Metso’s Mining and Construction Technology is the world’s leading supplier of equipment and complete systems and solutions for rock and minerals processing industries. We serve all industries involved in crushing, screening and the reduction of rock and minerals, including aggregate production, quarrying, mining, minerals processing, construction, civil engineering and recycling.

Metso’s Mining and Construction Technology is a global player in its field with 50 manufacturing plants, more than 150 local sales units, over 200 distributors and a global workforce of 8,500 people.

This document briefly describes the products that we design, manufacture and market under the Nordberg, Lokotrack and Barmac brand names.

Take a closer look at Metso. We are ready to meet your specific requirements, from single crushers to mobile or portable crushing plants, stationary or mobile vibrating equipment, and complete rock processing plants. All supported by a highly efficient after-sales service.

With over 100 years of experience, Metso is at your service - to guarantee you the most profitable operation.

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Efficient jaw and primary gyratory crushers

Nordberg C Series jaw crushers
Metso has installed over 10,000 jaw crushers since the 1920s. Today Nordberg C Series jaw crushers are the world’s leading choice of jaw crusher for heavy-duty use.

Nordberg C Series jaw crushers are available in stationary, portable and mobile applications. They are suitable for all primary crushing needs from quarrying to contracting, and from extremely hard rock to recycling materials.

All C Series jaw crushers have the same main elements: a sturdy, high-quality cast steel pitman combined with a modular frame construction. The state-of-the-art frame has two hot-rolled steel side plates joined to high-quality cast steel frames through robust, precision machined bosses secured with bolts.

The non-welded, pinned and bolted frame construction and compact size provide for excellent transportability and give the C Series excellent flexibility in underground mining applications. The non-welded frame also offers superior reliability and allows higher reduction ratios.

Nordberg C Series crushers are available in 12 models with capacities ranging from 40 to 1225 mtp (45 - 1350 stph).

Nordberg SUPERIOR® primary gyratory crushers
Metso offers a complete range of primary gyratory crushers to meet every application requirement. Standard features of the Nordberg SUPERIOR® include a dual counter balance arrangement that minimizes the dynamic forces transmitted to your supporting structure. This means all Metso gyratory crushers are suitable for any type of installation: stationary, semi-mobile or mobile.

World patented features include the large diameter upper journal main shaft with a replaceable alloy steel threaded main shaft sleeve. Nordberg SUPERIOR® is designed to provide maximum strength for the continuous impact forces and stresses associated with crushing and to give full protection against main shaft damage, thereby eliminating costly repair or replacement.

The hydraulically operated and controlled system provides quick and easy adjustment of the main shaft/mantle to compensate for wear and to maintain the required setting. A main shaft position indicator system is included which can be regulated independently or through any PLC system.

Nordberg SUPERIOR® primary gyratory crushers are available in six models with capacities ranging from 1635 to 7605 mtp (1800 - 8385 stph).
Proven cones for aggregates production and mining

**Nordberg GP Series cone crushers**
Nordberg GP Series cone crushers are specially engineered to suit all secondary, tertiary and quaternary crushing applications in both stationary and mobile installations.

The GP Series crushers offer several crushing cavities in the same heavy duty frame structure to ensure full process adaptability. Reliable operation is guaranteed by the simple, floating shaft concept. The large feed opening helps to achieve full crushing capacity.

Nordberg GP Series crushers are easily automated using the IC50 automation device.

Available in ten basic models and almost 30 different cavities with capacities from 35 to 1000 mtph (40 - 1100 stph).

**Nordberg HP Series cone crushers**
Nordberg HP Series cone crushers offer a unique combination of crusher speed, throw and cavity design. This combination has proved revolutionary in providing higher capacity, superior product quality and suitability for a wider range of applications.

Nordberg HP cone crushers are engineered to suit secondary, tertiary or quaternary crushing applications in both stationary and mobile installations. Based upon Metso's long experience with Symons and Omnicone cones, they incorporate modern features like hydraulic setting adjustment, tramp release and cavity clearing.

Available in six models with capacities from 45 to 1000 mtph (50 - 1100 stph).

