

Metso

The original Lokotrack® mobile crushers

Made to perform, built to last



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MIMICO



Aggregates production



Concrete demolition



Asphalt recycling

The original Lokotrack® for contractors and quarries

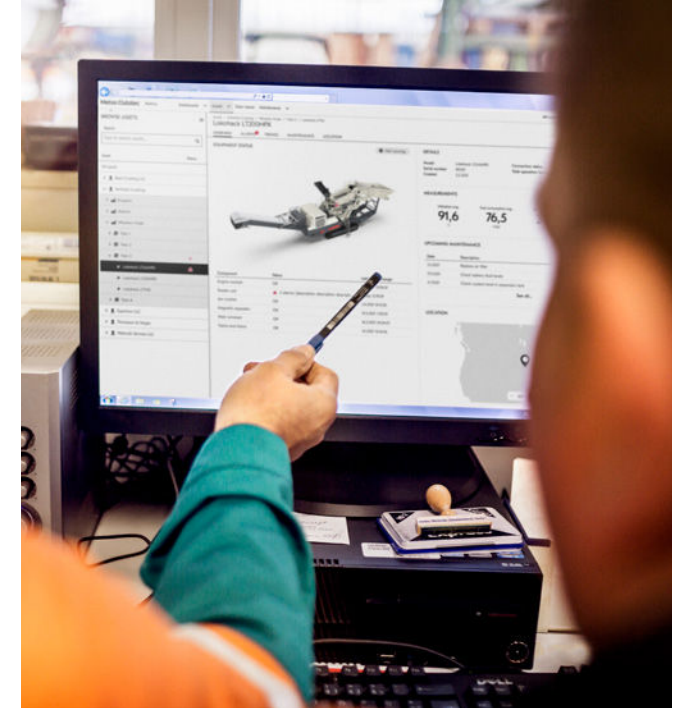
The track-mounted crushers were invented to go where the rocks are. Lokotrack® was originally developed in 1985 for our customer Telamurska to coincide with their first prototype. The idea was to move the crusher on tracks while building a forestry road, instead of the long process of digging out the rocks, transporting them to a quarry for crushing, and then transporting them back as a road base.

Nowadays we offer a wide range of different size and types of mobile crushers for aggregate contractors and quarries. The crusher is moved on tracks where the rocks are - whether it is road building, crushing recycled concrete on building construction site inside a city, or following the quarry wall.

Reliable partner day in, day out

Each Lokotrack® is built to last. Our decades of expertise in aggregates crushing processes means that we can provide our customers with an unparalleled knowledge base. The engineering know-how together with persistent quality testing ensures that each Lokotrack runs reliably day in and day out. The premium-quality components together with modern, low emission diesel engines guarantee that your Lokotrack runs smoothly, efficiently and safely. And with our global service network, the help and parts are there when you need it.





The right crushers for different materials



Combine Lokotracks and optimize multi-stage processes

We offer a wide range of Lokotrack crushers – jaw, impact and cone crushers depending on your feed material and process. Lokotrack products can be easily combined with other Lokotrack units, both mechanically and via their automation, for more efficient operation.

The machines are controlled and optimized with Metso IC process control and optional Remote IC app for optimizing and controlling the entire crushing and screening process directly from the excavator cabin.

Metso Metrics for remote monitoring and maintenance planning

Crushing and screening process and machines can be monitored remotely by our Metso Metrics service. You can see the location of the plants online, as well as review the daily production and status of the machines. This helps you plan the upcoming production and maintenance needs ahead of time. With the ability to order parts and services beforehand, this completely minimizes any unplanned breaks in the production.



Lokotrack jaw crushers

Jaw crushers are designed to crush all rock types, from the hardest granites to abrasive ones and to recycled materials such as demolished concrete. They are utilized as primary crushers that reduce the material to smaller sized for further processing.



Lokotrack cone crushers

Cone crushers are used as secondary, tertiary and quaternary crushers in multi-stage crushing applications such as railway ballast, asphalt and concrete fraction production. Lokotrack cone crushers are often fitted with an integrated screen to produce several calibrated end-products.



