

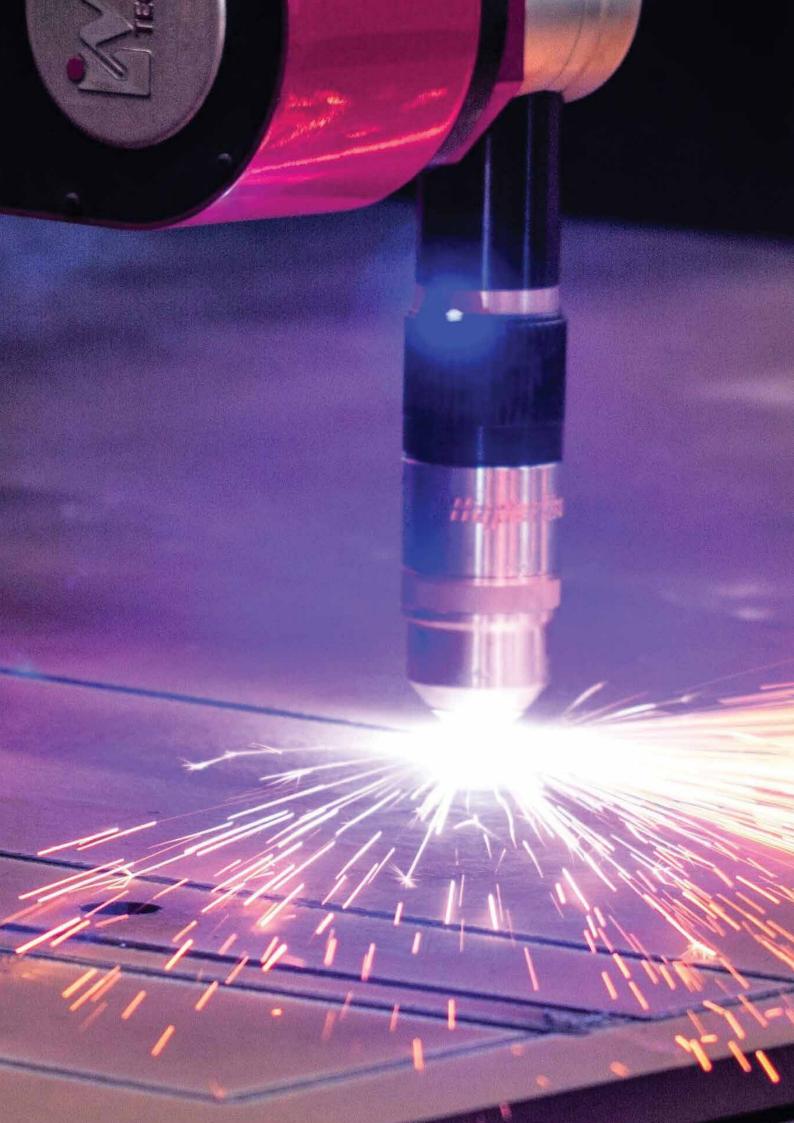
# PROCESSING

DO YOU NEED FAST PROCESSING & FABRICATING OF THE TOUGHEST WEAR STEELS? WE CAN DRAW IT, CUT IT, PRESS IT, MACHINE IT & WELD IT

Call 0800 654 323 for your Steel Processing needs!



Issue Date: June 2023



## STEEL PLATE PROCESSING

Expert processors & fabricators of the heaviest, hardest & toughest wear steels in the world

"Largest range of wear steel in NZ"

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#### **SUPERIOR STEEL SOLUTIONS**



## Harder, tougher, stronger

### GET QUALITY STEEL SOLUTIONS FAST, WITH OUR EXPERT PLATE PROCESSING & FABRICATION SERVICES

We're direct importers of steel plate from world leading steel mills and stock a huge range of steel grades and thicknesses, for all types of structural and wear applications.

We specialise in the highest quality, through hardened, quenched & tempered Wear Steels for high wear and high impact areas.

Extreme wear resistance, high toughness and long durability has always been key to the success of our steel quality & perfomance. Our steel is the preferred choice by the largest mines & quarries in NZ, well proven in the most abrasive conditions in the world.

Our Abrason Resistant steel provides a unique combination of hardness and toughness so you can build structures that are wear resistant, strong and lightweight at the same time.

With over 300 tonnes of steel plate & profiles in stock, and a full range of steel processing and fabrication services, we've got your needs covered.

We guarantee to deliver the toughest, most durable steel solutions with the fastest lead times in the industry. 90% of orders are dispatched within 24hrs.











