



# TOUGH

IMPACT AND ABRASION RESISTANT STEEL  
FOR THE WORLD'S TOUGHEST CONDITIONS

# 2026

## PRODUCT CATALOG

[JADCOMFG.COM](http://JADCOMFG.COM)

5 DECADES OF EXPERIENCE & SERVICE

ABOUT JADCO

For five decades, JADCO Manufacturing has been a family-owned, trusted leader in wear steel, providing innovative solutions to industries worldwide. Based in Harmony, Pennsylvania, we develop proprietary products including QT-PLUS®, CHROMEWELD™, and FLEXWEAR™ to withstand the toughest environments, extend equipment life, and improve productivity. Combining decades of expertise with innovative technology and field-tested products, our dedicated team always delivers custom solutions to solve the most challenging wear issues.

As an ISO 9001:2015-certified manufacturer with ASME and NBBI certifications, we ensure the highest standards of quality, safety, and performance. Our products promote sustainability by reducing waste and tonnage while improving efficiency.

With global reach and unmatched expertise, JADCO delivers wear solutions that maximize performance and profitability. Review our product and service offerings, then connect with us to discuss your wear steel challenges.



| TABLE OF CONTENTS                  |    |
|------------------------------------|----|
| ABOUT JADCO                        | 2  |
| INDUSTRIES WE SERVE                | 3  |
| QT-PLUS® WEAR STEEL                | 4  |
| CHROMEWELD™ FAMILY OF PRODUCTS     | 6  |
| WEARVUE™                           | 12 |
| FUSION™ WIRE                       | 14 |
| FLEXWEAR™                          | 15 |
| HARDGUARD™                         | 16 |
| RT500 / JADCO 400 & 500 WEAR STEEL | 17 |
| DURACORR 300™                      | 18 |
| FABRICATION SOLUTIONS              | 19 |
| CONTACT A JADCO PRO                | 20 |

## INDUSTRIES WE SERVE

# IMPACT AND ABRASION RESISTANT WEAR SOLUTIONS FOR A VARIETY OF MARKETS AND INDUSTRIES

BE MORE PRODUCTIVE & INCREASE PROFITS WITH LESS DOWNTIME.



### AGGREGATES

We work with countless companies to extend the wear life of their equipment in the toughest aggregate processing and handling environments.



### BIOMASS

Our experienced professionals are specialists, always researching and identifying the best solutions for the harshest wear conditions — such as the Biomass industry.



### GLASS

As an industry leader with multiple overlay chemistries, JADCO is able to meet your project requirements, even when handling abrasives like glass.



### MINING

JADCO offers beneficial solutions to the problem of impact and abrasion by providing wear solutions that are able to withstand the worst that the world can throw at it.



### POWER GENERATION

The amount of time and money needed to fix a worn-out coal pipe is costly on several levels. JADCO handles these tough abrasion environments with effective solutions.



### STEEL MILLS & FOUNDRIES

JADCO provides wear plate solutions for steel mills and foundries by limiting the harmful effects of this abrasion. Whether it's a new or rebuilt bucket, we've got you covered.



### WASTE & RECYCLING

In waste and recycling, the pure volume alone of the materials handled on a daily basis makes the presence of items like hoppers, chutes, and screens necessary.



### ASPHALT & ROAD MILLING

Constructing quality roads is an incredibly important task that takes a significant amount of time & preparation, and reliable equipment to execute properly.



### CONCRETE & CEMENT

Concrete and Cement operations have their own special set of equipment, and therefore their own unique set of potential problems that can benefit from the use of our wear steel solutions.



### MATERIALS HANDLING

Any transfer point where material is touching an adjacent area is where our tough JADCO products can help your operation, by reducing downtime and increasing profits.



### OEM

Our team supports most drawing and 3D design programs to facilitate smooth interactions with established designs, and we always meet timely deadlines at very competitive costs.



### PULP & PAPER

From unloading logs, debarking & chipping, to transporting the wood chips to the digester; there is substantial abrasive wear in every piece of pulp & paper processing equipment.



### TUNNELING

Critical component availability is key when tunneling. Underground change out is also a challenge, so smart operators experience a greater wear life out of their parts with JADCO products.



### & MORE

We proudly serve a diverse range of industries beyond those that are listed here. If your industry is not listed, please contact us to learn how our wear solutions can apply to your specific challenges.



## One Grade, Endless Possibilities

QT-PLUS® sets the standard for through-hardness, premium wear-resistant steel, combining unmatched durability, versatility, and innovation to outperform and outlast the competition. Proudly American-made, QT-PLUS represents over 50 years of metallurgical expertise and continuous advancement, evolving alongside the latest in steelmaking technology.

With advanced alloy chemistry and true *through-hardness*, QT-PLUS offers superior weldability, formability, and machinability, enabling easier fabrication without compromising strength or wear resistance.

QT-PLUS is available up to 8 inches (20.32cm) thick, making it the ultimate solution for extreme-duty conditions. Engineered to replace the need for multiple steel grades, QT-PLUS handles impact, abrasion, and fabrication with ease, setting a new standard for performance and durability in wear-resistant steel.

Choose QT-PLUS for unparalleled toughness, exceptional reliability, and performance that stands the test of time.



