	TC-9W8452VIP	13.3	357	140	136	100	101
J460 Twin Tiger	TC-9W8452TV	14.8	357	138	136	100	101

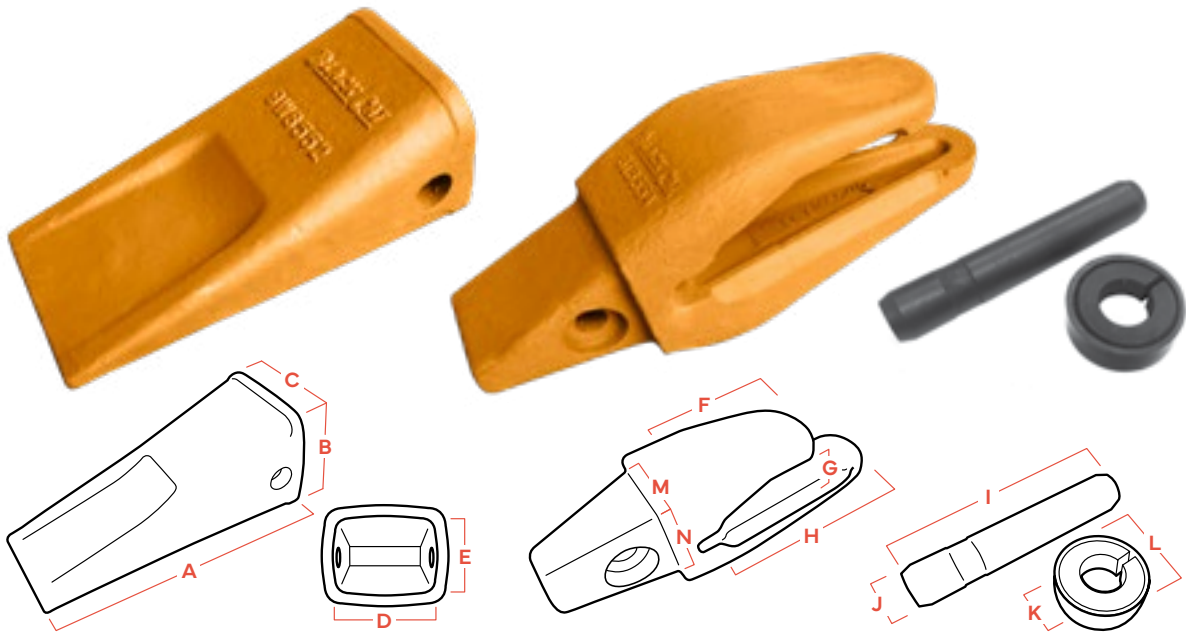
### Adapters

Product	Part Number	Weight (KG)	Bevel°	STRAPS			NOSE	
				F	G	H	M	N
J460 Adapter	TC-8E6464	21.9	25	220	55	260	85	95

### Pins & Retainers

Ø = Diameter

Product	Part Number	Weight (KG)	Length	Diameter	RETAINER	
					K	L
J460 Pin	TC-8E0468	0.1	133	24	–	–
J460 Retainer	TC-8E0469	0.1	–	–	23.3	44



## Teeth

Product	Part Number	Weight (KG)	EXTERIOR			POCKET	
			A	B	C	D	E
J550 Standard	TC-9W8552	18.5	330	143	159	119	113
J550 HD Penetration (RP2)	TC-138-6552	32.9	387	160	162	119	113
J550 Penetration	TC-9W8559	16.1	336	149	155	119	113
J550 Penetration Plus	TC-1590559	24.1	371	159	162	119	113
J550 Rock Chisel	TC-1U3552RC	16.1	381	159	161	119	113
J550 Tiger	TC-9W8559VIP	16.3	381	148	159	119	113
J550 Twin Tiger	TC-9W8559TVC	18.3	381	148	159	119	113

## Adapters

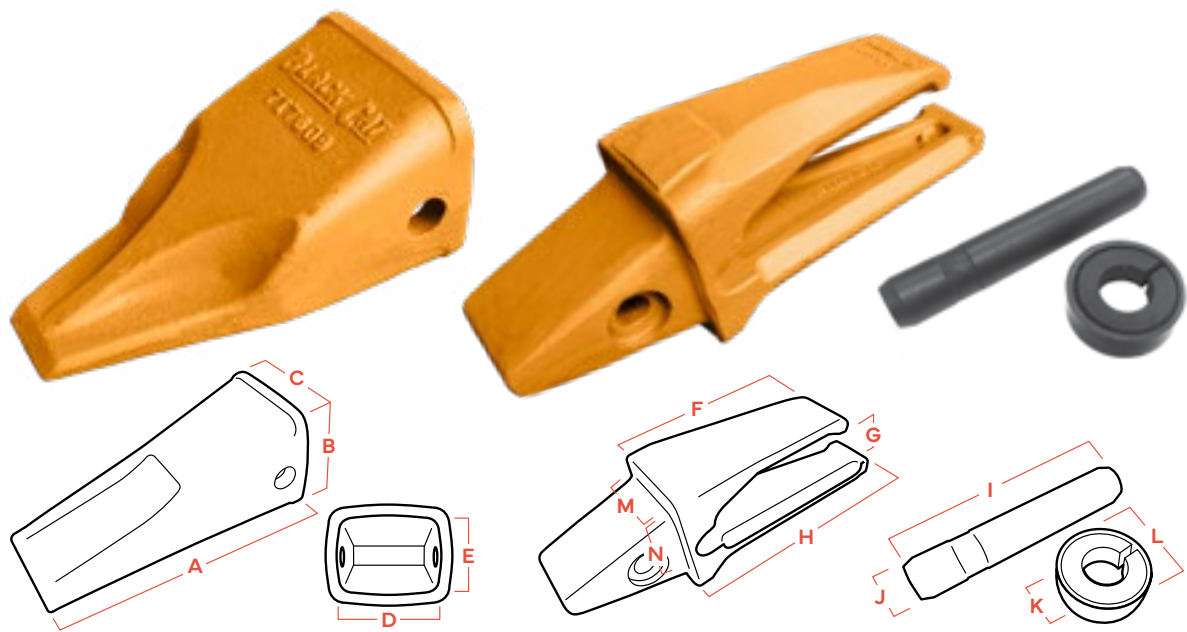
Product	Part Number	Weight (KG)	Bevel°	STRAPS			NOSE	
				F	G	H	M	N
J550 Adapter	TC-6I6554	35.9	25	250	70	300	105	105
J550 Weld on Nose	TC-J550WN	13.2	–	–	–	–	105	105

## Pins & Retainers

Ø = Diameter

Product	Part Number	Weight (KG)	Length	Diameter	RETAINER	
					K	L
J550 Pin	TC-6Y8558	0.1	160	25	–	–
J550 Retainer	TC-8E5559	0.1	–	–	24.5	53

## CAT J600-J700



### Teeth

Product	Part Number	Weight (KG)	EXTERIOR			POCKET	
			A	B	C	D	E
J600 Penetration Plus	TC-159-0607	38.5	425	187	195	146	137
J600 Rock Exploder	TC-616602RE-R	37.0	460	185	190	146	137
J600 Tiger	TC-T616602	35.7	457	185	200	146	137
J700 Penetrator	TC-4T4709	40.0	420	210	195	155	144

### Adapters

Product	Part Number	Weight (KG)	Bevel°	STRAPS			NOSE	
				F	G	H	M	N
J600 Adapter	TC-616604	51.5	25	280	80	330	125	125

### Pins & Retainers

Ø = Diameter

Product	Part Number	Weight (KG)	Length	Diameter	RETAINER	
					Internal Ø	External Ø
J600 Pin	TC-616608	0.1	192	30	–	–
J600 Retainer	TC-616609	1.1	–	–	29	58
J700 Pin	TC-4T4708	0.2	195	32	–	–
J700 Retainer	TC-4T4707	0.2	–	–	31	64





## Pick the right tool for the job

Our ESCO Conical bucket teeth are high-quality after market castings made by Black Cat Blades. We offer a wide variety of tooth shapes and sizes, ensuring we have what you need for your specific application. Finding the right balance of strength, penetration and wear life is vital to choosing the tip shape for your application.



### STANDARD



Provides good balance of strength and digging capability. Ideal for general purpose applications.

### TIGER



Maximum penetration and self-sharpening. Ideal for dense material e.g. clay.

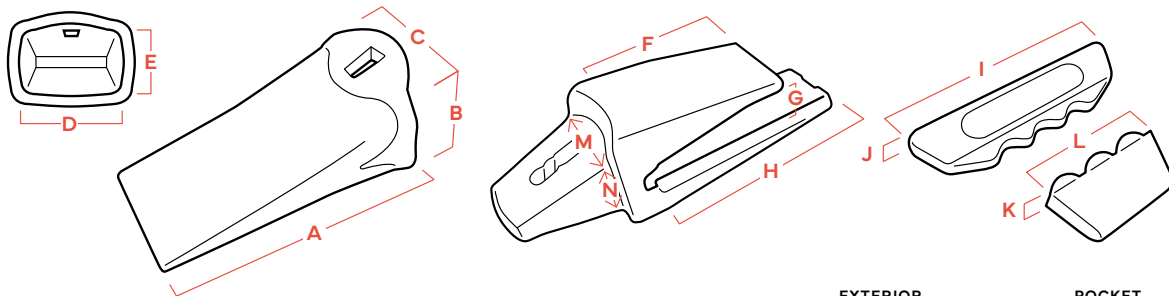
### TWIN TIGER



Enhanced fracture capability and more wear than regular tiger. Ideal for breaking materials e.g. mudstone.

## Machine tonnage and fitment size chart

Tonnage	3-6	7-8	7-10	10-15	15-20	20-25	25-30	35-40
ESCO Conical Fitment	18	22	25	30	35	40	45	50



### Teeth

Product	Part Number	Weight (KG)	EXTERIOR			POCKET	
			A	B	C	D	E
18 Standard	TE-18S	1.0	138	52	62	45	35
18 Tiger	TE-18VIP	1.0	174	57	62	45	35
18 Twin Tiger	TE-18TV	1.3	174	54	62	45	35

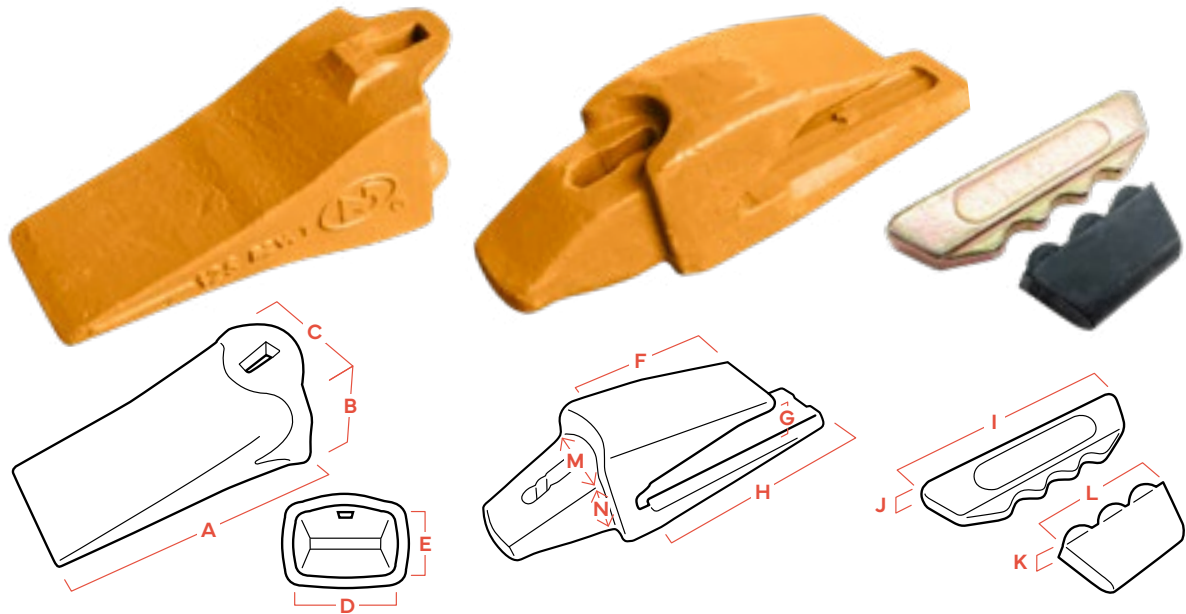
### Adapters

Product	Part Number	Weight (KG)	Bevel°	STRAPS			NOSE	
				F	G	H	M	N
18 Adapter	TE-850-18	1.6	35	60	22	100	40	32

### Pins & Retainers

Product	Part Number	Weight (KG)	PIN		RETAINER	
			I	J	L	K
18 Pin	TE-18PN	0.1	53	6	-	-
18 Retainer	TE-18LK	0.1	-	-	36	13

## ESCO 22-25



### Teeth

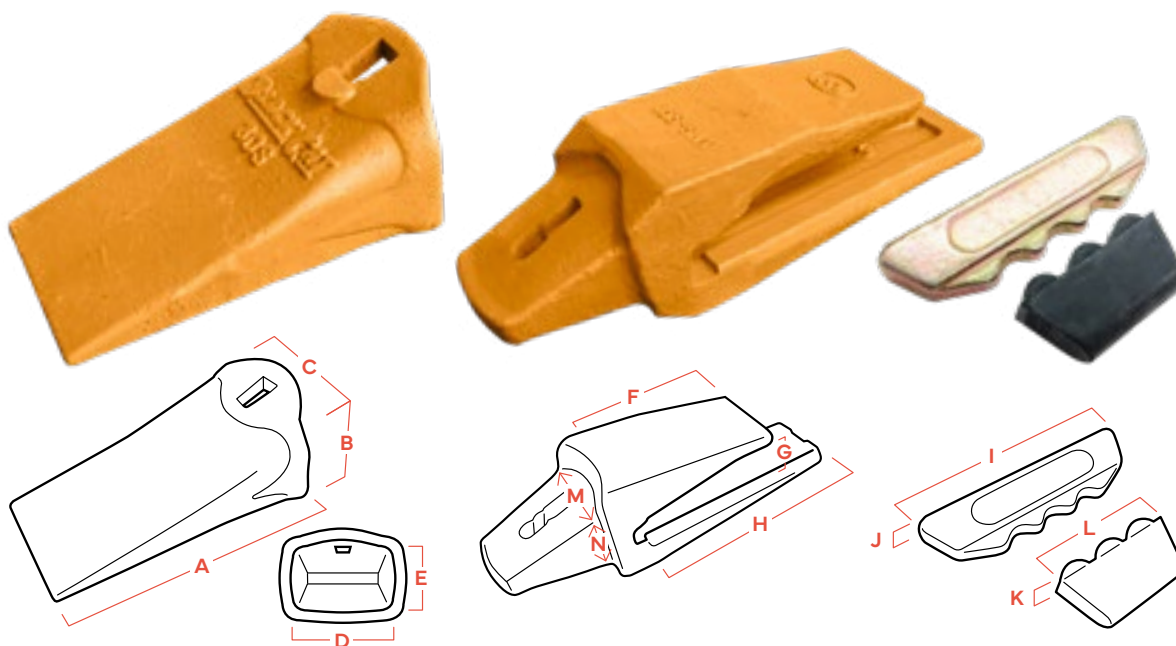
Product	Part Number	Weight (KG)	EXTERIOR			POCKET	
			A	B	C	D	E
22 Standard	TE-22S	1.3	138	64	62	45	45
25 Standard	TE-25S	2.3	178	75	85	62	55
25 Tiger	TE-25VIP	2.9	228	80	89	62	55
25 Twin Tiger	TE-25TV	3.3	228	80	89	62	55

### Adapters

Product	Part Number	Weight (KG)	Bevel°	STRAPS			NOSE	
				F	G	H	M	N
22 Adapter	TE-850-22	1.6	35	65	25	120	42	42
25 Adapter	TE-850-25	3.1	15	110	25	160	60	45
25 Adapter (Short Top Strap)	TE-850-25S	3.1	25	40	28	122	–	–

### Pins & Retainers

Product	Part Number	Weight (KG)	PIN		RETAINER	
			I	J	L	K
22 Pin	TE-22PN	0.1	64	7	–	–
22 Retainer	TE-22LK	2.0	–	–	44	13
25-30 Pin	TE-25-30PN	0.1	75	9	–	–
25-30 Retainer	TE-25-30LK	0.1	–	–	38	11



## Teeth

Product	Part Number	Weight (KG)	EXTERIOR			POCKET	
			A	B	C	D	E
30 Standard	TE-30S	2.7	178	78	95	72	50
30 Tiger	TE-30VIP	3.0	215	78	101	72	50
30 Twin Tiger	TE-30TV	3.2	215	78	101	72	50
35 Standard	TE-35S	5.0	216	95	118	82	65
35 Tiger	TE-35VIP	6.2	266	110	120	82	65
35 Twin Tiger	TE-35TV	6.3	266	110	120	82	65

## Adapters

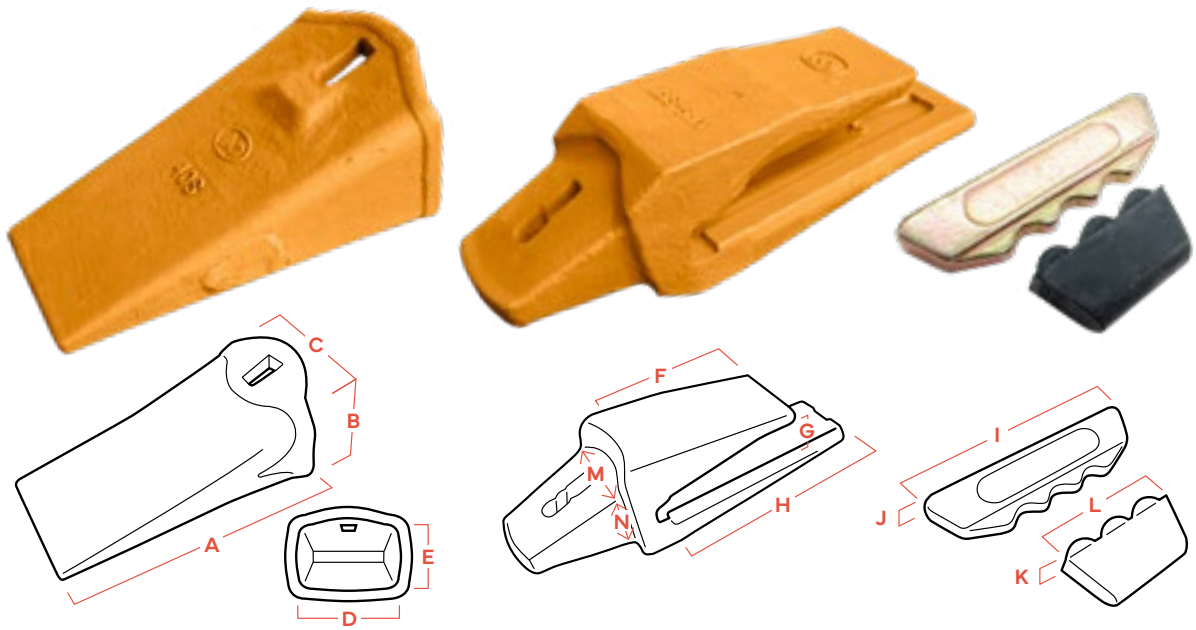
Product	Part Number	Weight (KG)	Bevel°	STRAPS			NOSE	
				F	G	H	M	N
30 Adapter	TE-850-30	3.9	15	140	32	185	70	40
35 Adapter	TE-850-35	7.9	25	160	35	220	85	45

## Pins & Retainers

Product	Part Number	Weight (KG)	PIN		RETAINER	
			I	J	L	K
25-30 Pin	TE-25-30PN	0.1	75	9	-	-
25-30 Retainer	TE-25-30LK	0.1	-	-	38	11
35 Pin	TE-35PN	0.2	87	10	-	-
35-40 Retainer	TE-35-40LK	0.1	-	-	47	15



## ESCO 40-45



### Teeth

Product	Part Number	Weight (KG)	EXTERIOR			POCKET	
			A	B	C	D	E
40 Standard	TE-40S	6.4	225	110	130	98	72
45 Standard	TE-45S	9.2	230	120	140	112	75

### Adapters

Product	Part Number	Weight (KG)	Bevel°	STRAPS			NOSE	
				F	G	H	M	N
40 Adapter	TE-850-40	14.7	25	260	42	175	-	-

### Pins & Retainers

Product	Part Number	Weight (KG)	PIN		RETAINER	
			I	J	L	K
40 Pin	TE-40PN	0.1	95	13	-	-
35-40 Retainer	TE-35-40LK	0.1	-	-	47	15
45 Pin	TE-45PN	0.1	107	14	-	-
45 Retainer	TE-45LK	0.3	-	-	57	17

## Pick the right tool for the job

Our Hyundai and Komatsu bucket teeth are high-quality castings made by Black Cat Blades. We offer a wide variety of tooth shapes and sizes, ensuring we have what you need for your specific application. Finding the right balance of strength, penetration and wear life is vital to choosing the tip shape for your application.



