

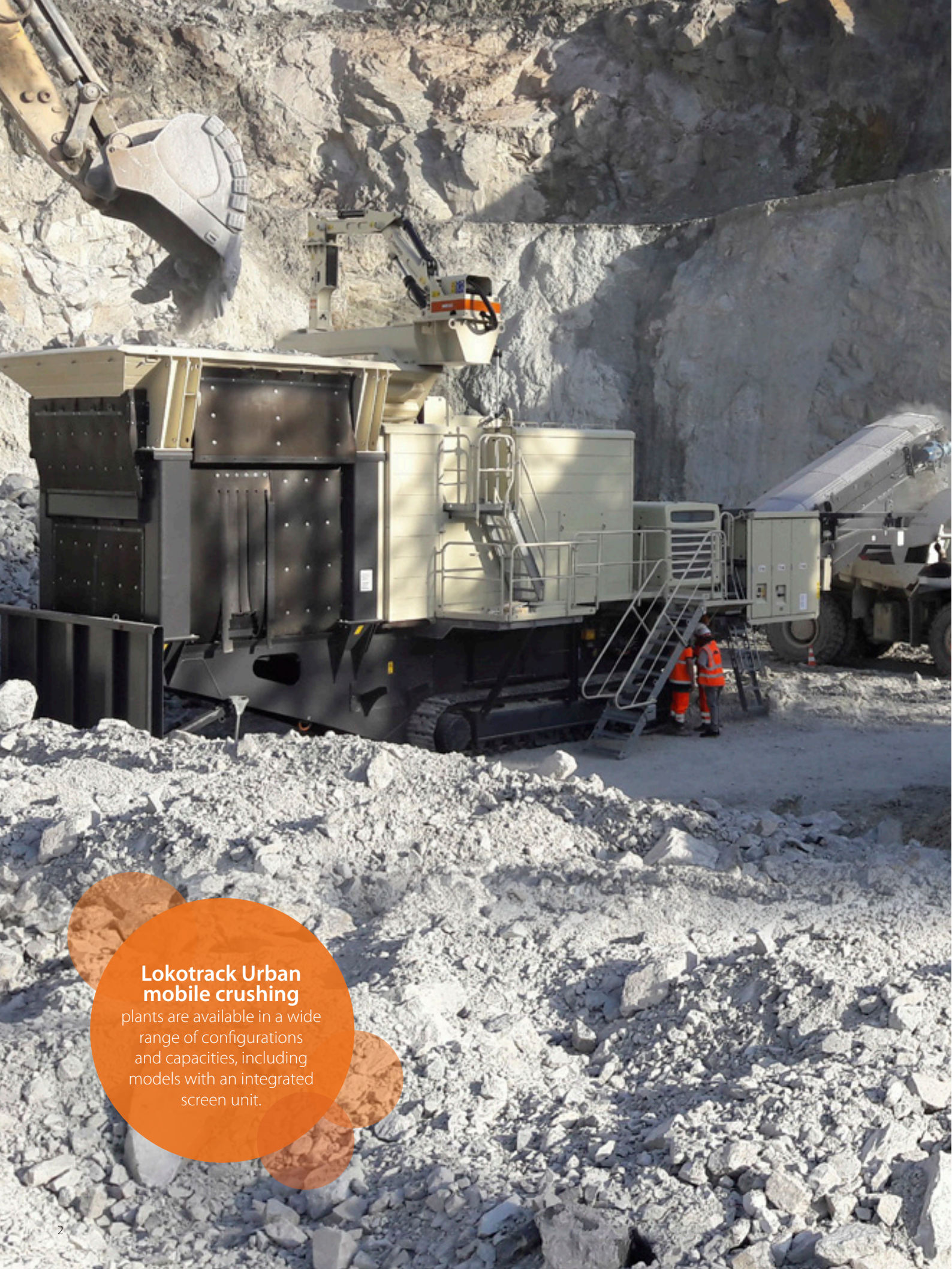
Mobile crushing and screening plants

Metso Lokotrack® Urban™ Series



Solutions
for populated
environments





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.

