PROVEN PROTECTION

FOR IMPACT AND ABRASION CHALLENGES

ISO 9001:2015

JADCOMFG.COM

PROVEN PROTECTION... FOR IMPACT AND ABRASION CHALLENGES

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JADCO Manufacturing, Inc.

> Family-owned business for over 40 years

> Is a leading global provider of unique solutions to combat impact and abrasion challenges

> Provides unmatched technical expertise, quality, and customer service

> Offers an unparalleled array of proprietary products to optimize operations

Our commitment to you:

We examine raw materials, work-in-progress, and finished goods to ensure that everything we manufacture is to your precise specifications. Our technical support team will work directly with your designers and engineers, using Autocad™, SolidWorks® and 3D scanning, to plan every project detail. Our design and fabrication expertise delivers genuine value to you no matter what your objective: increased tonnage, superior wear life, or reduced maintenance costs. We will take the time to understand and help solve the performance and operational challenges that you face while helping you maximize profits and productivity.

Industries Served:

> Mining
> OEM
> Material Handling
> Asphalt and Road Building
> Tunneling
> Concrete and Cement
> Oil and Gas
> Glass
> Wastewater Treatment
> Power Generation
> Steel Mills and Foundries
> Pulp and Paper
> Aggregates
> Waste and Recycling
> Dredging
> Agriculture
> Air Handling
> Sugar

If you're looking for an industry that isn't listed above contact JADCO and learn more about solutions to solve your greatest wear challenges.

QT PLUS®

PREMIUM QUALITY THROUGH HARDENED WEAR STEEL WITH UP TO 3-5 TIMES WEAR LIFE OF COMMODITY AR 400

Why QT-PLUS®?		
	QT-PLUS® Wear Steel	Commodity AR Steels
Weldability	Excellent	Poor (due to high carbon content)
Toughness	Extreme	Moderate (due to little or no alloy)
Through-Hardness	Excellent	None
Consistent Properties	Uniform	"Hard" and "Soft" Spots (due to improper heat-treating)
Quality Parts	Made Under Strictest Standards	Often Warped or Wavy (making installation difficult)
Fabrication	User-Friendly	Difficult

QT-PLUS® Wear Steel

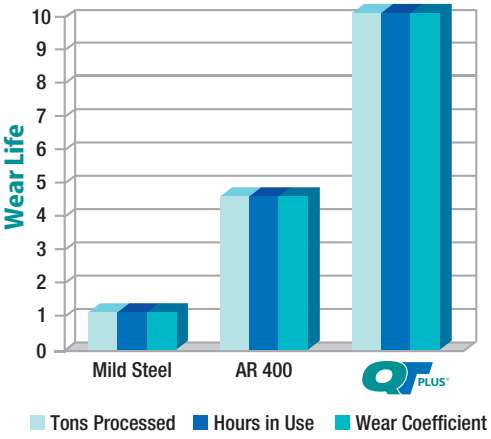
JADCO QT-PLUS® wear steel, a company exclusive, combines a specific chemistry with a unique thermal heat-treating process. Result: a premium-quality grade of alloy steel unmatched in the industry, with up to *3-5 times wear life* of commodity AR400 wear steel.

Parts made from QT-PLUS® not only provide outstanding resistance to abrasion (500 BHN) and wear, but are amazingly ductile.

Individual Plates Available

QT-PLUS® steel plates come in a variety of standard or cut-to-size dimensions. JADCO stocks plate in sizes from 3/16" up to 5" thick.

QT-PLUS® VS. AR 400 & MILD STEEL



Typical Applications:

- > Wear Plates
- > Breaker Plates
- > Truck Bed Liners
- > Bin Liners
- > Sprockets
- > Flume Liners
- > Impact Plates
- > Mixer Paddles
- > Rock Crusher Liners
- > Screens
- > Nose Plates
- > Bucket Lips
- > Hopper & Bin Liners
- > Fan Blade Liners
- > Cyclones
- > Skip Car Liners
- > Cone Liners

3/16" up to 5" thick in stock

Mechanical Properties:

Hardness – Thickness <1" – 461/537 BHN
Thickness >1" – 444/514 BHN

Tensile (typical) – 225,000 psi

Elongation in 2" – 11% (typical)

Charpy V – 20 ft/lbs @ -40°F (typical)

Yield (typical) – 165,000 psi

QT PLUS®

Fabrication Facts

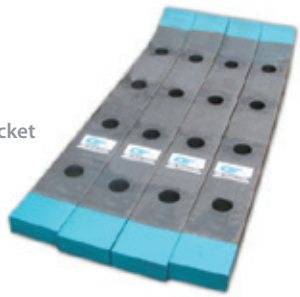
Machining: With proper tooling and speeds, QT-PLUS® can be machined and drilled using conventional methods. Please contact your JADCO representative to discuss your specific requirements.

Welding: Rods should be dry-welded on a moisture-free surface. Pre-heating is preferred to reduce thermal shock (250° max). Use FUSION™ Ultrabond weld rod. If no pre-heat is possible, FUSION™ Universal is preferred. Welds in restraint should be avoided.