### STANDARD



Provides good balance of strength and digging capability. Ideal for most general purpose applications.

### ROCK CHISEL

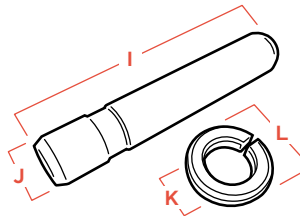
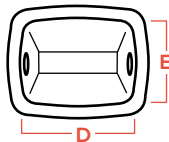
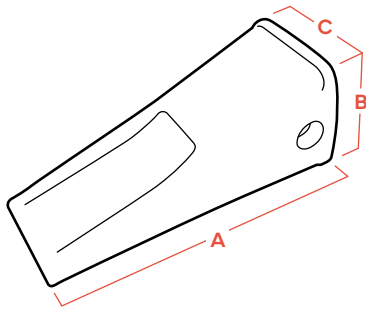


For highly abrasive material. Provides good penetration and wear life.

### TIGER



Maximum penetration and self-sharpening. Ideal for dense material such as clay.



## Teeth

Product	Part Number	Weight (KG)	EXTERIOR			POCKET	
			A	B	C	D	E
R140–210 Standard Long	THY-161-3027	4.8	219	91	99	72	60
R140–210 Rock Chisel	THY-161-3027RC	6.4	254	93	98	72	60
R140–210 Tiger	THY-161-3027T	4.3	222	89	97	72	60
R290–310 Rock Chisel	THY-162-3046RC	10.2	292	112	121	82	80
R290–310 Tiger	THY-162-3046T	9.3	292	110	122	82	80

## Pins & Retainers

Ø = Diameter

Product	Part Number	Weight (KG)	PIN		RETAINER	
			I	J	K	L
R140–210 Pin	THY-E1613035	0.2	108	20	–	–
R290–310 Pin	THY-262-5004	0.2	120	20	–	–
R140–310 Retainer	THY-61E-511150	0.3	–	–	19	33

## KOMATSU PC200-PC600



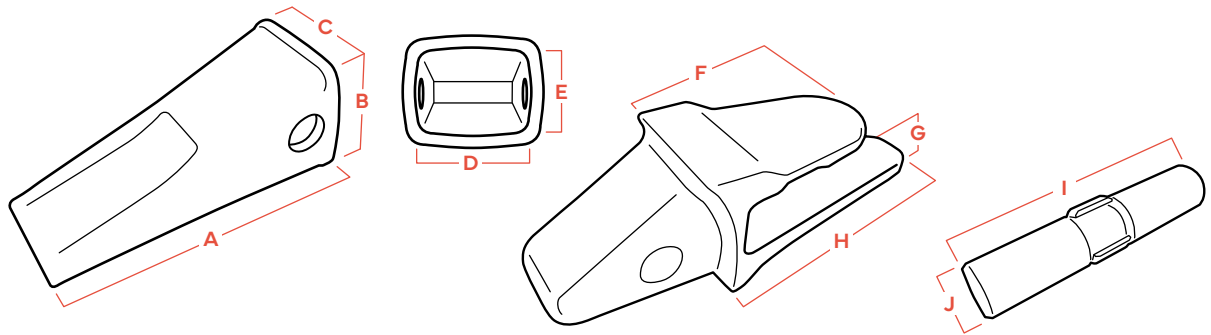
**STANDARD**

Provides good balance of strength and digging capability. Ideal for most general purpose applications.



**ROCK CHISEL**

For highly abrasive material. Provides good penetration and wear life.



### Teeth

Product	Part Number	Weight (KG)	EXTERIOR			POCKET	
			A	B	C	D	E
PC200 Standard	TK-2057019570	4.4	219	100	94	72	80
PC300 Standard	TK-2077014151HX	6.6	241	123	117	92	85
PC300 Rock Penetrator (RP2)	TK-4238471140RP2	-	310	122	126	92	85
PC300 Tiger	TK-2077014151T	5.9	270	107	115	92	85
PC400 Heavy Duty	TK-2087014152H	14.2	274	124	152	110	92
PC600 Standard	TK-2097054210	29.7	349	195	181	133	136

### Adapters

Product	Part Number	Weight (KG)	Bevel°	STRAPS			NOSE	
				F	G	H	M	N
PC200 Straight Adapter	TK-2059397120	7.2	90	94	38	155	70	80

### Pins

Product	Part Number	Weight (KG)	PIN	
			I	J
PC200 Pin	TK-0924402496P	0.2	100	25
PC300 Pin	TK-1757821740P	0.3	120	25
PC400 Pin	TK-0924403036P	0.7	140	30
PC600 Pin	TK-2097054240P	0.9	167	35

## Genuine ESCO Super V

SUPER V tooth system is a proven performer in construction, aggregate and mining applications around the world. The SUPER V system offers excellent performance and productivity in all applications.



## Machine tonnage and fitment size chart

Tonnage	< 7	7-10	10-15	15-20	20-25	25-30	35-40	45-50	50-60
Super V	17-18	19	23	29	33	39	43	51	61

One-piece vertical  
drive pin ▼



### VY TIGER / PICK

For extremely hard to penetrate materials. Top and bottom ribs provide strength and allow the point to stay sharp throughout its wear life.



### SYL GENERAL PURPOSE LONG

Standard general purpose shape for excavator applications. Wears sharp for excellent penetration during entire tooth life.



### TVY TWIN TIGER

Enhanced fracture capability, but less penetration and more wear than regular tiger. Ideal for breaking materials.



### SD CHISEL

For moderate penetration and wear metal, as well as excellent strength. Designed for medium to heavy shot material.



### F FLARE

For general purpose digging and clean-up. The wide blade maximizes bucket capacity. An excellent choice for trench bottoms and foundations.



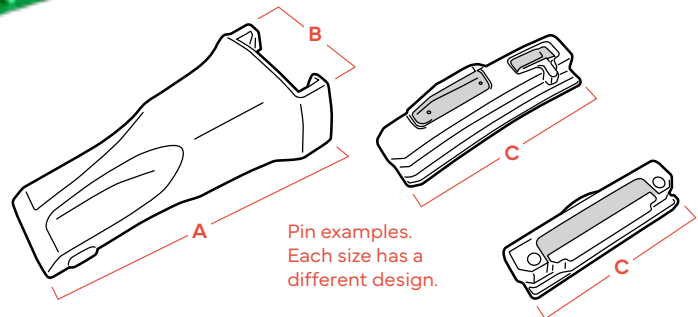
### SD CHISEL HEAVY

For moderate penetration and wear metal, as well as excellent strength. Ideal for tough unshot material that requires maximum machine power.





## ESCO SUPER V 13-39

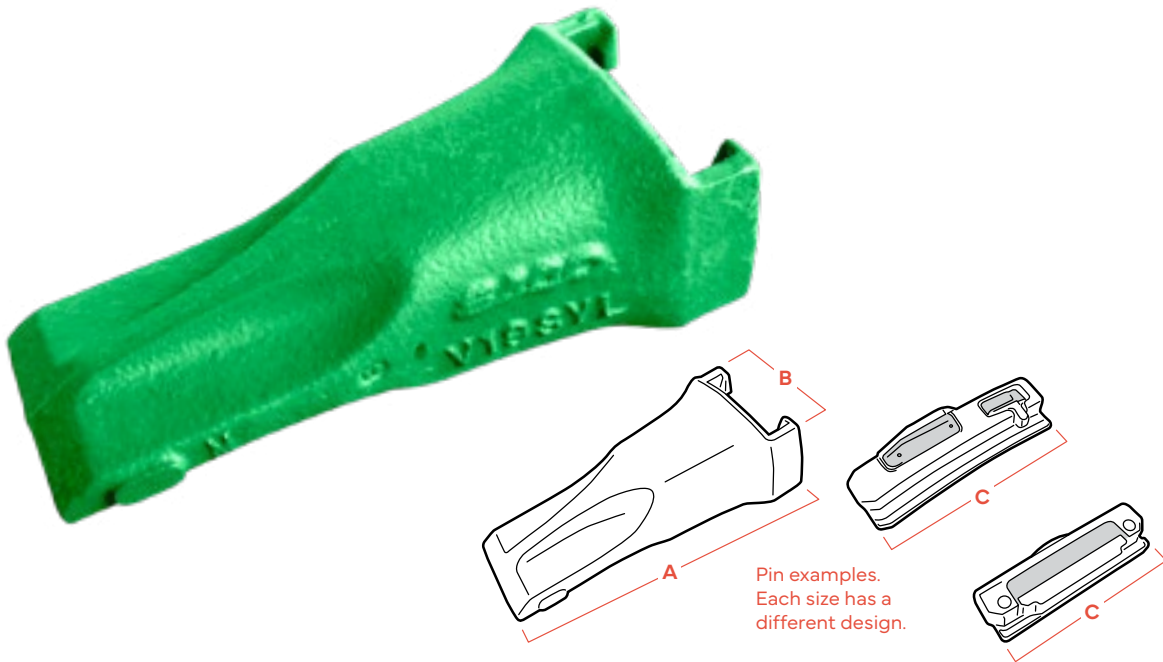


### Teeth

Product	Part Number	Weight (KG)	A	B
			Length	Width
V13 General Purpose Long	TE-V13SYL	0.7	100	54
V17 General Purpose NCL	TE-V17TYL	1.1	140	65
V19 General Purpose Long	TE-V19SYL	2.2	165	80
V23 General Purpose Long	TE-V23SYL	2.9	191	90
V29 Chisel Heavy	TE-V29SDX	5.0	212	96
V33 Chisel Heavy	TE-V33SDX	7.0	238	108
V39 General Purpose Long	TE-V39SYL	10.0	257	122
V39 Chisel Heavy	TE-V39SDX	10.0	267	122
V39 Tiger	TE-V39VY	8.0	297	122
V39 Twin Tiger	TE-V39TVY	9.0	297	122

### Pins

Product	Part Number	Weight (KG)	C
			Length
V13-V17 Pin	TE-V13-17PN	0.1	48
V19-V23 Pin	TE-V23PN	0.1	52
V29 Pin	TE-V29PN	0.2	78
V33 Pin	TE-V33PN	0.2	86
V39 Pin	TE-V39PN	0.2	95



## Teeth

Product	Part Number	Weight (KG)	A	B
			Length	Width
V43 Flare	TE-V43S9F	17.0	312	137
V43 Chisel Heavy	TE-V43SDX	14.0	293	137
V51 Chisel Heavy	TE-V51SDX	19.0	324	150
V51 Tiger	TE-V51VY	13.0	356	150
V59 Chisel Heavy	TE-V59SDX	23.0	352	164
V61 Chisel	TE-V61SD	26.0	381	170
V69 Chisel	TE-V69SD	37.0	419	210
V71 Chisel	TE-V71SD	46.0	447	243
V81 Chisel	TE-V81SD	77.0	516	281

## Pins

Product	Part Number	Weight (KG)	C
			Length
V43 Pin	TE-V43PN	0.3	105
V43 Hot Slag Pin	TE-V43HPN	0.3	105
V51 Pin	TE-V51PN	0.5	111
V59 Pin	TE-V59PN	0.5	121
V61 Pin Assembly	TE-V61PNA	0.5	130
V69 Pin Assembly	TE-V69PN	1.0	145
V71 Pin Assembly	TE-V71PN	1.1	159
V81 Pin Assembly	TE-V81PN	1.3	185

## ESCO SV2 65-70

### SV2 Mining Tooth System

The SV2 system is available to suit mining-class hydraulic face shovels, excavators, wheel loaders, and electric cable shovels. Cast in premium ESCO alloys, ensures the best balance of hardness and impact resistance to perform in the most demanding applications.



**CHISEL**

Chisel taper for moderate penetration with excellent strength. Provides a good balance of penetration and wear life.

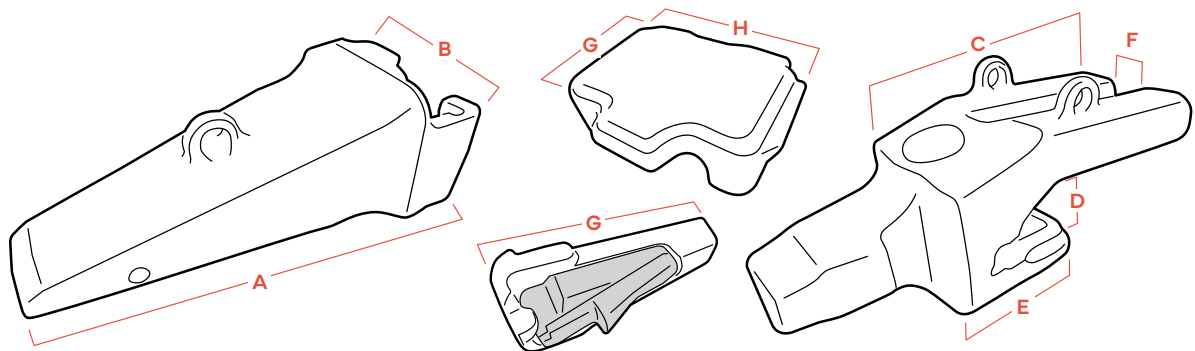


**TIGER/PICK**

Pick profile for maximum penetration. Ideal for hard to penetrate material such as shale or in heavy frost conditions.

### Machine tonnage and fitment size chart

Tonnage	85-100	100-160	160-220	220-250
SV2	65	70	75	85



### Teeth

Product	Part Number	Weight (KG)	A	B
			Length	Width
65SV2 Chisel	TE-65SV2SD	30.0	389	202
70SV2 Chisel	TE-70SV2SD	45.0	441	230
70SV2 Tiger	TE-70SV2VX	40.0	471	230

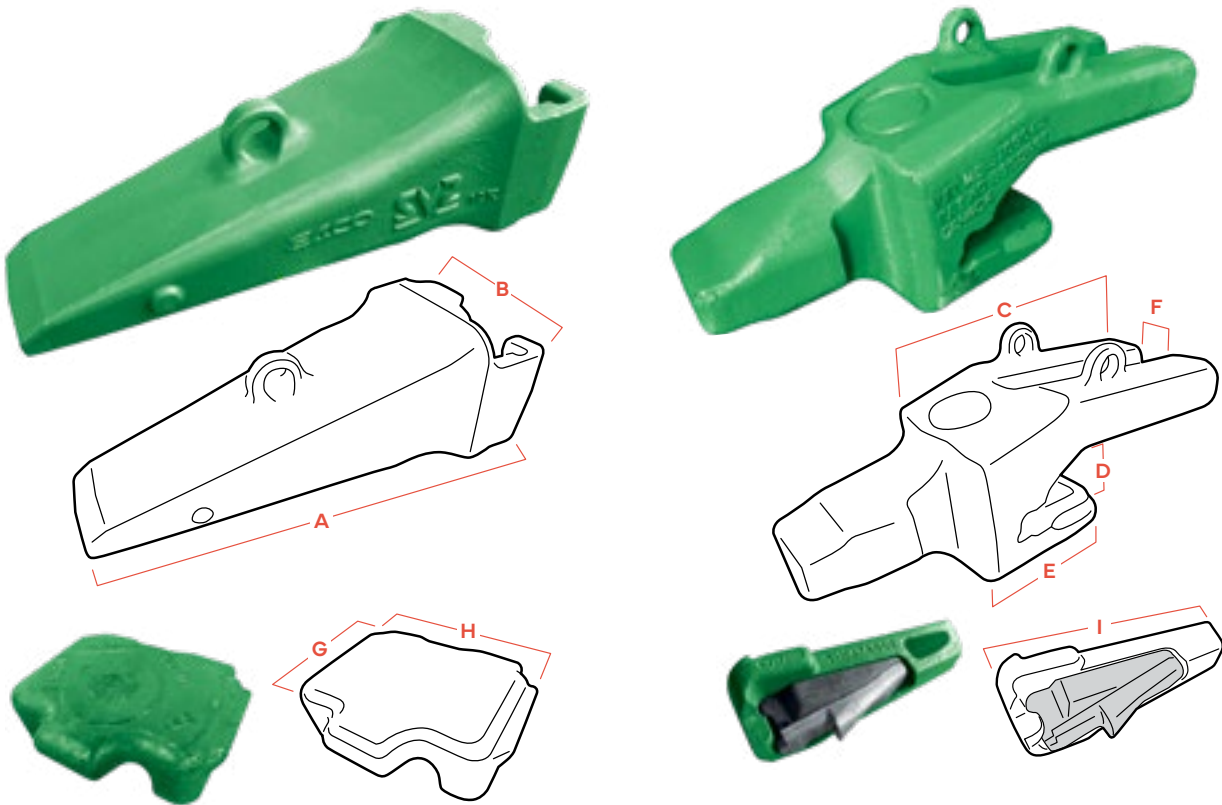
### Adapters

Product	Part Number	Weight (KG)	Bevel°	C	D	E	F
				Top Leg	Lip Thickness	Bottom Leg	Leg Opening
65SV2 Adapter	TE-6803W-65SV2	62.0	30	368	90	221	–
65SV2 Adapter (Left Corner)	TE-6840L-65SV2	78.0	30	400	90	184	68
65SV2 Adapter (Right Corner)	TE-6840R-65SVR	78.0	30	400	90	184	68
70SV2 Adapter	TE-5897W-70SV2	101.0	30	447	102	274	–

### Wear Caps, Pins & Removal Tools

Product	Part Number	Weight (KG)	G	H
			Length	Width
65SV2 Wear Cap	TE-WC265	11.0	200	249
70SV2 Wear Cap	TE-WC270	11.0	200	249
65SV2 Pin	TE-65SV2PN-C	0.6	116	–
70SV2 Pin	TE-70SV2PN-C	0.6	121	–
65-70SV2 Install/Removal Tool	TE-65-70SV2PN-RT2	2.9	–	–





## Teeth

Product	Part Number	Weight (KG)	A	B
			Length	Width
75SV2 Tiger	TE-75SV2VX	56.0	521	264
85SV2 Chisel	TE-85SV2SD	82.0	526	285
85SV2 Tiger	TE-85SV2VX	76.0	579	285

## Adapters

Product	Part Number	Weight (KG)	Bevel°	C	D	E	F
				Top Leg	Lip Thickness	Bottom Leg	Leg Opening
75SV2 Adapter	TE-5897W-75SV2	140.0	30	462	102	277	–

## Wear Caps, Pins & Removal Tools

Product	Part Number	Weight (KG)	G	H
			Length	Width
75SV2 Wear Cap	TE-WC275	16.0	224	258
85SV2 Wear Cap	TE-WC285	18.0	236	281
75SV2 Pin	TE-75SV2PN-C	0.9	136	–
85SV2 Pin	TE-85SV2PN-C	1.3	152	–
75-85SV2 Install/Removal Tool	TE-75-85SV2PN-RT2	3.5	–	–





# EASIER. SAFER. LONGER LASTING.

## **ESCO®** **Ultralok®**

- Improved digging performance with lower nose height, streamlined shapes and smooth adapter transition.
- Easier to use with the lock integrated into the point and one simple tool to operate the hammerless system.
- Longer wear life with an average of 15% more usable wear metal with a harder and tougher alloy steel.
- Better reliability due to more stabilized mating flats and reduced locking device loading.
- Increased safety due to the completely hammerless locking system.

