

# Metso:Outotec

Lokotrack® ST mobile solutions

## Made to keep your process going

Mobile screens  
for scalping and  
precise separation







Asphalt recycling



Concrete demolition



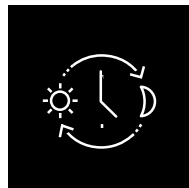
Aggregates production

## Reliable separation day in, day out

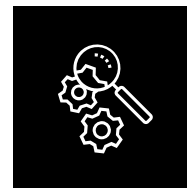
Metso Outotec Lokotrack® ST™ mobile screens give you high screening capacity and excellent productivity with a range of feed materials. They are highly mobile and ideal for contractors and aggregate producers who need efficient separation and versatility to handle a variety of applications. Each product in the range can be customized for your specific needs and will deliver dependable results for years to come.

## From the world's leading manufacturer

Metso Outotec is the world's leading manufacturer of track-mounted crushers and screens. Our unmatched technology and engineering know-how enables us to tailor each Lokotrack® ST™ mobile screen to meet your specific needs. And, because they are designed to be flexible, its quick and easy to adapt them to meet changing market needs. You can also configure them to operate in different types of standalone and multistage crushing applications.



Dependability



Optimized processes



Mobility



Flexible operations





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# Wide range of reliable mobile screens

The Lokotrack® ST™ range is ideal for medium and large size contractors and it includes both multi-use scalping screens and aggregates screens. Every product features the same robust, reliable performance, and safe and simple operation. In addition, they are easy to maintain using convenient service access points.

## Multi-use scalping screens

Multi-use Lokotrack ST screens are engineered to screen and scalp blasted rock, sand and gravel, recycled concrete and top soil. This makes them ideal for the production of construction and landscaping materials.

- Lokotrack ST2.3
- Lokotrack ST2.8



## Aggregates screens

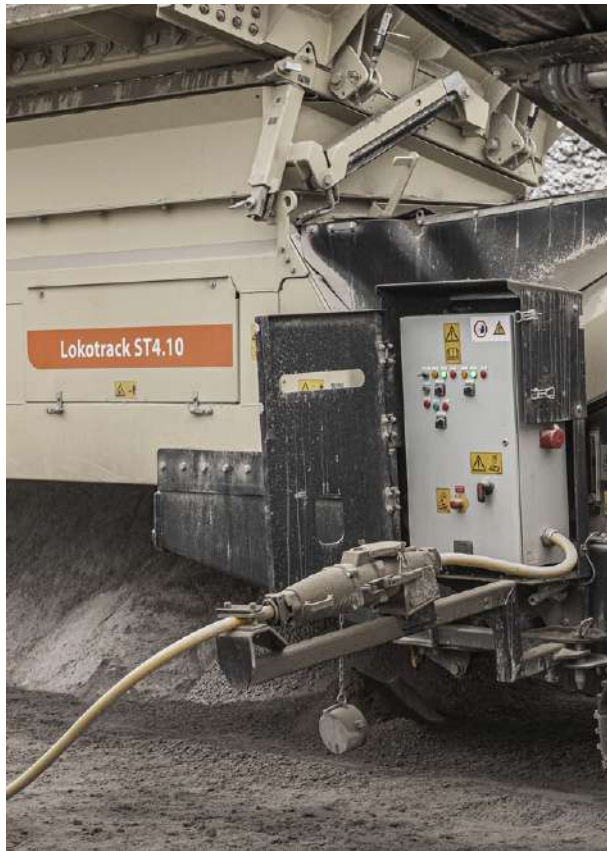
Lokotrack ST aggregate screens are designed to screen crushed rock, as well as sand and gravel. This makes them an excellent choice to produce aggregates for concrete and asphalt, road base, building foundations and railway ballast.

- Lokotrack ST3.8
- Lokotrack ST4.8
- Lokotrack ST4.10



# e-Power for efficiency and savings

Most Lokotrack ST screens are available as e-Power versions. This enables the units to be operated using either the diesel engine or with the built-in electrical motors. The electric motors can be powered by an external electric network or, with customization, by a hybrid Lokotrack crusher equipped with an onboard diesel generator. Running your processes with external electricity or with a single diesel engine can result in significant savings for your operations.