Flame Cutting: QT-PLUS® is easily flame cut with oxyacetylene or plasma. Hardening will occur at the edge of the cut and it's beneficial to pre-heat before flame cutting (350°F) or allow enough stock to get below the hardened edge.

Bending: QT-PLUS® is cold-formable with the proper equipment. The material's toughness enables it to be rolled or formed for almost any application. We recommend 8T across the grain and 12T with the grain. Transverse to the grain is preferred.

3" thick bucket heel bands



TYPICAL CHEMISTRY

Carbon	Manganese	Phosphorus	Sulfur	Silicon	Nickel	Molybdenum	Chromium	Boron	Hydrogen
C	Mn	Ph	S	Si	Ni	Mo	Cr	B	H
.24/.26 max.	1.0	0.035 max.	0.005 max.	0.55 max.	1.0-2.0	0.25	0.5	0.003 max.	<4 ppm

Percentages Shown

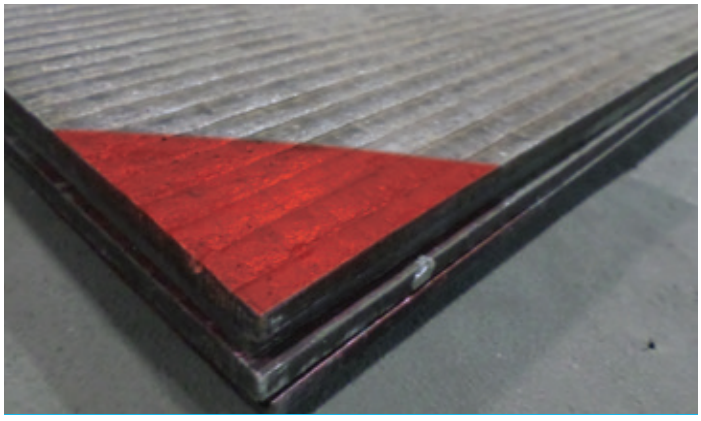
CHROMEWELD™
PREMIUM OVERLAY PROTECTION

HEAVY-DUTY CHROMIUM CARBIDE OVERLAY STANDS UP TO THE TOUGHEST, MOST DEMANDING ABRASION WEAR CONDITIONS

JADCO's CHROMEWELD™ Family has continued to evolve and grow over time. With our proprietary chemistry and manufacturing processes, we continue to strive to meet all your abrasion needs.

Our products are used in a wide range of applications, from mobile equipment liners to fraq sand transportation. CHROMEWELD™ has met those needs with a variety of overlay materials including plates (600), pipes (FLOW) and wire (FUSION).

Each grade of CHROMEWELD™ is developed to meet a specific wear application. Whether that challenge is severe abrasion (W), fine particle abrasion (Nb PLUS), combating high impact (Ti) or fighting those ultra-demanding conditions (COMPLEX), JADCO's CHROMEWELD™ series will be able to meet your application. The unique chemistries allow for uniformity of the overlay, yet enough customization to meet the needs of each application head on.



Underground and above ground mobile equipment along with power plants, cement plants, asphalt plants, steel mills, and coal preparation plants are among the many industries that provide ideal conditions for the use of CHROMEWELD™ wear plate.

Key Benefits:

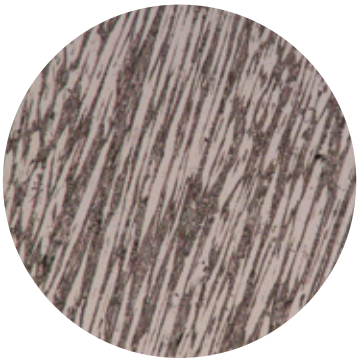
- **More cost-effective solution when compared to traditional abrasion-resistant steels**
- **Superior abrasion resistance and performance in elevated temperatures.**
- **Low maintenance cost and easy installation.**

Typical Applications:

- **Continuous & Longwall Miner Parts**
- **Chutes & Hopper Liners**
- **Screed Plates**
- **Skirt Boards**
- **Screw Conveyor Flights**
- **Mobile Equipment Liners**
- **Drag & Shovel Bucket Liners**
- **Haulage Systems**
- **Truck Bed Liners**
- **Fan Blades**
- **Cheek Plates**
- **Washer Bottoms**
- **Chipper Hoods**
- **Cullet Handling**

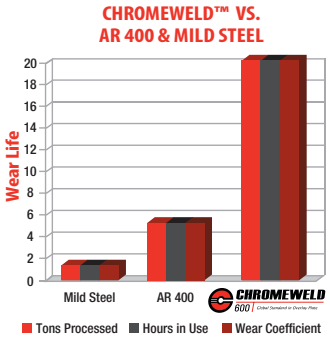
CHROMEWELD™ 600

Global Standard in Overlay Plate



Micro Etched @ 50X

The JADCO process produces a mircostructure consisting of fully austenitic matrix filled with primary carbides. This structure provides outstanding abrasion resistance in the most challenging applications.



TYPICAL CHEMISTRY				
2-Layer Deposit				
Carbon	Chromium	Manganese	Silicon	Iron
C	Cr	Mn	Si	Fe
4.5 – 6	25 – 30	2 – 3	1	balance

Percentages Shown

CHROMEWELD™ 600 Overlay

A premium grade of chromium carbide wear plate. Produced with a variety of base plate and hardfaced/ overlayed with our proprietary JADCO FUSION™ WIRE.