**FREE ADAPTERS FOR ALL CONVERSION**

Conditions apply

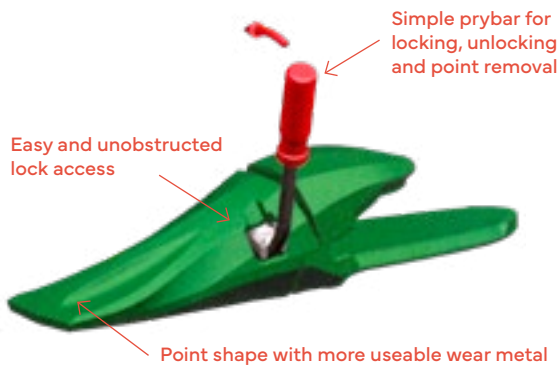


## The Ultralok Hammerless System

ESCO's Ultralok system increases productivity with a streamlined profile, point shapes engineered to dig more efficiently, and using harder and tougher alloy steel than competing systems. Wear metal has been increased and strategically reallocated to extend service life and reduce maintenance. With the convenience of a standard hand tool, the new hammerless locking mechanism provides greater reliability and easier field replacement.

### Machine tonnage and fitment size chart

Tonnage	8-10	10-15	15-20	20-25	25-30	30-40	40-60	60-75
Ultralok	U20	U25	U30	U35	U40	U45	U55	U60
ESCO Conical	25	30	35	40	45	50	55-65	65-70
Cat J-Series	J225	J250	J300	J350	J400	J460	J550	J600



**P TIGER / PICK**

For extremely hard to penetrate materials. Top and bottom ribs provide strength and allow the point to stay sharp throughout its wear life.



**S STANDARD**

An excellent choice for general purpose applications. Wears sharp to maintain penetration, with a centre rib for strength.



**F FLARE**

For general purpose digging and clean-up. The wide blade maximizes bucket capacity. An excellent choice for trench bottoms and foundations.



**C CHISEL**

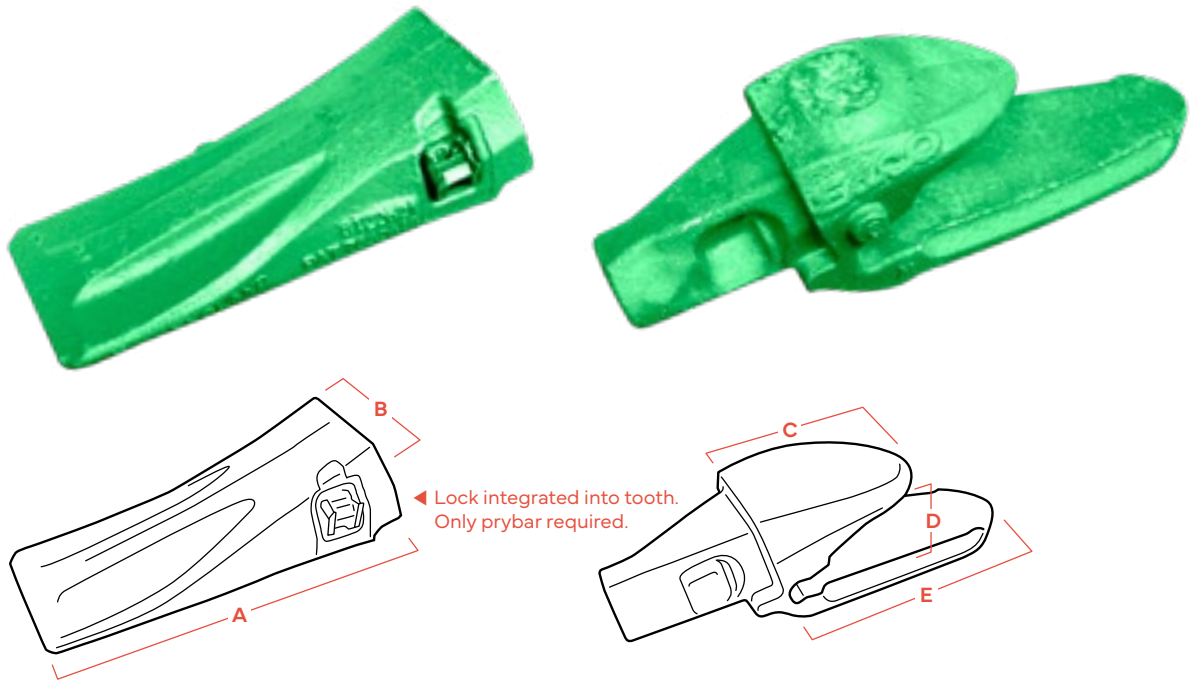
Primarily for excavators. Good penetration and extra wear metal in tough applications. The heavy-duty rib and unique tear-drop relief in the bottom keep the point sharp throughout its wear life.



**H HEAVY**

For extremely abrasive applications. Very long point life. Designed to maintain sharpness as it wears.

## ULTRALOK U20-U25



### Teeth

Product	Part Number	Weight (KG)	A	B
			Length	Width
U20 Standard	TE-U20S	2.0	176	78
U20 Chisel	TE-U20C	2.0	191	78
U20 Tiger	TE-U20P	1.7	202	78
U25 Standard	TE-U25S	3.4	211	93
U25 Chisel	TE-U25C	3.4	229	93
U25 Tiger	TE-U25P	2.9	224	93

### Adapters

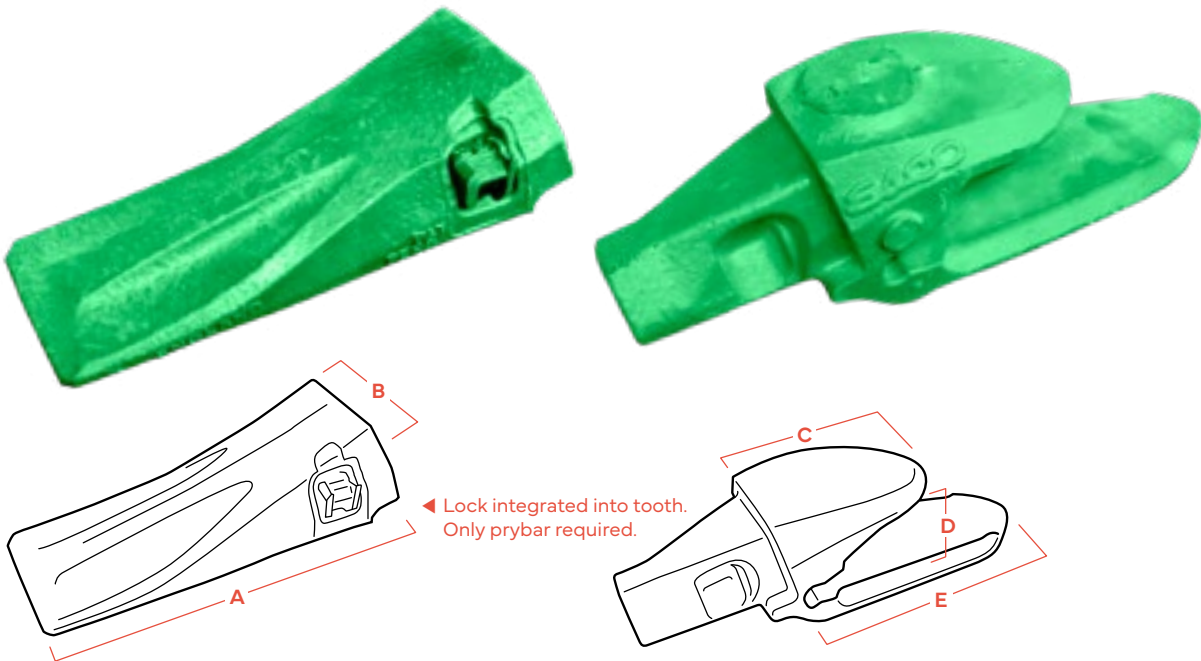
Product	Part Number	Weight (KG)	Bevel°	C	D	E
				Top Strap	Gap	Bottom Strap
U20 Adapter	TE-5854-U20	3.8	30	79	25	165
U25 Adapter — 32mm Lip	TE-5849-U25	6.2	30	95	32	190
U25 Adapter — 25mm Lip	TE-5854-U25	6.3	30	95	25	190
U25 Flushmount 30-35mm	TE-8803-U25	7.6	25	199	—	—

### Installation & Removal Tools

Product	Part Number
U20-25 Ultralok Prybar	TE-PRYBAR20-25

## ULTRALOK U30-U35

# BUCKET TEETH



### Teeth

Product	Part Number	Weight (KG)	A	B
			Length	Width
U30 Standard	TE-U30S	5.0	240	105
U30 Chisel	TE-U30C	5.0	259	105
U30 Tiger	TE-U30P	4.1	274	105
U35 Standard	TE-U35S	7.0	265	119
U35 Chisel	TE-U35C	7.0	291	119
U35 Tiger	TE-U35P	5.7	298	119

### Adapters

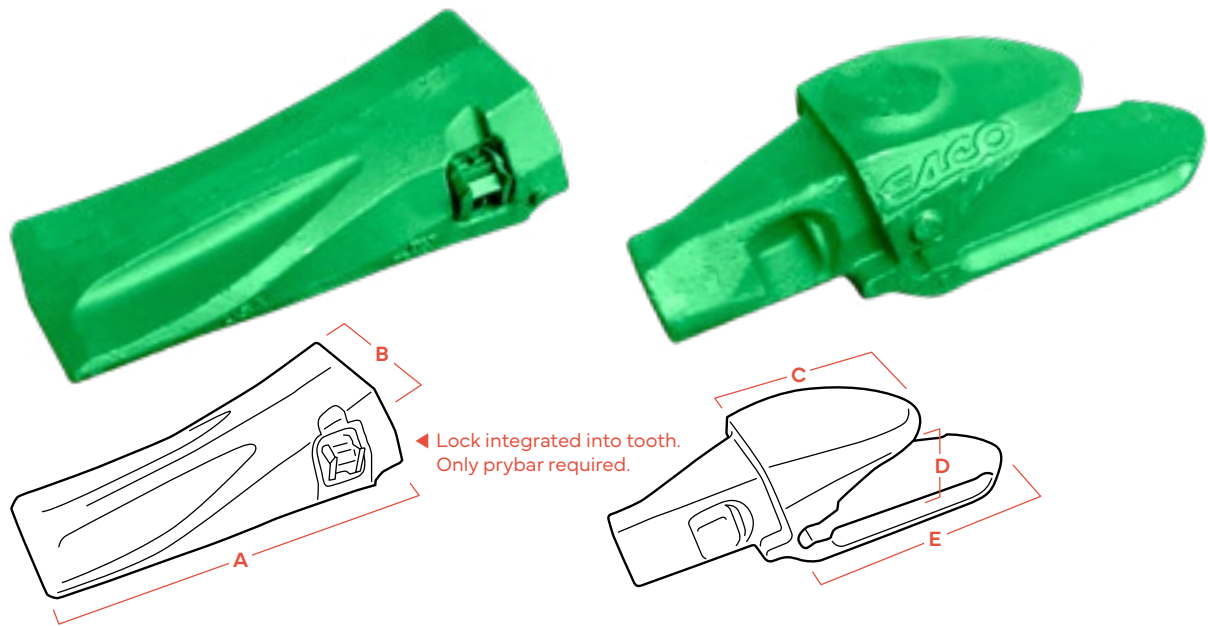
Product	Part Number	Weight (KG)	Bevel°	C	D	E
				Top Strap	Gap	Bottom Strap
U30 Adapter — 32mm Lip	TE-5849-U30	9.0	30	118	32	214
U30 Adapter — 40mm Lip	TE-5850-U30	8.7	30	116	40	212
U35 Adapter — 40mm Lip	TE-5855-U35	11.9	30	127	40	235

### Installation & Removal Tools

Product	Part Number
U30-35 Ultralok Prybar	TE-PRYBAR30-35



## ULTRALOK U40-U45



### Teeth

Product	Part Number	Weight (KG)	A	B
			Length	Width
U40 Standard	TE-U40S	10.0	294	134
U40 Chisel	TE-U40C	10.0	328	134
U40 Tiger	TE-U40P	8.1	335	134
U40 Heavy	TE-U40H	12.1	326	134
U45 Standard	TE-U45S	14.0	328	149
U45 Chisel	TE-U45C	14.0	366	149
U45 Hot Slag Chisel	TE-U45CH	14.0	366	149
U45 Tiger	TE-U45P	11.0	369	149
U45 Heavy	TE-U45H	17.0	364	149
U45 Flare	TE-U45F	18.0	356	149
U45 Twin Tiger	TE-U45T	13.2	370	149

### Adapters

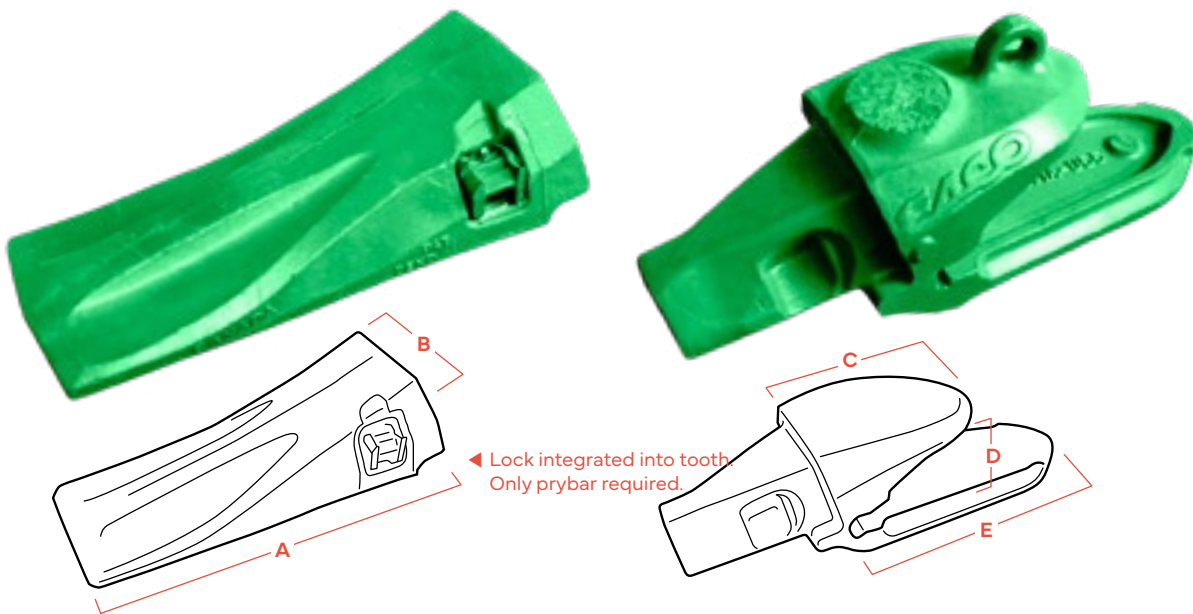
Product	Part Number	Weight (KG)	Bevel°	C	D	E
				Top Strap	Gap	Bottom Strap
U40 Adapter — 50mm Lip	TE-5856-U40	17.1	30	145	50	264
U40 Adapter — 40mm Lip	TE-3882B-U40	17.0	30	145	40	264
U40 Weld on Nose	TE-WN-U40	7.9	—	—	—	—
U45 Adapter — 50mm Lip	TE-5856-U45	23.0	30	151	50	285

### Installation & Removal Tools

Product	Part Number
U40 Ultralok Prybar	TE-PRYBAR40
U45 Ultralok Prybar	TE-PRYBAR45

## ULTRALOK U55-U60

# BUCKET TEETH



### Teeth

Product	Part Number	Weight (KG)	A	B
			Length	Width
U55 Standard	TE-U55S	20.5	372	169
U55 Chisel	TE-U55C	20.6	415	169
U55 Tiger	TE-U55P	16.5	420	169
U55 Twin Tiger	TE-U55T	20.0	419	169
U55 Heavy	TE-U55H	24.5	413	169
U60 Standard	TE-U60S	30.0	429	195
U60 Chisel	TE-U60C	30.0	454	195
U60 Heavy	TE-U60H	35.6	454	195
U60 Tiger	TE-U60P	24.7	466	195

### Adapters

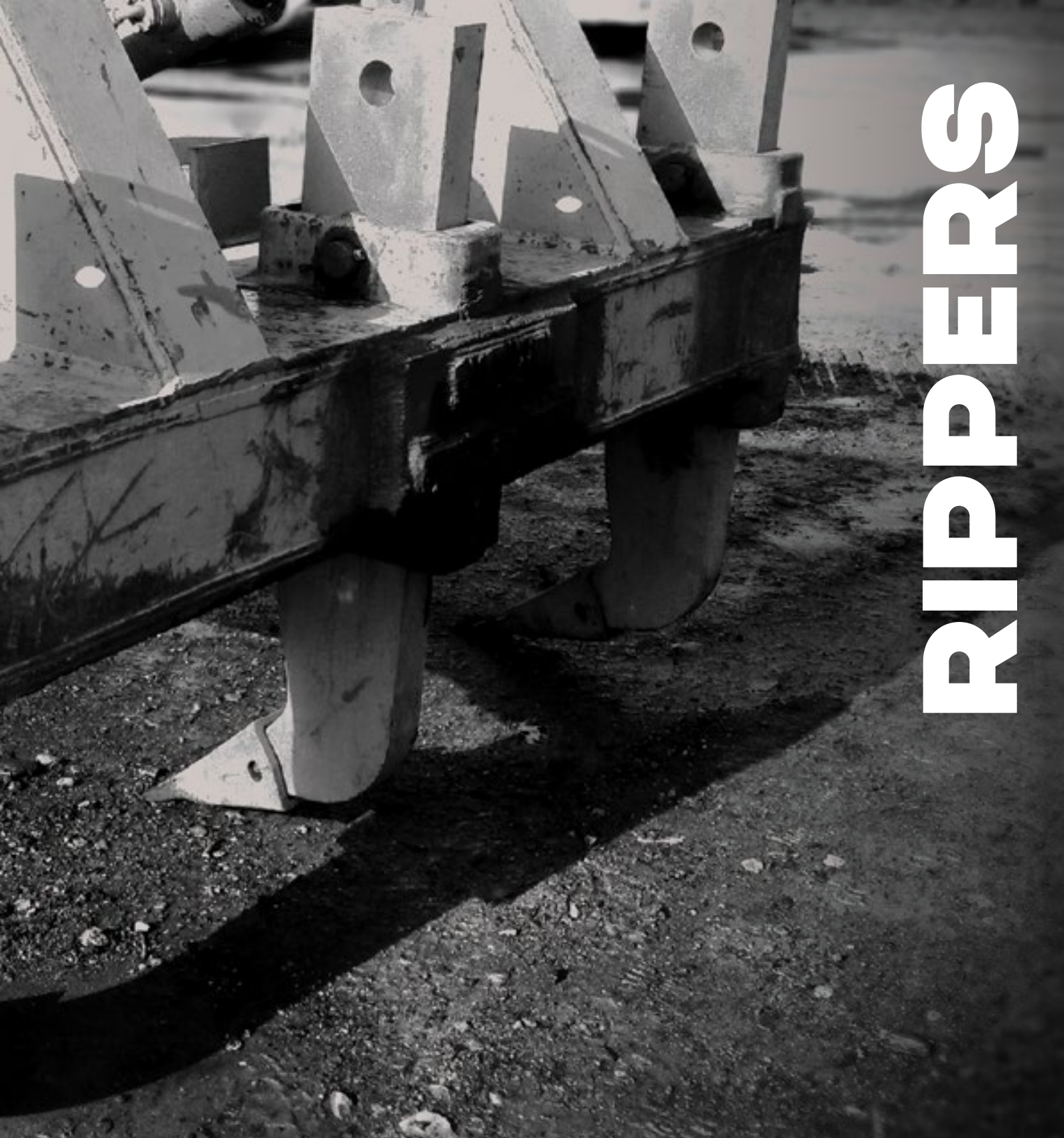
Product	Part Number	Weight (KG)	Bevel°	C	D	E
				Top Strap	Gap	Bottom Strap
U55 Adapter — 50mm Lip	TE-8801B-U55	28.6	30	165	50	302
U55 Adapter — 60mm Lip	TE-3811A-U55	32.5	30	165	60	302
U55 Adapter — 65mm Lip	TE-5857A-U55	32.5	30	164	65	302
U55 Adapter — 65mm Lip (Loader)	TE-8813A-U55	34.6	30	321	65	196
U55 Adapter — 70mm Lip	TE-3858A-U55	31.8	30	164	70	302
U60 Adapter — 70mm Lip	TE-3858B-U60	53.3	30	370	70	185
U60 Adapter — 80mm Lip	TE-5898A-U60	50.9	30	379	80	194

### Installation & Removal Tools

Product	Part Number
U55-60 Ultralok Prybar	TE-PRYBAR55-60







# RIPPERS



0800 732 578 ■ [REALSTEEL.CO.NZ](http://REALSTEEL.CO.NZ)



## RIPPERS

### Pick the right tool for the job

Our ripper parts are high-quality after market castings made by Black Cat Blades. We offer a variety of tooth shapes and sizes, ensuring we have what you need for your specific application. Finding the right balance of strength, penetration and wear life is vital to choosing the tip shape for your application.