## WHY QT PLUS WEAR STEEL?

|                       |                         |                                                                |
|-----------------------|-------------------------|----------------------------------------------------------------|
| WELDABILITY           | EXCELLENT               | POOR<br>(DUE TO HIGH CARBON CONTENT)                           |
| TOUGHNESS             | EXTREME                 | MODERATE<br>(DUE TO LITTLE OR NO ALLOY)                        |
| THROUGH-HARDNESS      | EXCELLENT               | NONE<br>(DUE TO LITTLE OR NO ALLOY)                            |
| CONSISTENT PROPERTIES | UNIFORM                 | "HARD"& "SOFT" SPOTS<br>(IMPROPER HEAT TREATING/LACK OF ALLOY) |
| QUALITY PARTS         | ISO 9001:2015 CERTIFIED | OFTEN WARPED OR WAVY<br>(MAKES INSTALLATION DIFFICULT)         |
| FABRICATION           | USER-FRIENDLY           | DIFFICULT                                                      |



## 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
- CONE LINERS & MORE



### Streamline Inventory –

QT-PLUS® combines impact resistance, abrasion toughness, weldability, and formability leading to inventory reduction due to these unique properties.

### Pioneering Innovation –

Continued advancements in metallurgy and steelmaking, QT-PLUS represents the cutting edge of wear-resistant technology.

### American Steel, American Pride –

QT-PLUS combines impact resistance, abrasion toughness, weldability, and formability leading to inventory reduction due to these unique properties.

**Available up to 8 inches (20.32cm) thick**

## TYPICAL CHEMISTRY PERCENTAGE

### 2 LAYER DEPOSIT

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



# HEAVY DUTY CHROMIUM CARBIDE OVERLAY WEAR PLATE FOR YOUR SPECIFIC APPLICATIONS

## Extreme Abrasion Resistant Chromium Carbide Overlay Plate

JADCO's CHROME WELD™ product line has consistently evolved to meet an ever-expanding range of wear challenges with unmatched precision and innovation. Our commitment to consistent quality manufacturing ensures every product delivers superior performance and durability. Designed as the ideal solution for your specific application, CHROME WELD™ excels in abrasion and impact resistance across diverse uses, including mobile equipment liners, material handling, and more.

With the broadest portfolio in the industry, CHROME WELD™ provides solutions built on advanced metallurgy, user-friendly features like flatness and formability, custom fabrication, and ongoing enhancements to meet evolving demands. CHROME WELD™ continues to set the standard for superior wear protection and tailored performance.

Standard sizes are 90" x 120" (228.6cm x 304.8cm) to 90" x 240" (228.6cm x 609.6cm) with thicknesses from 1/8" on 1/8" (3mm on 3mm) through to 1/2" on 1" (12mm on 25mm). Alternative base plates, including A572 and stainless steel, are available, along with custom thicknesses and grades to meet specific needs.



### KEY BENEFITS:

- Consistent quality manufacturing
- Continuous evolution of grades and enhancements to metallurgy as techniques and technology advance
- Superior in both flat plates but yet easily formed for complex shapes requiring durability
- More grades for your specific application than all competitors
- More cost-effective solution when compared to traditional abrasion-resistant steels
- Low maintenance, reducing downtime