Lokotrack impact crushers

Horizontal impact crushers (HIS) have a high reduction ratio and are used especially in recycling applications such as processing concrete, asphalt and demolition waste. They are also a perfect choice for limestone applications. Because of their high reduction ratio, HIS crushers are often used as a standalone unit and for additional calibrated products added with a hanging screen and return conveyor. Vertical shaft impactor (VSI) crushers are efficient in the last stage of the crushing process, producing precisely shaped cubical end products.






Wide range of standard products with variety of options

Lokotracks have standard features such as robust jaw crushers with hydraulic setting adjustment, high performance cone crushers with direct drive, reliable screens with high stroke and accurate separation, easy-to-use IC operating system, radio remote control, energy-efficient power systems with easy service, and embedded safety during operation and maintenance.

Optional features include Remote IC app with the possibility to adjust settings from the excavator, extended feed hopper for the jaw crusher and the scalper, hydraulic rock breaker for the jaw crushers, wide offering of cone crusher cavities and screen meshes to optimize the process, urban options such as high pressure water spraying and dust & noise encapsulation, robust apron feeder and variable screening media for the scalping screens.

Lokotrack® LT product range

	MODEL	WEIGHT	CRUSHER	CRUSHER DRIVE	ENGINE POWER	E-POWER
JAW CRUSHERS	Lokotrack® LT96™	29,000 kg (64,000 lbs)	Nordberg® C96™	Hydraulic	168 kW (225 hp)	
	Lokotrack® LT106™	42,000 kg (93,000 lbs)	Nordberg® C106™	Hydraulic	225 kW (302 hp)	
	Lokotrack® LT116™	50,000 kg (110,000 lbs)	Nordberg® C116™	Hydraulic	310 kW (416 hp)	
	Lokotrack® LT120™	62,600 kg (138,000 lbs)	Nordberg® C120™	Hydraulic	310 kW (416 hp)	
	Lokotrack® LT120E™	66,500 kg (147,000 lbs)	Nordberg® C120™	Electric	310 kW (416 hp)	
	Lokotrack® LT130E™	105,000 kg (230,000 lbs)	Nordberg® C130™	Electric	403 kW (540 hp)	
CONE CRUSHERS	Lokotrack® LT200HP™	32,000 kg (71,000 lbs)	Nordberg® HP200™	Direct	310 kW (416 hp)	
	Lokotrack® LT200HPS™	38,000 kg (84,000 lbs)	Nordberg® HP200™	Hydraulic	310 kW (416 hp)	
	Lokotrack® LT200HPX™	42,500 kg (93,700 lbs)	Nordberg® HP200e™	Direct	310 kW (416 hp)	
	Lokotrack® LT220GP™	38,500 kg (85,000 lbs)	Nordberg® GP220™	Direct	310 kW (416 hp)	
	Lokotrack® LT300HP™	45,000 kg (100,000 lbs)	Nordberg® HP300™	Direct	403 kW (540 hp)	
	Lokotrack® LT300GP™	46,000 kg (101,000 lbs)	Nordberg® GP300S™ / GP330™	Direct	403 kW (540 hp)	
	Lokotrack® LT220D™	47,900 kg (105,600 lbs)	Nordberg® GP220™ / HP200™	Direct	310 kW (416 hp)	
	Lokotrack® LT330D™	71,000kg (156,600 lbs)	Nordberg® GP330™	Electric	563 kW (755 hp)	
IMPACT CRUSHERS	Lokotrack® LT1110™	35,400 kg (78,000 lbs)	Nordberg® NP1110M™	Hydraulic	225 kW (302 hp)	
	Lokotrack® LT1213™	46,000 kg (101,000 lbs)	Nordberg® NP1213M™	Direct	310 kW (416 hp)	
	Lokotrack® LT1213S™	52,300 kg (115,000 lbs)	Nordberg® NP1213M™	Direct	310 kW (416 hp)	
	Lokotrack® LT7150™	30,000 kg (66,100 lbs)	Barmac® B7150M™	Hydraulic	310 kW (416 hp)	

Lokotrack® solutions and applications



Hard rock aggregates

Metso crushers are designed to be strong and durable (especially for hard rock crushing) with decades of expertise. There are several factors to assess in order to select the right solution for hard rock aggregates production:

- **End product:** Material from jaw, quality, product calibration, final number of end products, scalper, size of the screen.
- **Capacity:** Final capacity depends on various things – from size of the units to feed material, whether the material is pre-screened or not, is the process in closed circuit, etc.
- **Feed size:** Jaw crusher max feed size limits the feed material, whereas cone crusher max feed size limits the jaw crusher selection.
- **Transportability:** Size and weight of the machines, whether there is an integrated screen or a removable screen module.