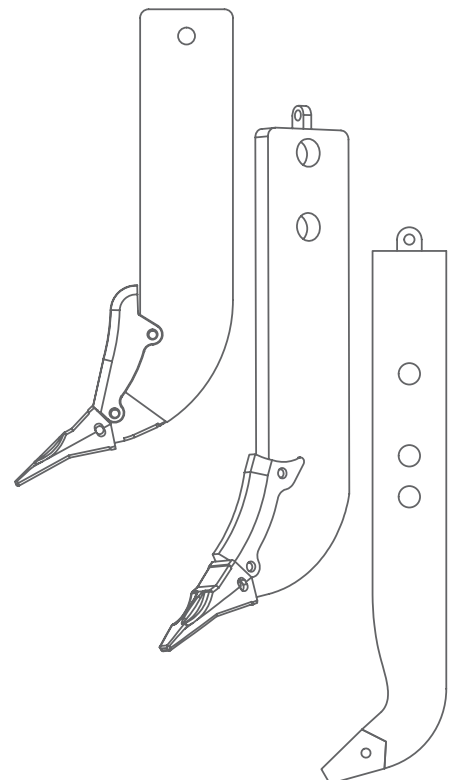
Standard ripper tooth offering good penetration and wear life.



A heavy duty rib reinforces the center of the tooth and improves direction of material.

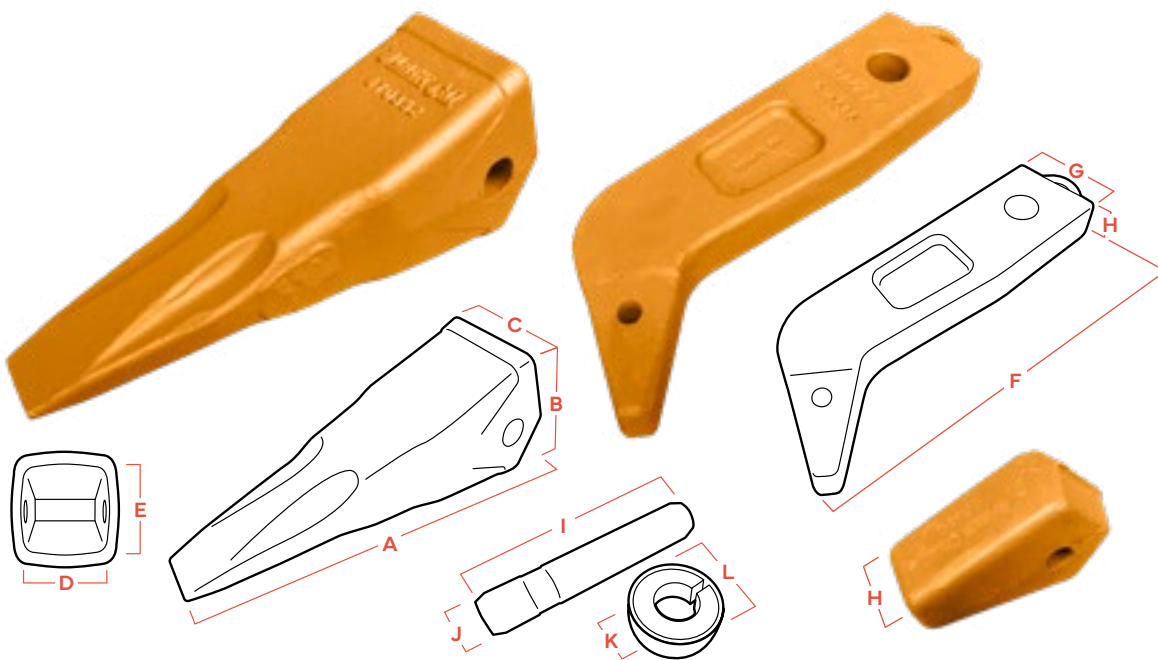
### We also make custom ripper shanks from Hardox that are harder, tougher and last longer.

Our sales and design team are experts at designing wear parts specifically optimised for your application. Give us a call so we can make you a custom Hardox ripper shank that will outlast the competition hands-down.



▲ Custom-made 75mm Hardox CAT D7 Ripper Shanks





## Boots

Product	Part Number	Weight (KG)	EXTERIOR			POCKET	
			A	B	C	D	E
D4/5 Penetration	RC-6Y0309	5.6	292	106	84	60	85
D6/7 Centreline	RC-6Y0352	12.7	356	148	120	77	115
D6/7 Penetration	RC-6Y0359	12.8	356	147	120	77	115

## Shanks & Noses

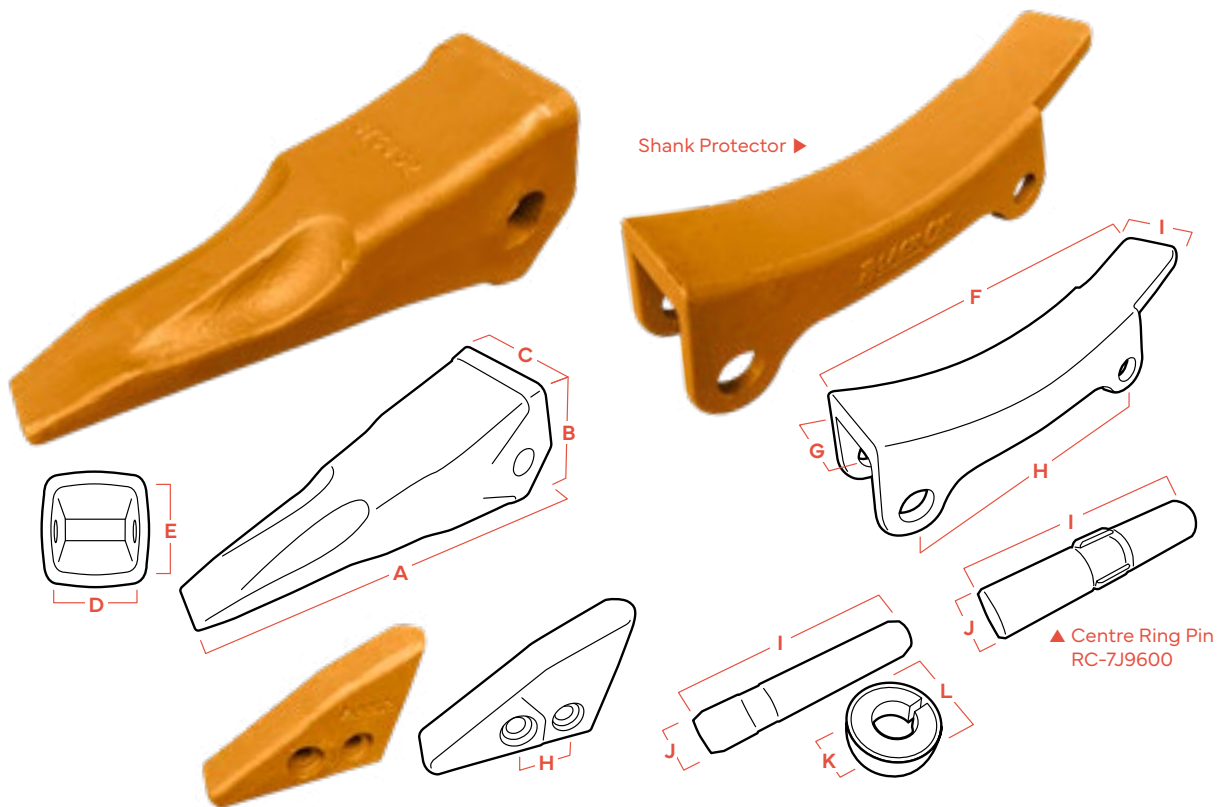
Product	Part Number	Weight (KG)	F	G	H
			Length	Width	Thickness
D4/5 Ripper Shank	RC-9J8910-XA	26.5	542	137	57
D4/5 Weld On Nose	RC-8E7300	2.5	-	-	52
D6/7 Weld On Nose	RC-8E7350	5.5	-	-	65

## Pins & Retainers

Ø = Diameter

Pins & Retainers			PIN		RETAINER	
			I	J	K	L
Product	Part Number	Weight (KG)	Length	Diameter	Internal Ø	External Ø
D4/5 Ripper Pin	RC-9W2668	0.2	89	19	–	–
D4/5 Retainer (same as J350)	TC-8E6359	0.2	–	–	18.5	40
D6/7 Ripper Pin (same as J350)	TC-8E6358	0.3	105	19	–	–
D6/7 Retainer (same as J350)	TC-8E6359	0.1	–	–	18.5	40

## CAT D8/9



### Boots

Product	Part Number	Weight (KG)	EXTERIOR			POCKET	
			A	B	C	D	E
D8/9 Centreline Intermediate	RC-9W2452	22.4	381	171	143	88	130
D8/9 Penetration Intermediate	RC-4T5452	18.7	397	173	143	88	130

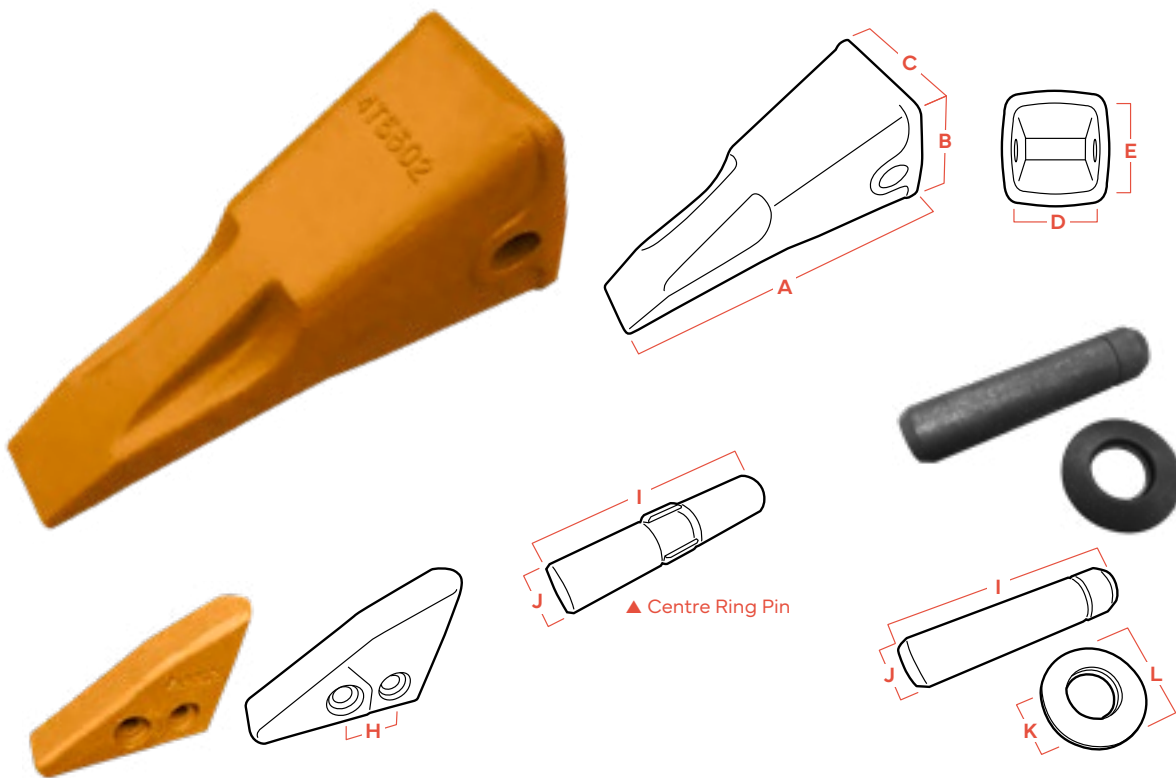
### Noses & Protectors

Product	Part Number	Weight (KG)	F	G	H	I
			Length	Internal Gap	Hole Spacing	Thickness
D8/9 Weld On Nose	RC-9U9694	20.0	–	–	83	75
D8/9 Shank Protector	RC-6J8814	13.7	432	80	311	108
D8/9 HD Shank Protector	RC-8E1848	25.5	486	82	311	127

### Pins & Retainers

Ø = Diameter

Product	Part Number	Weight (KG)	PIN		RETAINER	
			I	J	K	L
D8/9 Ripper Pin — Centre Ring	RC-7J9600-4T2479	0.5	119	25.4		
D8/9 Ripper Pin	RC-6Y3394	0.5	128	25	–	–
D8/9 Retainer (same as J550)	TC-8E5559	0.1	–	–	24.5	53



## Boots

Product	Part Number	Weight (KG)	EXTERIOR			POCKET	
			A	B	C	D	E
D10/11 Penetration Intermediate	RC-4T5502	30.4	425	235	165	105	180

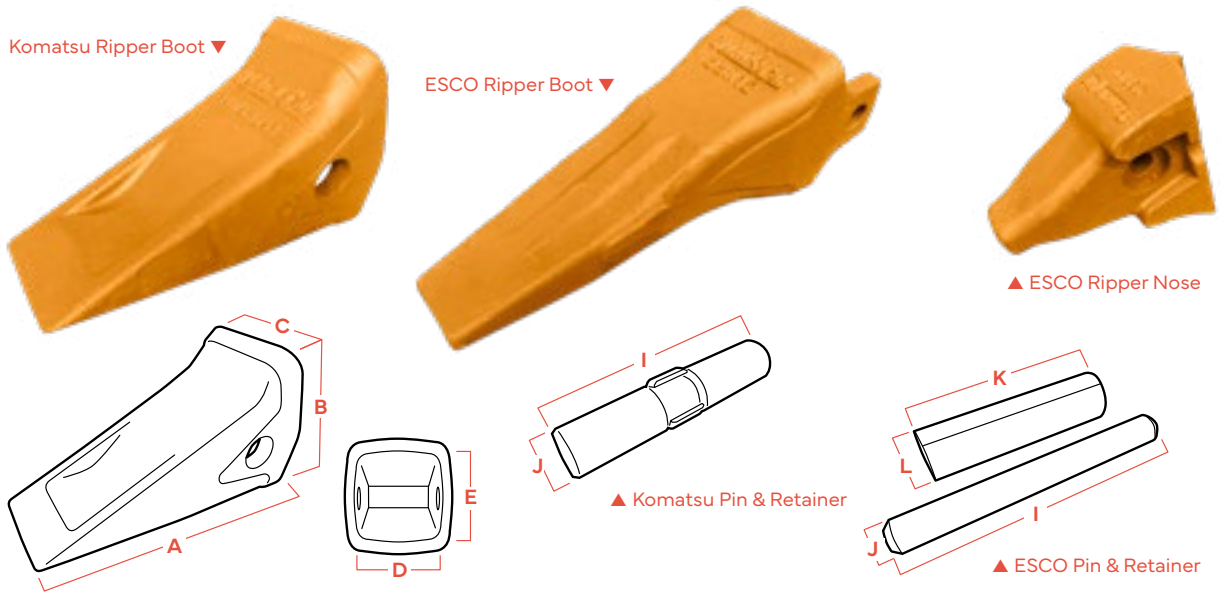
## Pins & Retainers

Ø = Diameter

Product	Part Number	Weight (KG)	PIN		RETAINER	
			I	J	K	L
D10/11 Pin	RC-6Y1204	0.9	142	33	–	–
D10/11 Retainer	RC-6Y1202	12.8	–	–	63	31
D10/11 Pin – Centre Ring	RC-6J8811	0.7	115	32	–	–
D10/11 Long Pin – Centre Ring	RC-3G0500	0.9	152	32	–	–



## ESCO & KOMATSU



### Boots

Product	Part Number	Weight (KG)	EXTERIOR			POCKET	
			A	B	C	D	E
ESCO 22 Ripper Boot	RE-22R10	3.8	270	92	85	60	75
ESCO 25 Ripper Boot	RE-25R112HX	6.3	306	114	97	66	90
ESCO 35 Ripper Boot	RE-35R15HX	14.6	394	165	125	90	120
ESCO 39 Ripper Boot	RE-39R16	22.8	460	191	155	95	132
Komatsu D60-D75 Ripper Boot	RK-1417811253	11.7	280	163	122	80	110
Komatsu D275/D355 Ripper Boot	RK-1957821331	16.8	360	196	124	80	160

### Noses

Product	Part Number	Weight (KG)	Length	Depth	Thickness
ESCO 25 Weld On Nose	RE-25WN	8.3	–	–	–
ESCO 35 Weld On Nose	RE-35WN_(35RN)	20.0	–	–	–