Lokotrack Urban mobile crushing

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



Key benefits

- › 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 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.

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.

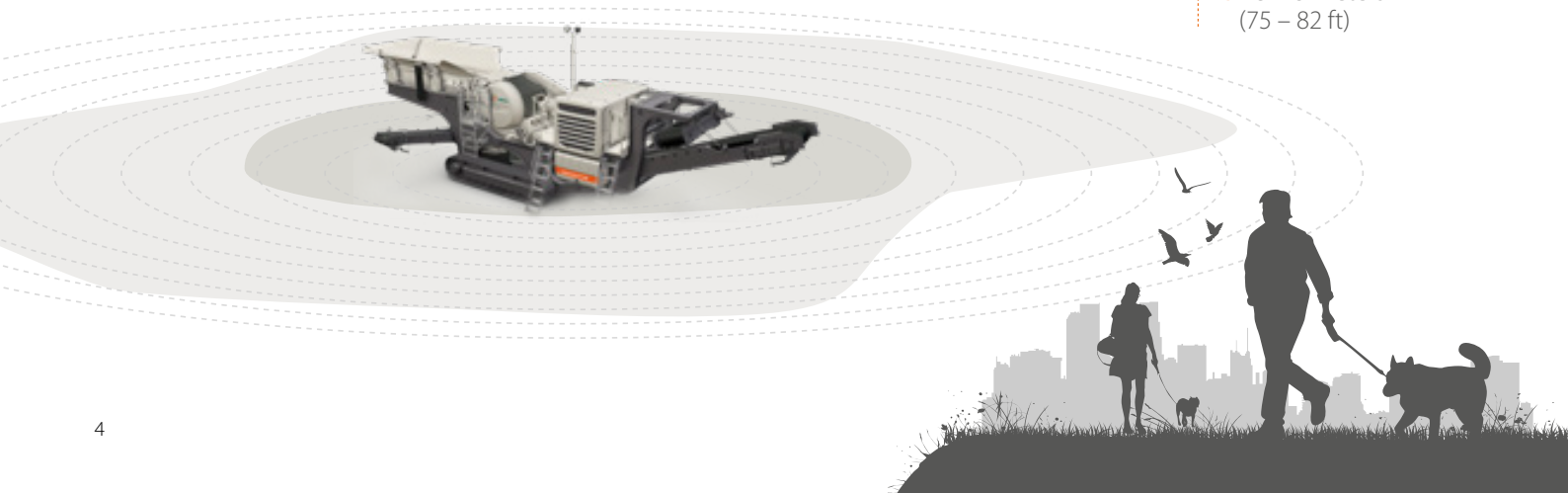
Lokotrack Urban Series mobile crushing plants use a unique noise encapsulation feature to cut the noise protection distance in hard-rock applications by half compared to conventional crushers, from 23–25 meters (75’–82’) to 9–11 meters (30’–36’) with Urban LT106.