Recycled aggregates

The construction waste typically consist of concrete and iron as well as lighter materials such as wood and insulation. With proper equipment, the concrete waste can be separated from the other materials and crushed to a specific grade, making it a useful construction material known as recycled aggregates.

Unprocessed crushed concrete and slag are particularly suitable for road construction, embankments, foundations and bulk fills. But once screened to clean, fine and coarse aggregates, it lends itself to a variety of uses such as making new concrete (typically 20% or more recycled material) in less demanding applications and good quality asphalt remix.

Optional equipment for Lokotrack crushers for recycling

All Lokotrack crushers and screens can be fitted with optional equipment to make them best suitable for recycled aggregates production, such as

- magnet separators for removing iron from the concrete
- feeder-scalper for handling sticky material,
- Automatic Setting Control for releasing blockages and resetting to the original settings,
- various impactor breaker plates and screen meshes to optimize the process,
- wind shifter for removing light materials,
- robust apron feeder and variable screening media for the scalping screens.



Soft rock aggregates

Soft rock is commonly referred to as a rock with low or medium abrasiveness, e.g. limestone. The most suitable for soft rock crushing are Lokotrack impactors with horizontal shaft impact crushers.

Depending on the capacity and amount of desired end-products, we can recommend different Lokotrack units. Visit Aggregates recommender tool to see which Lokotracks fit your process.

Visit Aggregates recommender online tool and contact your local sales for recommended Lokotrack combinations that suit your process and business.



Learn more



Lokotrack® e-Power hybrid mobile crushers and screens

Metso has committed to limiting global warming to 1.5 °C with our sustainability program Planet Positive. It is our all-encompassing approach on sustainability, which covers the environmental, social and financial aspects. We constantly develop our offering to be more sustainable, focusing on energy efficiency, reducing emissions and increasing safety.

One of our sustainable product ranges are hybrid diesel-electric mobile crushers and screens that we have been manufacturing since the early 1990's. The Lokotrack e-Power hybrid machines are powered by electricity from the grid when it is available, and by a modern, low emission diesel engine out in the wild. Using electricity can save up to 40% in fuel costs, giving you twice the opportunities compared to using only diesel-hydraulic machines. In addition, they are easy to service with commercial electrical components.