Displays excellent abrasion resistance and will withstand continuous moderate impact. The plate maintains abrasion resistance in operating temperatures up to 1100°F.

CHROMEWELD™ 600 typical hardness ranges from 58-62 HRC based on weld deposit thickness. The surface of the plate exhibits numerous hairline cracks that are essential to the performance of the plate and enable it to be formed, bent, and rolled without damage.

Standard plate size is 90" wide x 120" long or 9" x 240" in select thicknesses. Standard thickness range from 1/8" on 1/8" (.25") through 1/2" on 1" (1.5"). As with all our products, custom is standard at JADCO. Many other thicknesses and grades are available.

Specific overlay solutions can be customized to meet your abrasion challenges.

SPECIALTY A

CHROMEWELD™ Nb PLUS

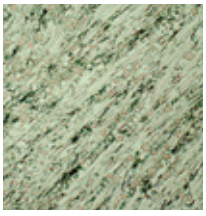
Niobium carbide overlay plate engineered for fine particle and extreme abrasion

CHROMEWELD™ Nb PLUS is a Niobium (Nb) carbide overlay plate optimized for fine particle and extreme abrasion. CHROMEWELD™ Nb PLUS weld deposit consists of primary chromium carbides compiled with niobium carbides in an austenitic matrix.

By comparison, CHROMEWELD™ Nb PLUS contains a more abrasion resistant deposit to traditional chrome carbide plates. Depending on the specific environment, wear life can be extended 30-60%. This plate also offers better wear resistant at elevated temperatures due to its enhanced chemistry. These plates exhibit high hardness, typically in the range of 63-68 HRC. Standard plate size is 90" wide x 120" long. Standard thicknesses range from 1/8" on ¼" (.375") through ½" on ½" (1").

TYPICAL CHEMISTRY					
2-Layer Deposit					
Carbon	Chromium	Manganese	Silicon	Iron	Niobium
C	Cr	Mn	Si	Fe	Nb
4– 6	20 – 26	0 – 1	0 – 2	balance	6 – 8

Percentages Shown



Austenitic Matrix

CHROMEWELD™ COMPLEX

Complex-Carbide Overlay Plate for Ultra-Demanding Conditions

CHROMEWELD™ COMPLEX is an overlay plate consisting of small primary chromium carbides, and secondary Niobium and Vanadium carbides for ultra-demanding conditions.

The high concentration of small carbides greatly improves wear resistance and toughness over standard chromium carbide plate.

PPLICATIONS

CHROMEWELD™ Ti

Specially Blended Overlay Plate to Combat Impact and Abrasion

CHROMEWELD™ Ti is a unique material that is ideal for surfaces requiring high levels of abrasion resistance, along with heavy impact. It is a premium grade of overlay wear plate developed with an ultra-tough matrix and finely dispersed abrasion and impact resistant, titanium carbides.

CHROMEWELD™ Ti has a typical hardness range from 56-60 HRC based on the weld deposit thickness. The surface of the plate is a composite of titanium carbides in a high chromium martensitic matrix. The chemistry displays excellent abrasion resistance, all while withstanding heavy impact. Standard plate sizes are 90" x 120" and can vary in thicknesses from 1/8" on ¼" (.375") and ½" on ½" (1").

TYPICAL CHEMISTRY						
2-Layer Deposit						
Carbon	Chromium	Manganese	Silicon	Titanium	Molybdenum	Vanadium
C	Cr	Mn	Si	Ti	M	V
1-2	5-10	1-2	1-2	6-10	1-2	1

Percentages Shown

CHROMEWELD™ W

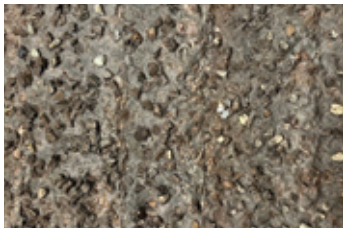
Tungsten Carbide Overlay Plate

CHROMEWELD™ W is a material designed to withstand your most severe abrasion applications. This overlay plate combines the benefits of our premium CHROMEWELD™ chemistry along with the addition of tungsten carbide deposited throughout the matrix. Our manufacturing process produces a plate that has tungsten carbide dispersed throughout the entire matrix.

CHROMEWELD™ W typical hardness range from 70-75 HRC depending upon deposit thickness. The surface of the plate is a composite of tungsten carbide combined with chromium iron carbides. The surface of the plate exhibits numerous hairline cracks which are essential to the performance of the plate and enable it to be formed, bent and rolled without damage.