The following models are available as e-Power version:

ST2.8E  
ST4.10E

ST3.8E  
ST4.8E



# Combine Lokotricks and optimize multi-stage processes

Lokotrack® ST products can be easily combined with other Lokotrack units, both mechanically and via their automation, for more efficient operation. Because they are easy to connect and combine, Lokotrack ST products are particularly well-suited to multi-stage processes.

## Move with your production

Their on-site mobility, effortless interoperability and quick set-up make it easy for you to transport entire multi-stage chains to new work sites, or to move them to new locations on your current one. However and wherever you need to configure your multi-stage process, Lokotrack ST makes it simple.

## Process automation as standard feature

To make crushing and screening process as efficient and smooth as possible, Lokotricks can be monitored via Metso Outotec IC™ automation and controlled remotely with wireless Metso Outotec ICr™ from excavator cabin. Metso Outotec Metrics cloud-based remote monitoring and visualization service enables you to gain critical data and insight into the operational performance and maintenance needs of your fleet. Metso Outotec Metrics is a part of our Life Cycle Services with wide range of service packages to help to run your process smoothly.












Efficient screening also  
as a stand-alone unit



# Lokotrack® ST — Selection guide

Questions to help you select the right Metso Outotec equipment:

- What material are you processing?
- What is your capacity need?
- Do you need to produce a variety of different end products?
- How close is the site to the nearest residential area?
- How strict are the environmental requirements in the area?

	Primary scalping	Topsoil	Recycled waste	Railway ballast	Road base	Sand & gravel	Fine aggregates (concrete & asphalt)	Typically combined with		
								LT jaw crusher	LT impactor crusher	Secondary LT crusher
ST2.3	●●●	●●●	●●	●●	●●	●●	●	LT96	LT1110	LT200HP
ST2.8	●●●	●●●	●●●	●●	●●	●●	●	LT116 LT120/E	LT1213(S)	LT300HP LT330D
ST3.8		●	●	●●●	●●●	●●●	●●●	LT106 LT116	LT1213(S)	LT300HP
ST4.8		●	●	●●●	●●●	●●●	●●●	LT106 LT116	LT1213(S)	LT300HP
ST4.10		●	●	●●●	●●●	●●●	●●●	LT120/E	LT1213(S)	LT300HP LT330D





	Type	Decks	Screen area top deck	Screen size	Screen working angle	Transport weight	Screen speed	Stroke	Engine power	e-Power
ST2.3	Multi-Use	2	4.6 m <sup>2</sup> 49 ft <sup>2</sup>	3,040 x 1,520 mm 10 x 5'	13-23°	17 t 37,500 lbs	840 rpm	up to 13 mm	55 kW 74 hp	n/a
ST2.8/E	Multi-Use	2	7.4 m <sup>2</sup> 79 ft <sup>2</sup>	4,860 x 1,520 mm 16 x 5'	10-17°	26 t 57,300 lbs	760 rpm	up to 15 mm	100 kW 134 hp	Yes
ST3.8/E	Aggregates	2	7.9 m <sup>2</sup> 85 ft <sup>2</sup>	5,480 x 1,520 mm 18 x 5'	18-30°	30 t 66,100 lbs	1,050 rpm	7-8 mm	100 kW 134 hp	Yes
ST4.8/E	Aggregates	3	7.9 m <sup>2</sup> 85 ft <sup>2</sup>	5,480 x 1,520 mm 18 x 5'	18-30°	32 t 70,500 lbs	1,050 rpm	7-8 mm	100 kW 134 hp	Yes
ST4.10/E	Aggregates	3	9.3 m <sup>2</sup> 100 ft <sup>2</sup>	6,060 x 1,520 mm 20 x 5'	18-27°	33 t 72,700 lbs	950 rpm	8-9 mm	100 kW 134 hp	Yes

Lokotrack® ST2.3™

## Widest screen in its size class

ST2.3™ is our most compact mobile screen for primary scalping. With its aggressive stroke, wide screen and adjustable screen angle it is ideal for general contractors with various feed materials such as topsoil and recycled concrete waste.