**Nordberg MP® Series cone crushers**
Nordberg MP® Series cone crushers offer unmatched performance in mining applications. Designed for ease of maintenance and high availability, these high-yield cone crushers deliver maximum performance at the lowest possible cost per ton. Long-lasting wear cavities can be replaced in three hours or less, giving the end user more hours for production.

Metso's recent advances in crusher automation and diagnostic control ensure that every MP® Series cone crusher provides maximum return on your comminution investment. Compact yet rugged, they offer superior ability to continuously operate at full load power and with high mechanical availability.

Available in two models with capacities from 500 to 2500 mtph (550 - 2750 stph).
Impact crushers for stationary and mobile applications

**Nordberg NP Series impact crushers**
Nordberg NP Series impact crushers are based upon more than 40 years of experience with the impact method. We offer a complete range of impact crushers for stationary, semi-mobile fully mobile applications in both primary and secondary crushing.

The NP Series crushers provide excellent end product cubicity when crushing aggregates and recycling materials. This is guaranteed by the optimal combination of operating speed, crushing chamber design and setting. High rotor inertia produces exceptionally high capacities.

The heavy duty structure of the crusher frame, breaker plates, shaft and bearings allows for the use of very small settings (css). This makes it possible to crush efficiently in different applications and even to produce certain end product sizes in one crushing stage.

Nordberg NP Series impact crushers are easy to service. Hammers can be easily locked by wedges, and the same hammers can be used for both primary and secondary crushing.

Available in 10 models with capacities from 80 to 2000 mtph (90 - 2200 stph).

**Barmac B and VI Series vertical shaft impact crushers**
Metso manufactures two complete vertical shaft impact (VSI) crusher lines for secondary, tertiary and quaternary crushing. The Barmac B Series VSI crusher is based on rock-on-rock-technology, while the VI Series benefits from shoe and anvil know-how.

Our technology and experience in designing, applying and servicing autogenous VSI crushers in a wide range of applications means we are in a position to offer crushers which meet the market's need for producing increasing quantities of highly cubical materials to required specifications.

The Barmac B Series crusher draws on more than 25 years' experience in VSI development by world leaders in the crushing industry. These crushers are ideal for third or fourth stage processes, designed to crush the complete range of ores, rocks and minerals. The rock-on-rock crushing principle has revolutionized material reduction by providing a crusher that produces excellent reduction at a low operating cost.

Available in eight models with capacities from 3 to 2080 mtph (3 - 2288 stph).

Compared to conventional vertical impact crushers, the Barmac VI Series crushers’ closed rotor design provides a higher reduction ratio with lower wear costs. The VI Series crushers are also designed to minimize maintenance and make all adjustments easier.

Available in four models with capacities from 50 to 700 mtph (55 - 770 stph).

The comprehensive Nordberg NP Series includes impact crushers for primary and secondary crushing, stationary, semi-mobile or fully mobile applications.
Screens for every application

**Nordberg CVB Series screens**
The Nordberg CVB series and inclined single-shaft screens make light work of the sizing of coarse or fine materials. These screens have a rigid steel structure that can withstand extreme fatigue forces as well as reliable, well-balanced mechanisms that will maintain a sustained operation even in the most demanding environments. The MV mechanism creates a steady and efficient vibration.

Available in five models in sizes from 1500 x 4000 mm (5 x 13 ft) to 2630 x 6100 mm (7 x 20 ft) with 1, 2, 3 or 4 decks.

**Nordberg FS Series screens**
The simple, heavy duty design of FS series horizontal screens provides exceptional performance for a wide range of mobile and fixed plant applications. Most components in the modular construction are huck bolted in place. Elliptical motion is provided through 3 shaft lines and 6 modular vibrators MV series.

Available in 10 models in sizes from 1600 x 4900 mm (5 x 16 ft) to 2500 x 6100 mm (8 x 20 ft), with 2 or 3 decks.

**Nordberg TS Series screens**
Offering exceptional performance in secondary or tertiary applications and particularly fine screening, the TS screen series is designed for durability and dependability. The decks have three different slopes with the angle of inclination reducing towards the discharge end. The elliptical motion is created with a single shaft and an MV mechanism located at the top of the screen.

