



Leadership in Life Extension



Capabilities & Company Overview

Innovative coatings to extend the life of critical equipment

04/2026

ABRASAPLATE®
WELD OVERLAY WEAR PLATE

ABRASAPIPE®
WELD OVERLAY WEAR PIPE

LOCTITE®
COMPOSITES APPROVED APPLICATOR

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Avweld is certified to quality management system ISO 9001 through Bureau Veritas



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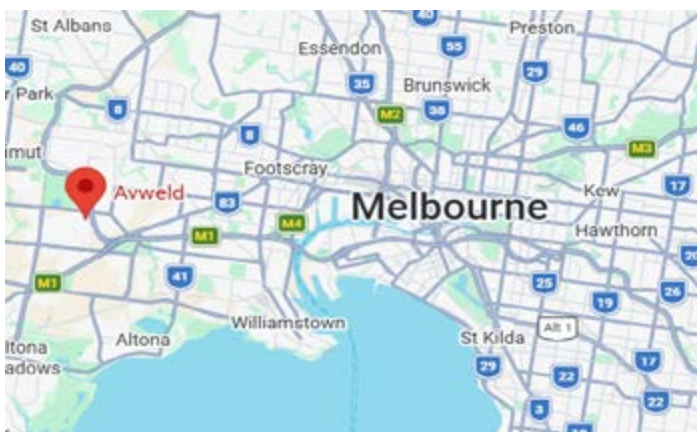
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- Family owned and operated in Laverton North, Melbourne
- Focus: Hardfacing and surface engineering to extend life of critical equipment
- ~40 staff engineering, welding, machining, robotics, sales and admin
- Large capacity shop with thermal spray, laser cladding, robotic welding, machining, grinding, fabrication, design and engineering
- 24 hour operation when required
- Extensive materials engineering expertise
- Full ISO 9001 Quality Management system in place for 30+ years



INDUSTRIES SERVICED

MINING & QUARRYING

PULP & PAPER

CEMENT

STEEL

WASTE & RECYCLING

WOOD, TIMBER, MDF

BULK MATERIAL HANDLING

MANUFACTURING

PRODUCTS

PUMPS

VALVES

HARDFACING

ROTARY VALVES

HYDRAULIC CYLINDERS

ROLLERS

SCREWS

VACUUM PUMPS

HAMMERS

SCREENS

WEAR PLATES & PIPES

G.E.T.

HI-TEMP WEAR

CRUSHERS



OUR CUSTOMERS

BHP

RioTinto

CEMENT AUSTRALIA

ADBRI Cement

InfraBuild

Alcoa

Opal.

VISY

HOLCIM

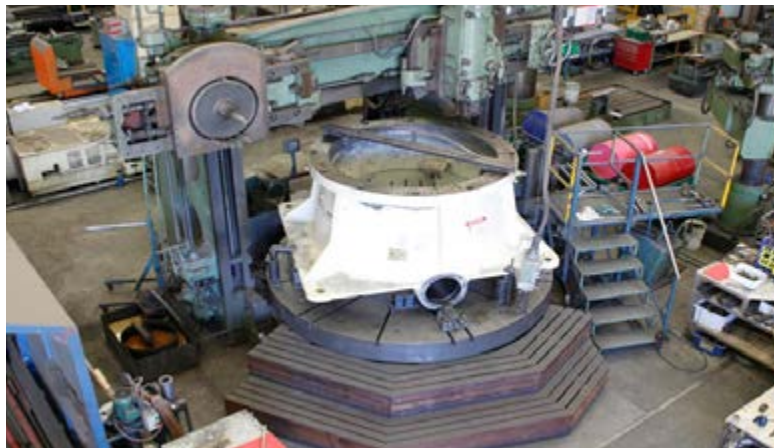
BORAL

BlueScope

TomagoAluminium

MACHINE SHOP EQUIPMENT

EQUIPMENT	QTY	CAPACITY	EQUIPMENT	QTY	CAPACITY
OVERHEAD CRANES	6	80T Total, 40T lift	SURFACE GRINDERS	2	600mm x 2.5m
LATHES	6	1.6m swing x 12m	INTERNAL GRINDERS	2	600dia x 1m
VERTICAL BORERS	4	3.0m workpiece dia	RADIAL DRILL	4	Up to 1.5 x 3.1 x 2.0m
HORIZONTAL BORERS	3	3m x 5m x 4m	MILLING MACHINES	3	Multiple
CYLINDRICAL GRINDERS	5	1.5m dia x 12m	HYDRAULIC PRESS	1	10,000T



THERMAL SPRAY PROCESSES

	PROCESS	APPLICATIONS
HVOF	HIGH VELOCITY OXYGEN FUEL	Versatile wear resistant deposits
TWAS	TWIN-WIRE ARC SPRAY	Dimensional restoration, on-site spraying
DCPS	DC-PLASMA SPRAY	High melting temperature ceramic coatings
	BLASTING	Full sand, grit, and glass blasting facilities in-house



WELD PROCESSES

PROCESS		APPLICATIONS
GMAW	MIG WELDING	Fabrication, general hardfacing
GTAW	TIG WELDING	Precision fabrication and cladding
SAW	SUBARC WELDING	Large volume fabrication and cladding
PTAW	PTA WELDING	Tungsten Carbide for extreme abrasion and impact positions
LAW	LASER CLADDING	Coherent 10kW direct diode D-series laser unit + 3KW fibre laser



