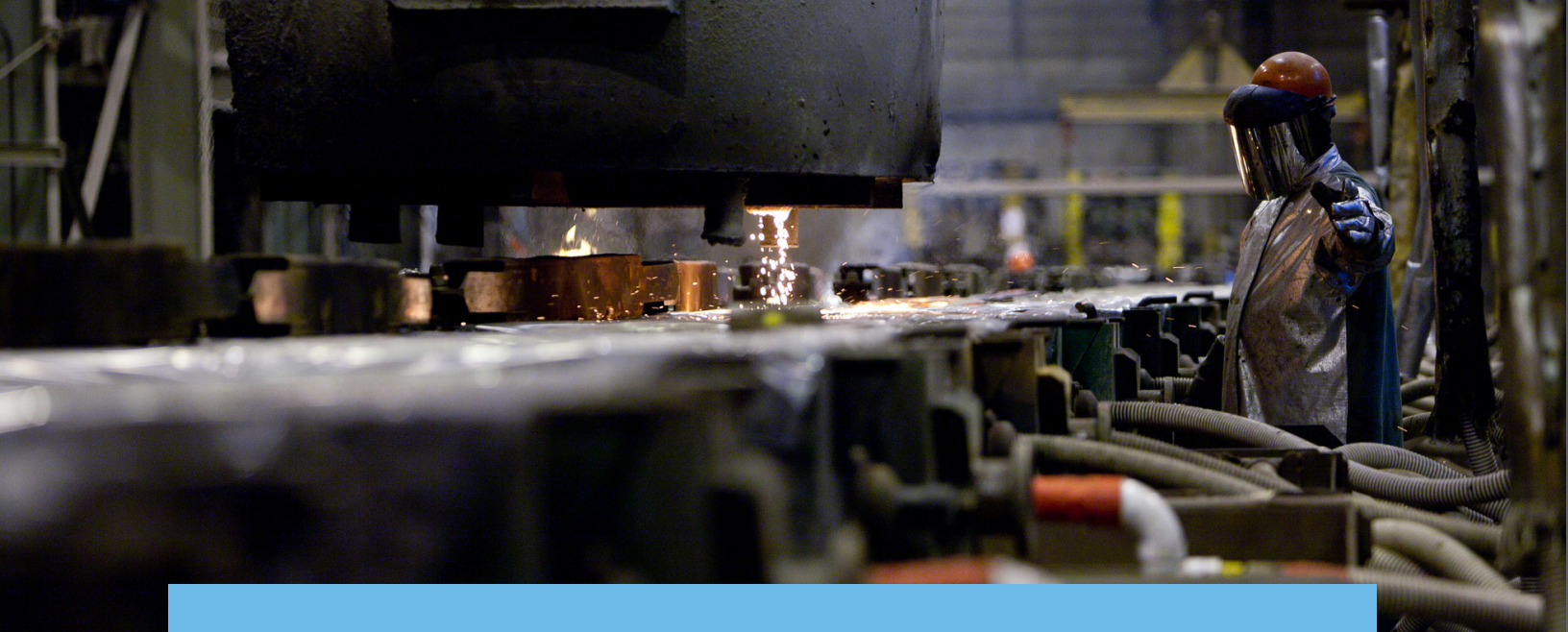


ME FIT CRUSHING





ME FIT CRUSHING

INNOVATIVE SOLUTIONS & PROVEN PERFORMANCE

AT ME ELECMETAL
WE ARE BUILDING
A VISION OF THE
FUTURE...

SEARCHING FOR
IMPROVEMENTS...

AND GROWING
WITH OUR
CUSTOMERS...

ME Elecmetal is the Leading Global Supplier for Total Solutions in the Mineral Processing and Other Target Industries

ME Elecmetal helps mineral processors increase productivity and reduce downtime by developing the most cost-effective products and services.

Future performance of processing equipment depends on decisions made (or not made) at the time of original purchase. ME Elecmetal works closely with end users, engineering firms and manufacturers of grinding mills and crushers to develop optimized liners for their specific needs.

Our products and services include:

- > Grinding mill liners (castings, rubber and composite)
- > Grinding media (SAG, ball and grinding rods)
- > Crusher wear parts
- > Smelter ladles and slag pots
- > 3D laser scanning for wear analysis
- > Reline simulation services
- > 2D/3D simulation services (DEM and FEM)

ME FIT Crushing is ME Elecmetal's way of rising to the challenges posed by the demanding crushing stage. When experience meets technology, the outcome is a total solution such as ME FIT Crushing. "FIT" stands for "**Fully Integrated Technology**", which means ME Elecmetal integrates design, metallurgy, a methodology for working together with customers, a comprehensive product offering and advanced technology services for crusher operators.

DESIGN

Design: The development of geometry and special designs for either concaves, mantles or secondary wear parts is one of the specialties of our Engineering and Design Department.