Available in 8 models in sizes from 1530 x 5000 mm (5 x 16 ft) to 2445 x 8200 mm (8 x 27 ft), 2 or 3 decks.

**Nordberg DF Series screens**
Nordberg Duo-Flo series screens are suitable for processing large quantities of materials in applications with less stringent requirements on screening accuracy. Duo-Flo is available in a primary and secondary versions. The screen is composed of three decks, each in two sections.

Available in five models in sizes from 1200 x 1000 mm to 2600 x 1600 mm (9 x 5 ft).

In addition to a wide variety of vibrating equipment, Metso offers first-class Trellex screening media.
Versatile feeder ranges

**Nordberg VF Series feeders**
This new range of feeders is engineered for continuous use in hard and abrasive material applications. The feeder design combines a robust frame and high feeding capacity to yield excellent performance. Incorporating the latest technology, the VF Series feeders utilize the famous Nordberg modular MV Series vibrators.

Available in 5 models in sizes from 1000 x 5200 mm to 2000 x 6600 mm.

**Nordberg TK Series feeders**
Nordberg TK Series feeders are available with a solid pan, screen mesh or grizzly bars. The TK Series has been designed to be compact in size, light in weight, yet well suited for hard rock applications. These vibrating feeders utilize grease lubricated unbalanced vibratory motors to create a linear motion.

The TK Series vibrating feeders can be used for feeding, transporting, scalping and screening materials. Most of them are available with squirrel cage motors or hydraulic drives.

**Nordberg HREF (Eliptex) feeders**
The Nordberg HREF (Eliptex) feeder is built for long-lasting durability. Adjustable grizzly openings and an adjustable deck slope offer great application flexibility.

The extra heavy duty construction gives the necessary strength to cope with the impact of large rocks. Heavy tubular beams, an egg crate construction and extra thick deck plates help resist twisting. This vibrator produces a unique, elliptical motion with both horizontal and vertical components.

Available in 20 models in sizes from 1016 x 4267 mm (40 in x 14 ft) to 2794 x 9144 mm (110 in x 30 ft).

**Nordberg VG scalpers**
The Nordberg series scalpers are used to separate raw materials into 2 or 3 fractions before the primary crushing stage.

The linear motion is created with (2) MV vibrators located in the rear bottom of the scalper.

The combination of improved construction and MV mechanism result on a 6G acceleration for a better scalping performance.

**Nordberg HRBM hydraulic table series feeders**
The HRBM Series are heavy duty table feeders composed of main frame and stable stand on independant rollers for a backward and forward motion.

Generally used in difficult sticky application, HRBM series feeders give very good efficiency results and flexibility, due to adjustable stroke and backward/forward motion.
Complete wet equipment offering

**SW Series double-shaft log washers**
Log washers are used for cleaning gravel and crushed stone containing clay or other contaminations. Nordberg SW Series log washers use a double shaft for a better efficiency in cleaning.

- Available in five models with capacities from 65 - 90 t/h to 220 - 300 t/h.

**SF Series sand traps**
Sand traps are the classic machines for recovery of sand from the discharge water from dewatering screens and cyclone underflows. SF Series sand traps produce high sand recovery (from 100 to 120µ) to increase production with a low running cost.

- Sand traps require only low drive power and are distinguished by operation with a minimum of maintenance and wear.

- Available in five models with sand capacities from 50 - 70 t/h to 150 - 180 t/h.

**Rotating washing barrels**
Metso offers a comprehensive range of rotating washing barrels based on direct current technology. Using our Nordberg washing barrels, it is possible to choose the most suitable process on both considerations technical and economical, with the most suitable size.

- Available in four models.

**Vibrating washing barrels**
This machine is unique as far as the process is concerned. The washing effect is especially effective and suitable notably for processing scalped run of pit or already crushed materials.

- Available in one model.

**DEA bucket wheels**
DEA bucket wheels are used to recover fine sand from the discharge water from dewatering screen or spray water from rinsing screens. DEA produce high sand recovery (150 to 180µ) to increase production with a low running cost due to the low wear and low drive power requirements. DEA can be used too for washing fine materials (sand 6 mm max.).