### 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
- CHIPPER HOODS
- CULLET HANDLING



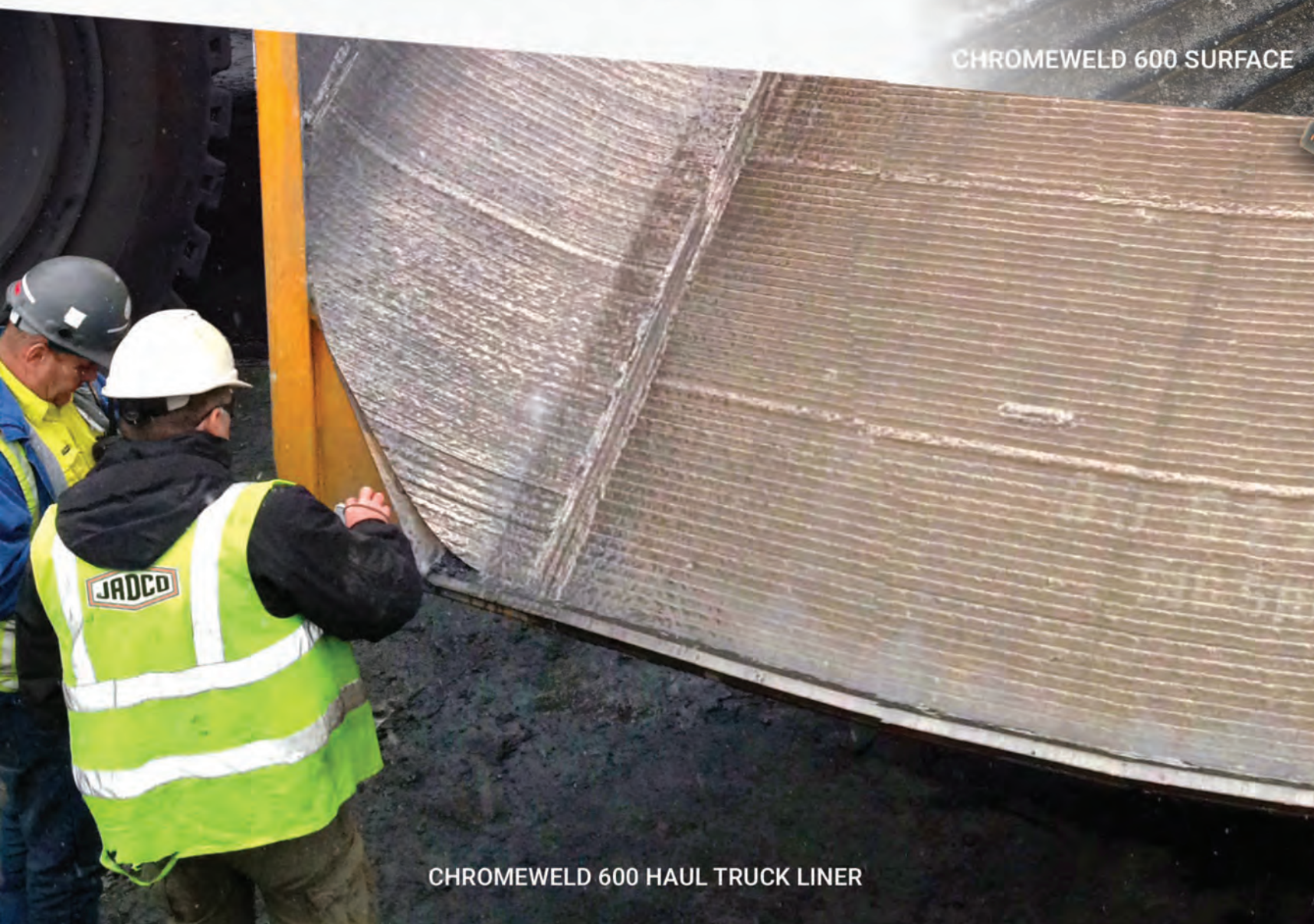
## The Global Standard in Overlay Plate

CHROME WELD™ 600 is the global standard in abrasion-resistant Chromium Carbide Overlay Plate, delivering exceptional performance with a hardness of 58-62 HRC. Manufactured with a mild steel base plate and JADCO's proprietary wire, it withstands moderate impacts, resists abrasion at temperatures up to 1100°F (593°C), and features natural hairline cracks for stress relief, allowing bending, rolling, and forming without damage. Proven in industries globally, it offers unmatched durability for demanding applications.

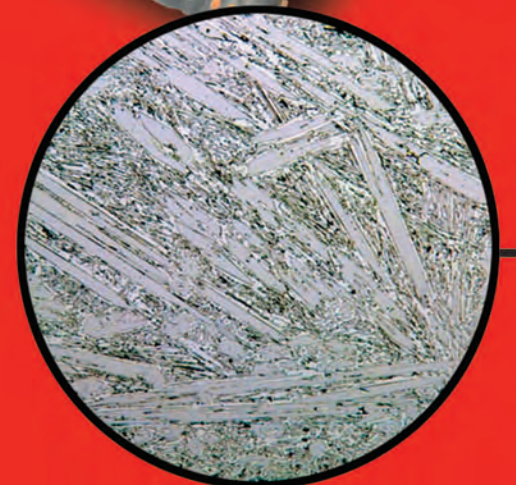
Its fully austenitic microstructure with primary carbides ensures long-lasting wear resistance, making CHROME WELD™ 600 the ultimate solution for your abrasion challenges.



CHROME WELD 600 SURFACE



CHROME WELD 600 HAUL TRUCK LINER



ETCHED MICROGRAPH @ 200X

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.

### TYPICAL CHEMISTRY PERCENTAGE 2 LAYER DEPOSIT

|                       |                          |                         |                       |                      |
|-----------------------|--------------------------|-------------------------|-----------------------|----------------------|
| Carbon (C)<br>4.5 - 6 | Chromium (Cr)<br>25 - 30 | Manganese (Mn)<br>0 - 2 | Silicon (Si)<br>0 - 2 | Iron (Fe)<br>balance |
|-----------------------|--------------------------|-------------------------|-----------------------|----------------------|



CHROME WELD Nb PLUS is a Niobium (Nb) carbide overlay plate optimized for fine particle and extreme abrasion.

CHROME WELD Nb PLUS weld deposit consists of primary chromium carbide combined with niobium carbides in an austenitic matrix.

By comparison, CHROME WELD 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 resistance at elevated temperatures due to its enhanced chemistry. These plates exhibit high hardness, typically in the range of 63-68 HRC.

## NIOBIUM CARBIDE OVERLAY PLATE ENGINEERED FOR FINE PARTICLES AND EXTREME ABRASION



Niobium (Nb)  
 6 - 8

Carbon (C)  
 4 - 6

Chromium (Cr)  
 20 - 26

Manganese (Mn)  
 0 - 1

Silicon (Si)  
 0 - 2

Iron (Fe)  
 balance

2 LAYER DEPOSIT

TYPICAL CHEMISTRY PERCENTAGE

## COMPLEX CARBIDE OVERLAY PLATE FOR ULTRA DEMANDING CONDITIONS



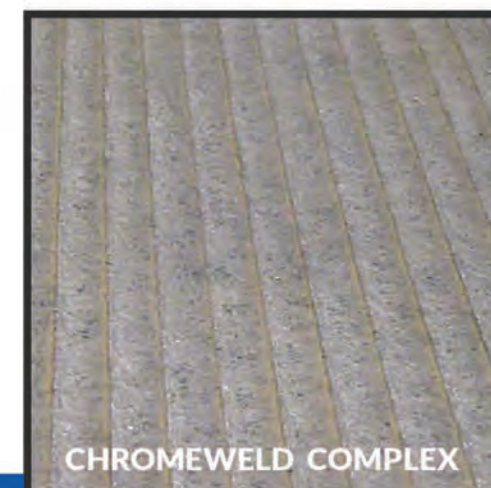
CHROME WELD COMPLEX is the ideal extreme heat and abrasion overlay plate consisting of small primary chromium carbides, and secondary Niobium and Vanadium carbides for ultra-demanding conditions.

