Metso

Lokotrack® Urban™ Series

Solutions for populated environments

Lokotrack Urban mobile crushing plants are available in a wide range of configurations and capacities, including models with an integrated screen unit.

Lokotrack® Urban™ Series

Cleaner, quieter, and more cost effective

The ability to perform crushing in busy, crowded urban environments opens up a world of opportunities for your business — not to mention reducing the cost and effort of bringing in aggregates from distant quarries or transporting waste material off-site for processing. The Lokotrack® Urban™ Series helps you take your business to a whole new level by minimizing the impact on the local population.

No more permit problems
Thanks to its very low noise emissions and advanced dust suppression system, the Lokotrack Urban series lets you run your crushing operations even in the most heavily regulated urban locations, with minimal disturbance to people living and working close by. You'll also be able to meet the environmental requirements set out by authorities and bid for contracts that could not be completed with conventional crushing equipment.

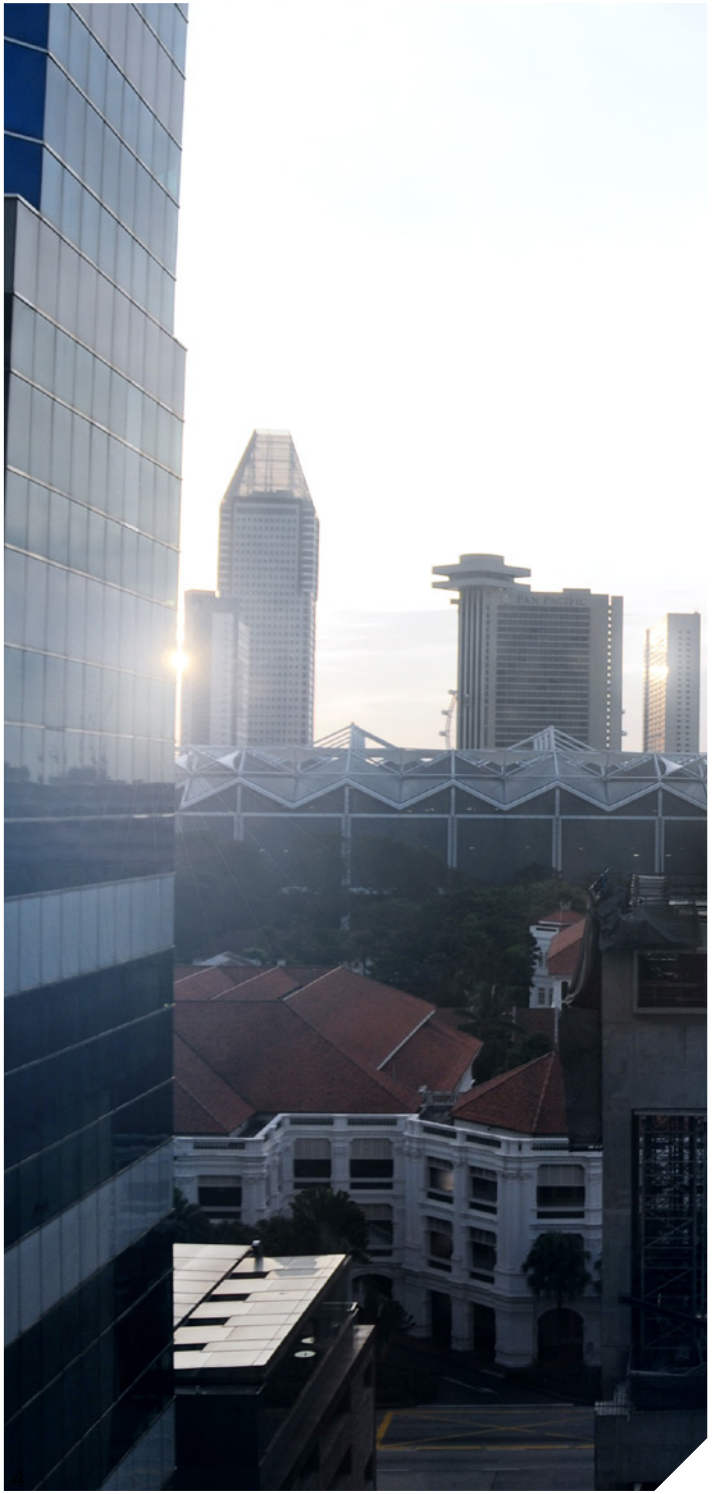
Cost-effective crushing
Crushing on site minimizes or even eliminates completely the need to bring in aggregates by truck from quarries located outside the city center, speeding up the process, reducing your costs and emissions, and improving the profitability of your operations. What's more, demolition waste or rocks can be dealt with on site instead of having to be taken away for processing.