LASER SYSTEMS

10KW Coherent D-Series ideal for large jobs

3KW Fibre Laser: Precise control for accuracy

2KW Portable: For use in-situ and bore cladding

LASER CLADDING ADVANTAGES

Full Metalurgical Bond

Low Dilution

Controllable, Repeatable, Efficient

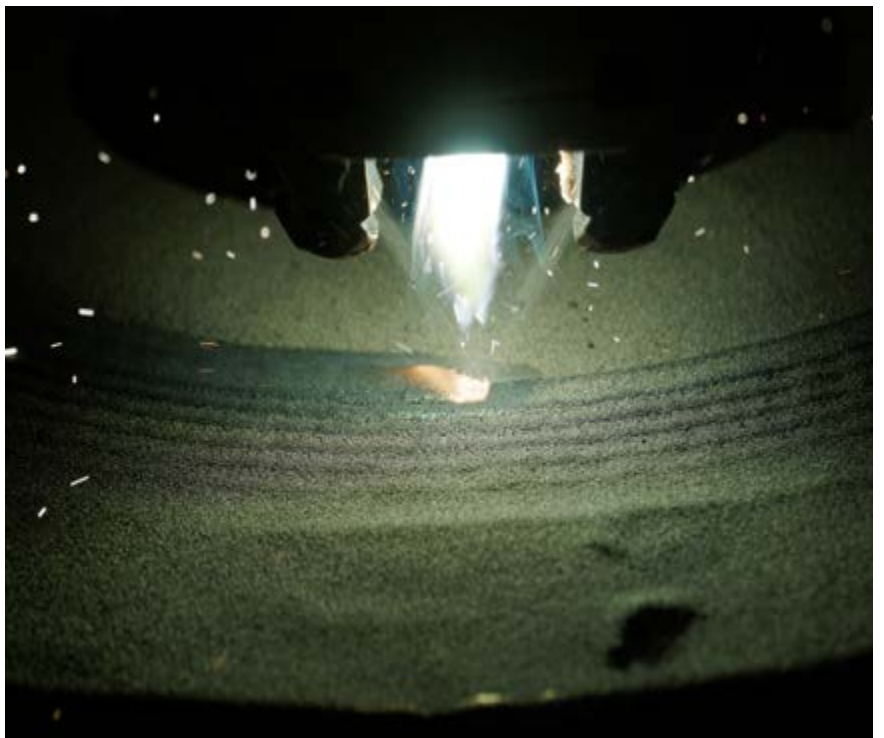
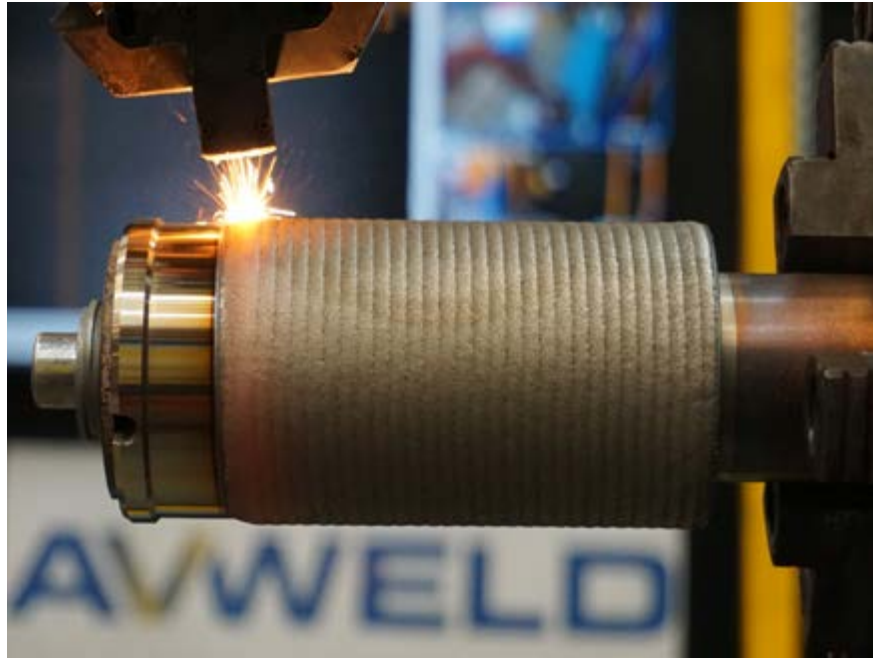
Smooth Weld - Less Post Machining

Small HAZ = no PWHT

High Quench Rate, Finer Grain Structure

High deposit speeddeposit efficiency





- One of Avweld's main areas of focus
- Super-heavy duty design based on 30 years of industry experience
- New manufacture and reclamation of any RV
- Consulting and advice on setup and operation
- Tungsten carbide rotor vanes, housing bores, seal journals
- Diamond ground parts for precise clearances
- "Set and forget" long life design
- Oversize heavy-duty motors and bearings

STANDARD ROTARY VALVE SIZES

150x150	637x660
250x250	760x1000
350x350	1000x1000
387x387	1600x1600
450x450	2000x2000