TYPICAL CHEMISTRY					
2-Layer Deposit					
Carbon	Chromium	Manganese	Silicon	Iron	Tungsten
C	Cr	M	S	Fe	W
4.5– 6	25 – 30	0 – 2	0 – 2	Balance	35 – 40%

Percentages Shown



CHROMEWELD™ FLOW

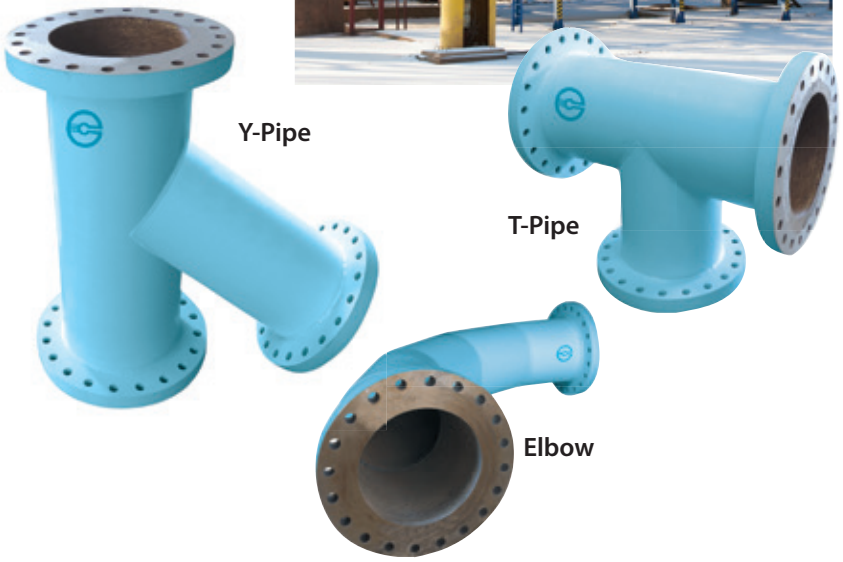
Optimum-Performance Wear Pipe

CHROMEWELD™ FLOW

CHROMEWELD™ FLOW is a unique piping system that is ideal for material movement with high levels of abrasion resistance.

The JADCO process produces a microstructure consisting of fully austenitic matrix filled with primary carbides. This structure provides outstanding abrasion resistance in the most challenging applications. Standard wall thickness range from 1/8" through 3/8".

- Diameters are available from 4" to 48"
- Hardness 52-56 HRC
- Flanges available per application
- Abrasion resistant up to 1100°F



Y-Pipe

T-Pipe

Elbow

Different Types of FLOW

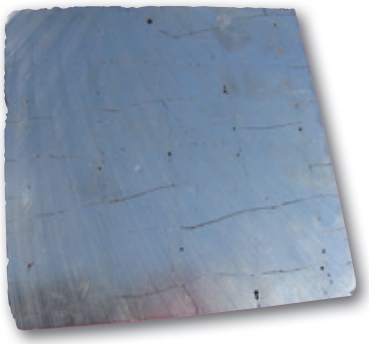
Straight

CHROMEWELD™ GLIDE

Ultra smooth surface to enhance material flow

CHROMEWELD™ GLIDE is a polished, non-stick surface produced to minimize or eliminate material adhering to the surface.

The low coefficient of friction allows for reduced sticking or carryback in a variety of applications such as chutes, hoppers, mobile equipment and truck box liners. Standard plate size is 90" x 60" in all available thicknesses. Standard thicknesses are ¼" on ¼" (.5 overall) and 3/8" on 3/8" (.75 overall).



CHROMEWELD™ GLIDE CHROMEWELD™ 600

FUSION™

Welding Wire and Electrodes

JADCO

Our wear products are available to a variety of industries, combating environment and materials, to fight against wear challenges all over the globe. To assist our customers in their installation efforts in the field, we offer the JADCO **FUSION™** Line of joining and hardfacing wires and electrodes.

FUSION™ Wire & Rod Comparison Chart

	Abrasion	Impact	Hardness	Layer Max.	Position	Surface Cross Checks	Machinability	Temperatures (Up to)
FUSION™ AP	Good	Good	55-60 HRC	4 Layer	All	None, with proper preheat & interpass temperature	Poor	1000°F
FUSION™ GO	Excellent	Moderate	60 - 65 HRC	2 Layer	Flat & Horizontal	Yes	No	1100°F
FUSION™ TI	Excellent	Heavy	56 - 60 HRC	3 Layer	Flat & Horizontal	Little to none, with proper preheat & interpass temperature	Too Hard. Recommended for grinding only.	1110°F
FUSION™ W	Excellent	Moderate	Matrix: 400-450 HV Tungsten carbides: 2000-2500 HV	1 Layer	Flat, Horizontal, & Vertical	With Cracks	Too Hard. Recommended for grinding only.	1110°F
FUSION™ 600	Excellent	Moderate	58- 65 HRC	3 Layer	Flat, Horizontal, & Vertical	Yes	No	1000°F
FUSION™ 600 E	Excellent	Moderate	58- 65 HRC	3 Layer	All	Yes	No	1000°F
FUSION™ NB	Excellent	Excellent	62 - 64 HRC	1 or 2 Layer	Flat & Horizontal	Yes	No	1000°F
FUSION™ UNIVERSAL	Moderate	Excellent	150-200 HB AW 47 - 50 HRC WH	Unlimited	All	No	Yes	1000°F
FUSION™ UNIVERSAL E	Moderate	Excellent	150-200 HB AW 47 - 50 HRC WH	Unlimited	All	No	Yes	1000°F
FUSION™ ULTRABOND	Poor	Excellent	N/A	Unlimited	All	No	Yes	1000°F

FUSION™ options vary in general purpose to particular material abrasion wear. Our selection allows you to find the best suited wire or electrode for your application, whether it be chrome-free, applied in/out of position or applied in one layer deposits.