Easier to obtain crushing permits

Lower transportation costs

Comply with environmental requirements

Safe and easy to transport, operate, and maintain



Compact transportation and easy access maintenance

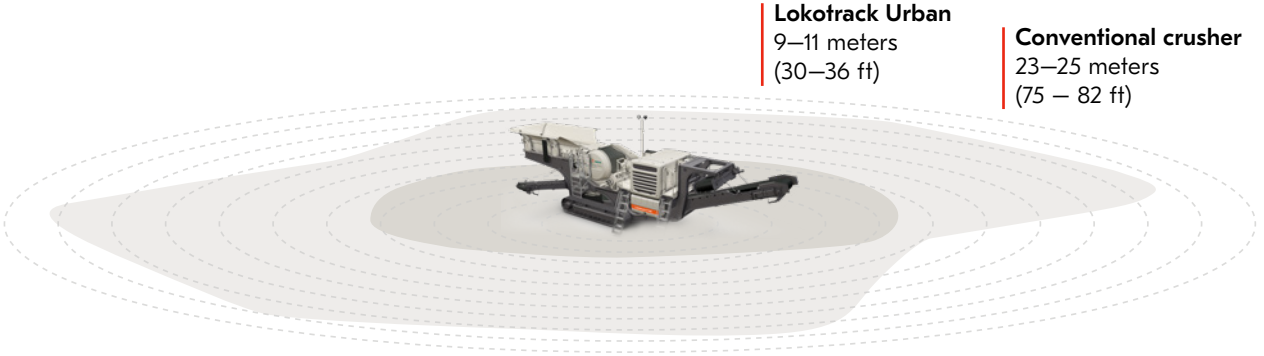
The noise and dust encapsulation features of the Lokotrack Urban Series are designed in such a way that they do not compromise the transport dimensions, ease of maintenance, or safe operation of the plant.

Environmental permits are usually based on the noise level generated by crushing operations. Although a level of 85 dB(A) is the most commonly defined limit that requires ear protection, even lower levels can cause disturbance to people living close to crushing sites.

Lokotrack Urban Series mobile crushing plants use a unique noise encapsulation feature to cut the noise protection distance in hard-rock applications by half compared to conventional crushers, from 23–25 meters (75'–82') to 9–11 meters (30'–36') with Urban LT106.