- Available in three models.
Conveyors for every need

**Nordberg NB Series conveyors**
Nordberg NB Series conveyors meet the requirements for safe, reliable and easy operation and maintenance. They incorporate truss frames that are simple and compact and therefore fast to dismantle, transport and erect.

The head and tail components of the NB Series are delivered fully assembled, ensuring trouble-free operation from start-up. A crowned tail pulley, coupled with a rubber coated head pulley, ensures excellent tracking and increases belt life.

The NB Series is available in four belt widths from 500 to 1200 mm and tapered high span truss lengths from 6 to 10 metres.

**Nordberg TBC, EBC and TEC Series belt conveyors**
Nordberg TBC, EBC and TEC Series belt conveyors are specifically designed for inclusion in mobile, semimobile and modular units and for use in extremely compact static plants, particularly under screening stations.

These compact conveyors are sufficiently rigid for fully assembled delivery, thus fitting in a container when transported. Galvanization is offered as an option.

The conveyors are offered with belt widths from 350 to 1600 mm and spaces between centres every 50 cm up to 14 metres.

**Nordberg CM Series conveyors**
If you’re looking for rugged, dependable, cost-effective conveying solutions from primary crusher to product stockpile, Nordberg CM Series belt conveyors are the answer, both for mobile and stationary crushing systems.

70 years of conveyor design and manufacturing experience is your assurance that Nordberg CM Series belt conveyors have the features and versatility needed for the dynamics of today’s rock crushing industry.

CM Series conveyors are offered with belt widths from 610 to 914 mm (24 - 36 in) and lengths from 12 to 24 metres (40 – 80 ft).

**Nordberg LL Series mobile conveyors**
Nordberg LL Series mobile conveyors are designed to link the Nordberg LT primary mobile crushing unit to further processing stages in mine and quarry operations. These mobile conveyors carry the material crushed by the primary unit directly, or via a field conveyor, to secondary crushing.

LL Series mobile conveyors are able to follow the primary unit as it moves along the quarry face. Their mobility and flexibility mean that production can be quickly resumed after blasting. Replacing dump truck haulage with an LT+LL system can achieve substantial savings in operating costs since conveying is by far the most cost-effective way of transporting materials.

The LL Series conveyors are available in belt widths from 1200 to 1600 mm (48 - 63 in), in lengths from 24 to 36 metres (80 -120 ft) and with capacities from 1000 to 2000 mtph (1100 - 2200 stph).

With over 100 years of manufacturing experience, Metso has delivered tens of thousands of conveyors worldwide.
Original Lokotrack crushing plants

Metso has also pioneered the development of track-mounted, fully mobile crushing plants. Over 20 years ago, Metso was the first manufacturer to start serial production of these tracked, fully mobile units.

The main areas of application for Lokotrack LT Series mobile crushing plants are recycle and hard rock contracting, aggregate production, in-pit crushing and mining, cement production and tunnel crushing.

The proven Lokotrack Series, now available in more than 25 basic models, represents a guaranteed, state-of-the-art commitment to crushing know-how and quality.

There’s an Lokotrack for every crushing process

Whether you are looking for high capacities, good process adaptability, excellent cubicity or efficient recycle crushing, the Lokotrack range can offer you the right mobile crushing plant.

Lokotrack Series track-mounted crushing and screening process. And the whole plant can be moved from site to site on regular trailers.

Lokotrack Series track-mounted crushing plants have a capacity range from 150 to 2000 mtph (160 - 2200 stph).

Lokotrack LT1315 impactor plant offers superior mobility and capacity when crushing medium hard rock like limestone.

Full mobile two- or three-stage crushing and screening processes are becoming popular - Lokotrack LT125 and LT1315C in action.
Easily moveable portable crushing plants

When your crushing contract depends not only on high crushing capacities but also excellent mobility between sites and fast installation, the Nordberg NW Series portable plant is the right solution for you. Its excellent mobility greatly increases opportunities for on-site crushing, which in turn substantially reduces the costs of transporting materials for off-site crushing. Once on site, NW portable plants are ready to work quickly due to their customer focused design and modular construction.

