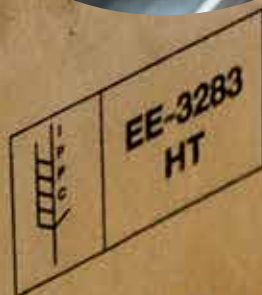


Metso OEM spare parts

Spare parts for crushers, screens  
and feeders



Perfect fit  
for your  
needs





We help our customers increase profits, improve operational efficiency and reduce risks by utilizing our unique knowledge, experienced people and innovative solutions to build new ways of growing together.

## Crushing and screening

### Improving competitiveness through better cost efficiency

#### Your aims

**Production efficiency** - You want to get full potential from the machinery installed in your plant.

**Availability** - You expect to count on the right parts being available when and where you need them.

**Reduced OPEX** - You aim to reduce your operating expenses with shorter service periods and reduced unplanned stoppages.


**Safety** - You strive to avoid all accidents.

#### Your challenges

- To ensure you get the best parts to utilize the potential of your equipment without sacrificing durability or resale value.
- To find a partner who can deliver parts when you need them.
- To get support and parts for your equipment during its lifetime.
- To make sure parts work in a way conducive to a safe working environment.

An effective comminution process is a key element to improving the profitability of your operation





Production problems and safety issues are a direct result of using non OEM replacement parts to save money in the short term

# A comprehensive parts and service offering

From Metso you can get the right combination of spare and wear parts, equipment optimization, upgrades and other services. We help you improve your efficiency and profitability.



## One stop shop

Achieve lowest sustainable cost and increase efficiency by taking a holistic approach to your crushing and screening circuit.

- Original wear and spare parts
- Wear parts fastening kit
- Conversion and upgrade kits
- Expert services
- Optimization services
- Long-term services contracts



## Suited for all models

We have the world's widest range of crushing and screening machinery allowing you to get OEM spare parts for all these models.

- Gyratory, cone and jaw crushers
- Horizontal and vertical impactors
- Mobile and portable plants
- Screens and feeders



See pages 8 to 13

## Spare parts kits

Whether you purchased your machine yesterday or three decades ago, Metso brings you the latest technology.

- Our wear parts fastening kits are economical and provide efficiency and convenience ensuring maximum production
- Upgrade kits bring the safety and productivity of our recent models to your older equipment







## Expert services

Count on our deep process know-how, technology and service capabilities to increase the performance and reliability of your operation.

- Audit and inspection services
- Supervisory services
- Condition analysis
- Maintenance planning
- Onsite maintenance, installations and upgrades
- Offsite repairs and refurbishments
- Parts optimization, logistics and disposal



## Optimize your process

With our technical knowledge, experienced people and specialized tools we can maximize profitability of your crushing and screening operation often with minimal or no capital expenditures.

- Greenfield design
- Ore characterization
- Plant ramp-up services
- Comminution circuit optimization
- Equipment optimization
- Brownfield expansion



## Committed to your results

Maximize your plant availability on a sustainable basis through long-term service commitments.

- Cost per ton agreements - your goals are our goals
- Fixed monthly fee - transferring CAPEX to OPEX to allow predictable costs
- Equipment Protection Plan - extended warranty



Our global distribution network ensures that parts are readily available when and where you need them

# OEM parts keep your equipment working at peak performance and maximize its lifetime

Original equipment replacement parts ensure proper fit, form and function to reduce maintenance problems. If your equipment fails, productivity of your entire plant is at risk. To avoid such losses, you have to be sure critical replacement parts are readily available when you need them.

## Why choose Metso OEM spare parts?

### Complete offering



Through our heritage trademarks, we have over 100 years of equipment experience. Metso is the sole owner of the original drawings and product specifications to previously sold OEM brands.

### Total cost of ownership



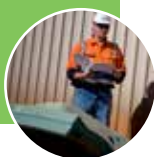
Your equipment is tailored to meet your exact process requirements. Failure of any of its components can mean lost production time. The OEM supplier can ensure the proper part you need.

### Proper fit and function



Metso provides you with parts manufactured to original tolerances and material specifications, allowing you to minimize downtime and maintain efficient operation for the life of your equipment.

### Customer support



Metso can develop a lifecycle plan to identify parts imperative to your operation. Using a forecast based on your actual consumption rates, we can prepare a recommended parts list tailored to your needs.

### Product availability



With 150 strategically located distribution centers world-wide, our parts are readily available when you need them. Metso parts help maximize your production time and minimize your costs.

### Health and safety



Metso experts continually analyze the properties of different materials. The resulting research provides a solid foundation to the production of parts that meet the highest quality and safety standards.





# Gyrotory crushers

Metso is the industry leader in manufacturing gyrotory crushers with over sixty years of experience. We continually improve our crushers with upgrades and new developments while supporting and perfecting all models in service.

## Main components

**Shells and spider** - Casted at some of the most advanced foundries in operation today. Combined with modern day FEA (Finite Element Analysis) and high quality standards, today's shells and spiders are prepared for years of service.