### Pins & Retainers

Ø = Diameter

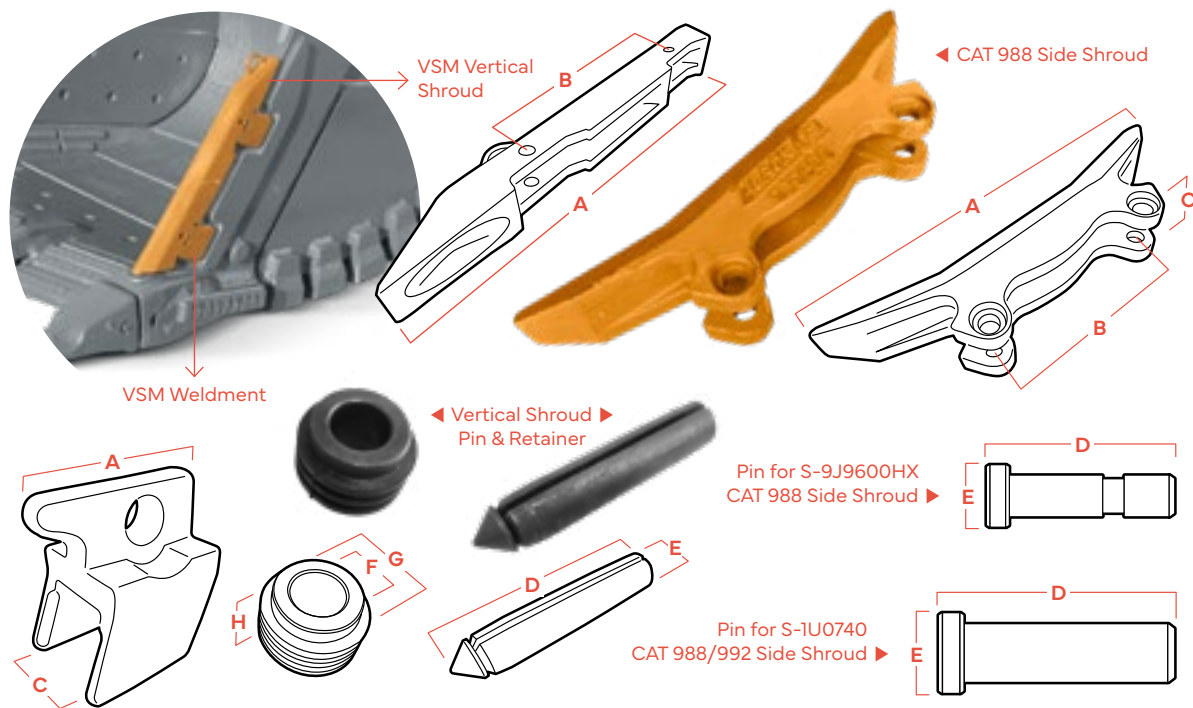
Product	Part Number	Weight (KG)	PIN		RETAINER	
			I	J	K	L
ESCO 22 Ripper Pin / Retainer	RE-22RP / RE-22RB	0.1 / 0.1	83	13	56	21
ESCO 25 Ripper Pin / Retainer	RE-25RPG / RE-25RBG	0.1 / 0.2	94	13	62	21
ESCO 35 Ripper Pin / Retainer	RE-35RP / RE-35RB	0.2 / 0.1	121	13	81	21
ESCO 39 Ripper Pin / Retainer	RE-39RP / RE-39RB	0.2 / 0.1	133	13	89	21
Komatsu Pin for D60-D355 Boot	TK-1757821740P	0.3	117	25	–	–



# SHROUDS



## PIN-ON SIDE SHROUDS



### Pin-on Side Shrouds

Product	Part Number	Weight (KG)	A	B	C
			External Length	Hole Spacing	Lip Gap
CAT 988 Side Shroud	S-9J9600-XA	20.2	575	255	38
CAT 988/992 Side Shroud	S-1U0740	25.2	608	293	55
VS450 Vertical Shroud	S-VS450	20.0	770	343	–
VS500 Vertical Shroud	S-VS500	30.5	830	405	–
VS550 Vertical Shroud	S-VS550	39.5	910	435	–
VSM150 Weldment	S-VSM150WN	5.9	145	–	38
VSM200 Weldment	S-VSM200WN	5.0	145	–	52
VSM250 Weldment	S-VSM250WN	5.5	145	–	64

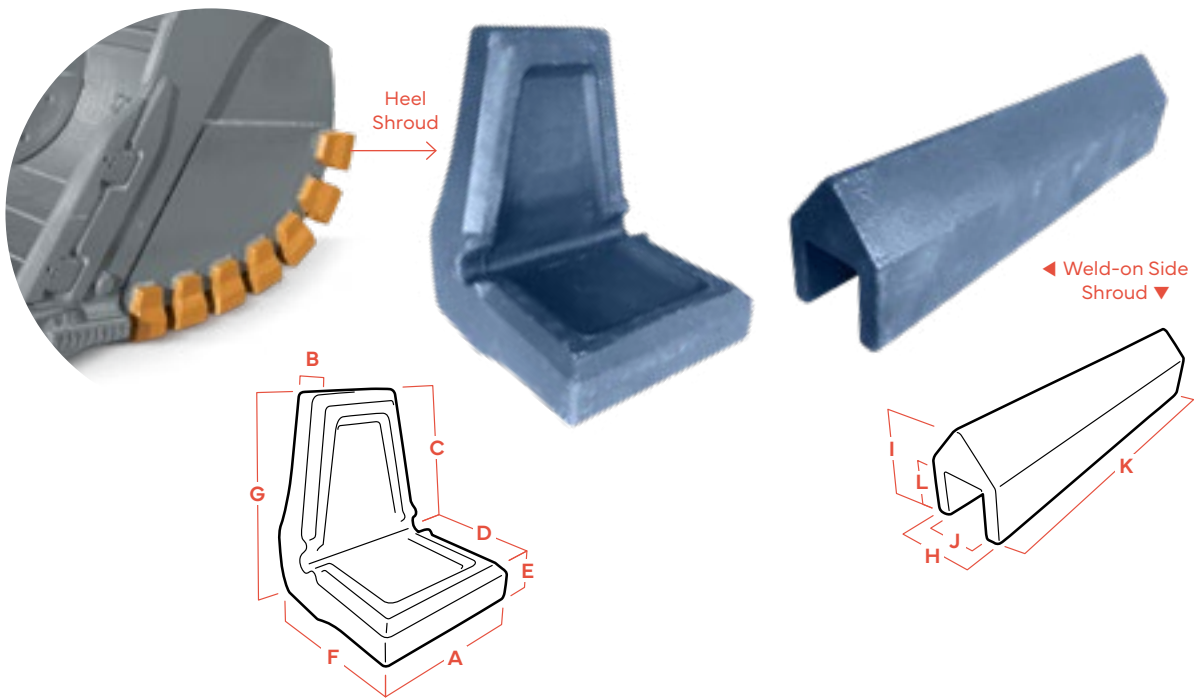
### Pins & Retainers

Ø = Diameter

Pins & Retainers			PIN		RETAINER		
			D	E	F	G	H
Product	Part Number	Weight (KG)	Length	Diameter	Internal Ø	External Ø	Depth
Pin for S-9J9600-XA	Use CAT J350 Pin (TC-8E6358)				Use CAT J350 Retainer (TC-8E6359)		
Pin for S-1U0740	Use CAT J550 Pin (TC-6Y8558)				Use CAT J550 Retainer (TC-8E5559)		
Pin for VS450	S-VSP2SL	0.4	80	21	–	–	–
Pin for VS500 & VS550	S-VSP3SL	0.5	104	21	–	–	–
Retainer for VS450 – VS550	S-VSR3SL	0.5	–	–	20	40	33

## WELD-ON SIDE / HEEL SHROUDS

# SHROUDS



### Weld-on Side Shrouds

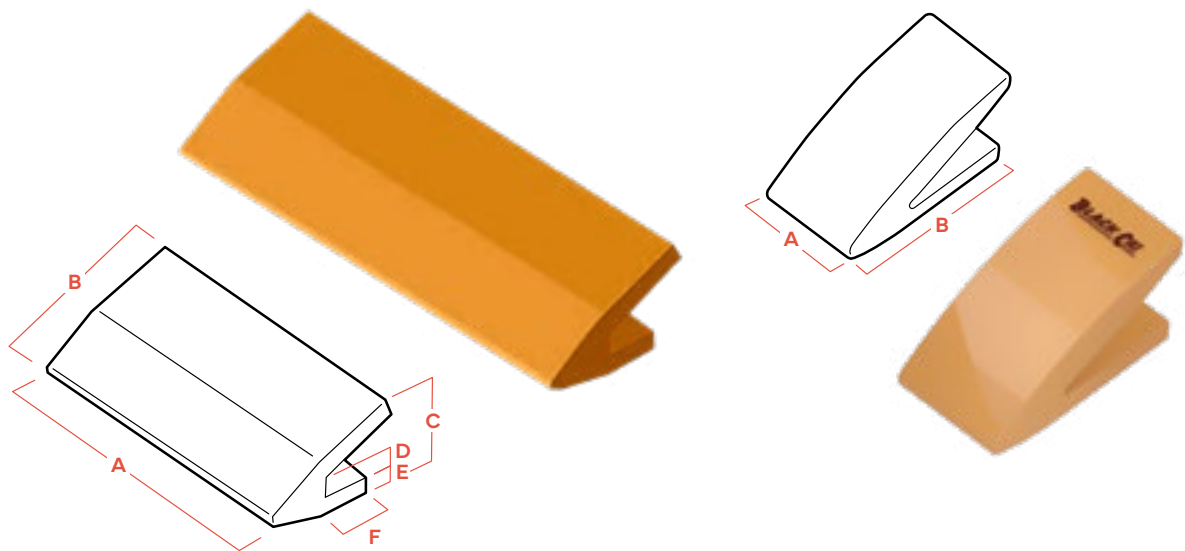
			H	I	J	K	L
Product	Part Number	Weight (KG)	Width	Height	Lip Gap	Length	Interior Depth
20mm Weld-on Side Shroud	S-SLS20G	1.9	38	45	22	300	25
25mm Weld-on Side Shroud	S-SLS25G	2.5	44	50	26	300	26
32mm Weld-on Side Shroud	S-SLS32G	4.1	55	70	34	300	38
40mm Weld-on Side Shroud	S-SLS40G	5.5	65	80	44	300	43

### Heel Shrouds

			A	B	C	D	E	F	G
Product	Part Number	Weight (KG)	Exterior Length	Side Thickness	Interior Height	Interior Depth	Bottom Thickness	Exterior Depth	Exterior Height
12kg Heel Shroud	S-BHS170	12.0	165	65	145	80	42	145	185
15kg Heel Shroud	S-BHS150	15.5	150	60	150	125	60	185	210
10kg Heel Shroud	S-ES6697-4	9.5	180	40	60	135	32	175	90
21kg Heel Shroud	S-ES6697-2	21.0	185	50	95	195	55	246	145

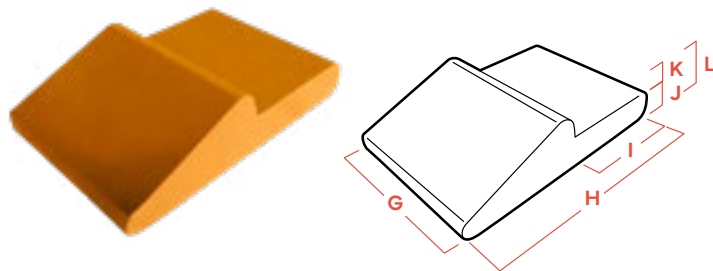


## LIP SHROUDS / HALF ARROW



### Weld-on Lip Shrouds

				B	A	C	D	E	F
Product	Part Number	Weight (KG)	Bevel°	Length	Width	Height	Land	Bottom Leg Thickness	Bottom Leg Length
100-120mm Lip Shroud	S-WE6027	103	30	250	800	190	43	30	85
50-80mm Lip Shroud	S-WE5966	59	25	200	800	130	26	25	70
40-53mm Lip Shroud	S-WS45	6.9	30	182	114	-	-	-	-
50-75mm Lip Shroud	S-WS80	15.5	30	218	203	-	-	-	-



### Half Arrow

		G	H	I	J	K	L
Product	Part Number	Max Length	Total Depth	Base Depth	Base Thickness	Lip Height	Height
28 x 254mm Half Arrow Bar Stock	HA282541203050	3050	254	130	28	30	60
40 x 250mm Half Arrow Bar Stock	HA402541203050	3050	250	130	40	30	70



# DOMITE & WEAR BLOCKS



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## DOMITE & WEAR BLOCKS

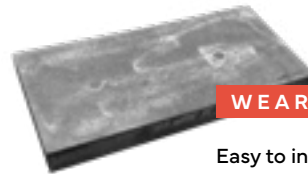
### Domite 700BHN Wear Products

Domite is available in a wide range of shapes and sizes and can be used in combination to protect any impact and high abrasion areas. Domite is a combination of high chromium white iron metallurgically bonded to a mild steel backing plate. The white iron has a minimum hardness of 700 Brinell (63Rc) providing maximum abrasion resistance protection for your equipment.



#### CHOCKY BLOCKS

For almost any application where abrasive wear is causing lost production through machine down time.



#### WEAR PLATES

Easy to install, with the ability to change out worn sections only rather than replacing whole sheets or plates.



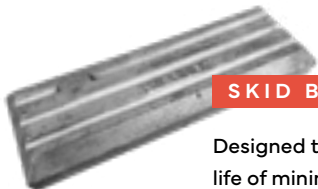
#### WEAR BARS

Easy to install, with the ability to change out worn sections only rather than replacing whole sheets or plates.



#### KNIVES

Offers sharp edges at the start of use and retain their edge sharpness and cutting efficiency longer than hard facing.



#### SKID BARS

Designed to protect and extend the life of mining and quarrying heavy duty buckets.



#### WEAR BUTTONS & DONUTS

Perfect alternative to expensive, labour intensive hard facing. Light weight and easy to handle, ideal for in situ repairs.

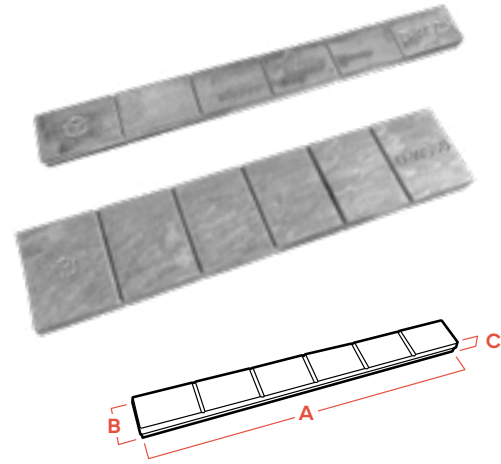
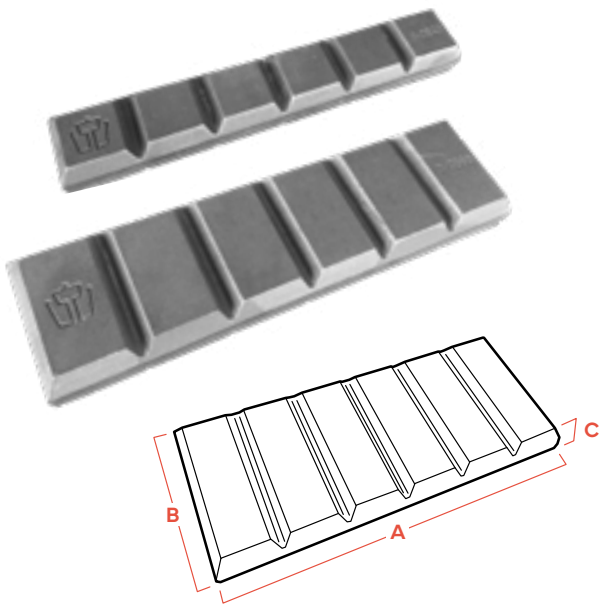


#### WAFER STRIPS

Thin and lighter than chocky bars with superior wear and impact resistance than chrome clad plate and hard facing.



## CHOCKY BLOCKS / WAFER STRIPS



### Chocky Blocks

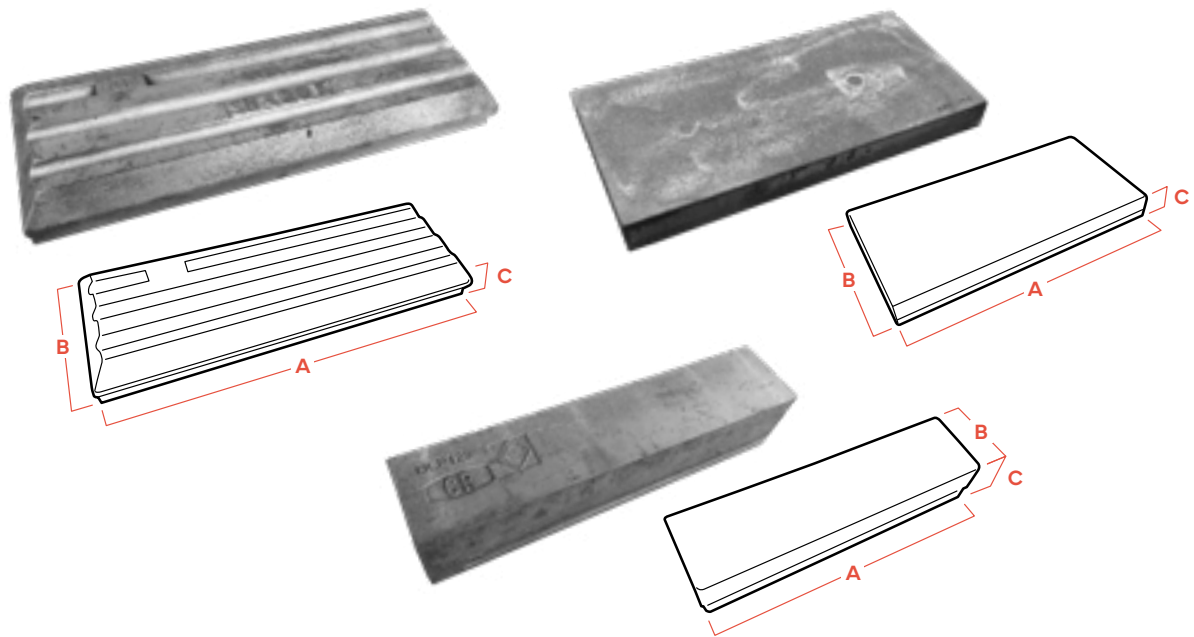
Product	Part Number	Weight (KG)	A	B	C
			Length	Width	Height
25mm Chocky Block	D-CB25	0.9	240	25	23
40mm Chocky Block	D-CB40	1.4	240	40	23
50mm Chocky Block	D-CB50	1.9	240	50	23
65mm Chocky Block	D-CB65	2.4	240	65	23
100mm Chocky Block	D-CB100	4.3	240	100	23

### Wafer Strips

Product	Part Number	Weight (KG)	A	B	C
			Length	Width	Height
25mm Wafer Strip	D-WS25	0.6	240	25	12
40mm Wafer Strip	D-WS40	0.9	240	40	12
50mm Wafer Strip	D-WS50	1.2	240	50	12



## SKID BARS / WEAR BARS / WEAR PLATES



### Skid Bars

Product	Part Number	Weight (KG)	A	B	C
			Length	Height	Width
Rectangular Skid Bar	D-SB406	7.3	302	101	34
Rectangular Skid Bar	D-SB409	3.7	154	101	34