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

### Standard Plate size is:

90" x 120" (2.29m) X 3.048 m) with bead direction running the length.

90" x 240" (2.29 m X 6.10 m) plates available in certain thicknesses.



TYPICAL CHEMISTRY PERCENTAGE

2 LAYER DEPOSIT

Niobium (Nb)  
 5 - 7

Vanadium (V)  
 1 - 2

Carbon (C)  
 4 - 6

Chromium (Cr)  
 18 - 22

Manganese (Mn)  
 0.5 - 1.5

Silicon (Si)  
 1 - 2

Molybdenum (Mo)  
 4 - 6

Tungsten (W)  
 1 - 3

Iron (Fe)  
 balance

SPECIALY BLENDED  
OVERLAY PLATE TO  
COMBAT IMPACT  
ABRASION



CHROME WELD Ti  
MICROGRAPH @100X



CHROME WELD Ti is a unique overlay plate 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. CHROME WELD Ti has a typical hardness range from 50-60 HRC based on the weld deposit thickness. The surface of the plate is a composite of titanium carbides in high chromium martensitic matrix. The chemistry displays excellent abrasion resistance, all while withstanding heavy impact.

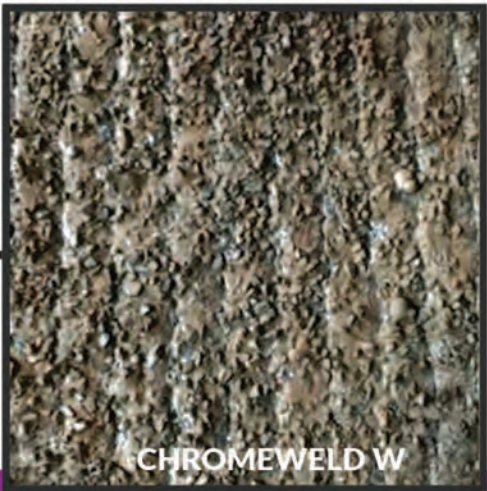
**Standard Plate size is:**  
90" x 120" (2.29m X 3.05m) with bead direction running the length.  
90" x 240" (2.29m X 6.10 m) plates available in certain thicknesses.

|                              |                     |                         |                         |                       |                         |                   |
|------------------------------|---------------------|-------------------------|-------------------------|-----------------------|-------------------------|-------------------|
| Titanium (Ti)<br>6 - 10      | Carbon (C)<br>1 - 2 | Chromium (Cr)<br>5 - 10 | Manganese (Mn)<br>1 - 2 | Silicon (Si)<br>1 - 2 | Molybdenum (M)<br>1 - 2 | Vanadium (V)<br>1 |
| 2 LAYER DEPOSIT              |                     |                         |                         |                       |                         |                   |
| TYPICAL CHEMISTRY PERCENTAGE |                     |                         |                         |                       |                         |                   |



CHROME WELD W is a material designed to withstand your most severe abrasion applications. This overlay plate combines the benefits of our premium CHROME WELD chemistry along with the addition of tungsten carbide deposited throughout the matrix.

CHROME WELD W typical hardness ranges from 70-75 HRC depending upon deposit thickness. The surface of the plate is a composite of tungsten carbide combined with the 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 throughout the matrix.



CHROME WELD W

TUNGSTEN CARBIDE  
OVERLAY PLATE PRODUCED  
TO WITHSTAND THE MOST  
SEVERE ABRASION



|                              |                       |                          |                         |                   |                      |
|------------------------------|-----------------------|--------------------------|-------------------------|-------------------|----------------------|
| TYPICAL CHEMISTRY PERCENTAGE |                       |                          |                         |                   |                      |
| 2 LAYER DEPOSIT              |                       |                          |                         |                   |                      |
| Tungsten (W)<br>35% - 40%    | Carbon (C)<br>4.5 - 6 | Chromium (Cr)<br>25 - 30 | Manganese (Mn)<br>0 - 2 | Silicon (Si)<br>1 | Iron (Fe)<br>balance |



CHROME WELD FLOW is a chromium carbide overlay pipe that is a unique piping system ideal for material movement with high levels of abrasion resistance.

The JADCO process produces a microstructure consisting of a fully austenitic matrix filled with primary carbides. This structure provides outstanding abrasion resistance in the most challenging applications. Standard deposit thickness ranges from 1/8" through 3/8" (3mm through 9.5 mm).

- Diameters are available from 4" to 48" (10.16cm to 121.92cm)
- Hardness 52-56 HRC
- Flanges available per application
- Abrasion Resistant up to 1100°F (593°C)



OPTIMUM PERFORMANCE  
WEAR PIPE

ULTRA SMOOTH SURFACE  
TO ENHANCE MATERIAL  
FLOW



CHROME WELD GLIDE is a Blanchard ground, polished, non-stick surface to reduce material adherence. The low coefficient of friction (.25u typical) allows for reduced sticking, carryback, and dust in a variety of application such as chutes, hoppers, mobile equipment and truck box liners.