ROTARY VALVES

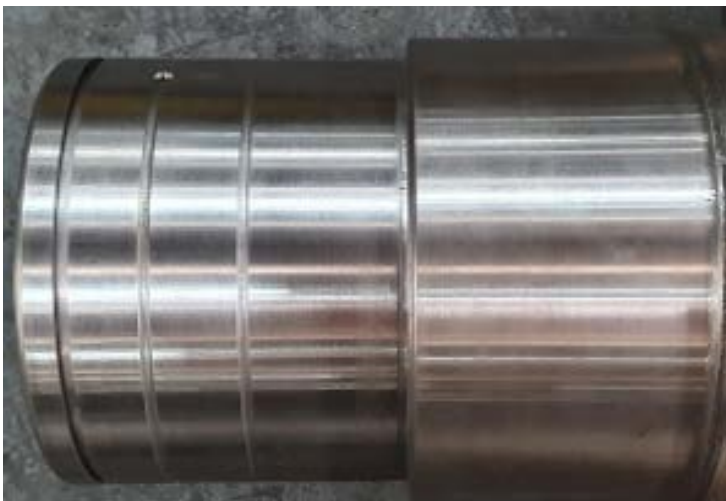
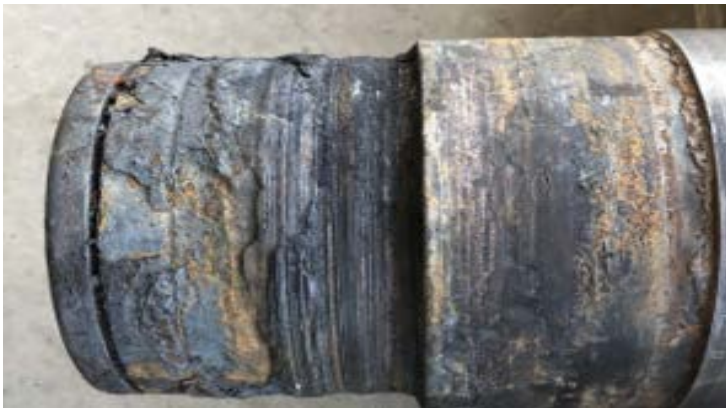


HYDRAULIC CYLINDERS

- Wear resistant coatings for hydraulic pistons
- Replacements for traditional hardchrome coatings
- High density, low porosity, high wear resistant coatings
- Can be superfinished to optical mirror finish
- Increased seal life
- Materials: Tungsten carbide, chrome carbide

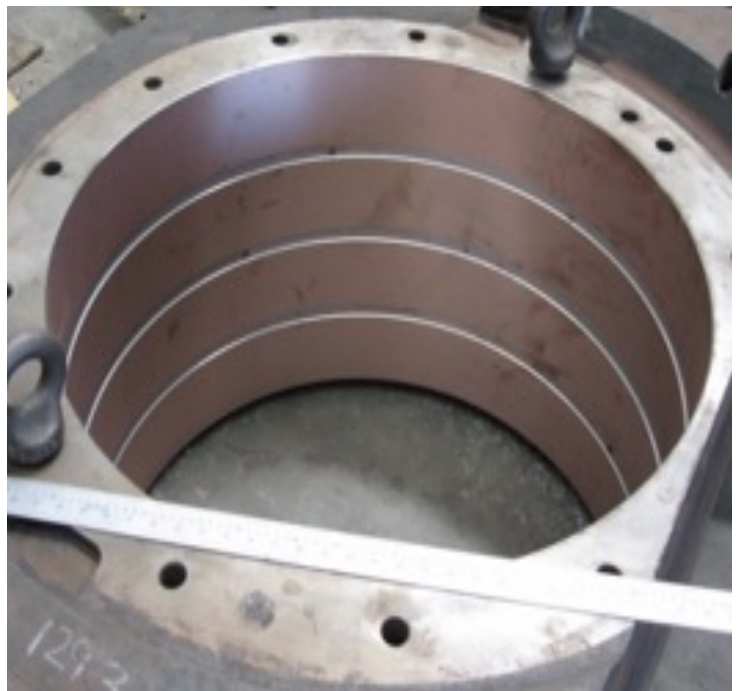


- Metal spray or laser clad repair of worn shafts
- Cold-spray process – no induced stresses
- No heat treatment required
- Dimensional restoration of bearing journals
- Hardfacing for seal journals
- Often cheaper than shaft replacement
- Fast turnaround possible

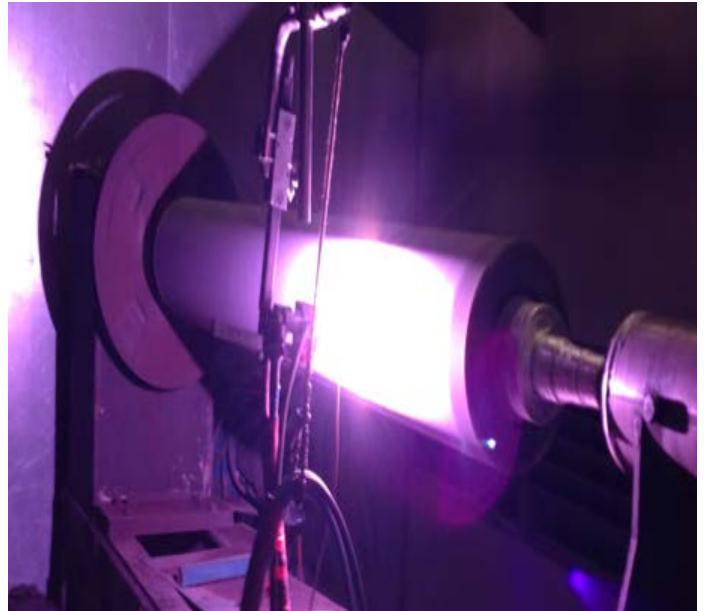


BEARING CHOCKS

- Options for metal spray, re-sleeving, or laser cladding repairs
- Any size bearing chocks/chucks can be refurbished
- Often cheaper than new chocks
- Fast turnaround
- Precision machining
- Wide variety of material choices