### Large hopper

Side wall extensions to feed with wheel loader or excavator

### High screening performance

- Widest screen in the class
- Aggressive stroke for efficient separation
- Supports various screening media combinations

### Areas of application:



Primary scalping



Topsoil



Recycled waste



Road base



Fine aggregates

### High fuel efficiency

CAT® C3.6 engine

### Adjustable screen angle

### Easy transport

Compact size and optimized weight  
Hydraulic functions

### Adjustable conveyor angle

### Easy maintenance access

With hydraulic screen lift and large area under screen



### Metso Outotec IC automation

Easy and safe process control and connectivity to other Lokotricks



Compact size for transport ' in a standard trailer



Low fuel consumption








Easy-to-use for general contractors



Flexible with adjustable screen and conveyor angles



## Technical details Lokotrack® ST2.3™

Screen	Feeder	Conveyor	Engine power options	Transport dimensions
				
<b>Size</b> 3,040 x 1,520 mm (10' x 5') <b>Screening area</b> 4.6 m <sup>2</sup> (5.5 yd <sup>2</sup> ) <b>Decks</b> 2 <b>Nominal capacity*</b> 350 MtpH (385 Stph) <b>Stroke</b> Up to 13 mm <b>Screening media</b> Plate grizzly, Finger grizzly, Punch plate	<b>Type</b> Belt feeder <b>Hopper volume</b> 4.5 m <sup>3</sup> (5.9 yd <sup>3</sup> ) standard 5.5 m <sup>3</sup> (7.1 yd <sup>3</sup> ) extension <b>Loading height</b> 2,500 - 3,000 mm (8' 2" - 9' 10") <b>Loading width</b> 2,300 mm (7' 6") <b>Max feed size</b> 400 mm (16")	<b>Conveyor oversize width</b> 1,200 mm (47") <b>Side conveyor midsize width</b> 650 mm (26") Adjustable discharge height <b>Side conveyor undersize width</b> 650 mm (26") Adjustable discharge height	<b>Model</b> CAT® C3.6 <b>StageV/Tier4F/Tier3</b> 100 kW (134 hp) <b>Fuel tank</b> 260 l (69 gal) <b>Hydraulic oil</b> 100 l (26 gal)	<b>Length</b> 11,950 mm (39' 4" ) <b>Width</b> 2,880 mm (9' 5" ) <b>Height</b> 2,550 mm (8' 5") <b>Weight</b> 17,000 kg (37,500 lbs) available for ship container transportation

\*Capacity depends on application (required end products, feed material characteristics and size, moisture etc.)



Widest screen in its class.



Compact size for easy to transport.



Multi-use for primary scalping and screening.



Automate process control and one button on/off.



*"The ST2.3 is easy to use with the Metso IC™ and consumes fuel only seven liters per hour."*  
 Stig Johansson, J.Koskenmäki, Finland.

# Lokotrack® ST2.8™ & ST2.8E

## Biggest eccentric throw on the market

ST2.8™ offers high capacity with most aggressive stroke on the market that makes it very efficient in scalping sticky material like topsoil, river gravel or slag.