CHROME WELD GLIDE

TYPICAL CHEMISTRY PERCENTAGE  
2 LAYER DEPOSIT

|                       |                          |                         |                       |                      |
|-----------------------|--------------------------|-------------------------|-----------------------|----------------------|
| Carbon (C)<br>4.5 - 6 | Chromium (Cr)<br>25 - 30 | Manganese (Mn)<br>0 - 2 | Silicon (Si)<br>0 - 2 | Iron (Fe)<br>balance |
|-----------------------|--------------------------|-------------------------|-----------------------|----------------------|

## 3D CARB FOR EXTREME IMPACT OR ABRASION



# CHROMEWELD™



Ultra Thick 3D Carb for the Most Extreme  
Impact and Abrasion Conditions

CHROMEWELD 3D is an application specific, custom manufactured through thickness hardfacing of components designed to withstand extreme levels of abrasion, impact, as well as thermal fatigue. Components are custom manufactured to address specific extreme wear applications and are delivered ready for installation.

CHROMEWELD 3D is a welded solution, manufactured by a proprietary process to produce through thickness hardfacing up to 4" (100mm).

- Wear resistant blocks produced by automated flood welding
- Reinforced components as a result of the increased volume of wear resistant material and innovative geometry
- Flanges available per application



## HOW DO YOU KNOW WHEN YOUR WEAR STEEL INVESTMENTS ARE WEARING OUT?

NOW, YOU CAN REDUCE DOWNTIME  
WHILE IMPROVING SAFETY!  
GET IMMEDIATE VISUAL FEEDBACK WITH NO  
WIRES OR COMPLEX SOFTWARE...

WELCOME TO  
WEAR MONITORING MADE **VISUAL**

## NEW

ADVANCEMENT  
IN WEAR STEEL  
MONITORING

PRECISION  
ENGINEERED  
AND  
PROFESSIONALLY  
INSTALLED BY



# WEARVUE

WEAR MONITORING  
MADE **VISUAL**

WEARVUE turns wear monitoring into a fast, visual process.

These patented color-coded indicators make wear levels instantly visible. When installed, they reduce downtime, improve safety, and drive smarter maintenance decisions across mining and industrial operations.

## GREEN

Keep running. Everything is in good condition.



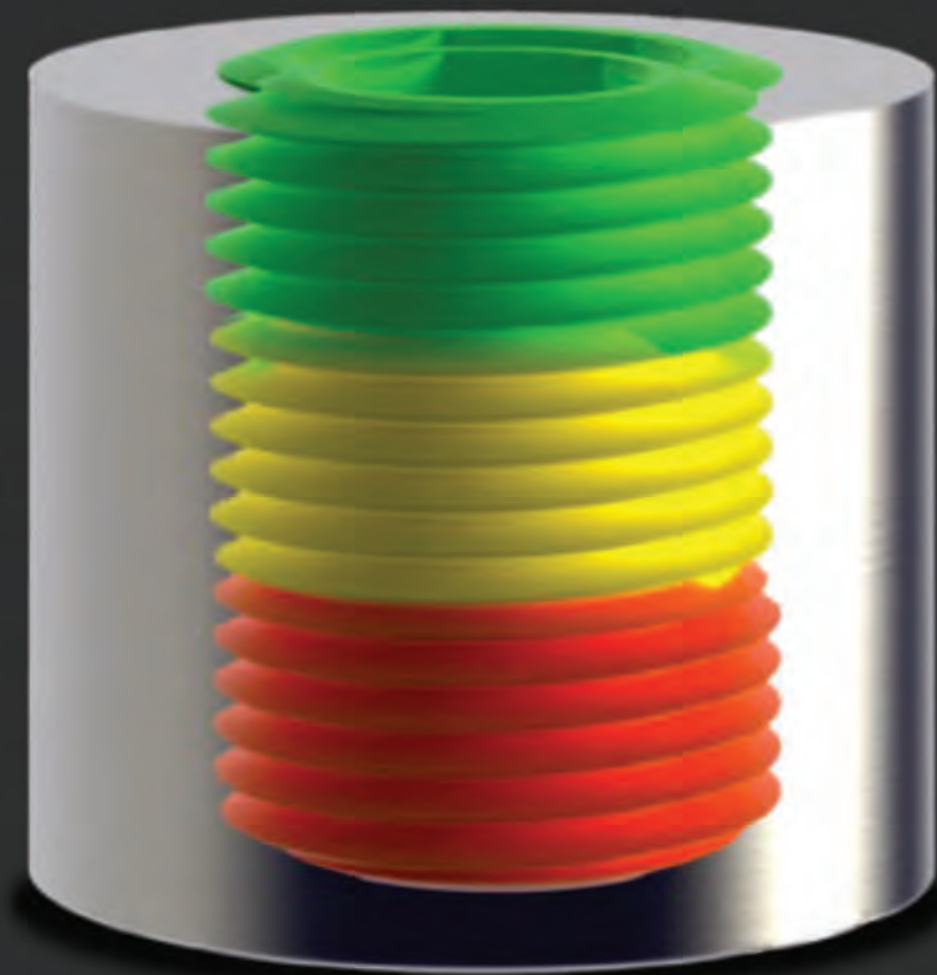
## YELLOW

Plan ahead. You have time, but maintenance should be scheduled.