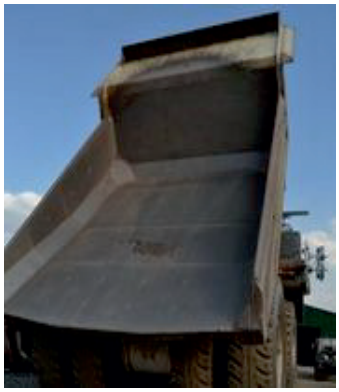
GENERAL INFORMATION:

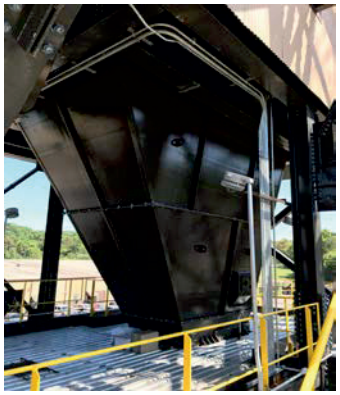
- Standard wires are provided in 33 lbs. fiber spools
- Standard rod is provided in 10 lbs. Vac Pak
- Stocked wire options are .045" and 1/16"Diameter
- Custom thicknesses are available, please reach out to your sales representative to learn more.

Duracorr® 300

ArcelorMittal

JADCO Manufacturing is an approved reseller of **Duracorr® 300.** Duracorr®300, is a low carbon, 12% chromium stainless steel which is produced to a nominal hardness of 300 BHN, for applications where both abrasion and corrosion resistance are required. Improved dent resistance is a strong attribute for Duracorr®300 over the other stainless steels.





Typical Applications:

- > Truck Liners (including Salt)
- > Coal Processing
- > Paper Mills
- > Power Plants
- > Quarry Chutes
- > Storage Bins
- > Dry Docks
- > Fertilizer Handling and Storage

TYPICAL CHEMISTRY								
maximums unless a range is shown								
Carbon	Chromium	Manganese	Sulfur	Phosphorus	Silicon	Nickel	Nitrogen	Molybdenum
C	Cr	Mn	S	P	Si	Ni	N	Mo
0.025	11 – 12.5	1.5	0.010	0.040	0.70	1.00	0.030	0.20 – 0.35

Percentages Shown

RT500 RAZOR TUFF

RAZOR-THIN WEAR PROTECTION FOR SUPERIOR ABRASION RESISTANCE

RAZOR TUFF Wear Steel

As a JADCO 500 BHN wear steel, **RT500** is intended for applications requiring a combination of high abrasion resistance but yet maintain weldability. Available in 1/8" or 3/16" thicknesses, it is produced to achieve a fine-grain and clean microstructure with low levels of non-metallic inclusions.

Size Ranges*:

Thickness – 1/8" and 3/16"

Dimensions – 60" width x 120" length

* Other thicknesses and sizes available upon request.

Mechanical Properties:

Surface Hardness – 470 BHN – 535 BHN (target: 500 BHN)

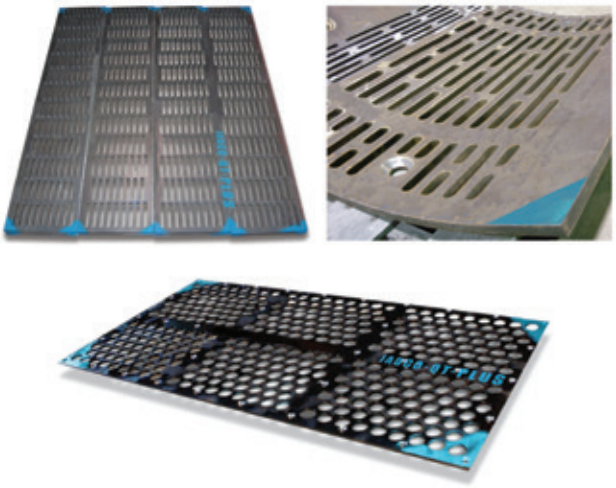
Methods – Mechanical tests in compliance with ASTM A370 (latest version).

Frequency – Test material per heat, per size, and per heat-treat load.

JADCO 400 450 & 500

JADCO 400, 450 and 500 are superior steels designed for moderate to high abrasion and impact applications. Due to the heat-treating process and chemistry JADCO 400, 450 and 500 yield a lengthier service to the end user than mild steel. With a low carbon and alloy content, their properties allow for great capabilities weldability and forming.

INCREASED PRODUCTIVITY FEWER CHANGEOUTS LESS DOWNTIME



Screen Plates

JADCO offers custom-designed screen plates for efficient screening in a variety of applications, including mining/aggregate and general industry.

Produced with JADCO QT-PLUS®, these plates provide *up to 3-5 times wear life* of commodity AR400 wear steel used for screen applications. Result: a premium-quality grade of alloy steel unmatched in the industry, with up to *3-5 times the wear life* of commodity AR400 used for screen applications. That means a significantly greater return on your screen investments.