### Feeder start/stop

To be connected with Lokotrack LT crusher






### Large hopper with side walls

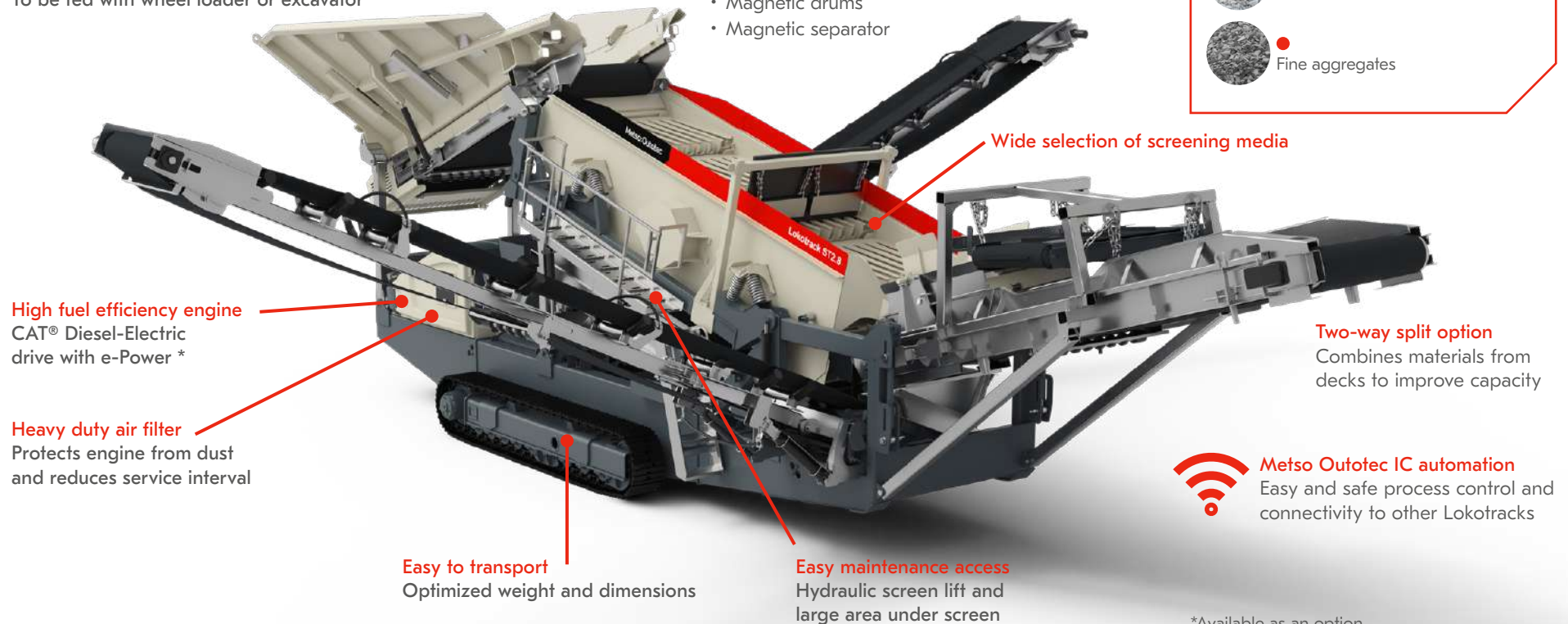
To be fed with wheel loader or excavator

### Separation of metal particles

- Magnetic drums
- Magnetic separator

### Areas of application:

-  Primary scalping
-  Topsoil
-  Recycled waste
-  Road base
-  Fine aggregates

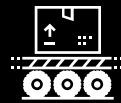


**Metso Outotec IC automation**  
Easy and safe process control and connectivity to other Lokotracks

\*Available as an option



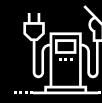
Biggest stroke for sticky material



Easy to transport








Easy to use and service



Diesel-electric drive  
with e-Power



## Technical details Lokotrack® ST2.8™ & ST2.8E

Screen	Feeder	Conveyor	Engine power options	Transport dimensions
				
<p><b>Size</b> 4,860 x 1,520 mm (16' x 5')</p> <p><b>Screening area</b> 7.4 m<sup>2</sup> (8.9 yd<sup>2</sup>)</p> <p><b>Decks</b> 2</p> <p><b>Nominal capacity*</b> 600 Mtph (660 Stph)</p> <p><b>Stroke</b> Up to 15 mm</p> <p><b>Screening media</b> Woven steel mesh, Plate grizzly, Finger grizzly, Punch plate</p>	<p><b>Type</b> Belt or Apron feeder</p> <p><b>Hopper volume</b> 4.5 m<sup>3</sup> (5.9 yd<sup>3</sup>) standard 11 m<sup>3</sup> (14.3 yd<sup>3</sup>) extensions</p> <p><b>Loading height</b> 3,300 / 3,680 mm (10' 10" / 11' 1")</p> <p><b>Loading width</b> 3,000 mm (9' 10")</p> <p><b>Max feed size</b> 600 mm (24")</p>	<p><b>Conveyor oversize width</b> 1,200 mm (47")</p> <p><b>Side conveyor midsize width</b> 800 mm (31,5") Adjustable discharge height</p> <p><b>Side conveyor undersize width</b> 800 mm (31,5") Adjustable discharge height</p> <p><b>Under screen conveyor width</b> 1,200 mm (47")</p>	<p><b>Model</b> CAT® C3.6</p> <p><b>StageV/Tier4F</b> 100 kW (134 hp)</p> <p><b>Tier3</b> 98 kW (131 hp)</p> <p><b>Fuel tank</b> 300 l (79 gal)</p> <p><b>Hydraulic oil</b> 105 l (28 gal)</p> <p><i>*Available as an option</i></p>	<p><b>Length</b> 15,400 mm (50' 7")</p> <p><b>Width</b> 3,000 mm (9' 10")</p> <p><b>Height</b> 3,560 mm (11' 8")</p> <p><b>Weight</b> 26,000 kg (57,300 lbs)</p>