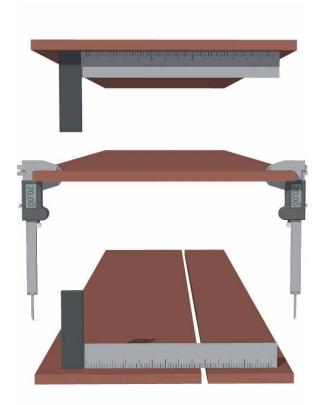
#### **SUPERIOR STEEL SOLUTIONS**

#### **TOUGHNESS**

Toughness is the strength of our wear steel, making it possible to be bent, formed and welded without cracking. If hardened wear steel is stressed or deformed beyond its yeild point it will resist cracking and if a localized crack should occur it will resist propagation.

#### **HARDNESS**

Hardness is what gives our wear steel its unique wear resistance and structural strength and delivers the same wear resistance throughout the steels entire life, because of its even through-hardness. Hardness also provides excellent yield and tensile strength to resist deformation.



#### **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**

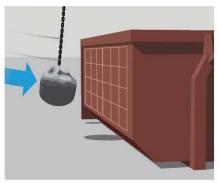
Narrow tolerances guarantees your finished structure will be as light as you expect. And when processing the plate even a fraction of a millimeter counts, since bending force and springback are directly related to the thickness.

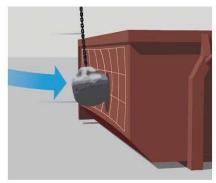
#### **INTERNALLY RELAXED**

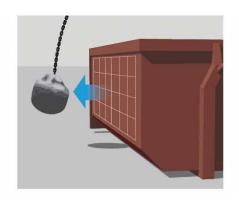
Thanks to careful heat treatment during production, our wear plate has uniform internal properties. This means that a plate will stay flat when cut into smaller pieces, whether its cut cold or hot.

#### **IMPACT RESISTANCE**

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 orignial shape like a tennis racket hitting a ball.









#### **G350 MEDIUM TENSILE STEEL**



**G350 Medium** 

**Tensile Steel** 

G350 is a high strength steel, commonly used in the engineering and construction industries for structural and general fabrication. This steel has no wear properties, but is strong and is easy to cut, weld, form, drill, machine and tap.

Certified to AS/NZS 3678 structual steel standards.

MIN YIELD STRENGTH:	350 Mpa
MIN TENSILE STRENGTH:	450 Mpa
HARDNESS:	140-180 HBW
THICKNESS RANGE:	5-60mm

**FULL SHEET SIZE: 6000 x 2400mm** 

2400 x 1500mm 2400 x 1200mm

9000 x 2400mm

#### **APPLICATIONS:**

- General fabrication
- Structural buildings
- Architectual structures
- Agricultural attachments
- Storage tanks
- Small Buckets



#### **G780 HIGH TENSILE STEEL**



## **G780 High Tensile Steel**

G780 steel is an extra high strength structural steel produced as quenced & tempered, with a minimum yeild strength of 700 Mpa and a minimum impact toughness of 27J is guaranteed at -40°C.

This steel is highly resistant to weld cracking, has good flexibility for high stress and impact applications and is easy to cut, weld, form, drill, machine and tap.

MIN YIELD STRENGTH:	700 Mpa
TENSILE STRENGTH:	780-930 Mpa
HARDNESS:	220-260 HBW
IMPACT TOUGHNESS:	27J (-40 deg C)
THICKNESS RANGE:	12-140mm

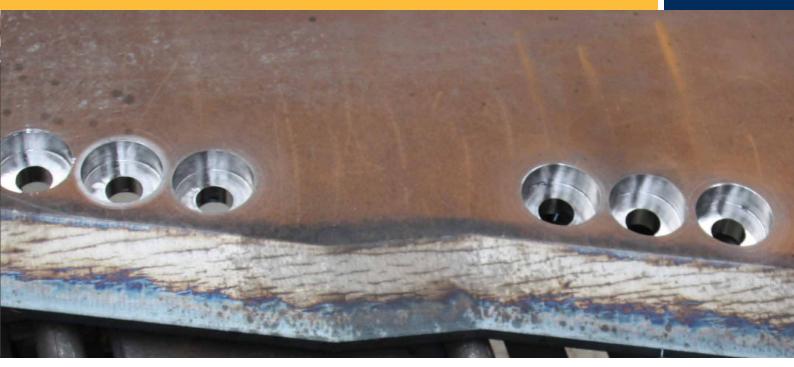
**FULL SHEET SIZE: 6000 x 2400mm** 



#### **APPLICATIONS:**

- Excavator Bucket Edges
- Transport trailer chassis
- Bridge & Building structures
- Lifting & hoisting equipment
- Ripper Shanks
- Machinery attachments

#### **G400 ABRASION RESISTANT STEEL**



## **G400 Abrasion Resistant Steel**

G400 is a through hardened, quenched and tempered, abrasion resistant steel used in high wear and impact applications.

This steel provides up to 4 times the wear life and strength of mild steel. It can be cut, welded, formed, drilled, machined and tapped with specialised tooling and processes.