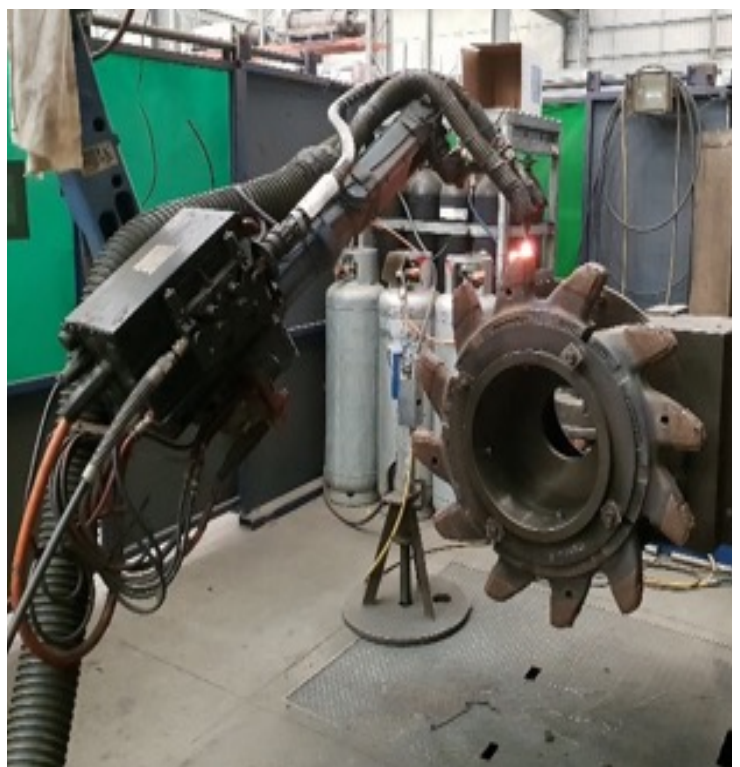


- Precision grinding, machining, coatings
- Super finishing – optical mirror finish possible
- Dimensional restoration, wear resistant coatings, non-stick coatings
- Tungsten carbide, chrome carbide, bronze, stainless steel coatings, Ceramic Chrome Oxide coatings
- PTFE (Teflon™) coatings for non-stick applications



CRUSHER REPAIRS

- Weld repair of all types of crushers
- Metal spray of worn journals on eccentric shafts
- Hardfacing of crushing and sizing teeth
- Supply of AbrasaPlate for wear surfaces
- AbrasaPlate screens
- Loctite Crusher Backing



- Full overhaul capabilities
- Dimensional restoration of worn components
- Hardfacing of cones, rotors, housings
- Specific application expertise
- Weld overlay, composite, thermal spray coatings as required
- Testing capabilities
- Non-stick coatings to prevent internal build-up of scale





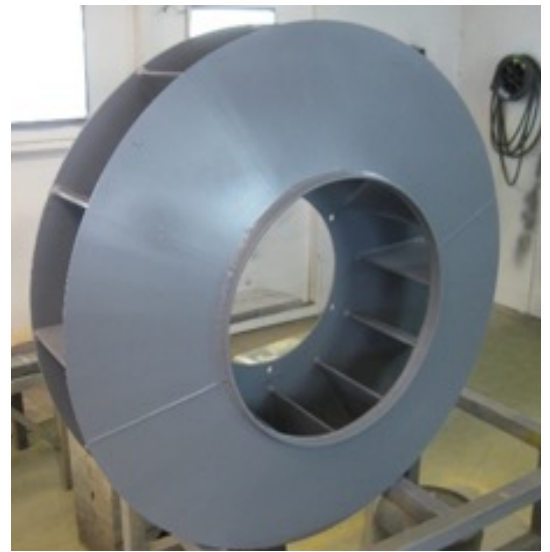
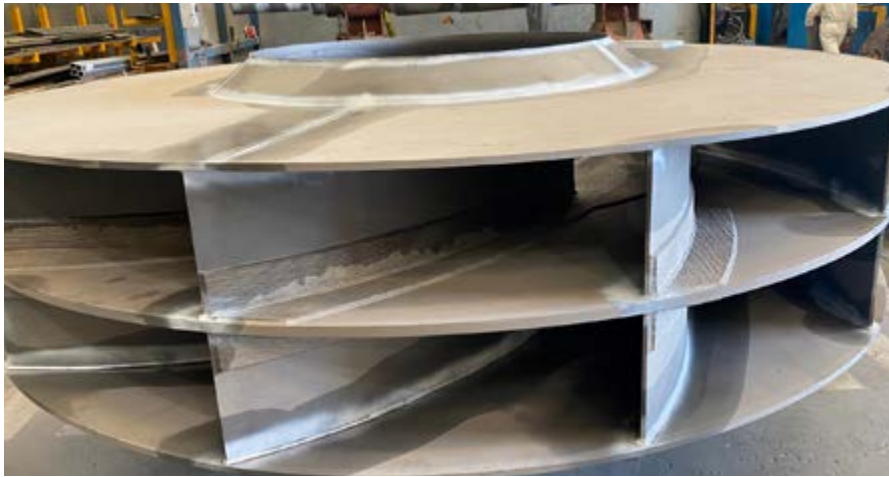
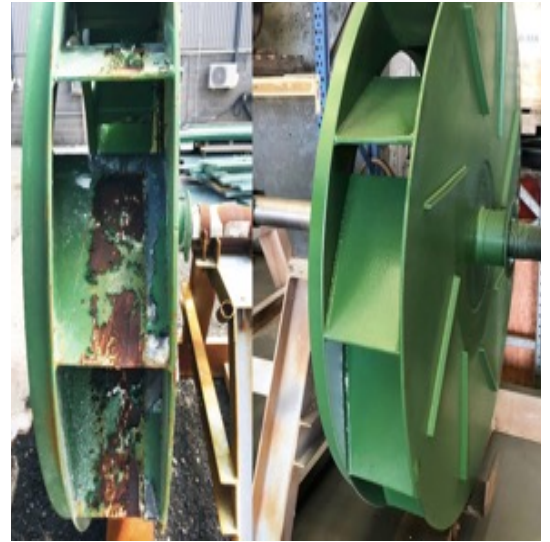
- Precision Machining and grinding
- Weld repairs
- Metal spray coatings
- Composite Loctite coatings (Approved applicator)
- Heavy duty solutions
- Full overhaul
- Testing available
- High temperature applications
- Abrasive media applications
- Robotic weld repairs