\*Capacity depends on application (required end products, feed material characteristics and size, moisture etc.)



Aggressive stroke for sticky material.



World class expertise for tailored options.



Easy to combine with other Lokotrack.



# Lokotrack® ST3.8™ & ST3.8E

## Precise screening with high capacity

ST3.8™ is a versatile mobile screen for high capacity aggregates production in quarries or construction sites. It is safe and easy to use and fine-tune to match your operational requirements. The machine is transported as one unit, thanks to hydraulic folding of its conveyors.

### 10 m side conveyors

- Suspended rollers
- Easier angle adjustment\*

### Cost-efficient screening capacity

- Interchangeable screen meshes
- Various screening media

### Roll-back prevention gates\*

### Tipping/Vibrating grid

for separating oversize  
Tigging grid with rods\*

### Areas of application:



Recycled waste



Railway ballast



Road base



Fine aggregates

### Safe by design

Handrails, platforms and lights

### Diverter chute

Produce mixed products

### Fuel efficient Engine

CAT® Diesel-Electric drive  
with e-Power \*

### Easy maintenance access

- Hydraulic screen lift
- Large area under screen



### Metso Outotec IC automation

Easy and safe process control and  
connectivity to other Lokotrack

\*Available as an option



Easy fine-tuning to match your  
operational requirements



Quick adaptation with  
interchangeable screen meshes








Compact size for transport  
in a standard trailer



Diesel-electric drive  
with e-Power



## Technical details Lokotrack® ST3.8™ & ST3.8E

Screen	Feeder	Conveyor	Engine power options	Transport dimensions
				
<p><b>Size</b> 5,480 x 1,520 mm (18' x 5')</p> <p><b>Screening area</b> 8.4 m<sup>2</sup> (10 yd<sup>2</sup>)</p> <p><b>Decks</b> 2</p> <p><b>Nominal capacity*</b> 500 Mtph (550 Stph)</p> <p><b>Stroke</b> 7-8 mm</p> <p><b>Screening media</b> Woven steel mesh</p>	<p><b>Type</b> Belt feeder with tipping/ vibrating grid or rock box</p> <p><b>Hopper volume</b> 7.5 m<sup>3</sup> (9.6 yd<sup>3</sup>)</p> <p><b>Loading height</b> 2,315 mm (7' 7") 3,390 mm (11' 1") (with tipping grid)</p> <p><b>Loading width</b> 4,650 mm (15' 4")</p> <p><b>Max feed size</b> 150 mm (6")</p>	<p><b>Lifting conveyor</b> width 1,050 mm (42")</p> <p><b>Side conveyor top deck*</b> width 800 mm (31,5") length 10 m (32' 10")</p> <p><b>Side conveyor bottom deck*</b> width 800 mm (31,5") length 10 m (32' 10")</p> <p><b>Product conveyor undersize</b> width 1,200 mm (47")</p> <p>*Adjustable discharge height</p>	<p><b>Model</b> CAT® C3.6</p> <p><b>StageV/Tier4F</b> 100 kW (134 hp)</p> <p><b>Tier3</b> 106 kW (142 hp)</p> <p><b>Fuel tank</b> 300 l (79 gal)</p> <p><b>Hydraulic oil</b> 105 l (28 gal)</p> <p>*Available as an option</p>	<p><b>Length</b> 18,000 mm (59' 1" )</p> <p><b>Width</b> 3,000 mm (9' 10" )</p> <p><b>Height</b> 3,330 mm (10' 11")</p> <p><b>Weight</b> 30,000 kg (66,100 lbs)</p>

\*Capacity depends on application (required end products, feed material characteristics and size, moisture etc.).