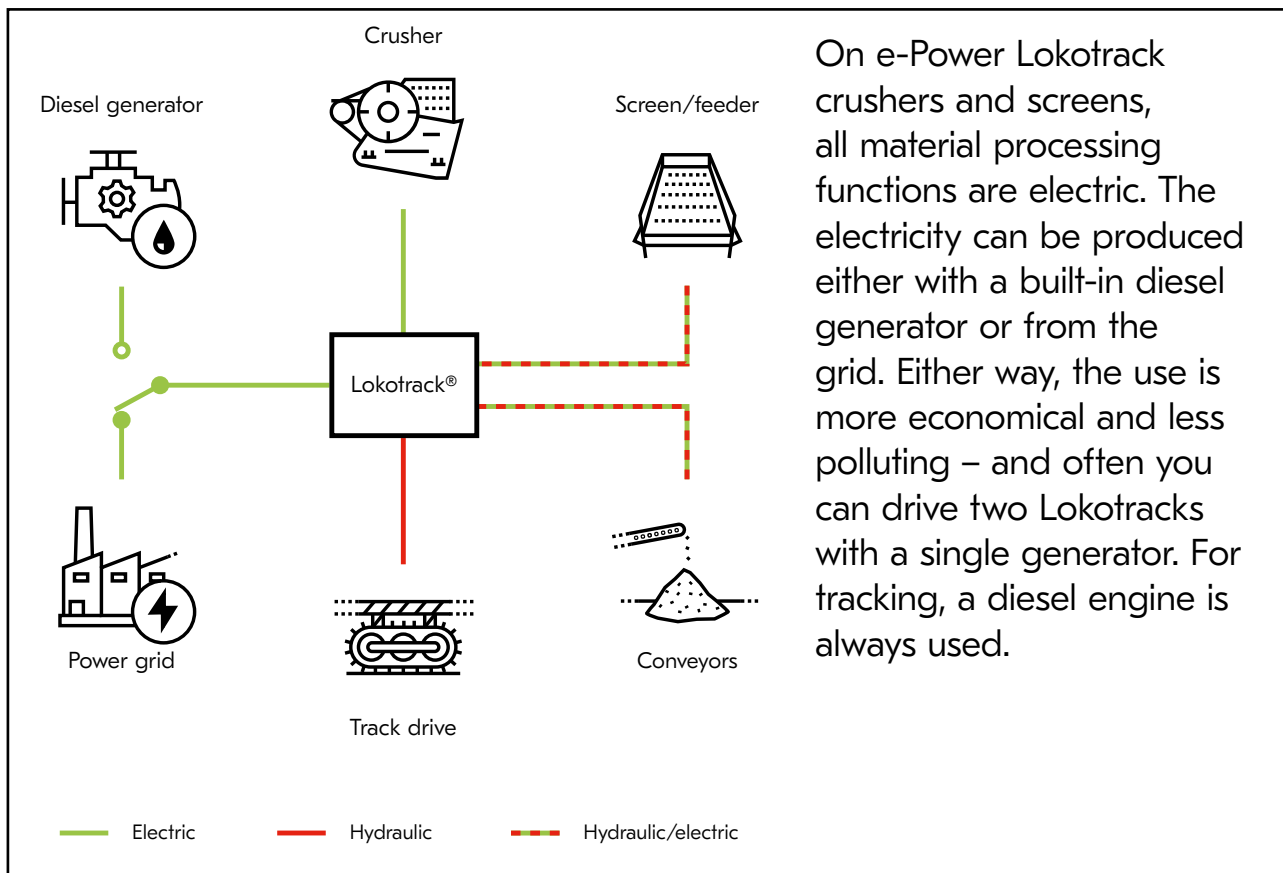
Lokotrack® e-Power range:

Mobile crushers

- Lokotrack® LT120E™ jaw crusher
- Lokotrack® LT130E™ jaw crusher
- Lokotrack® LT330D™ cone crusher

Mobile screens

- Lokotrack® ST2.8E™
- Lokotrack® ST3.8E™
- Lokotrack® ST4.8E™
- Lokotrack® ST4.10E™



Lokotrack e-Power benefits:

- Stable crushing power with electric motor
- Flexibility with selectable power source
- Savings with external grid connection
- Easy speed adjustment with frequency converter
- Power reserve with "oversized" generator
- Easy service and maintenance with commercial electric components and global expertise, service and parts

Technical specifications

	TYPE	WEIGHT	CRUSHER INTAKE/FEED SIZE	CRUSHER DRIVE	CRUSHER MOTOR	DIESEL POWER	GENERATOR	SCREEN SIZE	DECKS
JAW CRUSHERS									
LT120E	Jaw	66.5 t (147,000 lbs)	1,200 x 870 mm (47 x 34")	Electric	160 kW (215 hp)	310 kW (416 hp)	420 kVA		
LT130E	Jaw	105 t (230,000 lbs)	1,300 x 1,000 mm (51 x 39")	Electric	185 kW (248 hp)	403 kW (545 hp)	500 kVA		
CONE CRUSHERS									
LT330D	Cone with screen	71 t (156,600 lbs)	238 mm (9.4")	Electric	315 kW (422 hp)	563 kW (754 hp)	700 kVA	5,500 x 2,000 mm (6 x 18')	3
MOBILE SCREENS									
ST2.8E	Multi-use screen	26 t (57,000 lbs)				100 kW (134 hp)		4,860 x 1,520 mm (5 x 16')	2
ST3.8E	Fine screen	30 t (66,100 lbs)				100 kW (134 hp)		5,480 x 1,520 mm (18' x 5')	2
ST4.8E	Fine screen	32 t (70,500 lbs)				100 kW (134 hp)		5,480 x 1,520 mm (18' x 5')	3
ST4.10E	Fine screen	33 t (72,700 lbs)				100 kW (134 hp)		6,000 x 1,520 mm (20' x 5')	3