- Manufacture & refurbishment of all size screws
- AbrasaPlate screw flights
- PTA or laser tungsten carbide weld overlay to flights and cores
- Robotic application
- Supply of replacement flights
- Chrome or Tungsten coatings
- Loctite Composite coatings



- Manufacture, Repair and Lining of all fan types
- Supply and installation of fan wear plates
- AbrasaPlate®: Fans can be manufactured entirely from wear resistant chrome carbide plate or with replaceable wear liners. Available in 3+3mm thickness for low weight
- Laser Clad or MIG welded: Tungsten Carbide, chrome carbide or general hardfacing
- Arc-sprayed chrome boron for general purpose wear prevention
- HVOF applied tungsten carbide
- Loctite Composite Coatings: Economical and lightweight, with excellent surface finish

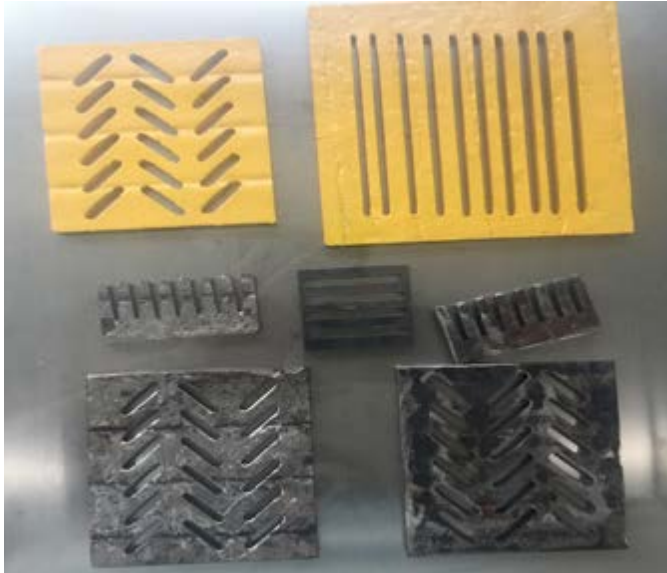


VALVES

- Any size valves (2" – 60")
- Repair and hardfacing
- Stellite coatings
- Tungsten carbide
- Chrome carbide
- Specialise in heavy duty valves
- High temperature applications
- Corrosive environments
- Metal spray, PTA or Laser Cladding options



- Tungsten carbide or chrome carbide weld-overlayed screens
- Retain sharp edges for longer
- Also available in lower grades (stainless steel, Q&T plate)
- Manufacture and repair