Multiple options for feeding.



Interchangeable screen meshes.



Easy access to the service locations.



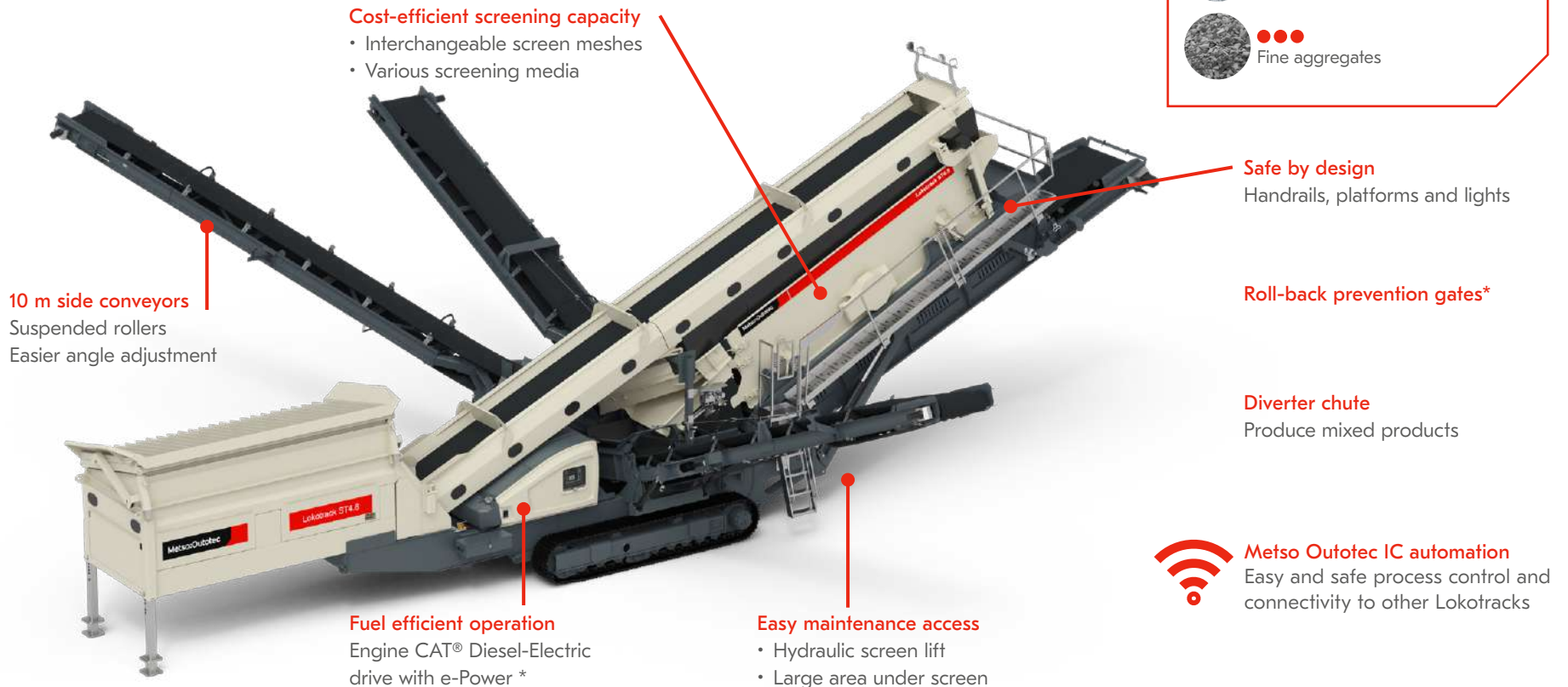
Safety by design.



# Lokotrack® ST4.8™ & ST4.8E

## An easy to transport triple deck screen

ST4.8™ provides precise, high capacity screening. The screen meshes are easily interchangeable, the conveyors are hydraulically foldable for easy transport, and the e-Power feature makes it efficient in both standalone and multi-stage applications.