Due to its versatility in terms of high toughness, good cold formability and excellent weldability, this steel combines outstanding workshop performance & long lasting wear resistance.

YIELD STRENGTH:	1160 Mpa
TENSILE STRENGTH:	1300 Mpa
HARDNESS:	370-430 HBW
IMPACT TOUGHNESS:	50J (-40 deg C)
THICKNESS RANGE:	40-90mm

**FULL SHEET SIZE: 6000 x 2500mm** 



through hardness!

**Feeders** 

Wear strips

#### **G450 ABRASION RESISTANT STEEL**



**G450 Abrasion Resistant Steel** 

G450 is a through hardened, quenched and tempered, abrasion resistant steel

used in high wear and impact applications.

This steel provides up to 6 times the wear life and strength of mild steel and can be cut, welded, formed, drilled, machined and tapped with specialised tooling and processes.

The combination of good cold forming properties and excellent weldability makes this grade the best choice for long lasting, weld on wear protection.

YIELD STRENGTH:	1250 Mpa
TENSILE STRENGTH:	1400 Mpa
HARDNESS:	420-480 HBW
IMPACT TOUGHNESS:	45J (-40 deg C)
THICKNESS RANGE:	5-60mm

**FULL SHEET SIZE: 6000 x 2500mm** 

8000 x 2500mm



- Bucket & blade liners
- Weld-in cutting edges
- Truck deck liners
- Crusher plates
- Ripper shanks
- Conveyors
- Feeders
- Wear strips

Guaranteed 90% through hardness!

#### **G500 ABRASION RESISTANT STEEL**



**G500 Abrasion Resistant Steel** 

G500 is through hardened, quenched and tempered, abrasion resistant steel, providing the ultimate wear resistance for severe, sliding abrasion.

This steel will last up to 10 times the wear life of mild steel due to its extra wear properties and heat treatment process. It can be cut, welded, formed, drilled, machined and tapped using specialised tooling and processes.

The combination of superior hardness and high tensile strength of this grade makes it more suitable for bolt-on wear plates rather than weld-on plates.

YIELD STRENGTH:	1500 Mpa
TENSILE STRENGTH:	1700 Mpa
HARDNESS:	470-530 HBW
IMPACT TOUGHNESS:	30J (-40 deg C)
THICKNESS RANGE:	10-50mm

**FULL SHEET SIZE: 6000 x 2500mm** 



- Bolt-on cutting edges
- Gears/sprockets
- Crusher wear plates
- Conveyor liners
- Hammers
- Screen plates
- Wear strips

Guaranteed 90% through hardness!

#### **WEAR STEEL APPLICATIONS**



**Bucket Wear Protection** 



**Bolt on Cutting Edges** 



**Wear Strips** 



**Bucket Liners** 

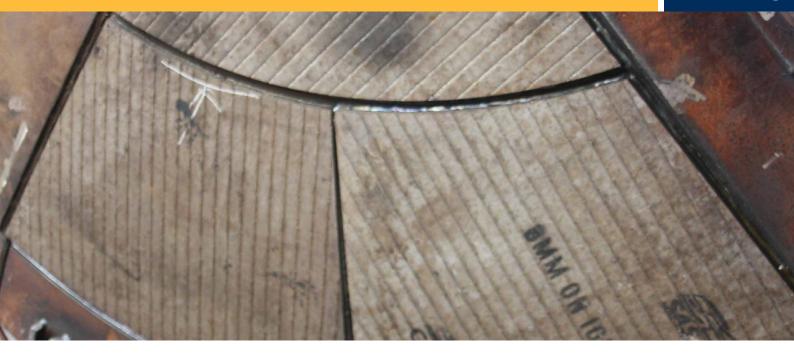


**Truck Deck Liners** 



**Ripper Shanks** 

#### **CHROMIUM CARBIDE OVERLAY PLATE**



## Maximise your wear protection

PROTECT YOUR GEAR FROM WEAR AND REDUCE MAINTENANCE COSTS WITH THE HARDEST, TOUGHEST AND LONGEST LASTING OVERLAY PLATE AROUND.

This super hard wearing plate features a chromium carbide matrix that is welded onto a mild steel backing plate.

The large amount of hard chromium carbides allows this plate to thrive in extreme abrasion and impact applications, providing the longest possible wear protection.

The hardiness of this overlay plate is a composite of hard chromium carbides and tough, austenitic matrix. A variety of substrates such as stainless steel, nickel alloys and quenched and tempered steels, are used in the manufacturing process of this plate.

This plate can be easily formed to suit curves and contours. Welded studs or countersunk inserts can be fitted so plates become easily replaceable.

Made to the highest quality and performance standards, this plate is the only choice for maximising your wear protection.