## RED

Act now. The part is worn out and must be replaced immediately.



## SAFETY

Operators and maintenance teams now have the ability to instantly view the true condition of trucks, tires, buckets, and more, without expensive and unreliable electronics or specialist tools.

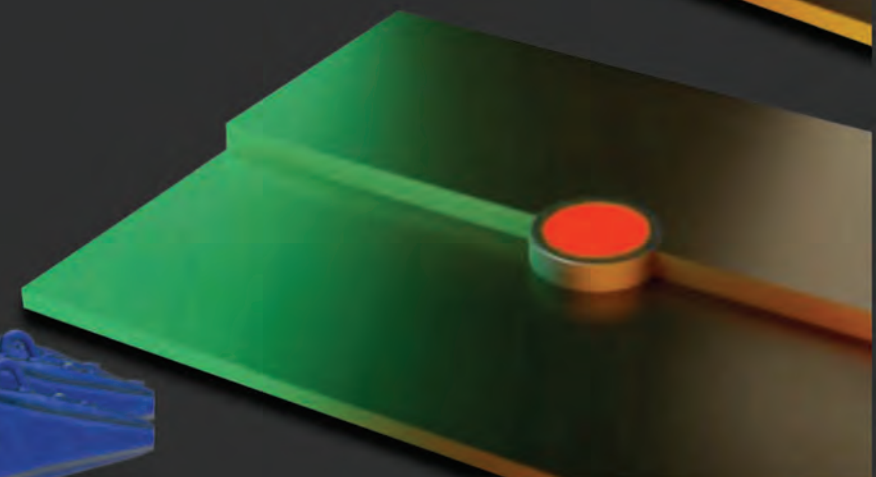
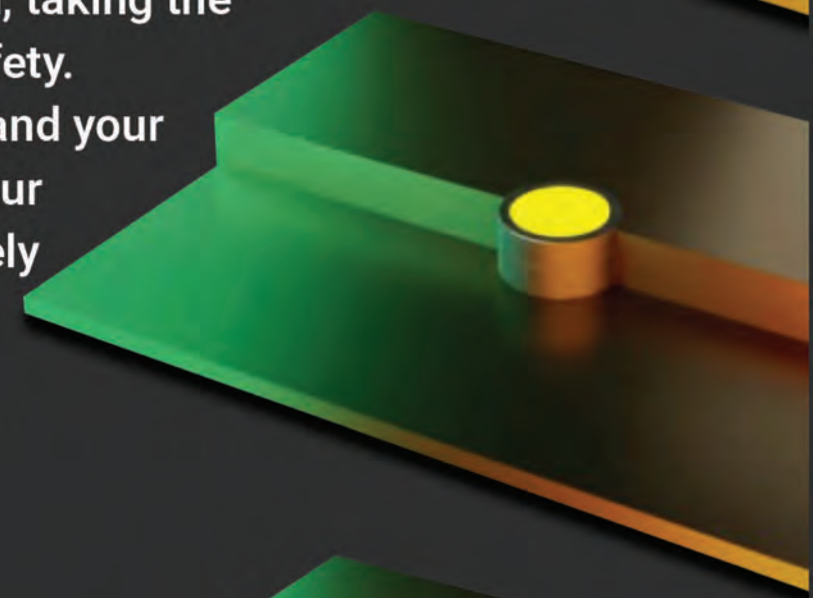
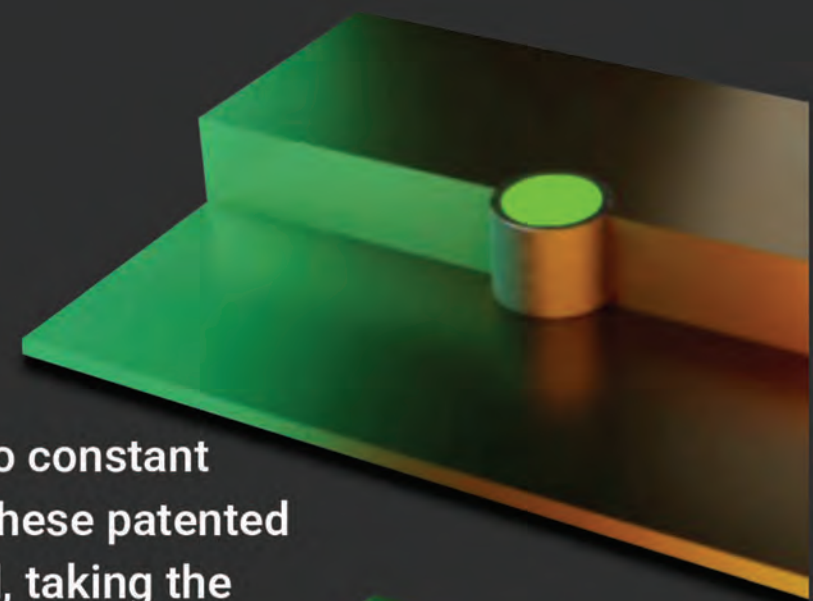
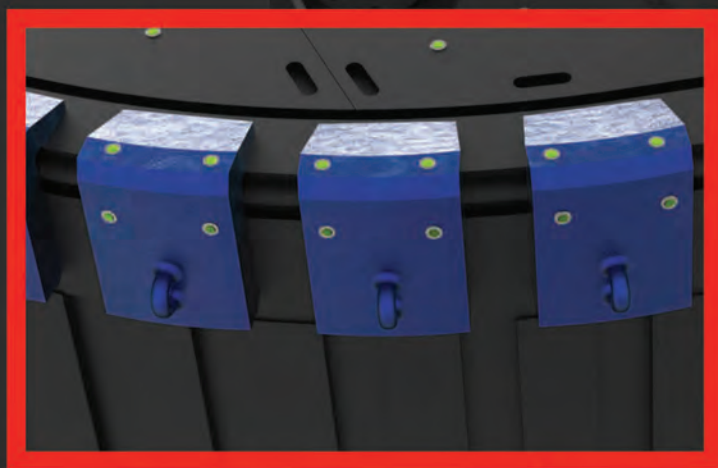
### *No More Dangerous Inspections...*