**Mainshaft** - Made from a single piece forging ensures that the shaft has the strength needed to process any ore.

**Eccentrics** - Exacting tolerances and having the correct bushing will impart the best motion on your mainshaft.

**MPS** - A single piece casting to ensure strength and longevity to keep your mainshaft in the proper position.

## Available upgrades

- Arched spider
- Hydraulic shell separators
- Hydraulic nuts for spider joint
- Manganese spider bushing
- MPS balance cylinder
- Mk I to Mk II conversions

## Common components

**Spider bushing** - Made of alloyed cast iron or manganese bronze, the spider bushing fully supports the mainshaft's gyrations. Multiple throws are available for different eccentric throws.

**Bottom shell bushing** - The bottom shell hub bore and creates the bearing surface for the eccentric to rotate in.

**Pinion and gear** - Produced using exacting standards and with the most advanced techniques means years of quality service life.

**Step bearings** - With built in patented technology, these components are proven to provide the best service.

## Heritage brands

- Allis Chalmers
- Babbitless
- Svedala
- Faço
- Boliden Allis
- Allis Mineral Systems



## Benefits

- Backwards compatibility
- Parts for old models with new developments incorporated
- No other supplier knows your crusher better than the OEM
- More than 60 years of proven experience and know-how in primary crushers





# Cone crushers

Introduced to the market at the beginning of the 20th century, mining and aggregate producers rely on Metso cone crusher efficiencies to process huge volumes of quality materials.

## Main components

**Frames** - Modern day technology and pattern making guarantee our frames are casted correctly, ensuring the engineered integrity remains and provides years of trouble-free service.

**Mainshaft** - Only forgings that meet our exacting requirements are used.

**Eccentrics** - Using state-of-the-art foundries and machine shops ensure that your eccentric will give you the service you require. Whether sleeved or gray iron, your eccentric will have the best finish to provide smooth operation.

**Heads** - Designed to provide trouble-free service while being able to withstand the crushing forces needed to crush the hardest rock and ore. When lined with Metso mantles, you can be sure all the forces are being used efficiently.

## Common components

**Bushings** - Made from highest quality lead or aluminum casted bronze, precision machined to fit and perform flawlessly in your machine.

**Pinions and gears** - Whether straight tooth or spiral bevel, our pinions and gears are made to take the horsepower to deliver to most efficient transfer of power in the industry.

**Pinionshafts and countershafts** - Highly engineered and produced to reduce the stresses seen in other forgings, our shafts can take and deliver the power needed.

**Adjustment rings and bowls** - While highly engineered, our adjustment rings and bowls are made to exceed the forces generated by crushing your rock or ore.

## Available upgrades

- Spare parts packages
- Full automation
- Speed and gradation improvements
- Hydraulic package upgrades
- Clamping ring / cylinder packages

## Heritage brands

- Nordberg HP, MP and GP series
- Symons
- Omnicone
- Allis Chalmers
- Gyradisc
- Kueken
- WF series

## Benefits

- No reverse engineered parts
- Eliminates risk that the replaced part becomes the weak point in your crusher
- Stable production without unexpected downtime



# Jaw crushers

Engineered for the toughest feed materials, our jaw crushers are everywhere. Thanks to their robust construction, you can rely on Metso's jaw crushers to be the backbone of the most demanding applications.

## Main components

**Frames** - Rolled steel panels that are pinned, bolted and field replaceable. No welds means no stress risers.

**Eccentric shaft** - A precision forging that allows the truest motion of the pitman to nip the material in between the dies.

**Bearings** - Oversized crusher duty bearings will ensure that your C series jaw crushers performs at its best every time you start it.

## Wear parts fastening kit

- Hammer, screws, springs etc
- Fastening items
- Wedges

## Available upgrades

- Active setting control (smaller units)
- Hydraulic setting adjustment
- Automatic grease lubrication
- Integral motor mounting

## Heritage brands

- Goodwin Barsby
- Allis Chalmers
- Nordberg
- Hewitt Robins
- Missouri Rogers
- Bergeaud
- Lokomo
- Kue-Ken
- Svedala
- Loro & Parasini
- Neyrtec
- Faço



## Benefits

- Dependability of long service
- Cost efficiency with reduced downtimes
- Protected investment and profits with genuine parts





# Impactors

Metso's horizontal and vertical impactors are known for their versatility and high productivity. And after 40 years in service, our machines keep producing high quality materials in quarries and mines worldwide.

## Main components

**Frames** - Barmac B series uses a rolled frame. The NP series impactor is casted and is fully lined.

**Rotor** - The NP series rotor is heavy duty, offering a unique blow bar retention system that eases maintenance. The Barmac B series rotor can be customized to suit your particular processes needs.

## Common components

**Automation capable** - Metso impactors can be automated to control the crusher to maximize production and monitor crusher operating parameters.

**Automatic lubrication** - The implementation of this system can reduce daily maintenance, keeping the bearings and shaft ready to go.