#### **APPLICATIONS:**

- Chute liners
  Dozer Blade Liners
- Bin & hopper liners Crusher Plates
- Loader Bucket Liners Recycling Plants
- Truck Deck Liners
  Wear Strips

#### **CHROMIUM CARBIDE OVERLAY PLATE**

#### RANGE OF SIZES & TECHNICAL SPECIFICATIONS

Part No	Chromium	Chromium   Mild Steel	Total Plate	Hardness (HRC)	Chemical Composition			
Part No	Thickness	Thickness	Thickness		C (%)	Si (%)	Mn (%)	Cr (%)
5_ON_6_CC	5mm	6mm	11mm	57-62	4.5	1.45	1.5	35
7_ON_6_CC	7mm	6mm	13mm	58-63	4.5	1.45	1.5	35
7_ON_8_CC	7mm	8mm	15mm	58-63	4.5	1.45	1.5	35
8_ON_10_CC	8mm	10mm	18mm	58-65	4.5	1.45	1.5	35
10_ON_10_CC	10mm	10mm	20mm	58-65	4.5	1.45	1.5	35
12_ON_12_CC	12mm	12mm	24mm	58-65	4.5	1.45	1.5	35

- **Abrasion Resistance:** The wear life of this plate is up to 30x longer than mild steel and up to 6x longer than G450 wear steel
- Impact Resistance: This plate can withstand a moderate level of continuous impact as long as it is fully supported underneath
- **Temperature Range:** This plate is designed to withstand heat up to 600 deg C
- of this plate consists of a series of weld beads with numerous hairline cracks. These cracks are a natural stress relief effect and are beneficial to the material. These cracks do not affect the performance of the plate.
- Full sheet size: Chromium Carbide plate is available in full sheets 3500mm x 2100mm or cut to any shape & size

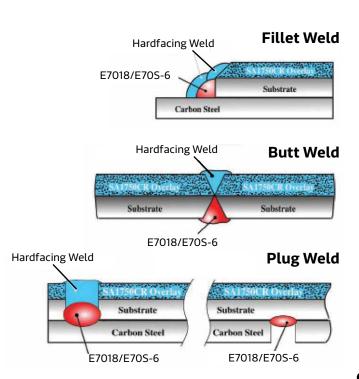


#### CHROMIUM CARBIDE OVERLAY PLATE

#### **FABRICATION INFORMATION**

- Cutting: Chromium Carbide plate can be cut by using plasma, air arc or abrasive disc. Cutting should be done on the mild steel side to avoid contaminating the mild steel with chromium particles which can cause a brittle weld.
- **Cold Bending:** This plate can be formed easily using a press brake or rollers. Relief cracks are normal in the hard surface when forming. Caution when forming along the same direction as the overlay weld seams, structural cracking may occur when pressing a tight radius. Refer to the Rolling Limits table below;
- **Plate Grain:** Where possible, always have direction of the overlay weld seams (plate grain) running across the flow of the moving material. This helps to get even wear and prevents washing between the weld seams.
- Welding & Fitting: This overaly plate can be using E70S-6 mig wire or E7018 electrodes or similar grades for welding mild steel. All weld seams, plug weld holes, bolt holes and other joints exposed to wear, should be protected by a weld cap of hard facing.
  - **Bolt-on Options:** Threaded studs can be fitted to the mild steel side, or pre-machined countersunk inserts can be welded in to the plate to suit cap screws. These fastening methods ensure quick change overs when replacing them.

Radius Rolling Limits					
Thickness	Chromium Outside	Chromium Inside			
10-11mm	600mm OD	500mm OD			
13-15mm	700mm OD	600mm OD			
18-20mm	850mm OD	650mm OD			
24mm	900mm OD	750mm OD			





Threaded Stud



**Countersunk Insert** 

#### **CHROMIUM CARBIDE APPLICATIONS**





**Dozer Blade Liners** 

**Truck Deck Liners** 





**Excavator Bucket Liners** 





**Loader Bucket Liners** 

#### **CHROMIUM CARBIDE APPLICATIONS**

#### **POWER INDUSTRY APPLICATIONS**













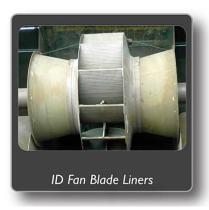
#### **CEMENT INDUSTRY APPLICATIONS**













#### **CHROMIUM CARBIDE APPLICATIONS**

#### **QUARRY AND MINING INDUSTRY APPLICATIONS**













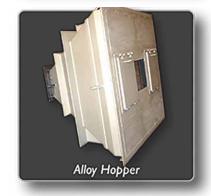
#### STEEL INDUSTRY APPLICATIONS













#### **CHROMIUM CARBIDE CASE STUDY**



## **Case study - Fulton Hogan**

#### **INCREASED BUCKET LIFE, REDUCED DOWNTIME & MAINTENANCE COSTS**

Fulton Hogan specialises in building and maintaining transport and civil infrastructure so our communities can operate safely and efficiently.