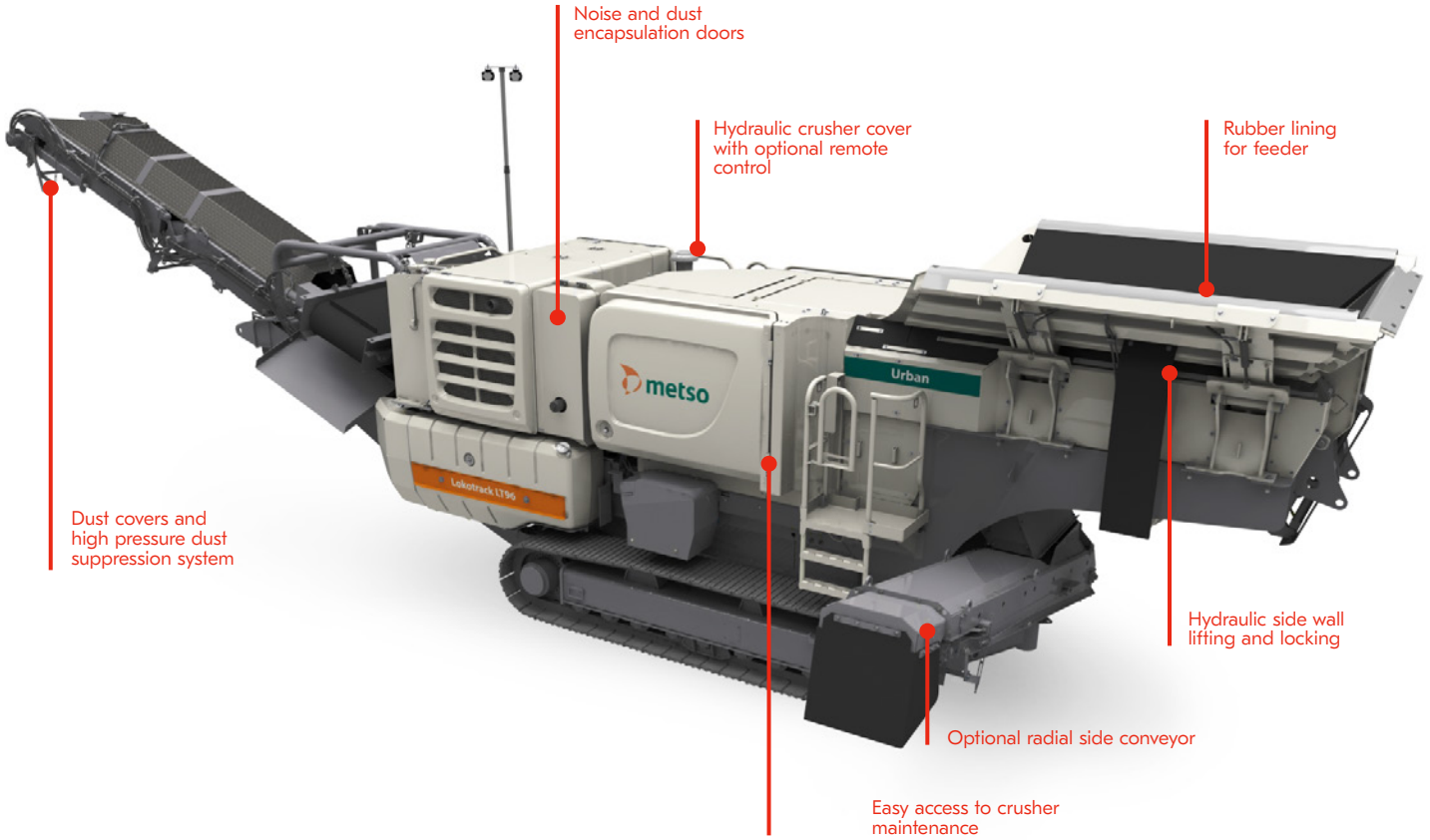
High-pressure water sprays inside the crusher chamber and at the end of the conveyor prevent dust from spreading when aggregates are being unloaded.

Noise protection distances 85 dB(A)



The rubber lining on the hopper sides and feeder bottom reduces loading noise and improves material flow in applications where the feed material contains soil and mud.

Noise and dust encapsulation features



Lokotrack® Urban™ Series

Significant savings with Lokotrack Urban

Noise regulations in city centers can restrict crushing with a conventional crusher and aggregate crushing needs to be done in another location. The distance to a suitable crushing site can be as short as 1 km away from the construction site. This means that the rocks or demolished waste needs to be transported for crushing for 1 km round trip along a public road.

As an example, if the contract would be for a 20, 000-ton crushing, a 20-ton truck would make 1000 round trips between crushing site and construction site. The estimated cost of transportation being 2 euros / t / km by crushing on site and eliminating the need of transport the total savings would be 80 000 euros.

How much could you save?

Conventional crushing plant

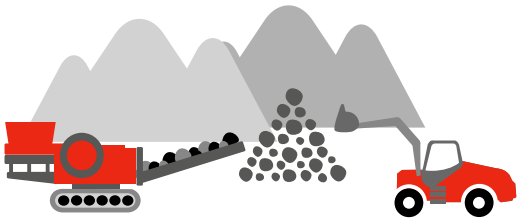
Transporting rocks along a public road 1 km between the construction site and a crushing plant.