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

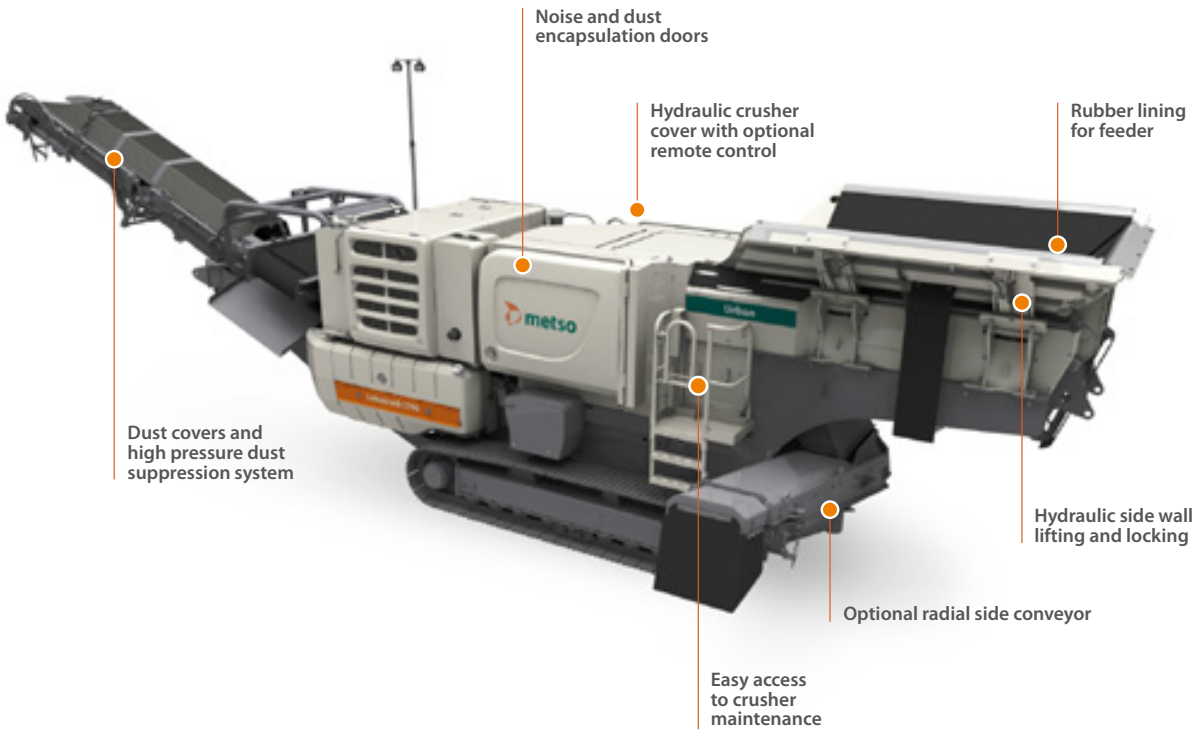
Noise protection distances 85 dB(A)

Lokotrack Urban
➤ 9–11 meters (30–36 ft)

Conventional crusher
➤ 23–25 meters (75 – 82 ft)



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

Savings: €80,000



Cost-effective crushing with Lokotrack Urban

Remote monitoring and real-time data improves safety, productivity and the efficiency of maintenance operations.



Metso IC Automation Solutions for Lokotrack Urban Series plants

Metso IC Series Automation Solutions automate, monitor, control, and optimize the crushing process. ICr remote monitoring increases safety on site by enabling the crushing process to be monitored and controlled from the excavator cabin.



Automation allows you to adjust the crushing process without stopping it, leading to improved productivity and a reduction in unplanned downtime, as well as more consistent end-product quality. Several Lokotrack units can be linked together with an interlocking cable to control and monitor the entire crushing process with multiple machines.

Metso Life Cycle Services (LCS) and Metso Metrics

Together with Metso LCS, Metso offers a digital solution to help further optimize your crushing process. Through remote data monitoring, Metso Metrics gives you access to critical insights on your crusher's performance and maintenance needs, with optional access to expertise that will help you to analyze and interpret the data.



With Metso Metrics integration you get:

- 24/7 access to your data via computer or tablet, using a secure cloud-based platform
- Visibility over your equipment's key operating data, including utilization rates, energy consumption, alarms, and parameter changes
- Location data for your entire fleet in map format