As the applications range for metal screens increases, JADCO's ability to design and fabricate virtually any opening, using high-definition plasma, enables us to quickly deliver custom or standard screen plates.

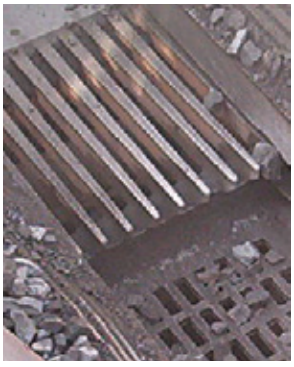
Grizzly Bars

Don't compromise. Use JADCO QT-PLUS® grizzly bars to protect your grates and other equipment.

We produce high-impact and abrasion-resistant grizzly bars in round, flat, square, and custom shapes. These can be produced to any length and weight you require.

Manufactured with our proprietary QT-PLUS® steel plate, our grizzly bars offer up to *3-5 times* the wear life of commodity AR400.

JADCO grizzly bars are especially suited to heavy-duty, high-capacity applications.



Wear Bars & Plates

Wear bars and plates made with QT-PLUS® premium steel combine the ductility of 400 BHN with the abrasion resistance of 500 BHN. These products are designed to combine hardness and toughness with ease of machining and fabrication. They offer up to *3-5 times wear life* of commodity AR400 wear steel bars and plates.

JADCO wear bars and plates come in custom thicknesses and widths. Contact your sales representative for more information on custom options

Typical Applications:

- > **Chip Drag Conveyors**
- > **Guide Bars**
- > **Chain Returns**
- > **Transfer Bars**
- > **Conveyer Wear Bars**
- > **Hold Down Bars**
- > **Rambo Bars**
- > **Tumble Bars**

STEEL BUILDINGS
CUSTOM PORTABLE BUILDINGS FOR ALL APPLICATIONS

TekBuilt
JADCO STEEL BUILDINGS

TekBuilt Pre-Assembled Buildings

JADCO manufactures TekBuilt custom steel enclosures to fit most application control building needs.

Our modular buildings provide a cost-effective solution for personnel space requirements. From control rooms to security booths to work trailers and office buildings, our enclosures always work for you. Your particular enclosure may be standard or we will custom-design one based on your specifications.

Modular Building Products

JADCO offers a variety of modular building products, even modular/panelized buildings for personnel and storage applications. We can custom design and install an office, clean room, or computer room, to fit your needs.

Tool cribs, robotic enclosures, and safety gates are just a few of the uses for JADCO Modular Building Products. We also provide platforms, stairs, and mezzanines for production and storage applications.

JADCO

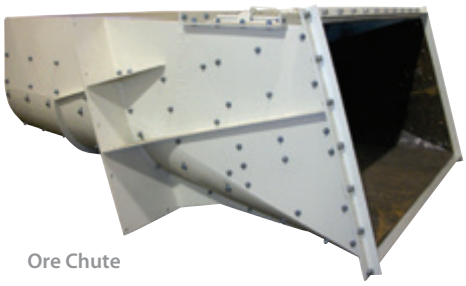
NO MATTER THE SIZE, NO MATTER THE QUANTITY, LOOK TO JADCO FOR QUALITY FABRICATION

Heavy Steel Fabrication

JADCO is a high-tech steel fabricator, employing the latest technology and manufacturing processes to make the finest steel products available. We pride ourselves on being able to provide total solutions on most projects. We maintain a full complement of fabrication equipment and can handle complex jobs, including hoppers, troughs, and sumps in standard and special sizes.

Whether it's a custom or large production run, we're committed to meeting your fabrication needs.

Hydraulic Shovel Bucket



Ore Chute

QT PLUS®

CHROMEWELD
PREMIUM OVERLAY PROTECTION

Design Capabilities

To ensure complete customer satisfaction, JADCO provides support for product design and development using Solidworks®, Autocad™ and 3D printing. By helping our customers in the development of their products, we hope to build lasting relationships and trust.

Services:

- **Oxyfuel & High-Definition Plasma Cutting**
- **Forming & Plate Rolling**
- **Full Weld Shop – AWS D1.1 Certified**
- **Machining**
- **Saw Cutting**
- **Painting**
- **Assembly**
- **Logistics**
- **3D Scanning**
- **Hardfacing**
- **Tungsten Embedding**
- **Blanchard Grinding**

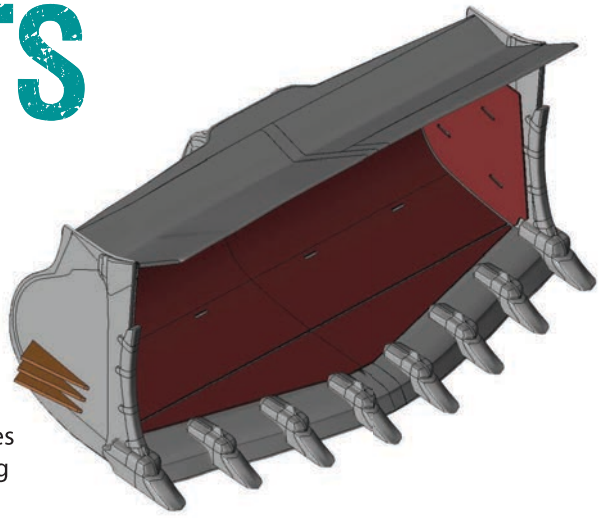
Fabrication Facts

Hardfacing: JADCO specializes in hard surface coatings that apply overlays to existing parts to protect against abrasion and corrosion.