## Wear parts fastening kit

- Blow bar fastening package (NP)

## Available upgrades

- Rotor refurbishment
- Rotor exchange programs for Barmac series
- Gradation improvements
- Process control
- Third breaker plate (only on new generation NP series - NP13 & NP15)

## Heritage brands

- Missouri Rogers
- Kue-Ken
- Allis Chalmers
- Hewitt Robins
- Svedala
- Nordberg



## Benefits

- Better process control
- Stable production pace when processing rock, sand, gravel or recycled materials
- Ease of maintenance and reliability



# Mobile and portable plants

Mobile crushing plants are increasingly more common nowadays. From early single unit trailers to industry advancing track mounted behemoths, Metso has been providing mobile crushing and screening plants for decades.

## Main components

**Chassis** - Steel beams and welded, our chassis' are the backbone to every mobile crushing and screening plant Metso designs.

**Engine** - Capable of providing all power requirement for the unit. Fuel efficient with TIER emission control.

**Energy management** - Sophisticated plant process automation controls the engine, hydraulics and power transmission for the best output your plant can produce.

**Safety** - Single button interlocking start up and shutdown. Units have proper stairs and platforms, required safety wires and E-stops.

## Available upgrades

- Spare parts packages
- Full IC automation/ Lokolink
- Fleet management tools

## Consumable spares

Our tailor-made consumable spares packages include commonly replaced parts such as filters, V-belts and rollers. Our product specialists can provide parts kits based on serial numbers to fit your specific machine. This leads to safer maintenance, reduced costs and less downtime.

## Heritage brands

- Nordwheeler
- Nordberg
- Allis Chalmers
- Boliden Allis
- Allis Mineral Systems
- City Crusher



## Benefits

- All parts are engineered to exactly match the original project
- Maximum performance
- Improved reliability





# Screens and feeders

The expertise that is designed into our screens and feeders is apparent. Experience, know-how and understanding our customers' needs is what makes our vibrating equipment not only different but better.

## Main components

**Mechanisms** - Made to withstand the rigors of constant high velocity movement. Bearings are the highest quality designed for our industry.

**Shafts and beams** - Made to precise tolerances to ensure they perform start up after start up. Standardized between lines for greater availability.

**Side plates** - Cut from high quality steel plate, side plates provide integral support for screening and feeding.

**Decks** - Reinforced design elements and protected from wear and abrasion ensures long life.

**Cross members** - Replaceable cleat to allow screen media flexibility.

**Feed box and discharge lip** - Large area and lined for maximum protection.

## Available upgrades

- Cartridge mechanism exchange program
- Dust encapsulation
- Spray pipes (rigid or flexible)
- Easily convert deck from standard media to urethane or rubber
- Auto-lubrication
- Isolation frames/ travel truck isolation frame

## Heritage brands

- |                    |                   |
|--------------------|-------------------|
| • Allis Chalmers   | • Babbittless     |
| • Svedala          | • BERGEAUD        |
| • Nordberg         | • CFBK            |
| • Hewitt Robins    | • Dragon          |
| • Missouri Rodgers | • Loro & Parisini |
| • SECO             | • Nerytec         |
| • GFA              | • YERNAUX         |
| • W.S. Tyler       | • Boliden Allis   |
| • Altairac         |                   |



## Benefits

- Extended lifetime
- Improved overall availability
- Maximized performance
- Minimized downtime (by using mechanism exchange program)

A close-up photograph of industrial machinery, likely a crusher or screen. The image shows several large, dark grey metal gears and rollers. The gears have a complex, multi-toothed design. The rollers are cylindrical and appear to be made of a different material, possibly a composite or a different metal. The background is dark and out of focus, emphasizing the mechanical components. A large, semi-transparent teal circle is overlaid on the right side of the image, containing white text.

Metso OEM spare parts improve safety, reliability and productivity of your crushing and screening equipment





# The Metso Way – Making the big difference to our customers

Everything we do is based on deep industry knowledge and expertise that makes the big difference to our customers. Decades of close customer collaboration and adapting to our customers' ever changing needs have transformed us into a knowledge company.



## **Our knowledge**

By providing spare parts manufactured according to original drawings and correct work methods we guarantee the best results for your process and longer machine life.



## **Our people**

Being part of a reputed and world-leading supplier of comminution solutions, we have the experience and collective knowledge to work with you and provide solutions for your unique needs. Our personal commitment is to provide the highest quality product and services.



## **Our solutions**

Metso brings together the strong histories and innovations of all our heritage brands. We offer the best quality equipment, parts, service and complete systems to improve productivity and efficiency.



A solid track record and a trusted brand name combined with leading technology and know-how is the basis of our long-term relationship with main global players in mining and aggregates industries.

Our comprehensive distribution network - composed of more than 150 strategically located distributors - ensures shorter lead times. From the moment you order a part to delivery and installation, our skilled service team provides support. Count on Metso for prompt solutions.

Contact us if you would like to find out more about how we can help you increase your profitability.  
[www.metso.com](http://www.metso.com)



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