*Review wear levels from a distance, no climbing required.*

## HOW DOES IT WORK?

As your equipment wears due to constant abrasion and continual abuse, these patented polymer indicators wear as well, taking the guesswork out of industrial safety.

With just a quick glance, you and your team are rest assured that your equipment is being run safely & efficiently, everyday!



**WEARVUE**

**99%**

REDUCTION IN COMPLEX  
EQUIPMENT REQUIRED

**96%**

REDUCTION IN  
INSPECTION TIME

**99%**

INCREASE IN REMOVAL  
OF PEOPLE FROM  
HAZARDOUS ZONES



## THE EVERYDAY REALITY

WEARVUE keeps workers safe, assets productive, and operations running smoothly across mining, construction, and beyond.

*Everyday, industries lose valuable time and money as workers climb into, under, and around haul equipment just to perform routine wear inspections. Each minute of machine downtime means lost productivity, increased labor costs, and reduced operational efficiency.*

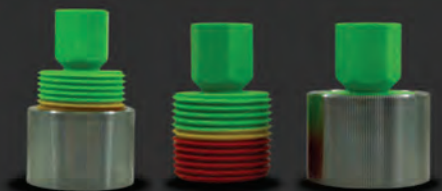
## WANT TO LEARN MORE?

Watch a short video of WEARVUE in action.



## TYPES OF WEARVUE

**HOUSED**  
Best for Haul  
Truck Trays



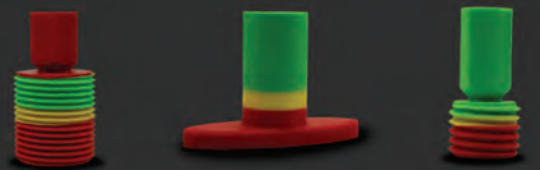
**PLUG**  
Best for Wear Plate &  
Ceramic Liners



**TAPERED**  
Best for Backside  
Installation



**CUSTOM**  
Best for Unique  
Solutions



## JADCO WORKS WITH YOU

The JADCO team of expert's will collaborate and work with you to custom design indicators to suit your specific needs.

All materials, colors, and indicator sizes will be tailored to your equipment, environment, and procurement requirements.

[jadcomfg.com/products/wearvue](http://jadcomfg.com/products/wearvue)

## PREMIUM WELDING WIRE AND ELECTRODES FOR THE TOUGHEST, MOST DEMANDING WEAR CONDITIONS



A complete range of joining and hardfacing welding wires for extreme abrasion and severe impact applications. Each proprietary chemistry of FUSION™ is developed to join or hard face a wide range of steels, including our QT-PLUS® or CHROMEWELD™ wear plate, to combat any wear challenge. Our grades of FUSION™ work well in a variety of markets and industries, including mining, aggregates, paper production and more.



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. (15 kg ) fiber spools
- Standard rod/electrode is provided in 10 lbs (4.53 kg). Vac Pak in 1/8" (3mm) and 5/32" (3.97mm) diameter
- Standard wire options are .045" (1.14mm) and 1/16" (1.59mm) diameter
- Custom diameters are available;  
(Please reach out to your local JADCO Pro to learn more.)

## ULTIMATE ABRASION RESISTANT TUNGSTEN CARBIDE CLADDING



**FLEXWEAR™**  
TUNGSTEN CARBIDE TECHNOLOGY

FLEXWEAR™ is comprised of fine tungsten carbide particles suspended in a nickel matrix that is adhered to high wear components of nearly any geometry. The proprietary "infiltration brazing" process creates a metallurgical bond between the tungsten carbide and the substrate.

The tungsten carbide-filled cladding offers the utmost resistance to abrasion, corrosion and erosion due to the small particles used in the cloth. The typical hardness range of 75 HRC with coating thicknesses ranging between 0.030" to 0.120" (0.762mm to 3.048mm ).



**FLEXWEAR™**  
TUNGSTEN CARBIDE TECHNOLOGY

### BENEFITS:

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

### FEATURE:

- Higher abrasion resistance than chromium carbide overlay

### TYPICAL APPLICATIONS:

- IMPELLERS
- FAN BLADE LINERS
- NOZZLES
- DEBARKING TIPS
- WEAR SLEEVES
- MIXER BLADES
- CONVEYOR FLIGHTS
- CONCRETE PUMPS
- SCRAPER BLADES
- PIPES / ELBOWS



## EXTREME ABRASION RESISTANT CHROME-MOLY WHITE IRON WEAR BLOCKS



### Wear Steel Blocks for the harshest, most abrasive operating conditions.

JADCO HardGuard™ Wear Steel 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. Blocks can be custom designed to your exact application.