#### **SITUATION:**

Fulton Hogan Christchurch operates a large fleet of wheel loaders at its 4 fixed quarry sites and 7 portable plants.

The aggregate is highly abrasive causing wear and damage to the loader buckets if they are not adequately protected. Fulton Hogan needed a long lasting wear liner kit to protect the inside of their buckets from wear.

#### **RESPONSE:**

West-Trak worked closely with Fulton Hogan to understand their needs and provide the ultimate bucket liner solution. We used Chromium Carbide Overlay Plate which outlasts Abrasion Resistant steel by up to 5 times, resulting in less downtime and maintenance costs.

Need a Loader bucket wear package that works?

Talk to us today 0800 654 323

#### **OUTCOME:**

The below benefits were acheived

- 4 to 5 times longer wear life over standard buckets, which means less bucket work and down time.
- It is a lot easier to work with than normal wear plate
- Very little maintenance easy to repair cracks and chips
- Significant savings in downtime and maintenance costs



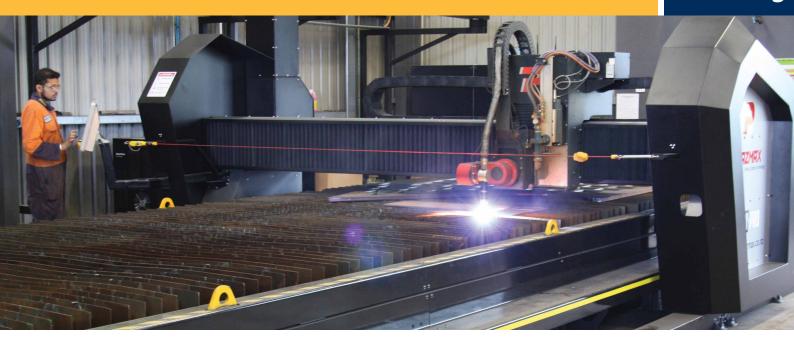
#### STEEL PLATE OFFCUTS

### PALLET LOADS OF OFFCUTS & HANDY SHEETS OF STEEL ARE AVAILABLE IN A RANGE OF GRADES AND THICKNESSES

- Great for making your own Wear Parts & Plates to armour up Buckets, Blades, Crushers and other wear areas that need protecting.
- Offcuts are available in 500kg pallets of G450/G500 grade wear steel, from 10-50mm thickness and Chromium Carbide plate from 10-24mm thickness.
- All offcuts are subject to availability



#### **CNC PROFILE CUTTING**



## Need fast, accurate plate cutting?

#### GET IT RIGHT HERE WITH OUR CNC PLASMA AND GAS CUTTING CAPABILITIES

We're experts at profile cutting the heaviest and hardest steel plate up to 200mm thick. Our high definition CNC Plasma & Gas cutting machines make easy work of producing the most accurate and highest quality cut.

You'll get the largest range of Wear Steel in NZ and the fastest lead times in the industry, with our specialist plate processing skills and machinery.

#### **PROFILE CUTTING CAPABILITIES:**

- 12m x 3.4m cutting area
- 400amp high definition Plasma for cutting 1-50mm thick plate
- Oxy-fuel gas for cutting 60-200mm thick plate
- 360-degree bevel head with a 45 degree cutting angle
- True-hole technology for very accurate hole cutting tolerances
- Solidworks CAD drawing & Pronest software plate management systems

P: 0800 654 323

Send us your DXF drawing files to cut from or our professional design team can draw up your cutting requirements. We can convert your sketches and templates into fully scaled working drawings. Our mechanical design engineers are also available to measure up onsite.

We offer a complete range of steel grades and thicknesses from 5mm-140mm, for all types of structural and extreme wear applications. Guaranteed fast delivery times -90% of orders are dispatched within 24hours!



#### **CNC PROFILE CUTTING**





**High Definition Plasma Cutting** 





**Oxy-fuel Gas Cutting** 



#### **CNC PROFILE CUTTING**



**Screen Plates** 



Mill Anvil Plate



**Cutting Edges** 

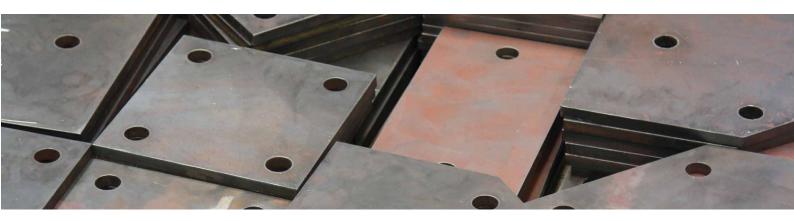




**Shooting Targets** 



**Wear Strips** 



**Structural Steel Base Plates** 

#### MACHINING & LINEBORING



## **Precision plate machining**

OUR TEAM OF HIGHLY SKILLED FITTER TURNERS & MACHINISTS CAN SHAPE THE HARDEST WEAR STEELS INTO YOUR REQUIRED PART.