Contract 20,000 tons
20 t truck, 1,000 round trips

Cost €2/ton

On site crushing with Lokotrack® Urban™ series

Savings: €80,000



Cost-effective crushing with Lokotrack Urban

Noise and dust-suppressed Lokotrack Urban enables crushing in built-up areas

For a building project in Lier, Norway, Martin Rønning AS needed a solution that would remove the need to transport rocks to a remote location for crushing before returning the aggregate to the same construction site. That solution was the Metso Lokotrack® Urban™ LT106S, a mobile jaw crushing and screening plant that reduces the spread of noise by up to 60% compared to conventional crushers.

Read the full story

Purkumerkki Oy crushes concrete silently with the Lokotrack® Urban LT96 mobile jaw crusher plant

"Every company in the concrete recycling business should have their own noise and dust encapsulated Lokotrack® Urban LT96 unit," comments Mikko Mähönen, CEO of Purkumerkki.

"It's the combination of low noise level, over 200 ton capacity, 17 liter fuel consumption, and the magnet that effectively removes the steel reinforcing bars, that ultimately ensures this machine will be an important part in all of our recycling projects in the future."

Key technical specifications

			 URBAN LT96™	 URBAN LT106™	 URBAN LT130E™
	**TRANSPORT DIMENSIONS**	**Length** **Width** **Height** **Weight****	12 800 mm (42′ 00″) 2 500 mm (8′ 2″) 3 100 mm (10′ 2″) 33 000 kg (73 000 lbs)	15 200 mm (49′ 9″) 2 800 mm (9′ 2″) 3 450 mm (11′ 2″) 47 000 kg (103 600 lbs)	21 500 mm (70′ 6″) 3 500 mm (11′ 6″) 3 900 mm (12′ 10″) 103 000 kg (227 000 lbs)
	**CRUSHER**	**Model** **Nominal feed opening**	Nordberg® C96™ 930 x 580 mm (37″ x 23″)	Nordberg® C106™ 1 060 x 700 mm (42″ x 28″)	Nordberg® C130™ 1 300 x 1 000 mm (51″ x 39″)
	**FEEDER**	**Hopper volume** **Loading height** **Loading width**	4 / 6* m^3 (5.2 yd^3 / 7.8* yd^3) 3 500 mm (11′ 6″) 2 693 / 3 500* mm (8′ 10″ / 11′ 6″*)	6 / 9* m^3 (8 / 12* yd^3) 3 900 mm (12′ 10″) 2 630 / 3 600* mm (8′ 8″ / 11′ 10″*)	11 / 23* m^3 (15 / 30* yd^3) 5 850 mm (19′ 2″) 3 150 / 5 000* mm (10′ 4″ / 16′ 5″*)
	**CONVEYOR DISCHARGE HEIGHT**	**Main conveyor** **Side conveyor**	2 600 / 3 600* mm (8′ 7″ / 11′ 10″*) 1 547 mm (5′ 1″)	2 800 / 3 900* mm (9′ 2″ / 12′ 10″*) 1 630 mm (5′ 4″)	3 000 - 4 550 mm (10′ 4″ - 14′ 11″) 2 900 mm (9′ 6″)
	**ENGINE**	**Manufacturer** **Power** **Fuel tank capacity** **Process control system**	CAT® 170 kW (228 hp) 500 l (132 gal) IC™	CAT® 224 kW (300 hp) 630 l (166 gal) IC™	CAT® 403 kW / 500 kVA (545 hp) 1 200 l (317 gal) IC™
	**SCREEN**	**Model** **Size**	TK11-20-S* 2 000 / 1 100 mm (6′ 7″ / 3′ 7″)	TK11-30-S* 3 000 / 1 100 mm (9′ 10″ / 3′ 7″)	- -

* Optional

** Incl. Feeder and hopper rubber linings

The Lokotrack Urban LT130E is available as a quarry version or for better mobility as an easy-split version.

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.**

Metso

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