Metso offers portable plants for virtually every application, form coarse to fine crushing, including hard rock, sand and gravel, and recycle. A broad range of conveyor configurations and optional accessories allows you to tailor the NW plant to the requirements of your operation, giving added operational efficiency.

Available in more than 20 models
The Nordberg NW Series is available in more than 20 models, with capacities ranging from 90 to 650 mtph (100 - 715 stph). All NW Series portable plants feature a sturdy but fully mobile frame and an efficient crusher from the proven Nordberg C, GP, HP, NP or Barmac B and VI Series, as well as electrical control and distribution centres, feeders and screens.

A broad range of conveyor configurations and optional accessories allows you to tailor the NW plant to the requirements of your operation, giving added operational efficiency.
Mobile screens from primary to fine screening

**Lokotrack ST Series mobile screens**
Nordberg CV Series mobile screens offer construction and recycling contractors easy to operate, compact and highly reliable screening plants that are able to handle a wide variety of materials. Recycling and processing materials on site minimizes purchase requirements and reduces expensive hauling and tipping costs.

The unique design of the CV Series allows for quick and easy movement of the screening plant from site to site, increasing productivity.

The CV Series is available in two models (CV50 and CV100) with shakerhead areas from 2.1 x 2.3 metres (7 ft 2 in x 7 ft 6 in) to 3.4 x 2.1 metres (11 x 7 ft).

**Lokotrack ST and SW Series mobile screens**
The new series of Lokotrack ST (track mounted) and SW (wheel mounted) mobile screens are designed for high performance and excellent mobility. Their high screening capacity and easy adaptability to different crushing and screening processes mean they are suitable for a wide range of quarrying and contracting applications.

These Lokotrack Series mobile screens incorporate the revolutionary intelligent controlling system. Units are automatically supervised and adjusted by the Intelligent Controller (IC300) for optimum screening results. Continuous control of the feed rate and screen performance maintains maximum screening efficiency.

In addition to the start up and shut down processes, the IC system carefully monitors all key functions and components of the unit to ensure longevity and reliability. These innovative mobile screens may also be linked to and communicate with other Lokotrack mobile screens and mobile crushing plants.

Lokotrack ST Series mobile screens are available in six models (ST272, ST352, ST358, ST458, ST620 and ST620F) with screen deck areas from 2.1 x 3.4 m (7 ft x 11 ft) to 1.8 x 6.0 m (5 ft 11 in x 19 ft 8 in).

Nordberg SW348 mobile screen is available with screen deck area of 2.4 x 1.2 m (8 x 4 ft).

The Lokotrack ST620 track-mounted mobile screen can be easily adapted to different crushing and screening processes.
Metso Mining and Construction Technology designs and supplies complete aggregate crushing and screening systems as part of its world-wide systems engineering organization. We are globally local: everything from plant design, equipment selection and sourcing to manufacturing, installation, commissioning and after-sales support are efficiently coordinated and brought to you locally.

Metso’s productive and highly automated crushing and screening plants are the result of careful evaluation of end user needs and site peculiarities coupled with skilfully designed equipment that meets processing parameters, and a focus on production rates and total operating costs.

Located in Hong Kong, KWP is a stationary plant which produces aggregates at a capacity of 1250 tph.

Huangpi, China, a complete plant.

Comprehensive expertise in complete plants

From concept to completion
All our resources are at your service, from the first plant concept to project completion. At our Minerals Research and Test Center we can document all customer needs from raw materials testing to the analysis of site parameters and flow sheet design. Computerized plant design software provides accurate drawings.

Metso can also provide all the necessary layout designs related to site preparation as well as structural design, supply, erection, plant start-up, crew training and spare & wear parts services.

Whatever your aggregate plant requirements, the global resources of Metso systems engineering will provide the best solutions to your crushing, screening, conveying, automation and environmental control needs.

Qualified project management
The role of your Metso project manager is to ensure the complete success of your turnkey plant. This qualified, experienced engineer has complete unit responsibility over your project and will be able to provide the answers you need every step of the way once your project has been put into action.

With the support of the erection supervisor and the commissioning manager, your project manager ensures delivery, construction and start-up of your plant within the required time frame. He coordinates all of the parties involved in the process and strikes the technical and economic balance required for a successful installation.