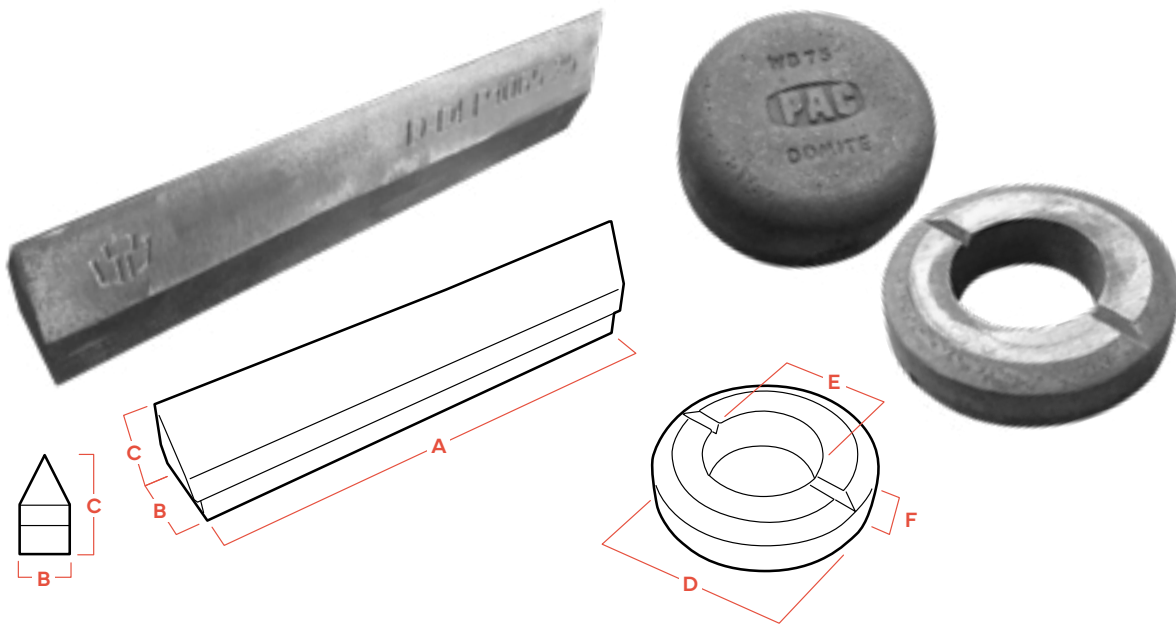
### Wear Bars

Product	Part Number	Weight (KG)	A	B	C
			Length	Height	Width
230 x 50 x 50 Wear Bar	D-DLP125	4.5	230	50	50
432 x 50 x 50 Wear Bar	D-DLP201A	8.5	432	50	50

### Wear Plates

Product	Part Number	Weight (KG)	A	B	C
			Length	Height	Width
Rectangular Wear Plate	D-DLP995	8.6	305	150	26

## KNIVES / WEAR BUTTONS & DONUTS



### Knives

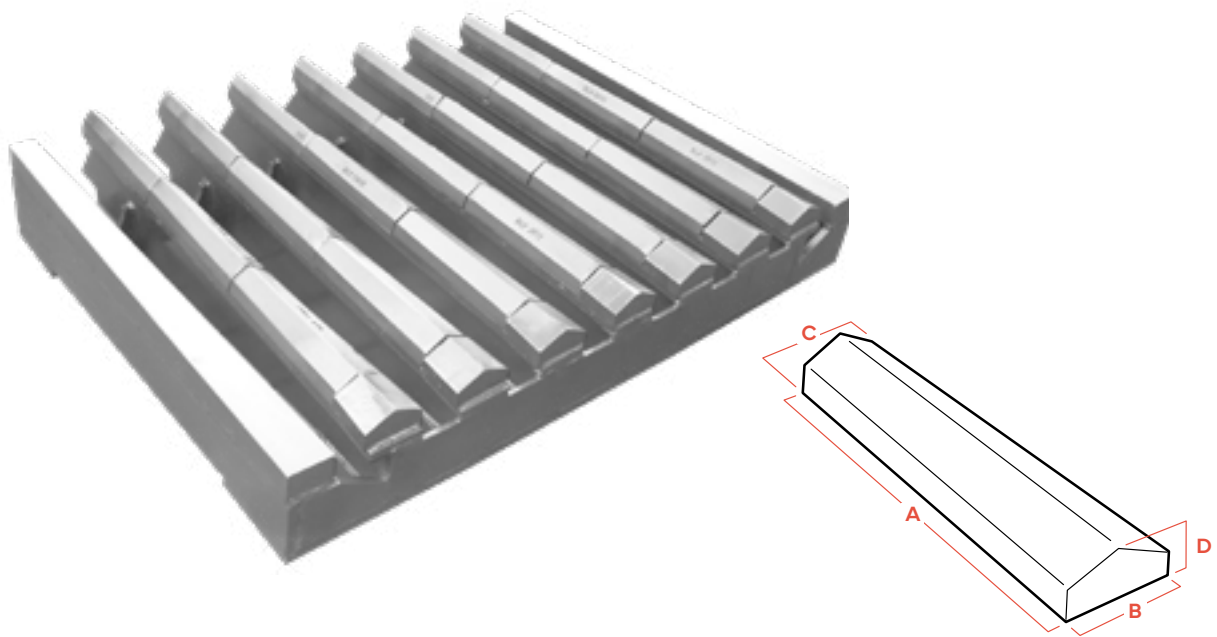
Product	Part Number	Weight (KG)	A	B	C
			Length	Width	Height
16mm Arrow Head Knife	D-DLP1065-16	0.9	203	16	50
19mm Arrow Head Knife	D-DLP1065-19	1.1	203	19	50
25mm Arrow Head Knife	D-DLP1065-25	1.5	203	25	50

### TO ORDER

### Wear Buttons & Donuts

Product	Part Number	Weight (KG)	D	E	F
			Length	Width	Height
75mm Wear Button	D-WB75	1	75	55	30
90mm Wear Button	D-WB90	1.5	90	70	30
100/70mm Diameter Donut	D-DLP1994	1	100	70	25

## GRIZZLY BARS



### TO ORDER

#### Grizzly Bars

##### TAPER A: 150–50

			A	B	C	D
Product	Part Number	Weight (KG)	Length	Starting Width	End Width (Taper)	Height
150/137.5 Grizzly Bar	D-DLP2067	13.6	305	150	137.5	50
137.5/125 Grizzly Bar	D-DLP2068	12.5	305	137.5	125	50
125/112.5 Grizzly Bar	D-DLP2069	11.2	305	125	112.5	50
112.5/100 Grizzly Bar	D-DLP2070	10	305	112.5	100	50
100/87.5 Grizzly Bar	D-DLP2071	8.8	305	100	87.5	50
87.5/75 Grizzly Bar	D-DLP2072	7.5	305	87.5	75	50
75/62.5 Grizzly Bar	D-DLP2073	6.3	305	75	62.5	50
62.5/50 Grizzly Bar	D-DLP2074	5.1	305	62.5	50	50

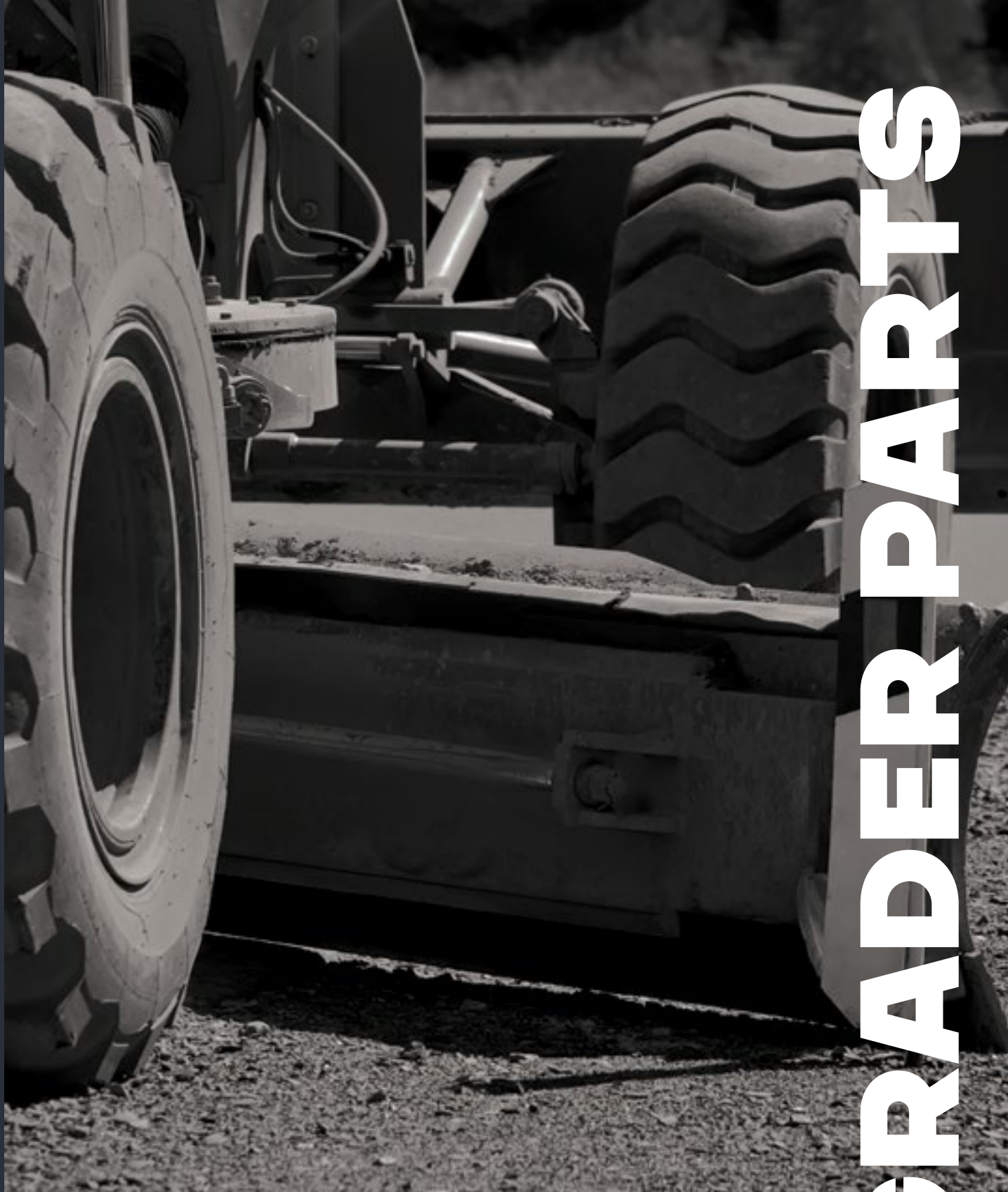
### TO ORDER

#### Grizzly Bars

##### TAPER B: 150–75

			A	B	C	D
Product	Part Number	Weight (KG)	Length	Starting Width	End Width (Taper)	Height
150/141 Grizzly Bar	D-DLP2075	13.8	305	150	141	50
141/131 Grizzly Bar	D-DLP2076	12.9	305	141	131	50
131/122 Grizzly Bar	D-DLP2077	11.9	305	131	122	50
122/113 Grizzly Bar	D-DLP2078	11.1	305	122	113	50
103/94 Grizzly Bar	D-DLP2080	9.2	305	103	94	50
94/84 Grizzly Bar	D-DLP2081	8.3	305	94	84	50





# GRADER PARTS



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## GRADER PARTS

### Black Cat Grader Parts

Our grader parts are made by Black Cat Wear Parts — makers of high-quality aftermarket blades and castings.



### Grader Blades

#### CARBON STEEL BLADES

Hardness: 250–320 Brinell, 25–34 HRC

Manufactured using high alloy 'Boron' steels which are then heat treated, quenched and tempered.



#### HEAT TREATED BLADES

Hardness: 21–512 Brinell, 45–52 HRC

Manufactured using high alloy 'Boron' steels which are then heat treated, quenched and tempered.



### Snow Plow Blades

#### TUNGSTEN CARBIDE INSERT BLADES

These carbide inserts are an extremely hard material with incredible wear life. The steel blade is primarily the "holder" for the carbide inserts which alone are too fragile to be used for plowing roadways.

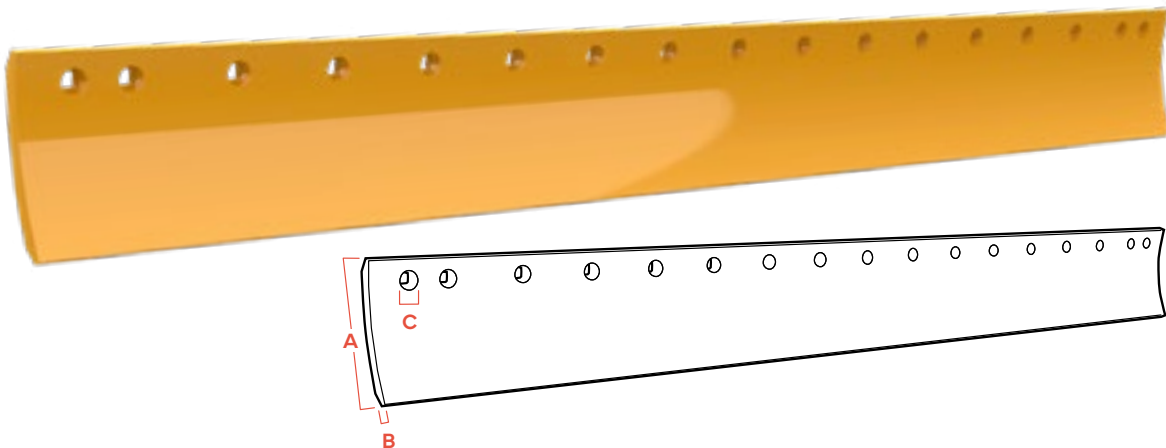


#### JOMA 6000 SNOW PLOW BLADES

The JOMA 6000 blade is a unique design incorporating tungsten carbide inserts brazed into specially profiled steel segments which are then encased in rubber. The result is dramatically superior life when compared to existing carbide-insert blades.



## 5-6 FT BLADES / PLOW BOLTS & NUTS



### 5-foot Grader Blades

Part Number	Profile	Steel Type	Bevel	Weight (KG)	No. of Holes	A	B	C
						Width	Thickness	Bolt Size
GB-7D4508	Curved	Heat Treated	Double	24.3	11	6"	5/8"	5/8"

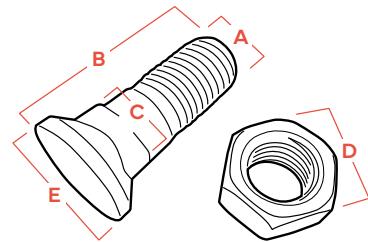
### 6-foot Grader Blades

Part Number	Profile	Steel Type	Be	Weight (KG)	No. of Holes	A	B	C
						Width	Thickness	Bolt Size
GB-7T1633-6	Curved	High Carbon	Double	29.4	13	6"	5/8"	5/8"
GB-5D9562	Curved	Heat Treated	Double	41.5	13	8"	5/8"	5/8"
GB-5D9558	Curved	Heat Treated	Double	50.1	13	8"	3/4"	5/8"

#### Hole spacing note:

For all grader blades, holes at each end of the blade have 3" hole spacing.

All other holes have 6" hole spacing. See illustration above for reference.



### Plow Bolts & Nuts

Ø = Diameter ● = Stocked Part

Bolt Ø	Bolt Length								Bolt Square	Nut Width (Across Flats)	Head Ø
	1 3/4"	2"	2 1/4"	2 1/2"	2 3/4"	3"	3 1/4"	3 1/2"			
5/8"	●	●	●	●	●	●	●	●	15.9	23	26
3/4"		●	●	●	●	●	●	●	19.0	28	30

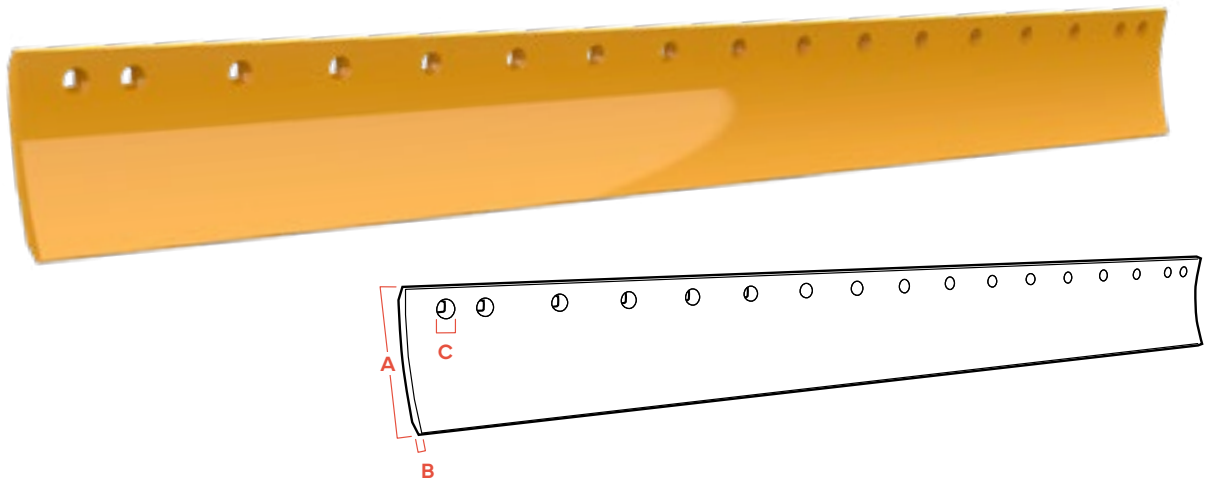
### Step Down Bolts

Product	Part Number
Plow Bolt 3/4-5/8" Step Down 2 1/4"	PB3458-214
Plow Bolt 3/4-5/8" Step Down 2 3/4"	PB3458-234

#### STANDARD BOLT SIZE NOTE

Standard blades take 2 1/4" bolts

## 7-8 FT BLADES



### 7-foot Grader Blades

Part Number	Profile	Steel Type	Bevel	Weight (KG)	No. of Holes	A	B	C
						Width	Thickness	Bolt Size
GB-7T1625-6	Curved	High Carbon	Double	57.7	15	8"	3/4"	3/4"
GB-5D9561	Curved	Heat Treated	Double	48.4	15	8"	5/8"	5/8"
GB-5D9559	Curved	Heat Treated	Double	58.4	15	8"	3/4"	5/8"
GB-7D1577	Curved	Heat Treated	Double	58.2	15	8"	3/4"	3/4"
GB-4T2242	Curved	Heat Treated	Double	78.8	15	8"	1"	5/8"
GB-4T2233	Curved	Heat Treated	Double	78.4	15	8"	1"	3/4"

### 8-foot Grader Blades

Part Number	Profile	Steel Type	Bevel	Weight (KG)	No. of Holes	A	B	C
						Width	Thickness	Bolt Size
GB-8J4043-CD (Centre Drilled)	Curved	Heat Treated	Double	38.9	17	6"	5/8"	5/8"
GB-5D9731-12CD (Centre Drilled)*	Curved	Heat Treated	Double	55.4	10 (12" spacing)	8"	5/8"	5/8"
GB-7D1949	Curved	Heat Treated	Double	66.5	17	8"	3/4"	3/4"
GB-4T6511	Flat	Heat Treated	Double	112.5	17	10"	1"	3/4"

#### Hole spacing note:

For all grader blades, holes at each end of the blade have 3" hole spacing.