Standard parts for aggregates

Without proper parts, equipment cannot function optimally. Reliable crusher wear and spare parts enable stable production without unexpected downtime. We have a wide selection of parts that are available as standard or tailor-made according to your application requirements.

Why choose Metso parts?

Availability: Not only are our parts accessible when you need them, our global distribution network is also there to support you throughout the life cycle of your equipment.

Easy to buy and use: Our equipment has unique designs making it easier to change our parts and components. We help to find the optimal wear liner solution from our standard and specialized offering of wear profiles to best match your application.

Tried and tested: All our spare parts are quality tested to ensure trouble-free operation with a strong warranty to back them up. Our crusher wear parts are expertly designed and manufactured to provide longer wear life and excellent performance for all your Lokotrack crushing equipment.

OEM quality: We apply the strictest standards and tolerances for guaranteed safety and reliability of our parts. Our crusher wear parts are designed to the same specifications as our crushing equipment, ensuring equipment compatibility for reliable and safe operation.



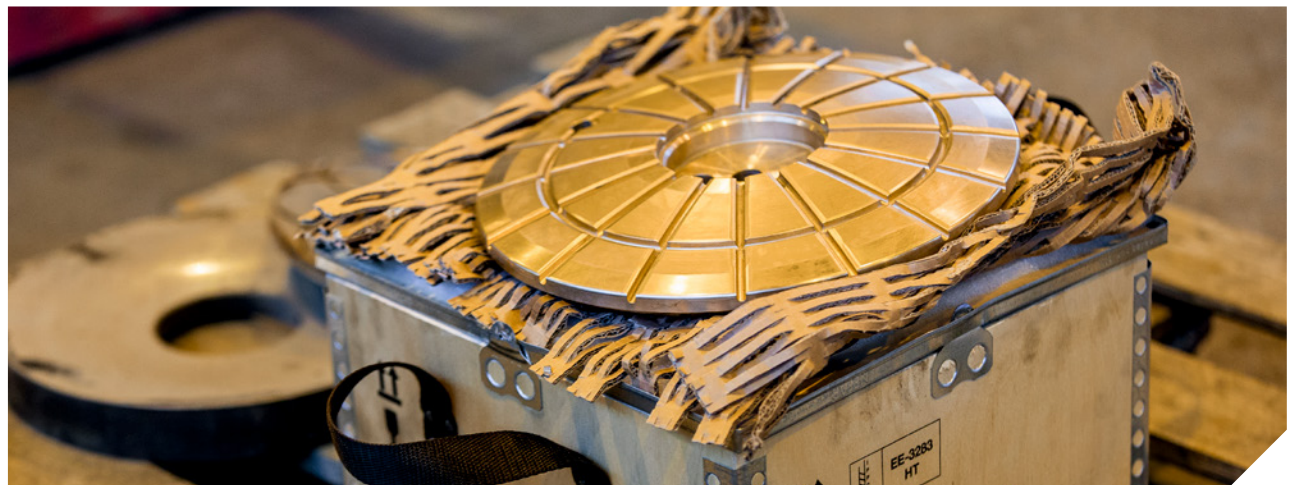
Spare and wear part kits

Easy to order part kits are optimized to match your equipment maintenance intervals and guarantee optimal crushing performance. Specifically designed to fit your crusher and ensure the highest equipment availability. Maintaining your Lokotracks can also help to retain the resale value of your machine and reduce service costs.

- Maintenance kits for scheduled maintenance intervals
- Wear part fastening kits to secure your wear parts
- Part Recommendation lists (RPL's)

Visit the Lokotrack liveroom at live.metso.com

A virtual showroom with 3D product models, services and parts booths.