Using specialized tungsten tip tooling & techniques we can machine G450 & G500 grade Abrasion Resistant Steels with ease. We have a huge range of tooling on hand for all types of machining requirements.

You'll get high quality workmanship, fast turnaround times with guaranteed form, fit & function. Our professional engineers & mod-con machinery can produce the tightest tolerances & most precision accuracy.

With a large machine shop and years of fitter turning experience, we offer all the tools & tolerances you need! Our engineers are master craftsmen, skilled in fitting, turning, welding, tool making and mechanical problem-solving.

Our work includes hole building and boring, joint/pivot repairs, CNC Drilling, Milling, Tapping, Line Boring & Lathing.

#### **OUR MACHINES:**

- CNC Machining Centre with a 60-piece tool set
- CNC Horizontal Lathe with a 3m travel bed
- 3x Vertical Milling & Drilling Machines
- Line Boring Unit with 450mm ID boring capacity

#### **OUR TOOLING:**

- Drilled holes: 5mm to 75mm Ø
- Counterbored holes: 10mm to 75mm Ø
- Countersunk Plow Bolt holes: 1/2" to 1.3/8"
- Cap Screw holes: 10mm to 30mm Ø
- Threaded holes: 10mm to 30mm Ø



#### **MACHINING & LINEBORING**



**Cap Screw Holes** 



**Keyway Holes** 



**Drilled & Counterbored Holes** 



**Plow Blot Holes** 



**Threaded Holes** 



Lineboring

#### **WELDING & FABRICATION**



## Heavy welding expertise

#### WE'RE EXPERTS AT WELDING THE HARDEST, TOUGHEST & THICKEST WEAR STEELS

Our steels require specialist welding methods to survive the roughest wear and tear environments. Extreme working conditions need extreme know-how to deliver strong, long lasting, high performing wear parts.

Our team of certified fitter/welders are highly skilled at welding High Tensile and Abrasion Resistant wear steels from 5mm to 140mm thickness. We specialize in custom building wear products for the Quarry, Mining, Forestry and Engineering industries.

You'll get guaranteed workmanship and the right welding processes that work. We ensure the correct weld preps, pre and post heating, welding wire and weld finishing procedures are strictly adhered to.

We use the best brands of quenched and tempered, steels that comply to AS3597 and welding consumables that comply to AS/NZS 1554.4 standards

Our qualified welding staff are certified to AS/NZS 1554.4 and AS2980 structural welding procedure standards.

We also offer Threaded Stud welding for replaceable wear plates in fixed and mobile crusher applications, which makes it super quick and easy to change-out worn plates, reducing downtime and maintenance costs.

Threaded studs are available from 10-20mm diameter and in any length. The advantage of studs is you can wear your plates down much thinner, compared to using a bolt or cap screw as the heads eventually wear off and the plates will come loose.

Abrasion Resistant Material (A.R.M) is a Tungsten chip and hard-facing wire mix that can be applied to Bucket Teeth, Cutting Edges and other wear parts to extend their service life and performance.

#### **WELDING & FABRICATION**





**Pre-Fabricated Bucket Lips** 





**Excavator & Dozer Rippers** 







A.R.M Hardfacing

#### **ROLLING & PRESSING**



## Hardened steel plate pressing

### WE CAN FORM THE HARDEST & TOUGHEST WEAR STEELS INTO ANY SHAPE & SIZE WITH OUR 500 TONNE CNC PRESS BRAKE

Rely on our heavy engineering experience to supply the best brands and highest quality Steel Plate, formed to your required shape. As direct importers, stockists and processors of Wear Steels, we can form the hard stuff for any application.

Our experts can press or roll all grades and sizes of steel including, Mild Steel, Medium Tensile, High Tensile, Abrasion Resistant and Chromium Carbide Overlay Plate.

We deliver fast, customized forming solutions to suit your needs with guaranteed quality, fitment and performance.

Our mechanical design engineers can come to your site to measure up your rolled plate requirements, or you can send us drawings and templates to work from

Call 0800 654 323 to discuss your plate forming needs now.