Rolled & Welded Parts: We supply a variety of rolled and welded parts, from thin gauges through 8-inch thick steel.

Burnouts: JADCO manufactures precision-made parts using the latest technology including: high definition plasma, oxyacetylene, and water-jet.

FABRICATED KITS
SUPPLIED TO YOUR SPECIFICATIONS



Kit examples include truck liner packages, chutes, hoppers and conveyors, dipper buckets, and dragline buckets.

Kits

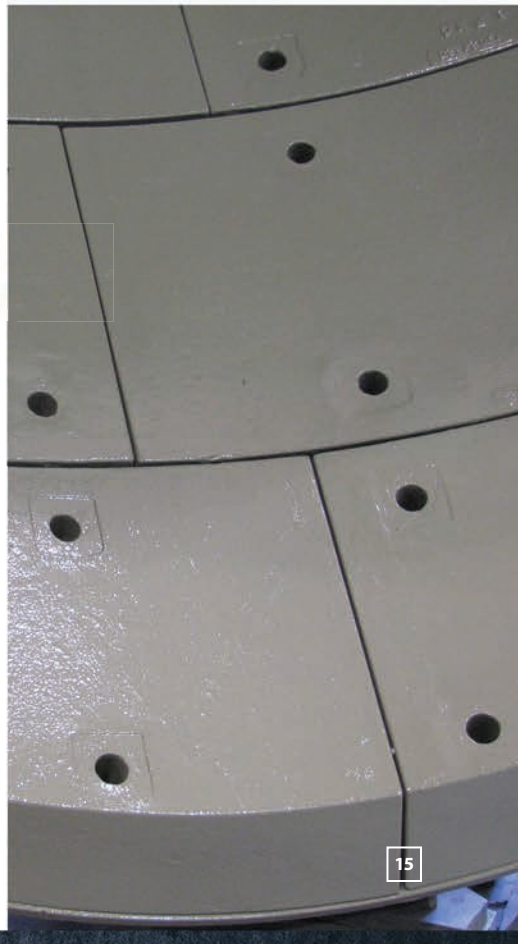
We also offer complete fabricated kits – made to almost any specification or requirement. Our unique capability to produce custom-component parts enables us to provide, for example, wear-liner packages for buckets and chutes, including installation diagrams and identification tags to eliminate any guesswork by your on-site crew. Bearings, paint, and hardware can be part of the package, too, if needed.

Parts can be manufactured individually or shipped together for final assembly.

CHROMEWELD
PREMIUM OVERLAY PROTECTION

QT PLUS®

CASTING AND FORGING SOLUTIONS FROM BASIC STEELS TO COMPLEX ALLOYS



JADCO utilizes an extensive network of world-class foundries and forging facilities to provide flexibility for casting and forging requirements in a vast array of alloy types, although specializing in wear and abrasion applications.

JADCO can supply castings ranging in size from a few ounces to more than 30,000 lbs. Forgings are available up to several hundred pounds as forged and can be rough-machined or machined complete per specifications.

Available Materials:

- > Carbon Steel
- > Low Alloy Steel
- > Stainless Steel
- > Grey Iron
- > Ductile Iron
- > Manganese
- > Ni-Hard

HG™ HARDGUARD WEAR BLOCKS FOR THE HARSHEST, MOST ABRASIVE OPERATING CONDITIONS

HARDGUARD™ Wear Steel

JADCO HARDGUARD™ blocks, available in a wide array of shapes and sizes, are an extremely hard, laminated bi-metallic, wear-resistant composite with chrome-moly white iron bonded onto a mild-steel backing plate. Its bonding shear strength is over 30,500 psi (or 210 Mpa) and will not separate.

To ensure that our blocks have finely dispersed microstructure and ultra-consistent properties versus most competitive brands, we conduct rigid post-bonding heat treatment. Our alloy hardness (63 HRC, at a minimum) delivers maximum abrasion protection, while the steel backing plate absorbs high impact and facilitates ease of fitting and use. We do not recommend HARDGUARD™ block applications in working temperatures over 572°F (300° C).

In addition, our blocks can be custom-designed to your exact application. Each block is quality-tested… and regularly subjected to thorough chemical, microstructure, visual, hardness, ultrasonic, and destructive examinations.