MGM – a 500 tph complete plant in South-West France, is equipped with Metso’s crushing and screening equipment.
Pioneering process control

Automation has an increasingly prominent role in the development of modern crushing processes. Working closely with Metso Automation, a specialist in pulp and paper industry automation, Metso is pioneering the development of crusher process control units for complete automated crushing and screening plants.

**Nordberg IC Intelligent Controller Series**

Metso has developed the IC Intelligent Controller Series to guarantee maximum crushing and screening efficiency for unit crushers and mobile crushing and screening plants.

The Nordberg IC Series currently includes the following intelligent controller units:

- IC50 and IC70 for unit crushers
- IC300 for ST Series mobile screens
- IC400, IC500, IC600, IC700, IC800 for LT Series mobile crushing plants

When used with unit crushers, the IC Series guarantees constant choke feed operation, making sure that crushers are driven to their maximum operational limits but within safety margins. It optimizes the liner utilization rate and thus end product quality by promoting inter-particle crushing.

The IC controller also records production information and crusher performance. It gives graphic trending for up to 24 hours of operation, which improves reporting capabilities. Automation makes it possible to perform analyses, take corrective action based on process variations and decrease the need for wear part calibration.

With mobile crushing and screening plants, the IC controls and adjusts all key parameters in the process for optimum results. For example, the IC senses the amount and level of material in the crusher and adjusts the speed of the vibrating feeder accordingly.

The IC system is the mobile plant operator’s best friend. The whole crushing or screening process is started simply by pressing a single button. The interactive IC display gives online status information for all the different process stages.

**Extensive plant automation systems**

Besides crusher automation and process control, Metso offers extensive plant automation systems that provide real-time monitoring and control of all crushing, screening and conveying stages. Supporting online adjustment of all process parameters, these sophisticated automation systems help to maintain 100% production capacity all the time. They also save invaluable time during trouble-shooting, and can be used as a global plant production reporting tool.
From process planning to spare and wear parts

Every Metso product is backed up by a comprehensive, worldwide pre- and after-sales service. No matter where you are, our expert organization is there to support you: from process planning to spare and wear parts and professional service.

Bruno plans your process accurately
Our pre-sales service begins with a detailed analysis of your particular needs. Whether you are looking for a single crusher, a multi-stage process or a complete plant, Metso can advise you on the right solution for cost-effective crushing.

The computerized, PC-compatible Bruno process calculation system has become a proven standard in the crushing industry. Simply enter what rock quality, feed material size and machines you want to use, and Bruno will simulate the expected production capacities and gradation curves.

Spares, wears and service always near you
Metso has a global team of crushing professionals always ready to help you with any after-sales service needs. Spare and wear parts are always near you.

Genuine, high-quality parts give you the assurance of correct metallurgy, precise engineering and full compatibility for trouble free operation. They will also help you produce the quality aggregates that your Metso crushing and screening equipment is designed to produce, providing value for you and your customer.

All Metso foundries are ISO 9001 certified. In the area of environmental management, we follow the ISO 14001 standard.

Metso Certified wear parts supply
Gyratory crushers: Mantles, concave segments.
Cone crushers: mantles and bowl liners, protection cones, arm guides.
Accessories: Fastenings, backing material, tightening wedges, torch rings, clamping nuts.

Prompt shipment of genuine spare parts worldwide is a top priority for Metso after-sales services.
Metso’s Mining and Construction Technology crushing equipment

Our Barmac, Lokotrack, Nordberg and Superior* brand ranges:

**Unit crushers**
- C Series jaw crushers
- Primary gyratory crushers
- GP Series cone crushers
- HP Series cone crushers
- MP Series cone crushers
- NP Series horizontal impact crushers
- VI Series vertical impact crushers
- B Series vertical impact crushers
- Nordberg laboratory crushers
- AC Series air classifiers

**Mobile equipment**
- LT Series mobile crushing plants
- NW Series portable plants

**Complete plants**
- Complete plants for aggregate production
- Complete plants for recycling

*Barmac, Lokotrack, Nordberg and Superior are trademarks owned by Metso and registered in many countries around the world.

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Expect results