METALLURGY

Metallurgy: 100 years of metallurgical experience allows ME Elecmetal to offer the broadest and deepest range of alloys for customer wear parts.

METHODOLOGY

Methodology: Our philosophy of VAES (Value-Added Engineering Services) and long-term relationships are key for developing optimized solutions for our customers.

PRODUCTS

Products: ME Elecmetal has experience in providing high-quality wear parts for any type and brand of crushing equipment.

SERVICES

Services: A wide range of technology services, such as ME FIT Crushing, enrich our offerings to crusher operators.



Benefits of Improved Crusher Wear Parts

ME Elecmetal produces the best crusher liners using the optimal blend of ultra-alloys and never taking shortcuts in the heat-treating and quenching processes. Our 100-year history has taught us to make only one type of liner — one with our perfected blends of titanium, aluminum, nickel, chrome, molybdenum and manganese to provide our customers with the optimal wear resistance and liner performance.

How can ME FIT Crusher products benefit your organization?

- > Reduce cost of steel per ton of ore processed
- > Energy and production benefits “downstream”
- > Greater equipment productivity
- > Equipment lasts longer
- > Improve mechanical performance
- > Better steel consumption
- > More stable operating conditions
- > Increase equipment availability

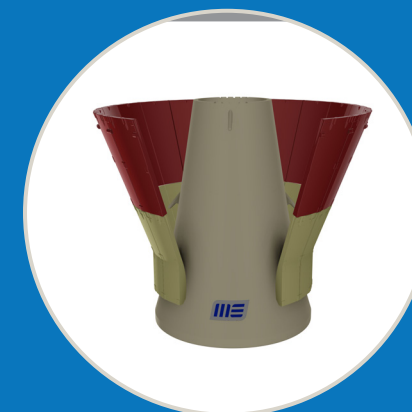


ME Elecmetal Through-Hardened Alloy Concaves Provide Maximum Gyratory Up-Time

Our metallurgists were the first to successfully develop through-hardened alloy steel to replace traditional Hadfield manganese concaves. Our design engineers worked closely with end users to develop the “locking pin” concept to hold in concave segments. We also work with major crusher manufacturers to develop safer lifting techniques for concaves. ME Elecmetal concaves:

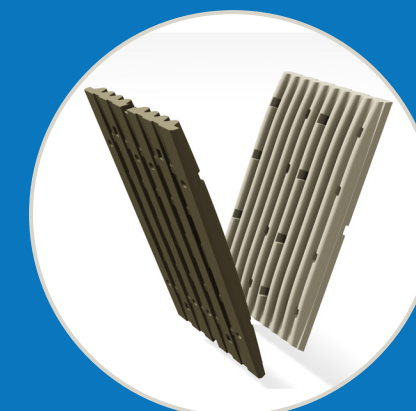
- > Significantly increase wear life
- > Eliminate the need to “scarf” concave joints
- > Require no “key” concave
- > Use locking pins for ease of installation
- > Use drilled and tapped inserts for safe lifting

CRUSHER PRODUCTS AND SERVICES



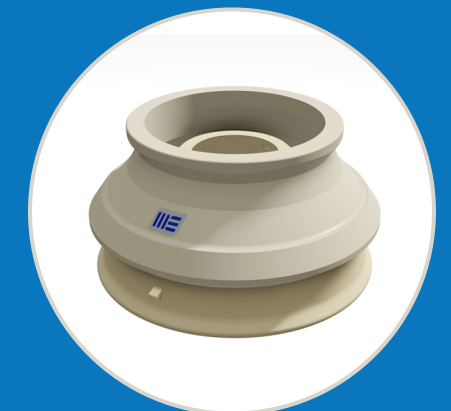
GYRATORY CRUSHERS

- > Through-hardened alloy and Manganese concaves
- > Mantles (one, two and three piece)
- > Under crusher parts
- > Rim liners
- > Spider caps and arm guards
- > Epoxy backing material
- > Optimized crusher profiles
- > Oversize mantle designs for sequencing of mantles
- > Designs optimized for quick installation and removal
- > Change-out forecasting
- > Spare parts inventory management
- > Premium manganese steel in standard and multiple ultra-alloy options