SUITABLE FOR ALL SCREENS INCLUDING

Pulpers

Pulper-emptying

Turbo-seperator

Reject-seperator

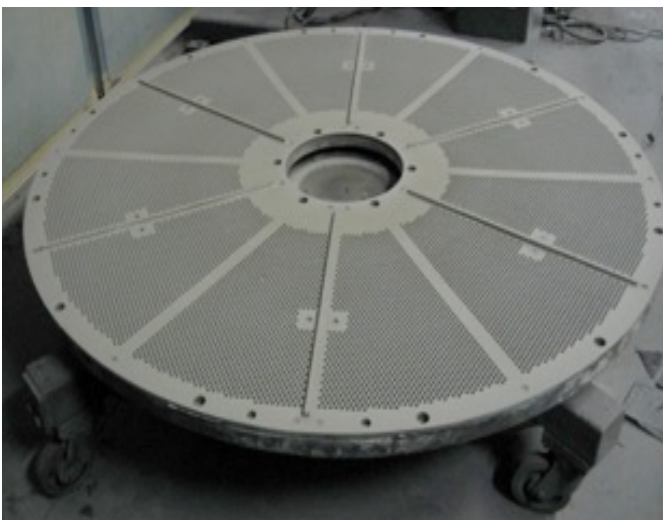
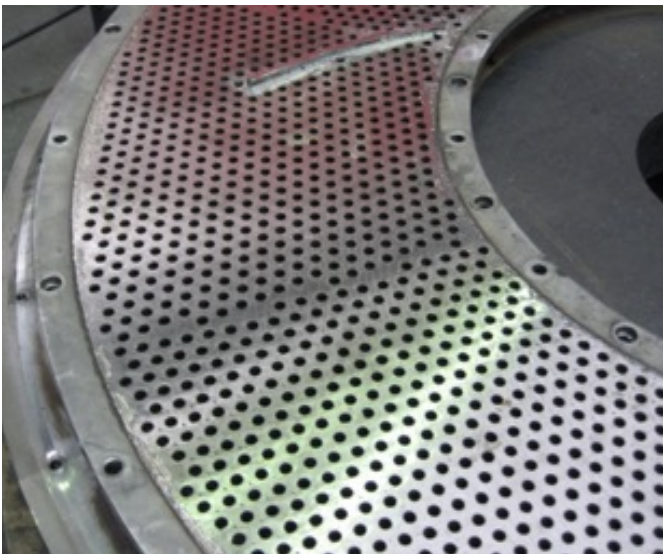
Reject-sorter

Fiberizer

Screw Press

Reject Press

All makes and models



WOODCHIP WEAR PARTS

- Supplying all wearing consumables for woodchippers
- Impact resistant weld overlay coatings for longer life available. Proven in Australia's biggest chippers

AVWELD CAN SUPPLY

Chipper knives

Counter knives

Face plates

Knife clamps

Chip deflector

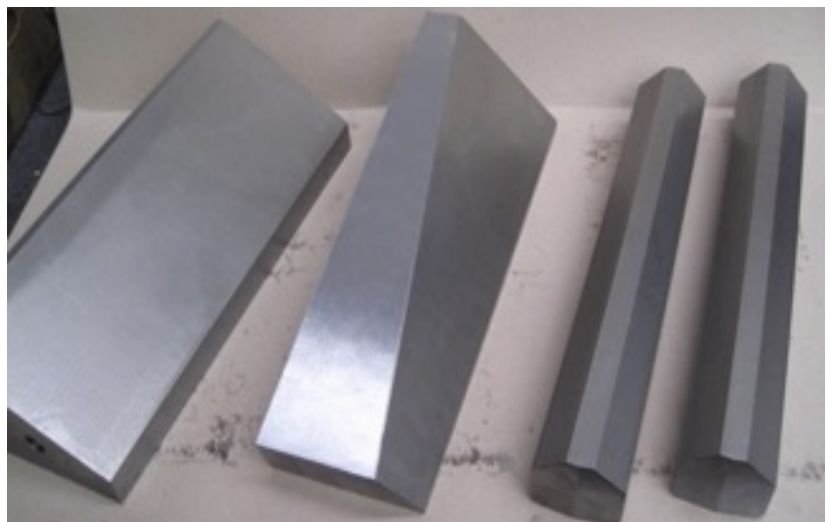
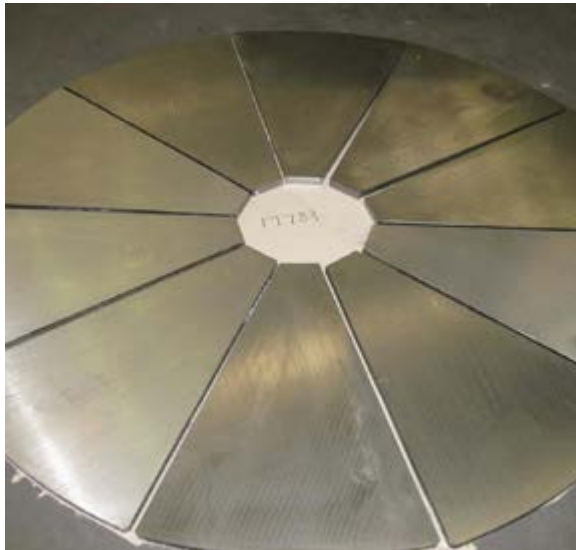
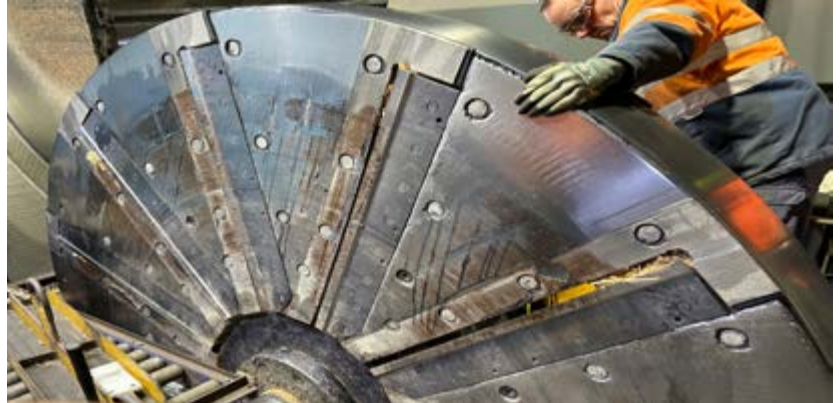
Chip pocket liner