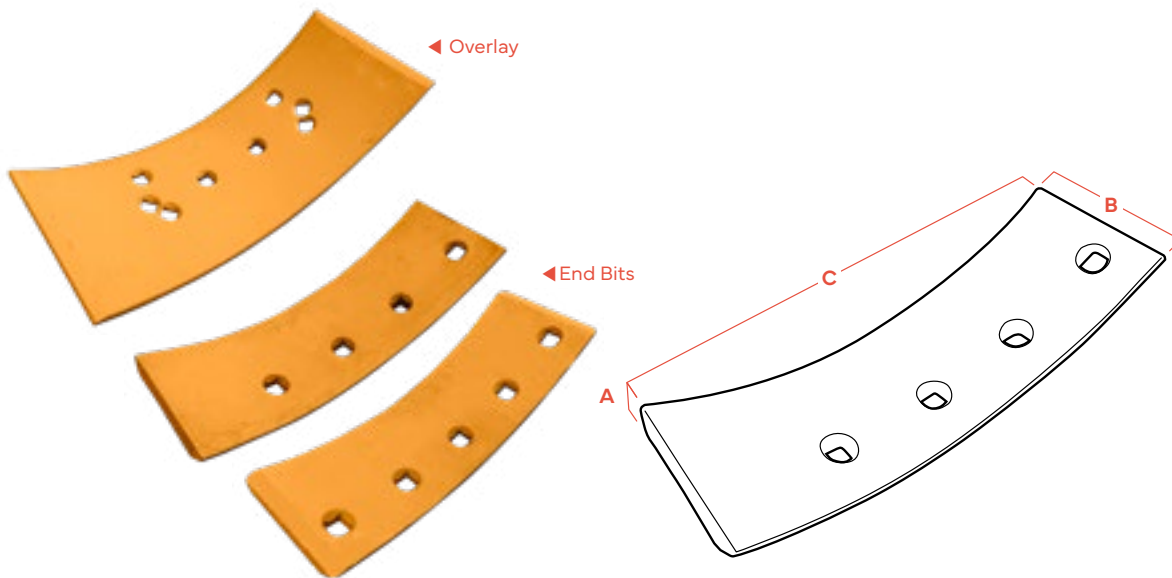
All other holes have 6" hole spacing. See illustration above for reference.

\* = Exception.

#### STANDARD BOLT SIZE NOTE

Standard blades take 2 1/4" bolts





## Overlays

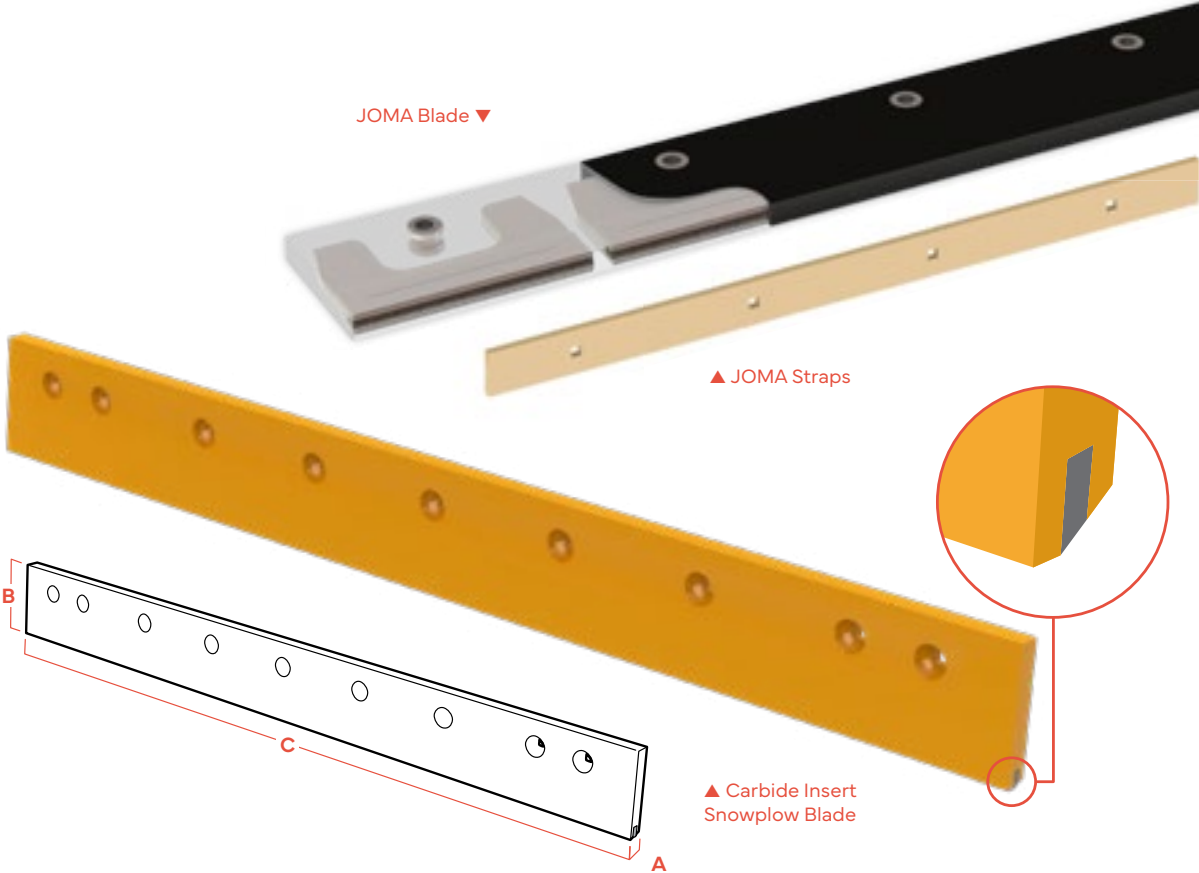
					A	B	C
Product	Part Number	Weight (KG)	No. of Holes	Bolt Size	Thickness	Width	Length
Cat 112-140 Overlay	GB-6D1904	22.5	8	5/8"	1/2"	9.25"	1.5ft
Cat 12-160 Overlay	GB-6Y2805	12.2	8	3/4"	1/2"	9.25"	1.75ft
Cat 14-16 Overlay	GB-7D9999	13.1	8	3/4"	1/2"	9.25"	2ft
Cat Overlay 6"	GB-2322142	10.2	8	3/4"	5/8"	9.25"	1.5ft
John Deere 770-772 Overlay	GB-JD-T70927	17.2	10	5/8"	5/8"	9"	2ft

## End Bits

					A	B	C
Product	Part Number	Weight (KG)	No. of Holes	Bolt Size	Thickness	Width	Length
Cat 16G RH End Bit	GB-9D4880	9.7	4	3/4"	3/4"	6"	1.5ft
Cat 16G LH End Bit	GB-9D4881	9.7	4	3/4"	3/4"	6"	1.5ft
Cat 14G RH End Bit	GB-9J4405	8.1	4	3/4"	5/8"	6"	1.5ft
Cat 14G LH End Bit	GB-9J4406	8.1	4	3/4"	5/8"	6"	1.5ft
Cat 12-160 End Bit	GB-8E5529	7.6	5	3/4"	5/8"	6"	1.5ft
Cat 12-143 End Bit	GB-8E5531	7.9	5	5/8"	5/8"	6"	1.5ft



# SNOW PLOW BLADES



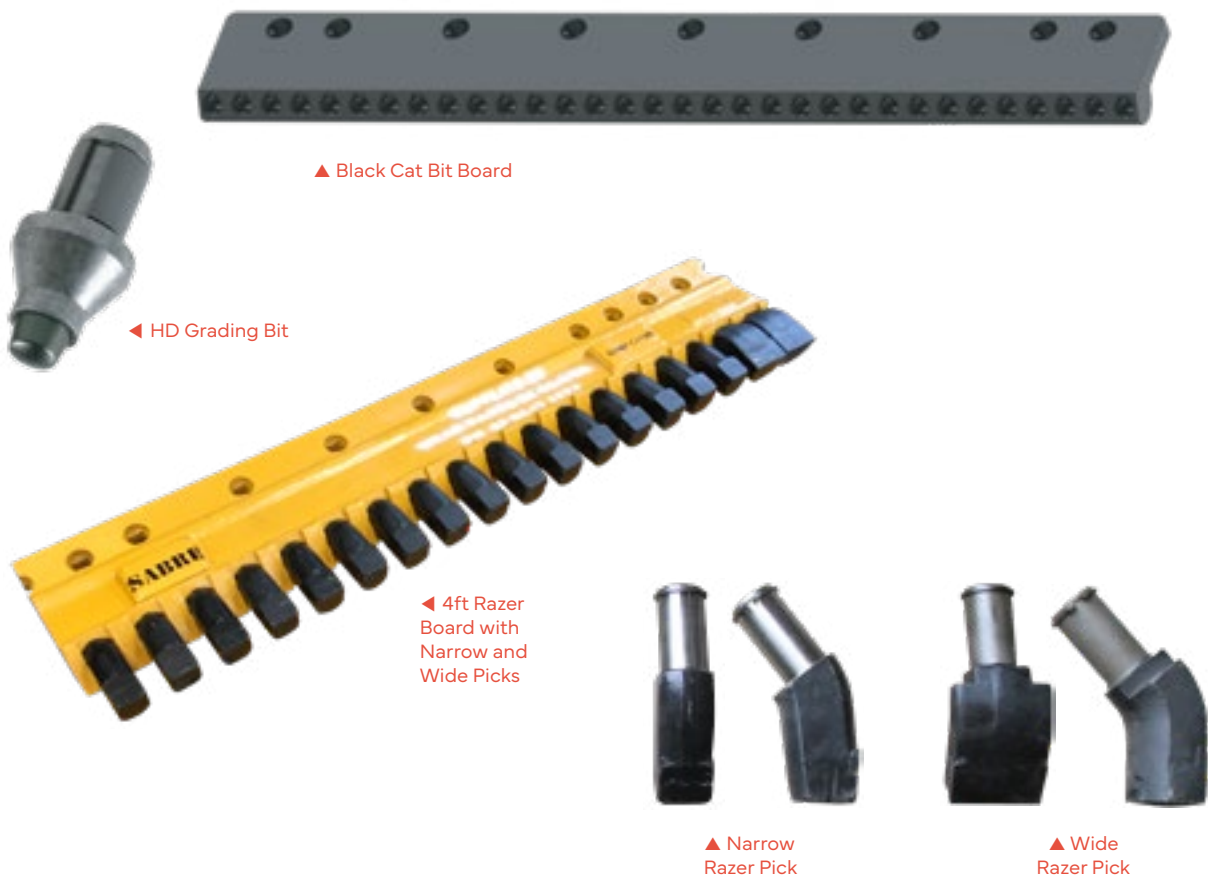
## Snow Plow Blades

Product	Part Number	No. of Holes	A	B	C
			Thickness	Width	Length
4ft Carbide Insert Snow Plow Blade	GB-CIAB664844-A	9	3/4"	6"	4ft
5ft Carbide Insert Snow Plow Blade	GB-CIAB766044-A	11	3/4"	6"	5ft
3ft JOMA Blade	JOMA-6000X3	3	1"	6"	3ft
4ft JOMA Blade	JOMA-6000X4	4	1"	6"	4ft
3ft JOMA Strap	JOMA-STRAP3SEH	3	–	–	3ft
4ft JOMA Strap	JOMA-STRAP4SEH	4	–	–	4ft

### STANDARD BOLT SIZE NOTE

Standard snow plow blades take 5/8" bolts





## Bit Boards & Bits

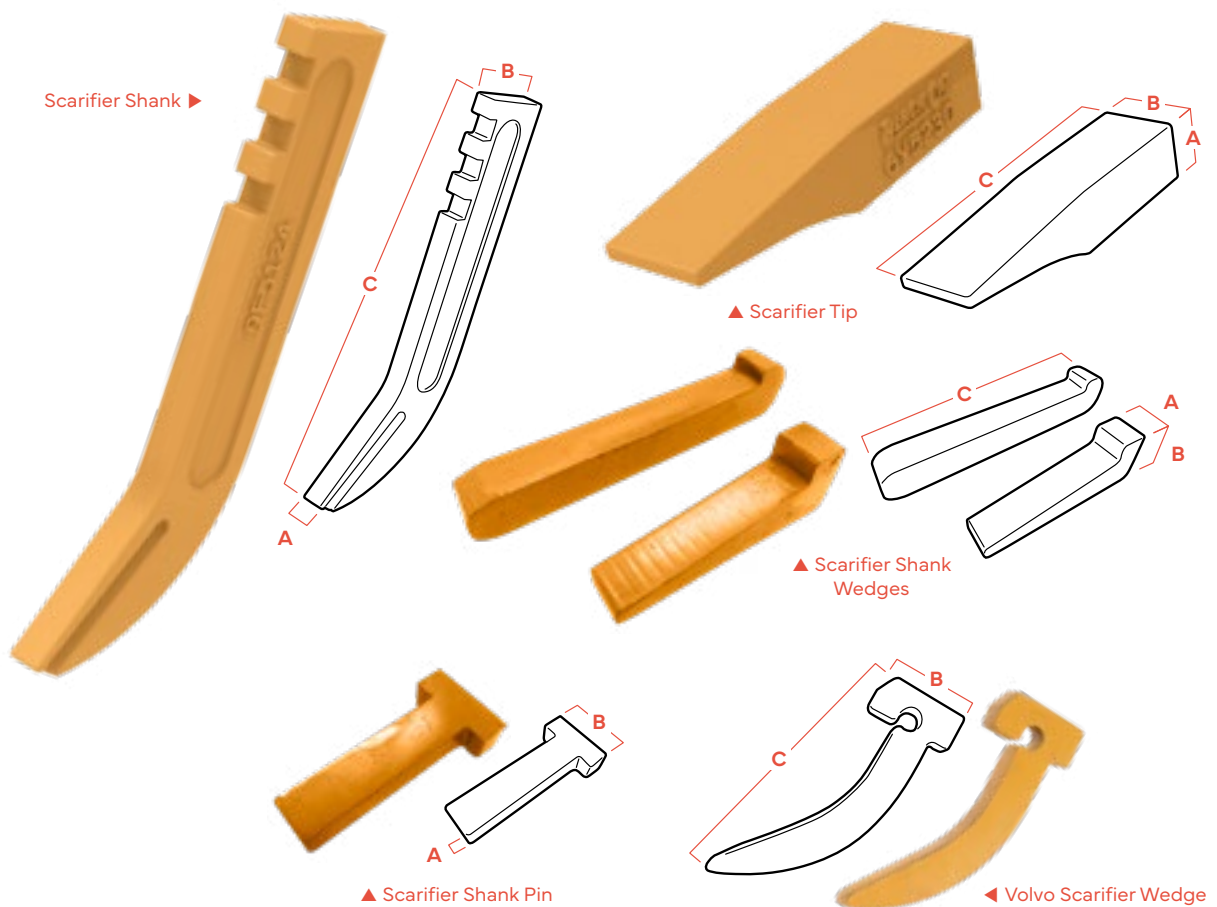
Product	Part Number	No. of Bits	Hole Qty	Bolt Size	Width	Length
3ft Black Cat Bit Board	GB-BC2000-36-34	24	7	3/4"	6"	3ft
4ft Black Cat Bit Board	GB-BC2000-48-34	32	9	3/4"	6"	4ft
Black Cat HD Grading Bit	GB-C855HD	-		-	-	-
Black Cat Sharp Grading Bit	GB-C855LR	-		-	-	-
Black Cat Blunt Grading Bit	GB-C87HDRP	-		-	-	-

## TO ORDER

## Razer Blades & Picks

Product	Part Number	No. of Bits	Bolt Size	Length
4ft Razer Tool Board — Narrow Pick Spacing	R-TBE419N	18	3/4"	4ft
3ft Razer Tool Board — Wide Pick Spacing	R-TBE419W	13	3/4"	3ft
Narrow Razer Pick	R-GSP12H45C	-	-	-
Wide Razer Pick	R-GSP09H45	-	-	-

## SCARIFIER PARTS



### Scarifier Tips

Product	Part Number	Weight (KG)	A	B	C
			Thickness	Width	Length
Scarifier Tip	GB-6Y5230 (Was 2D5572)	1.5	36	48	181

### Scarifier Shanks

Product	Part Number	Weight (KG)	A	B	C
			Thickness	Width	Length
Scarifier Shank	GB-9F5124	5.6	25	76	438

### Scarifier Pins & Wedges Ø = Diameter

Product	Part Number	Weight (KG)	A	B	C
			Thickness	Width	Length
Scarifier Shank Pin	GB-5K1459-XA	0.4	17	51	114
Scarifier Shank Wedge	GB-9F5124W-XA	0.5	25	42	120
Komatsu Wedge	GB-2327013142	1.0	25	35	190
Volvo Scarifier Wedge (Suits 12mm Ø Pin)	GB-CH98551	0.4	12	54	150



# CRUSHER PARTS



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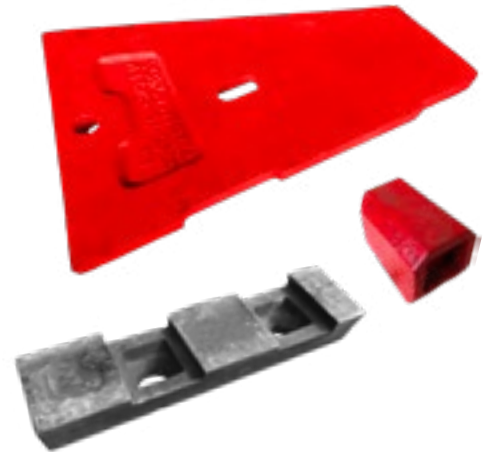
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## JAW CRUSHERS



- Jaws
- Toggle Plates/Seats
- Jaw Wedges
- Cast Cheek Plates
- Custom Hardox Cheek Plates



### Pick the right tool for the job

We offer a wide variety of tooth profiles and surface shapes. Get in touch for expert advice on the jaw styles that best suit your application.

We have access to the full range of crusher jaws for every machine. If you want it — we can get it.

The fitting surfaces on all of our jaws are machine finished to ensure the best possible fit.

Our cast cheek plates are made from 13% Manganese and 2% chrome iron. Our crusher jaws are cast from 18% Manganese 3% Chrome iron. We also custom design jaws that offer increased performance using ultra heavy duty 21% Manganese and 2% Chrome iron, and 24% Manganese and 3% Chrome iron.

### Tooth Profiles



ROUND, DEEP



SAW



TRIPLE CROWN



SHARP



ROUND



ROUND, DEEP



SHARP, DEEP



FLAT



ROUND, WIDE



SLAB BREAKER

### Side Section/Length Profiles



FLAT



CURVED



WEDGE



FULL BELLY



FILLED IN END

## JAW CRUSHERS

## Case Study: Komatsu BR380 Heavy Duty Jaws

## Increased Performance

Our improved Komatsu BR380 jaw design crushes more efficiently and wears more evenly for a dramatically reduced cost per tonne and longer life over the standard OEM jaws. More material in wear areas leads to a higher ratio of usable material with less wastage.

## Less Downtime

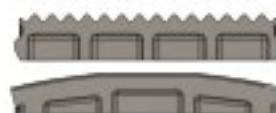
Crusher jaw changeouts can take a full day. The longer lifespan of the Real Steel Heavy Duty jaws means significantly reduced downtime and improved machine availability.

## Profile Comparison

Real Steel Heavy Duty Fixed Jaw Profiles



OEM Standard Fixed Jaw Profiles



Real Steel Heavy Duty Swing Jaw Profiles



OEM Standard Swing Jaw Profiles



## Features

## 1. Material

We upgraded the material to ultra heavy duty 24% Manganese and 3% Chrome. This material has more abrasion resistance and work hardens quicker.

## 2. Shape

The shape of the fixed jaw changed to a full curved design which gives increased reduction further up the crushing chamber, allowing for better efficiency and more even wear.

## 3. Tooth Profile

The tooth profile changed to a more aggressive heavy duty design. This means better point loading of the rock and higher efficiency.