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 575°F (300°C).

### TYPICAL APPLICATIONS:

- ADAPTERS & ATTACHMENTS
- BUCKETS
- DISCHARGE CHUTES
- DREDGING EQUIPMENT
- GRIZZLY BARS
- HOPPERS
- ROCK BOXES
- SCREEN-FEED DISTRIBUTION
- SPIDER ARM GUARDS
- SUGARCANE KNIFE EDGES



### WHAT WE INSTALL

### HARDGUARD TYPES:

- CHOCKY BLOCKS
- WEAR BARS/PLATES
- BUTTONS
- DONUTS
- SKIDS
- EDGES



## RAZOR-THIN WEAR PROTECTION FOR SUPERIOR ABRASION RESISTANCE

# RT500

**RAZOR TUFF**  
WEAR STEEL

As a JADCO 500 BHN wear steel, RT500 is intended for applications requiring a combination of high abrasion resistance while maintaining weldability. Available in 1/8" (3mm) or 3/16" (4.76mm) thicknesses, it is produced to achieve a fine-grain and clean microstructure with low levels of non-metallic inclusions.

### SIZE RANGES:

**Size Ranges:** Thickness – 1/8" (3mm) and 3/16" (4.76mm)

Dimensions – 60" (1.524m) width x 120" (3.048m) length

\*Other thicknesses and sizes available upon request.

### MECHANICAL PROPERTIES:

Surface Hardness – 470 BHN to 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.

## IMPACT AND ABRASION RESISTANT PLATE

# JADCO

**400/500**

JADCO AR 400 and AR 500 steels are designed for moderate to high abrasion and impact applications. JADCO 400/500 yields a lengthier service to the end user than a mild steel.

Our JADCO 400/500 is a domestically made-in-America, cost-effective solution, and is recommended when budget constraints are first and foremost in the wear steel decision making process.



DURACORR® 300 CORROSION AND  
ABRASION RESISTANT WEAR PLATE

# Duracorr® 300

DURACORR® 300 is a low carbon, 12% chromium stainless steel produced to a nominal hardness of 300BHN. This corrosion and abrasion resistant wear plate is for applications requiring both abrasion and corrosion resistance. DURACORR 300® is resistant to dents, unlike other stainless steels.



## FABRICATION INFORMATION:

**Cold Forming:** For thicknesses up to 3/4" (19.05mm), a 2T bend radius minimum is recommended for bending perpendicular to the rolling direction. A 3T radius applies in the other direction.

## GENERAL INFORMATION:

**Standard Plate Sizes:** 96" x 240" (2.49m x 6.10 m)  
(widths up to 130" (3.302m) and lengths up to 540" (13.716m)

**Thickness Range:** 3/16" to 2" (4.76mm to 50.8mm) (standard stock size is 1/4" (6.35mm), 3/8" (9.525mm) and 1/2" (12.7mm))

**Hardness:** 260 – 360 BHN

**Charpy Notch:** 15/lbs. (6.8kg) @ -40°F (-40°C)



## TYPICAL APPLICATIONS:

- TRUCK BODY LINERS (SALT INCLUDED)
- QUARRY CHUTES
- COAL PROCESSING

## TYPICAL CHEMISTRY PERCENTAGE

### 2 LAYER DEPOSIT

Carbon (C)  
0.025  
Chromium (Cr)  
11.000 / 12.500

Manganese (Mn)  
1.500  
Nickel (Ni)  
1.000

Phosphorus (P)  
0.040  
Nitrogen (N)  
0.030

Sulfur (S)  
0.015  
Molybdenum (Mo)  
0.200 / 0.350

Silicon (Si)  
0.700

# FABRICATION SOLUTIONS

JADCO HAS DECADES OF EXPERIENCE WORKING ON THE BIGGEST, TOUGHEST MACHINES IN THE WORLD.

## FABRICATIONS OFFERED:

- PRECISION DESIGN
  - 3D Scanning, AutoCad, Solidworks
- FORMING & PLATE ROLLING
- OXYFUEL & HIGH DEF. PLASMA CUTTING
- EXTENSIVE WELDING CAPABILITIES
  - AWS D1.1 Certified
  - R Stamp Certified
- DRILLING & MACHINING
- PAINTING
- ASSEMBLY
- SHIPPING & LOGISTICS



## CASTING AND FORGING SOLUTIONS

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 (13,608 kg). Forgings are available up to several hundred pounds as forges and can be rough-machined or machined complete per specifications.

## AVAILABLE MATERIALS:

- CARBON STEEL
- DUCTILE IRON
- GREY IRON
- LOW ALLOY STEEL
- MANGANESE
- STAINLESS STEEL
- NI-HARD

## CUSTOM OVERLAY



A LEADING WORLDWIDE PRODUCER OF WEAR STEEL

# JADCO PRO-FINDER

SALES REP LOCATOR



FIND YOUR JADCO PRO... VISIT US AT:

**JADCOMFG.COM**

JADCO MANUFACTURING, INC.  
167 EVERGREEN MILL ROAD  
HARMONY, PENNSYLVANIA 16037  
USA

PHONE +1 724.452.5252  
FAX +1 724.452.1318



Made In  
The USA