#### PLATE FORMING APPLICATIONS:

- Excavator & Loader Bucket Liners
- Dozer & Grader Blade Liners
- Bucket Building
- Truck Deck Liners
- Crusher Plate Liners
- Hoppers, Chutes & Screen Liners
- Gold Screen Trommel Plates



#### **ROLLING & PRESSING**



**Bucket Liners** 



**Blade Liners** 



**Truck Deck Liners** 



**Trommel Screens** 

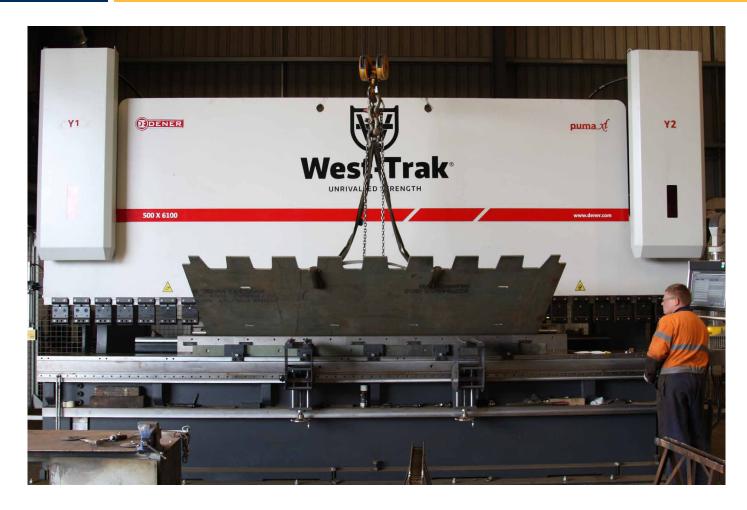


**Crusher Rings** 



**Chute Liners** 

#### **500 TONNE PRESS BRAKE**



#### GET YOUR PLATE PRESSED TO SHAPE WITH OUR 500 TONNE PRESS BRAKE!

This new addition completes our full in-house suite of steel processing machinery & value-adding services, to deliver everything you need from a one-stop shop.

With our extensive range of tooling, we can press most grades & thicknesses of steel plate up to 6100mm wide & to any radius or angle within the material & tooling limits.

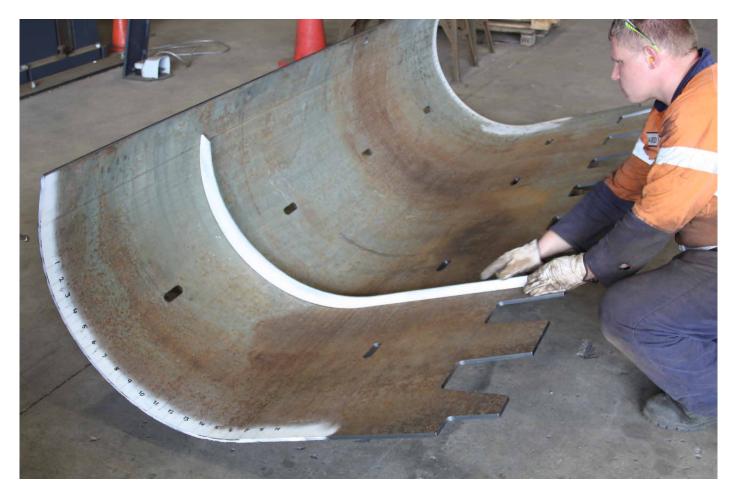
We're experienced in working with the toughest abrasion-resistant steels & can measure it, draw it, cut it, press it, machine it & weld it to suit your needs.

This 5-axis CNC Press Brake will ensure a precise pressing result every time & you'll get one of the fastest lead times in the industry for pressed & processed plate.





#### **MEASURE & MAKE SERVICE**



### WE'LL DELIVER THE RIGHT FORM, FIT & FUNCTION TO SUIT YOUR NEEDS!

Our team of experienced mechanical design engineers & CAD drawing experts have the skills to measure & make customized wear products to suit your requirements.

We can convert your hand-drawn sketches, cardboard or steel templates into 3D working drawings, ready for the press. You can also send us your DXF files to quantify & quote.

We've been drawing, designing & reverse engineering steel products for over 25 years and know what works best in the most extreme wear applications.

Our field technicians are equipped with the tools & know-how for onsite measure-ups. We'll save you the hassle of measuring and ensure your pressed parts fit correctly.





#### PRESSING CAPABILITIES GUIDE

Our pressing capabilities are outlined in the tables below for each grade of plate.

These are based on using 10mm radius knives which are rated to 150 tonnes/metre & can only be used for bump pressing shallow angles across the thickness range of plates.

Different tooling is required for angles over 40 degrees to prevent the plate from cracking. This may affect the width that can be pressed. Please check with our workshop team to confirm your pressing requirements can be achieved.