Bed knives

Anvils

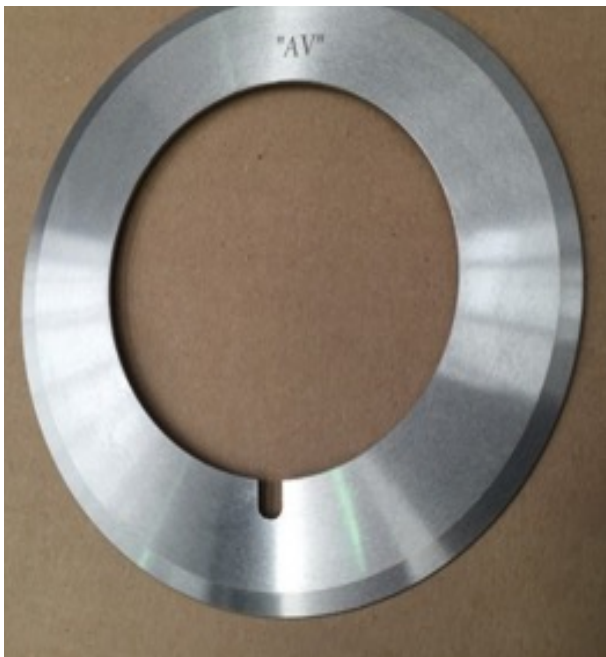
Chip breakers

Belly Bands



KNIVES	INDUSTRIES
CHIPPER KNIVES	WOODCHIP
COUNTER KNIVES	STEEL
BED KNIVES	PLASTICS
TOP SLITTER KNIVES	PAPER
BOTTOM SLITTER KNIVES	RECYCLING
GUILLOTINE KNIVES	PRINTING
TUBE SLITTER KNIVES	PACKAGING

- Knives manufactured new from quality tool steel
- Cryogenic treatment available
- Material selection advice available for broad range of applications
- Knives hardfaced using tungsten carbide and metal spray options





Loctite composites utilise world-leading adhesive technologies to provide repair & coating options for all types of industrial machinery. Composites are available for repair of metal, concrete, rubber and plastics.

Brand new technology for ease of application makes Loctite Composites very competitive.

Loctite Composites can be applied by Avweld, or purchased for self application by our customers.

- Loctite Nordbak Wearing Compound
- Loctite Nordbak Fast Cure Wearing Compound
- Loctite Nordbak Brushable Ceramic
- Loctite PC 7255 Sprayable Ceramic
- Loctite Nordbak Chemical Resistant Coating
- Loctite Fixmaster Rapid Rubber Repair Kit
- Loctite Fixmaster Superior Metal
- Loctite Fixmaster Magna-Crete
- Loctite High Impact Crusher Backing
- Loctite Pipe Repair Kit



- Chrome carbide wear plate
- Weld overlay hardfacing on mild steel backing
- High wear resistance compared to stainless steel, Q&T steel
- Easy to form, weld, roll, cut
- Different grades for different applications
- Good impact resistance
- Available in sheet form or full fabricated assemblies

AVAILABLE GRADES

AP-3000 High quality general purpose plate designed for medium impact and high abrasion. A high volume of hexagonal chrome carbides in a tough austenitic and martensitic matrix

AP-3000T Chrome carbide with 3% added tungsten for increased abrasion and impact resistance

AP-7000Nb Complex chrome and niobium carbides applied by subarc welding, resulting in higher abrasion and impact resistance

AP-X Cross Hatch 3mm thick cross hatch weld overlay on top of any plate grade. Increases impact resistance and allows the plate to become self protecting using a 'rock box' effect

AP-6000 High Temp High hardness complex carbide plate with added boron for maintained wear resistance and hardness up to 800°C.

AP-CF Crack Free Extremely smooth surface finish resulting in reduced hang up from sticky ores. Available in standard or polished finish.



COMMON SIZES

Hardfacing on Backing thickness mm

3on3	4on4	4on6	6on6
6on8	8on6	8on8	9on10
12on8	12on12	17on12	20on12

STANDARD SHEET SIZES

1.5 x 3.0m

2.2x3.0m

COMMON APPLICATIONS

CHUTES	DUCTS	FANS	TRAY LINERS
ELBOWS	CRUSHERS	LINER KITS	DOZER BLADES
G.E.T	BUCKETS	HOPPERS	TROMMELS





Rolled AbrasaPlate



Chip Transfer Chute



Steel Mill Coal Screens



Paper Industry Orifice Wear Plate



Secondary Pulper Lining



Hydropulper lined with AbrasaPlate wear plates, with AbrasaPlate-X cross hatch baffle plates



OVERVIEW

Cross hatch AbrasaPlate® is light weight, and outstanding for high impact applications. It is made of mild steel backing, with a weld overlay chrome carbide hardfacing, then a 3mm thick hardfaced cross hatch pattern.

The cross hatch pattern enables bulk solids to fill up depressions in the surface, and then self-protect.

It also provides outstanding impact resistance.