Typical Applications:

- > Buckets
- > Spider Arm Guards
- > Discharge Chutes
- > Rock Boxes
- > Grizzly Bars
- > Sugarcane Knife Edges
- > Adapters & Attachments
- > Dredging Equipment
- > Screen-Feed Distribution
- > Hoppers

HARDGUARD™ Types:

- > HardChoc – Chocky Bars
- > HardBar – Standard
- > HardBar – Shaped
- > HardEdge – Knife Edges
- > HARDGUARD™ Buttons
- > HARDGUARD™ Donuts
- > HardRoll – Roll Bars
- > HardTip – Shredder Tips
- > HardBoom – Boomerangs
- > HardPlate – Wear Plates
- > HardSkid – Skid Bars

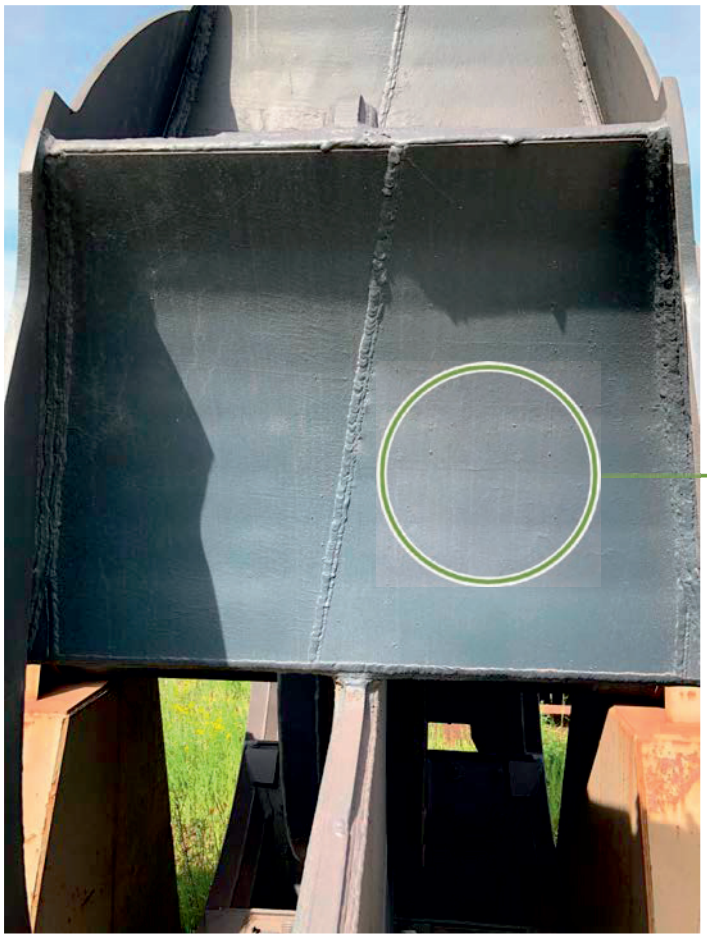
HardChoc – Chocky Bars

HARDGUARD™ Buttons & Donuts

FLEXWEAR™
TUNGSTEN CARBIDE TECHNOLOGY

JADCO FLEXWEAR™ is the next level in wear resistance. This is an exceptional process used to create a metallurgical bond between tungsten carbide and the substrate via infiltration brazing.

FLEXWEAR™ uses tungsten carbide and a nickel brazing alloy in the form of "cloth" to make cladding complex shapes possible The typical hardness is up to 72 HRC. The tungsten carbide is uniformly bonded and distributed throughout the nickel alloy matrix. Coating thickness ranges between 0.030" – 0.120".



The tungsten carbide and nickel brazing alloy has high levels of abrasion and erosion resistance due to the small particles used.

Typical Applications:

- > Impellers
- > Fan Blade Liners
- > Nozzles
- > Mixer Blades
- > Scraper Blades
- > Pin & Disc Pelletizer

Flexwear™ Benefits:

- > Longer Life
- > Less Downtime
- > Increased Production
- > Reduce Maintenance Costs
- > Increased Profitability
- > Smooth Wear Surface

Access Door

Centrifuge Wiper

Fan Nose Liner

JADCO is a leading provider and manufacturer of proven protection for impact and abrasion challenges faced by customers worldwide in:

- > **Mining**
- > **OEM**
- > **Material Handling**
- > **Asphalt and Road Building**
- > **Tunneling**
- > **Concrete and Cement**
- > **Oil and Gas**
- > **Glass**
- > **Wastewater Treatment**
- > **Power Generation**
- > **Steel Mills and Foundries**
- > **Pulp and Paper**
- > **Aggregates**
- > **Waste and Recycling**
- > **Dredging**
- > **Agriculture**
- > **Air Handling**
- > **Sugar**

Our QT-PLUS® Wear Steel has up to *3-5 times wear life* of commodity AR400 wear steel, making it ideal for a wide range of plates and liners requiring high hardness and tensile strength.

Our CHROMEWELD™ Family of Overlay Wear Steels, offer unique materials with consistent chemistries that reduce severe abrasion challenges of liners, plates, hoods and wear parts.

Our HARDGUARD™ Wear Steel is an extremely hard, laminated bi-metallic composite with chrome-moly white iron bonded onto a mild steel backing plate. Available in a wide array of shapes, it has a 63 HRC (minimum) alloy hardness and can be custom-designed and fitted to your exact application.

We also design and manufacture Screen Plates, Grizzly Bars, Wear Bars, Plates, Castings, Forgings, and Custom-Fabricated Parts for a multitude of industrial applications.

JADCO

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