## JAW CRUSHERS

### Allis Chalmer

42 X 30  
42 X 36  
48 X 42 Single Toggle  
48 X 42 Double Toggle  
60 X 48 Double Toggle  
C1311 Single Toggle

### Kangwon

42 X 30 Single Toggle

### Baxter

32 X 24  
49 X 36 Single Toggle  
50 X 42 Single Toggle

### Cedar Rapids

24 X 15 Single Toggle  
36 X 10 Single Toggle  
36 X 12 Single Toggle  
36 X 22 Single Toggle  
36 X 48 Single Toggle  
42 X 12 Single Toggle  
40 X 25 Single Toggle  
42 X 30 Single Toggle  
42 X 32 Single Toggle  
48 X 42 Single Toggle  
48 X 42 Single Toggle  
54 X 30 Single Toggle

### China Jianshi

36 X 24 (900x600) Single Toggle  
42 X 30 (1060x750) Single Toggle  
250 X 1000 PEX Single Toggle  
250 X 1200 Single Toggle  
300 X 1300 Single Toggle

### China Sanbao

250 X 750 PE Single Toggle  
250 X 1000 PEX Single Toggle  
400 X 600 EFZ Single Toggle  
400 X 600 PE Single Toggle  
600 X 900 PE Single Toggle  
750 X 1060 Single Toggle  
1000 X 1200 PE Single Toggle

### China Shenyang

600 X 900 EFZ Single Toggle  
900 X 1200 PE Single Toggle

### Extec

1100 X 650 Single Toggle  
1140 X 700 Single Toggle  
C10 Single Toggle  
C12 Single Toggle

### Fintec

1107/S11 Single Toggle (Mobile Plant)  
1175 Single Toggle (Mobile Plant)

### Goodwin Barsby

20 X 10 Single Toggle  
24 X 13 Single Toggle  
24 X 15 Single Toggle  
30 X 18 Single Toggle  
30 X 18 Double Toggle  
30 X 20 Double Toggle  
36 X 06 Single Toggle  
36 X 10 Single Toggle  
36 X 15 Single Toggle  
36 X 24 Single Toggle  
36 X 24 Double Toggle  
42 X 30 Single Toggle  
48 X 36 Single Toggle

### Hadfield

24 X 13 Double Toggle  
24 X 14 Strb  
42 X 30 Single Toggle  
48 X 42 Double Toggle

### Hartl

503-1050  
504-PC1265J

### Hewitt Robin

15 X 10 Single Toggle  
24 X 15 Single Toggle  
36 X 20 Single Toggle  
48 X 42 Single Toggle

### Hitachi

420G Single Toggle (Mobile Plant)

### Jaques

J-1480 (54 X 30) Single Toggle  
1000 X 625 Single Toggle  
1165 (42 X 26) Single Toggle  
20 X 14 Single Toggle  
24 X 15 Single Toggle  
30 X 18 Double Toggle  
30 X 20 Single Toggle  
36 X 24 Double Toggle  
36 X 24 H  
36 X 25 Single Toggle  
42 X 30 (Fintec 1175) Single Toggle  
42 X 30 Single Toggle  
42 X 30 Double Toggle  
42 X 36 Double Toggle  
48 X 42 Single Toggle  
48 X 42 Double Toggle  
54 X 45 Single Toggle  
60 X 48 Double Toggle  
60 X 50 Single Toggle

### Kawasaki

42 X 30 Single Toggle  
48 X 40 Single Toggle  
48 X 42 Double Toggle  
60 X 48 Single Toggle  
60 X 48 Double Toggle

**Kemco**

F80 Double Toggle  
 95 Double Toggle  
 106 Double Toggle  
 160 Double Toggle  
 STK5 Single Toggle  
 S3 24 X 15 Single Toggle  
 F4 40 X 09 Single Toggle  
 42 X 30 (S6N) Single Toggle  
 48 X 36 (S7N) Single Toggle  
 48 X 40 Single Toggle  
 60 X 48 (S9N) Double Toggle

**Kobelco**

36 X 25 Double Toggle  
 42 X 30 Single Toggle  
 42 X 30 Astro Single Toggle  
 42 X 30 Double Toggle  
 42 X 32 Double Toggle  
 42 X 36 Single Toggle  
 48 X 36 Single Toggle  
 48 X 36 Double Toggle  
 48 X 36 Astro Single  
 ASJ-E4836 Astro Single Toggle  
 54 X 42 Single Toggle  
 60 X 48 Single Toggle  
 60 X 48 Double Toggle  
 60 X 48 DH7DC  
 60 X 48 Astro Single Toggle  
 74 X 54 Double Toggle

**Komatsu**

BR100J Single Toggle  
 BR200 Single Toggle  
 BR210 Jg Single Toggle  
 BR300J-1 Single Toggle  
 BR350 Single Toggle  
 BR380 Single Toggle  
 BR500 Single Toggle  
 BR550 Single Toggle  
 36 X 22 Single Toggle

**Kue Ken**

54 Double Toggle  
 56 Double Toggle  
 57 Double Toggle  
 61 Double Toggle  
 68 (30 X 15) Double Toggle  
 71 Double Toggle Rock Eater  
 75 (30 X 15) Double Toggle  
 75S Double Toggle  
 80 Double Toggle  
 81 Double Toggle  
 95 Double Toggle  
 101 Double Toggle  
 105/108 Double Toggle  
 106 Double Toggle  
 107 Double Toggle  
 110 Double Toggle  
 114 Double Toggle  
 42 X 26 (Brown Lenox) Double Toggle  
 42 X 30 (Brown Lenox) Double Toggle  
 120 (42 X 30) Double Toggle  
 120S (42 X 32) Double Toggle  
 150 Double Toggle  
 160 Double Toggle  
 200 Double Toggle

**Lokomo**

C80 City-Track (Mobile Plant)  
 C100B Single Toggle  
 C105 Single Toggle  
 C106 Single Toggle  
 C110 (LT110) Single Toggle  
 C125B Single Toggle  
 C140BS Single Toggle  
 C160

**Metso**

C95 Single Toggle (Mobile Plant)  
 54 X 30 Single Toggle

**Minyu**

36 X 24 Single Toggle  
 42 X 30 Single Toggle

**Nakayama**

24SK Single Toggle  
 306HS Single Toggle  
 460HF Single Toggle  
 4009 Single Toggle  
 30 X 18 Single Toggle  
 36 X 24 (SK36) Single Toggle  
 42 X 30RS Single Toggle  
 45 X 32MK Single Toggle  
 46 X 36 Single Toggle  
 48 X 09D Single Toggle  
 50 X 42MK Single Toggle  
 54 X 42 Double Toggle

**Parker**

1000 X 600/625 Single Toggle  
 1100 X 650 Single Toggle  
 1100 X 800 Single Toggle  
 1300 X 1050 Single Toggle  
 16 X 10 Single Toggle  
 30 X 18 Single Toggle  
 36 X 10 Single Toggle  
 36 X 18 Single Toggle  
 36 X 24 Single Toggle  
 42 X 30 Single Toggle  
 42 X 32 Single Toggle



## JAW CRUSHERS

### Pegson

Terex XA400S Single Toggle
900 X 600 Single Toggle
1100 X 650 Single Toggle
1100 X 700 Single Toggle
1100 X 800 Single Toggle
24 X 14 Single Toggle
32 X 18 Single Toggle
32 X 22 Single Toggle
36 X 06 Single Toggle
36 X 20 Single Toggle
36 X 22 Single Toggle
36 X 24 Single Toggle
36 X 24 Double Toggle
36 X 25 Single Toggle
42 X 30 B-Styled Single Toggle
42 X 30 D-Styled Single Toggle
42 X 30 Single Toggle
44 X 26 Single Toggle
44 X 32 Single Toggle
48 X 42/44D Single Toggle
Telsmith 25 X 40 Single Toggle
Telsmith 36 X 46 Single Toggle

### Pioneer

36 X 10 Single Toggle
36 X 15 Single Toggle
36 X 20 Single Toggle
36 X 24 Single Toggle
42 X 30 Single Toggle
46 X 35 Single Toggle
48 X 42 Single Toggle
54 X 28 Single Toggle
(Protec) 30 X 24 Roller Shell
(Protec) 42 X 30 Roll Shell

### Svedala

Svedala 18 X 9 Single Toggle
Svedala Faco 1208JM Single Toggle
Svedala 150 X 120E Single Toggle
Svedala 1511
Svedala 1513Jm

### Telsmith

C50 Single Toggle
48 X 36 Single Toggle
48 X 42 Single Toggle

### Trio

36 X 24 Single Toggle
42 X 30 Single Toggle
36 X 48 Single Toggle
54 X 42 Single Toggle

### Universal

36 X 24 Single Toggle
42 X 30WRB Single Toggle
54 X 32 Single Toggle





## CONE CRUSHERS

# CRUSHER PARTS

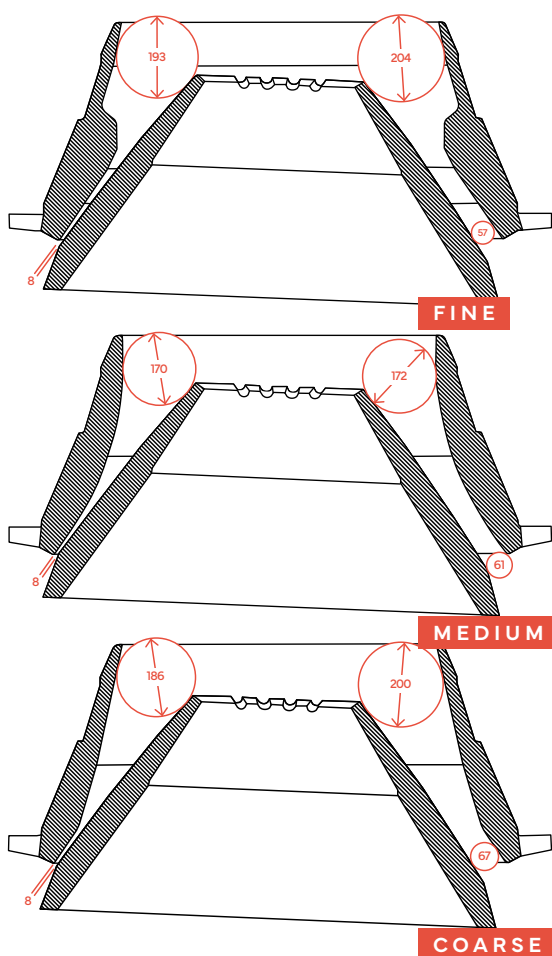
## CONE CRUSHERS

We offer a wide range of concaves, mantles, and supplemental parts for all brands of cone crushers. Our crusher cones are cast from 18% Manganese 2% Chrome iron. We also custom design cones that offer increased performance using ultra heavy duty 21% Manganese and 2% Chrome iron, and 24% Manganese and 3% Chrome iron.



### Example Concave Shapes

#### Kawasaki 1000L with standard mantle



## CONE CRUSHERS

### Allis Chalmer

22" Hydrocone
36" Hydrocone
36" Excone (Same as Kobelco 36")
36" Gyratory
S36" Gyratory
13-36" Superior
45" Hydrocone
51" Hydrocone
60" Hydrocone
500 Hydrocone
600 Hydrocone

### China Shenyang

900
1200

### El-Jay

36" Roller
45" Roller
54" Roller
66" Roller

### HP

HP4 (HP350)
HP5 Standard Head
HP100 Standard Head
HP200 Standard Head
HP300 Short Head
HP300 Standard Head
HP300 Special
HP400 Short Head
HP400 Standard Head
HP500 Short Head
HP500 Standard Head
HP700 Short Head Cone
HP700 Standard Head

### Jaques

14" Gyratory
1ft 8in S ( 20" )
25"
28" Short Head
28" TX
28" TY (USA Version)
35"
3 Ft Gyratory
3 Ft TY Gyratory
40 Short Head
4 Ft TX Gyratory
4 Ft TY Gyratory
G50
J50
J65
1200SG

### Kawasaki

800 G
800 L
1000 KFS/KM
1508
1000 KFS/G Series
1000 G Series
1200 Series
1200 Z Series
1300 Series
1350
3015 Series

### Kemco

39-3/6 Series
CT51 Series

### Kobelco

36" Autofine
36" Ex
36 X 11/13" Gyratory
45" Autofine
45" Hydro
51" Hydro
60" Hydro
1445 DH Gyratory
54 X 18 Gyratory

### Kue Ken

CT18" (500MM)
CT28" (750MM)
CT36" (1000MM)
CT51" (1300MM)

### Lokomo

42 X 18 Gyratory
G58
G128
G158
G1211
G1315 (GP300S)
G1815
G2011
G2511
G3511
G3812
GP100S (G208)
GP100S (G258)
GP300 (G300)
GP300S (G1315)
GP300 (G3812)
GP500S
GP550

### Minyu

36"
40"
45"



**Nakayama**

3000 SC Series  
4005 NCP  
4008  
5110 NCP

**Pegson**

900 Auto  
1000  
1200 Mk1 & 2 Auto  
1200 Auto  
1300 Auto  
1500  
24  
36/36 FC  
36S Gyrasphere  
48D Styled  
48Fc  
489S  
48S Gyrasphere

**Svedala**

36"  
H3000  
S3000 Gyratory  
H4000  
S4000 Gyratory  
H6000  
H6800 (CH660)  
S6000 Gyratory  
H7800  
1650 Gyratory

**Symons**

1ft 8in Reduction  
2ft Short Head  
2ft Standard Head  
3ft Short Head  
3ft Standard Head  
4ft Standard  
4 1/4ft Short Head  
4 1/4ft Standard Head  
5 1/2ft Short Head  
5 1/2ft Standard Head  
7ft Short Head  
7ft Standard Head  
36" Gyradisc Crushers  
48" Gyradisc Crushers  
1144 Omnicone Standard Crushers  
1352/SX Omni  
1560 Omni

**Telsmith**

1100 FC  
38 Series  
44 Series  
52FC Series  
57FC Series



## HORIZONTAL SHAFT IMPACTORS

### Deliver a crushing blow to wear

We offer HSI blow bars in a range of material hardnesses. Ask us for a selection that best suits your application.

#### 25% CHROME IRON

Hardness: 550–650 BHN  
Material: High chrome iron

More impact-resistant but less abrasion-resistant than 27% chrome. For quarry and gravel applications with larger feed sizes, and recycling asphalt and concrete with no tramp metal.

#### 27% CHROME IRON

Hardness: 650–713 BHN  
Material: High chrome iron

High abrasion-resistant with fair impact properties. Generally used in quarry and gravel applications with smaller feed size.



#### SI-TEC CERAMIC COMPOSITE

Hardness: 580–680 BHN  
Material: Spokane patented ceramic/high chrome composite



Spokane has over 50 years experience manufacturing impact crusher wear parts and are at the forefront of alloy/ceramic wear technology.

Resists wear 2.5–3.5 times longer than high-chrome white iron alone. Superior wear resistance for medium sized feeds and high abrasive conditions.

### Nordberg 1110

Product	Part Number	Material
Spokane 1110 Blow Bar 25Cr	CR-003190525	25% Chrome
Spokane 1110 Blow Bar 27Cr	CR-003190527	27% Chrome
Spokane 1110 Blow Bar Ceramic	CR-0031905-FE	Ceramic

### Nordberg 1213

Product	Part Number	Material
Spokane 1213 Blow Bar 25Cr	CR-0031906-25	25% Chrome
Spokane 1213 Blow Bar 27Cr	CR-0031906-27	27% Chrome
Spokane 1213 Blow Bar 25Cr Ceramic	CR-0031906-FE	25% Chrome Ceramic
Spokane 1213 Blow Bar 27Cr Ceramic	CR-0031906-FE27	27% Chrome Ceramic

### Pegson 4242SR & Terex Finlay 1010

Product	Part Number	Material
Pegson 4242SR Blow Bar 27Cr	CR-003370027	27% Chrome
Terex Finlay 1010 Blow Bar 25Cr	CR-HAZ1010BB	25% Chrome

Contact us to find out about our custom-made Hardox side liners for your crusher. Get superior wear life and reduced downtime from custom, easy to replace parts.



## HAMMER MILLS

### A&B Hammer Mill

Product	Part Number
A&B Hammer MN14	CR-ABHAMMER

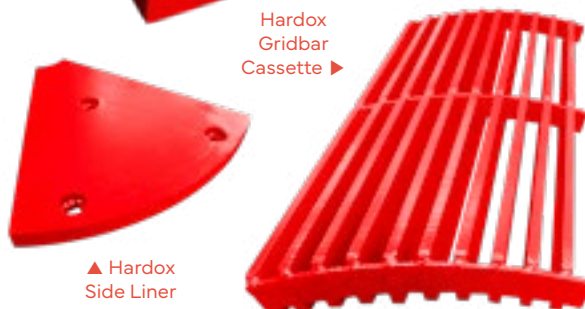
Contact us for our custom-made Hardox wear parts for superior wear life and reduced downtime.

HARDOX SIDE LINERS  
HARDOX GRIDBARS  
HARDOX GRIDBAR CASSETTES

A&B Hammer ▶



Hardox Gridbar Cassette ▶



▲ Hardox Side Liner



### Kumbee Hammer Mill

Product	Part Number
No. 1 Kumbee Universal Hammer	CR-KIUH1
No. 1 Kumbee Hammer Pin	CR-KIP
6in Breaker Plate	CR-KIBP6
8in Breaker Plate Liner	CR-KIBP8

Product	Part Number
32mm Breaker Plate Hardox 500	CR-KIBP32
50mm Breaker Plate Hardox 500	CR-KIBP50
Hammer Inner	CR-KIIH1
Hammer Outer	CR-KIOH1

Breaker Plate ▼



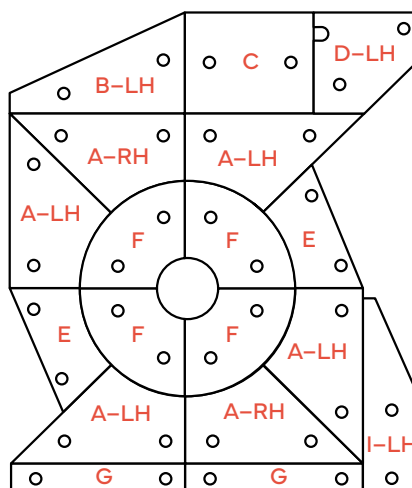
Hammer Arm ▼



◀ No. 1 Hammer



### LINER PLATES



Contact us for our custom-made Hardox liner plates for superior wear life and reduced downtime.

## NOTES







# CUTTING EDGE DRAWING TEMPLATE

Date: \_\_\_\_\_ Customer: \_\_\_\_\_ Customer Contact: \_\_\_\_\_

Machine Make: \_\_\_\_\_ Machine Model: \_\_\_\_\_ Fleet Number: \_\_\_\_\_

## PROFILE

- ☐ Double Bevel 
- ☐ Single Bevel 
- ☐ Square Edge 
- ☐ Standard 45° Bevel

Thickness: \_\_\_\_\_

Material: \_\_\_\_\_

## HOLES & BOLTS

- ☐ No Holes
- ☐ Drilled Holes
- ☐ Plow Bolt Holes
- ☐ Nib Bolt Holes

## DOZER ATTACHMENT CONFIG

- No. Bolt Holes: \_\_\_\_\_
- Hole Size: \_\_\_\_\_
- Bolt Size: \_\_\_\_\_
- ☐ Supply Bolts QTY: \_\_\_\_\_
- Base Edge Thickness \_\_\_\_\_
- ☐ Straight
- ☐ Angle
- ☐ Power Angle Tilt
- ☐ Other \_\_\_\_\_
- ☐ Semi-U
- ☐ Sigma



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