COMMON SIZES

Hardfacing on Backing mm	Overall Thickness
4on4-X	11mm
4on6-X	13mm
6on6-X	15mm
6on8-X	17mm
8on6-X	17mm
9on10-X	22mm
12 on 12 X	27mm

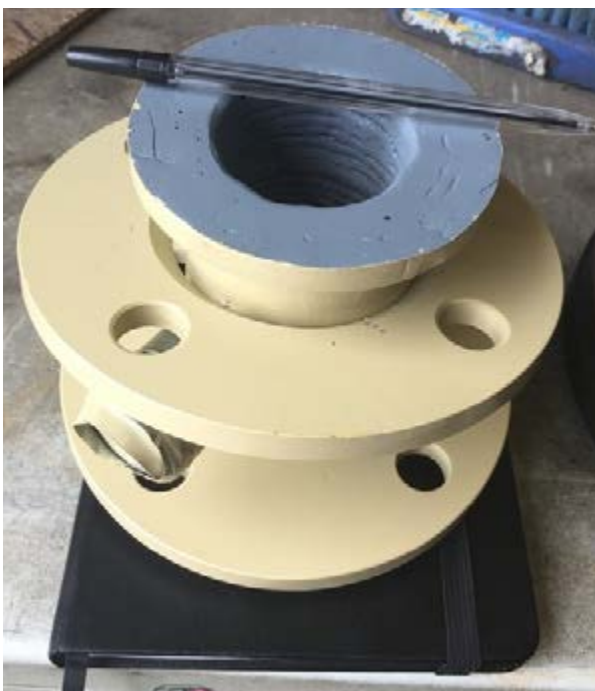


- Internally or externally hardfaced pipe
- Same composition as AbrasaPlate®
- All standard pipe sizes available
- Standard lengths up to 12m available
- Smooth overlay
- Bends and transitions also available
- Very small diameters available
- Hardfaced joins and neck rings available

Custom pipe sizes are also available with multiple layers of hardfacing.

STANDARD PIPE SIZES

inch	PIPE OD	PIPE WT	HF Thk
2.5	73	6-8	3-5
3	89	6-8	3-6
3.5	102	6-8	3-6
4	114	6-8	3-8
6	168	6-8	3-8
8	219	6-10	4-9
10	273	6-10	4-9
12	324	6-10	4-9



- Heavy duty alloy and carbide studs provide outstanding wear resistance in demanding applications
- Applied using stud-welding process
- Provides “self-protecting” layer due to voids between studs
- Replacement studs can be applied directly over worn out studs.

STANDARD SIZES

16mm

20mm

20P Pointy studs for debarking

COMMON APPLICATIONS

Loader, excavator, bopper and
face shovel buckets

Truck trays

Dozer blades and push arms

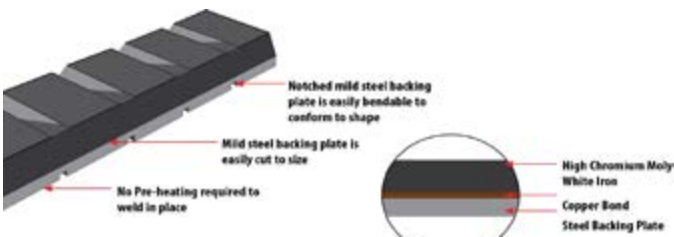
Crusher wear parts

Debarker Drums & feed rolls

Ground engaging tools



- For high impact abrasion applications in material handling, you can't go past Alloys International's white iron wear products.
- The chrome-moly white-iron castings, are vacuum brazed onto a mild steel backing plate, which can then be easily welded on-site to the wearing surface.
- The white-iron casting includes super hard chromium carbides (1500HV) in a martensitic matrix.
- Especially suited to high impact and abrasion applications.



CHOCKY BLOCKS

Chocky blocks are the most popular cast wear product, due to their ease of installation and distinctive shape. Chocky Blocks are stocked in sizes from 25 to 90mm wide, with 15mm hard surface on 8mm mild steel backing.

Applications include: Fixed & mobile plant, buckets trays, chutes, crushers and impact plates.



SHREDDER HAMMER TIPS

Standard, Flared & Butterfly Shapes

- Machined steel base allows for quick & easy in-situ installation
- Cost effective as compared to hard facing
- Superior edge retention & sharpness
- No need to rebuild edges
- Geometric & Engineered design to increase life
- Tips can be rotated for maximum wear life

WEAR BUTTONS

- Industry proven to combat Impact & Abrasion Wear.
- Excellent results on bucket & shovel protection, supports life of ground engaging tools.
- The unique profile of the Button deflects material.
- Ideal for tooth adapter protection & bucket side wall protection.
- Various sizes make them well suited for small & awkward areas requiring wear protection.

GRIZZLY BARS

Chocky blocks are the most popular cast wear product, due to their ease of installation and distinctive shape. Stocked in sizes from 25 to 90mm wide, with 15mm hard surface on 8mm mild steel backing.

Applications include: Fixed & mobile plant, buckets, trays, chutes, crushers and impact plates.



Alloys manufacture and stock a range of shredder hammer tips.

The standard white-iron cast tips are available in all standard sizes, with a refined grain structure for increased life compared to standard hammers.

Our premium offering includes tri-metallic chrome and tungsten hammers. Ideal for when you want to guarantee the longest possible life in hi-impact hammer applications.

Weld-overlay tungsten carbide grit hammers are locally manufactured and perfected after 40 years of experience at hardfacing for wear resistance.

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AVWELD

Leadership in Life Extension

CERTIFIED
ISO 9001