Medium Tensile Steel G350 (450Mpa)						
Plate Thickness	Maximum Width	Tonnage Required	V-Block Size			
4mm	6100mm	44	150			
5mm	6100mm	69	150			
6mm	6100mm	99	150			
8mm	6100mm	176	150			
10mm	6100mm	275	150			
12mm	6100mm	395	150			
16mm	5800mm	500	200			
20mm	3500mm	315	300			
25mm	3500mm	492	300			

High Tensile Steel G780/80HT (930Mpa)							
Plate Thickness	Maximum Width	Tonnage Required	V-Block Size				
4mm	6100mm	91	150				
5mm	6100mm	141	150				
6mm	6100mm	204	150				
8mm	6100mm	363	150				
10mm	6100mm	425	200				
12mm	4900mm	497	200				
16mm	3500mm	416	300				

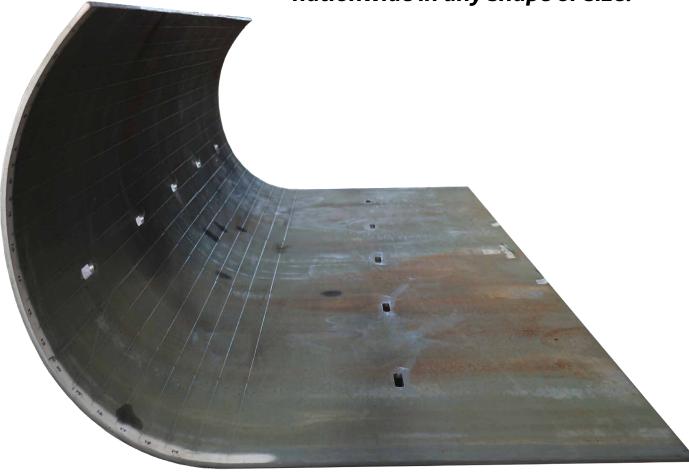
Abraison Resistant Steel G450 (1400Mpa)						
Plate Thickness	Maximum Width	Tonnage Required	V-Block Size			
4mm	6100mm	137	150			
5mm	6100mm	214	150			
6mm	6100mm	308	150			
8mm	6100mm	409	200			
10mm	4700mm	499	200			
12mm	3500mm	353	300			
16mm	2700mm	493	300			

#### PRESSING CAPABILITIES GUIDE

Abraison Resistant Steel G500 (1600Mpa)						
Plate Thickness Maximum Width Tonnage Required V-Block Size						
10mm	4100mm	498	200			
12mm	3500mm	403	300			

Chromium Carbide Overlay Plate			
Plate Thickness	Maximum Width	Tonnage Required	V-Block Size
11mm	3500mm	350	150
13mm	3500mm	350	150
15mm	3500mm	350	150
18mm	3500mm	350	150
20mm	3500mm	350	150
24mm	3500mm	350	150

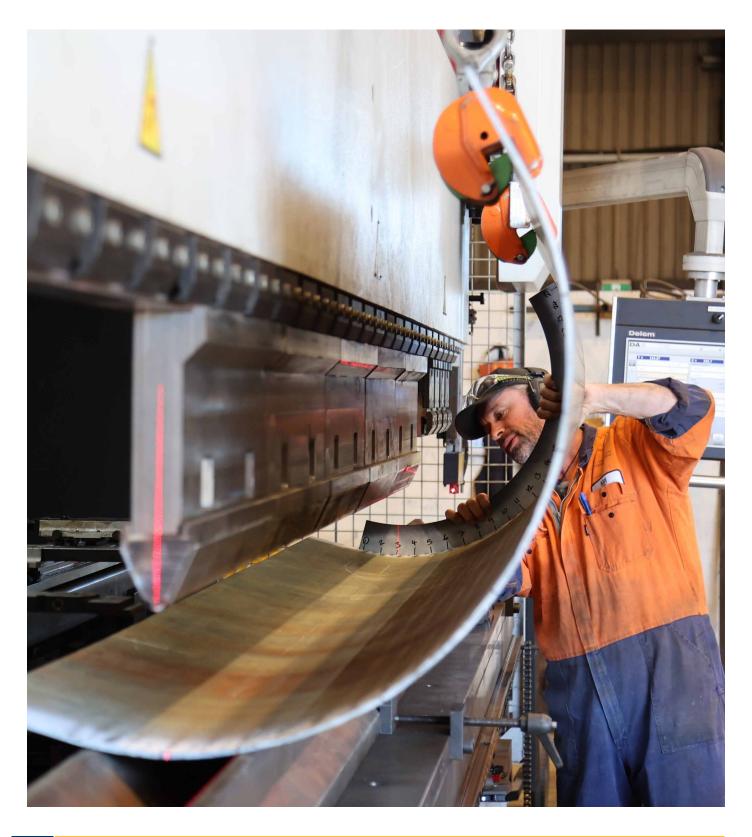
We stock the largest range of abrasion resistant wear steels in NZ & can deliver it nationwide in any shape or size!



#### PRESS BRAKE TOOLING

We have a large range of press brake tooling, which includes 30-300mm V-Blocks and 100-150 tonne/metre knives, which allows us to press a wide range of plate sizes.

A combination of the right V-Block size, type of knives, steel plate grade, thickness & width is needed to achieve the desired pressed outcomes, which is calculated with the help of our software & CNC controller.



#### PRESSED PLATE APPLICATIONS



**Bucket Liners** 



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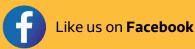
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