Equipment Protection Services

As part of Metso's Life Cycle Services for Aggregates, Equipment Protection Services (EPS) can bring you added protection and give confidence in your cost structure by anticipating and minimizing unexpected equipment failures.

EPS is built on three core elements:

- Scheduled inspections and parts recommendations with our certified technicians
- Extended warranty up to 10,000 hours or 5 years for specified major components
- Plan and report maintenance activities for your mobile equipment through our cloud-based Metso Metrics solution

Metso Metrics

With mobile crushers moving frequently between sites it can be difficult to track, monitor and maintain your equipment for maximum performance. Through remote data monitoring, Metrics gives you access to critical insights on your equipment performance and maintenance needs. In addition, optional access to expertise can help you analyze the data with secured access on a PC or tablet.

Our Metrics tool also allows you to keep your costs in check. It helps reduce your inventory costs by mapping out which parts are required for upcoming service events so you can stay on top of your equipment's needs and minimize unnecessary maintenance costs.



With the new Lokotrack, we can crush demolition concrete and asphalt, and produce good volumes of clean grades that meet the customers' needs."

Joona Ahonen, Ahosen Palvelut, Finland



When compared to operating on diesel, the savings are triple or quadruple. The plant is also more reliable because there are far less parts to maintain."

Sigurdur Sigurdsson, Steypustöðin ehf, Iceland

Top-equipped recycling crusher

Ahosen Palvelut in Laukaa, Finland, invested in a top-equipped Lokotrack LT1213S recycling crusher with diesel engine, a wind sifter, a hydraulic magnetic separator, an accurate belt weigh feeder and a convenient remote monitoring system. The first task of this Lokotrack was to crush and sort demolition concrete that was heavily reinforced with steel, in downtown Kuopio. The new LT1213S impact crusher is challenged to make it profitable to crush recycled material on demolition sites all over Finland.

"By selecting a well-equipped machine, we wanted to ensure that we could crush recycled materials profitably and produce clean end products that are small enough to meet our customers' needs."

Electrics for four times the savings

The crushing conditions in Iceland are some of the most demanding in the world. Humid feed can easily coat the surfaces of crushers and screens, and the wind strong enough to quickly sandblast the paint off working machines. Steypustöðin ehf, in its quarry close to Reykjavik, needed not only to have the crushers able to operate without interruption when the weather allows it, but also to become three to four times more cost-effective with electrically operated Lokotracks.

"For us, the most important characteristics of crushing and screening plants are good mobility and reliability. The climate in Iceland being what it is, we can only crush stone when the weather allows it — and when it does, the crushers must operate without interruption."



An electric drive was an essential factor for us when choosing the new equipment since our plant's fine crusher and screen are fully electrically driven."

Jarmo Stenberg, JK Sorajaloste



As far as the long service intervals are concerned, Metso equipment is thoroughly engineered to work hard with minimal maintenance requirements."

Richard Sack, Wagner



Electric power transmission increased savings

JK Sorajaloste, based in Jokioinen, Finland, recently electrified its crushing chain's primary crusher with the acquisition of a Lokotrack® LT120E™ mobile jaw crusher with a diesel-electric drive. Despite crushing hard rock, and even with an exceptionally tight setting of 100 mm, the fuel consumption of the LT120E has not risen much above 20 liters per hour.

"It is certainly cheaper to transmit power electrically than with hydraulic oil. As a domestic manufacturer, Metso was the obvious choice."

Reliable crushing and screening even in Antarctica

Leidos, the prime contractor for the Antarctic Support Contract, chose Lokotrack for its rebuilding project at McMurdo research station in Antarctica. Since the location has the strictest environmental regulations in the world, Leidos needed a dependable yet flexible crushing and screening solution given a long logistics chain with months-long intervals of no service. Lokotracks LT106, LT200HP and ST3.8™ were selected for the job.

"So far, Metso's equipment is getting the job done beyond our expectations."

Metso is a frontrunner in providing sustainable technologies, end-to-end solutions and services for the aggregates, minerals processing and metals refining industries globally. By helping our customers increase their productivity, improve their energy and water efficiency and environmental performance with our process and product expertise, we are the **partner for positive change**.

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