Key technical specifications

| THE LOKOTRACK URBAN RANGE | | | | |
|---------------------------|---|---|--|---|
| | URBAN LT96™ | URBAN LT106™ | URBAN LT120™ URBAN LT120E™ | URBAN LT130E™ |
| |  |  |  |  |
| TRANSPORT DIMENSIONS | | | | |
| Length | 12 700 mm (41'8") | 15 200 mm (49'9") | 16 650 / 17 400* mm (54'8" / 57'1"*) | 21 500 mm (70'6") |
| Width | 2 500 mm (8'2") | 2 800 mm (9'2") | 3 000 mm (9'10") | 3 500 mm (11'6") |
| Height | 3 100 mm (10'2") | 3 450 mm (11'2") | 3 900 mm (12'10") | 3 900 mm (12'10") |
| Weight | 33 000 kg (73 000 lbs) | 40 000 kg (88 000 lbs) | 63 000 kg (138 000 lbs) | 103 000 kg (227 000 lbs) |
| CRUSHER | | | | |
| Model | Nordberg® C96™ | Nordberg® C106™ | Nordberg® C120™ | Nordberg® C130™ |
| Nominal feed opening | 930 x 580 mm (37" x 23") | 1 060 x 700 mm (42" x 28") | 1 200 x 870 mm (47" x 34") | 1 300 x 1 000 mm (51" x 39") |
| FEEDER | | | | |
| Hopper volume | 4 / 6* m³ (5.2 yd³ / 7.8* yd³) | 6 / 9* m³ (8 / 12* yd³) | 7 / 12* m³ (9 / 16* yd³) | 11 / 23* m³ (15 / 30* yd³) |
| Loading height | 3 500 mm (11'6") | 3 900 mm (12'10") | 4 430 mm (14'6") | 5 850 mm (19'2") |
| Loading width | 2 693 / 3 500* mm (8'10" / 11'6"*) | 2 630 / 3 600* mm (8'8" / 11'10"*) | 2 600 / 4 100* mm (8'7" / 13'6"*) | 3 150 / 5 000* mm (10'4" / 16'5"*) |
| CONVEYOR DISCHARGE HEIGHT | | | | |
| Main conveyor | 2 600 / 3 600* mm (8'7" / 11'10"*) | 2 800 / 3 900* mm (9'2" / 12'10"*) | 3 400 / 4 700* mm (11'2" / 15'5"*) | 3 000 - 4 550 mm (10'4" - 14'11") |
| Side conveyor | 1 547 mm (5'1") | 1 630 mm (5'4") | 2 850 mm (9'5") | 2 900 mm (9'6") |
| ENGINE | | | | |
| Manufacturer | CAT® | CAT® | CAT® | CAT® |
| Power | 170 kW (228 hp) | 224 kW (300 hp) | 310 kW (415 hp) | 403 kW / 500 kVA (545 hp) |
| Fuel tank capacity | 500 l (132 gal) | 630 l (166 gal) | 630 l (166 gal) | 1 200 l (317 gal) |
| Process control system | Metso IC™ | Metso IC™ | Metso IC™ | Metso IC™ |
| SCREEN | | | | |
| Model | TK11-20-S* | TK11-30-S* | | |
| Size | 2 000 / 1 100 mm (6'7" / 3'7") | 3 000 / 1 100 mm (9'10" / 3'7") | | |

*) Optional



Swedish contractor Abbema chose the Lokotrack Urban LT106 for its crushing operations because of its large crushing capacity, low noise level, and good dust control.

The plant helped the company successfully complete an important crushing project for Skanska – one of the world's largest construction companies.

[Read the full story](#)





Metso Corporation, Lokomonkatu 3, P.O.Box 306, FI-33101 Tampere, Finland, tel. +358 20 484 142, fax +358 20 484 143
www.metso.com

Copyright © 2019 Metso Corporation. 3903-03-19-EN-AGG. Metso and Nordberg are registered trademarks of Metso Corporation. The information in this document is provided as is without warranty of any kind, either express or implied, including but not limited to the implied warranties of merchantability, fitness for a particular purpose or non-infringement and for informational purposes only. In no event shall Metso be liable to any party for any direct, indirect, special or consequential damages arising out of, caused in connection with or due to any use of the information in this document. Information in this document may include inaccurate information or information which has not been updated. Metso has the right to make changes in the document without notice. Not all products or services are available in all countries.