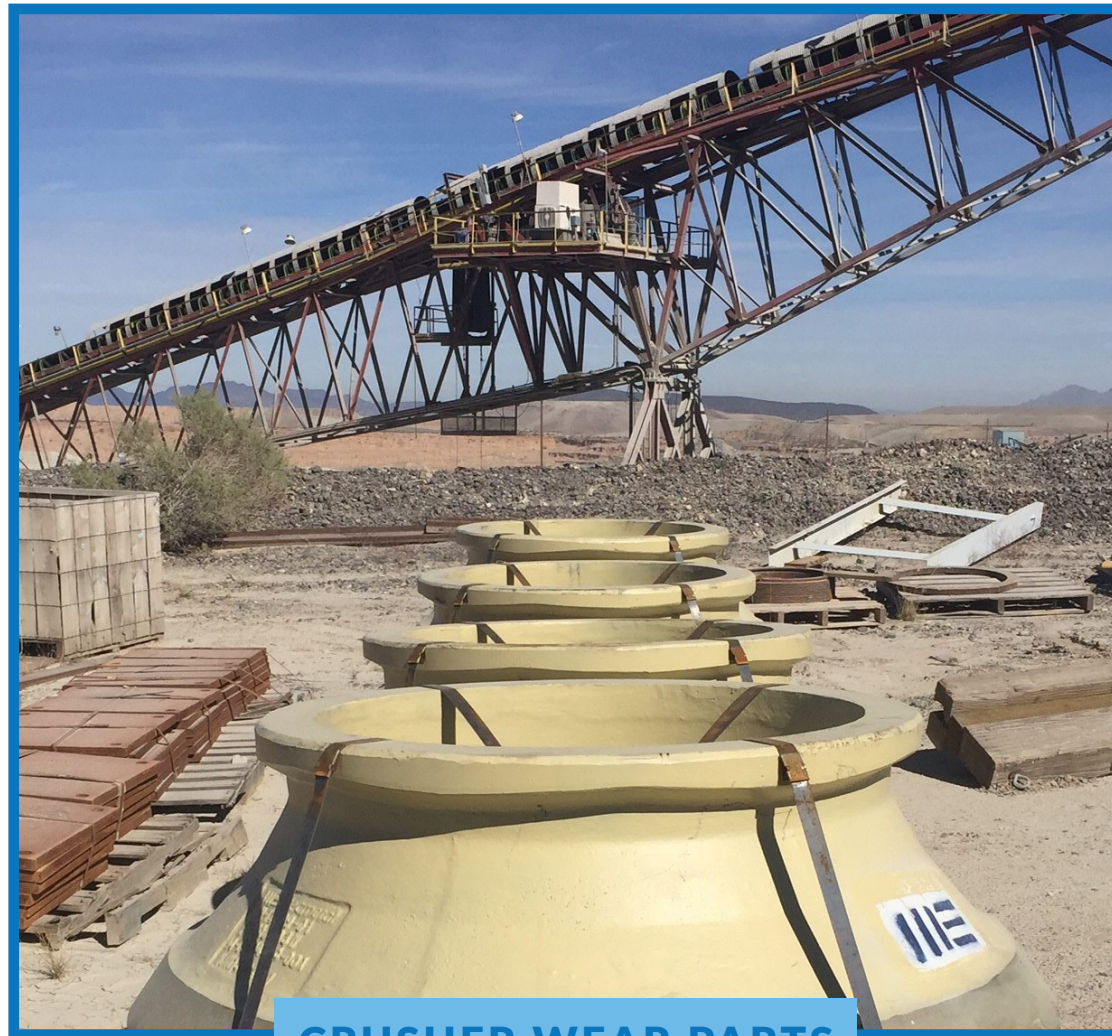
JAW CRUSHERS

- > Jaw plates
- > Side plates
- > Wedges
- > Full range of tooth styles
- > Optimized jaw tooth profiles
- > Premium manganese steel in standard and multiple ultra-alloy options



CONE CRUSHERS

- > Bowls
- > Mantles
- > Torching ring
- > Epoxy backing material
- > Optimized cone cavity profiles
- > Premium manganese steel in standard and multiple ultra-alloy options



CRUSHER WEAR PARTS

Wear components for crushing processes are subjected to severe impact and high abrasion, requiring solutions made from high-strength and abrasion-resistant alloys.

ME Elecmetal is the leader in offering wear solutions to crusher operators. We provide wear parts for primary, secondary and tertiary crushing applications for the mining and aggregate industries with optimal designs and alloys specifically developed for each application.

We increase crusher availability and throughput by developing:

- > Top-quality wear materials resulting in increased wear life
- > Ideal crushing profiles through optimized liner designs
- > Designs and tools for safe and efficient concave change out

Crushing is one of the most demanding stages in the ore comminution process, putting equipment and parts to the test. It calls for knowledge of operation, strength, durability...

It calls for ME FIT Crushing

Experience Matters!

With over 100 years of experience and expertise, ME Elecmetal has always been an innovative supplier. We offer:

- > A focus on lowest cost of ownership, higher production and wear life goals
- > Reverse engineering service and optimization with laser scanning capabilities
- > Custom designs to maximize the wear life of your equipment
- > Consulting, evaluations and recommendations on processes, products, logistics and manufacturing
- > A dedication to quality, service and innovation our customers have come to expect
- > A proven and dependable brand in the aggregate crushing and recycling business



DULUTH, MN



TEMPE, AZ



www.me-elecmetal.com



ME Elecmetal

3901 University Ave NE
Minneapolis, MN 55421

480-730-7500