\*Available as an option



Easy fine-tuning to match your operational requirements



Quick adaptation with interchangeable screen meshes








Transport as a single unit



Diesel-electric drive with e-Power



## Technical details Lokotrack® ST4.8™ & ST4.8E

Screen	Feeder	Conveyor	Engine power options	Transport dimensions
				
<b>Size</b> 5,480 x 1,520 mm (18' x 5') <b>Screening area</b> 8.4 m <sup>2</sup> (10 yd <sup>2</sup> ) <b>Decks</b> 3 <b>Nominal capacity*</b> 500 MtpH (550 Stph) <b>Stroke</b> 7-8 mm <b>Screening media</b> Woven steel mesh	<b>Type</b> Belt feeder with tipping/ vibrating grid or rock box <b>Hopper volume</b> 7.5 m <sup>3</sup> (9.6 yd <sup>3</sup> ) <b>Loading height</b> 2,315 mm (7' 7") 3,390 mm (11' 1") (with tipping grid) <b>Loading width</b> 4,650 mm (15' 4") <b>Max feed size</b> 150 mm (6")	<b>Lifting conveyor</b> width 1,050 mm (42") <b>Side conveyor top deck*</b> width 650 mm (26") length 10 m (32' 10") <b>Side conveyor midsize*</b> width 800 mm (31,5") length 10 m (32' 10") <b>Side conveyor bottom deck*</b> width 800 mm (31,5") length 10 m (32' 10") <b>Product conveyor undersize</b> width 1,200 mm (47") *Adjustable discharge height	<b>Model</b> CAT® C3.6 <b>StageV/Tier4F</b> 100 kW (134 hp) <b>Tier3</b> 106 kW (142 hp) <b>Fuel tank</b> 300 l (79 gal) <b>Hydraulic oil</b> 105 l (28 gal) *Available as an option	<b>Length</b> 18,000 mm (59' 1") <b>Width</b> 3,040 mm (9' 11") <b>Height</b> 3,560 mm (11' 8") <b>Weight</b> 32,000 kg (70,500 lbs)

\*Capacity depends on application (required end products, feed material characteristics and size, moisture etc.)



Washing equipment as a standard option.



High capacity with 4 end products.



Fine-tune to match your operation.



Adjustable conveyors for high stockpiles.



## Lokotrack® ST4.10™ & ST4.10E

# High capacity mobile screen for closed circuit crushing

ST4.10™ is ideal for large-scale aggregate production where closed circuit process is used for producing aggregates for concrete and asphalt sands, road base and building foundations.

### Adjustable side conveyor height and angle

Easier closed circuit and high stockpiles

### Easy mesh change

Side tensioned top & middle deck

### Wide feed box

Easier wheel loader feeding and closed circuit process

### Areas of application:



Recycled waste



Railway ballast



Road base



Fine aggregates

### Safe by design

Handrails, platforms and lights

### Diverter chute

Mix products from different decks

### Easy maintenance

Top and middle deck side tensioned  
Hydraulic screen lift



### Metso Outotec IC automation

Easy and safe process control and connectivity to other Lokotrack

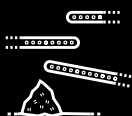
### Fuel efficient operation

Engine CAT® Diesel-Electric drive with e-Power \*

### Heavy-duty air filter

Protects engine from dust and reduces service interval

\*Available as an option



Extended feed hopper for easy closed-circuit production



Transport as a single unit








Easy mesh changes by a single person



Diesel-electric drive with e-Power



## Technical details Lokotrack® ST4.10™ & ST4.10E

Screen	Feeder	Conveyor	Engine power options	Transport dimensions
				
<b>Size</b> 6,060 x 1,520 mm (20' x 5") <b>Screening area</b> 9,3 m <sup>2</sup> (10.8 yd <sup>2</sup> ) <b>Decks</b> 3 <b>Nominal capacity*</b> 600 Mtph (660 Stph) <b>Stroke</b> 8-9 mm <b>Screening media</b> Woven steel mesh Trellex rubber mesh	<b>Type</b> Belt feeder with tipping/ vibrating grid or rock box <b>Feed hopper volume</b> 8 m <sup>3</sup> (10 yd <sup>3</sup> ) <b>Loading height</b> 3,390 mm (11' 1") (with tipping grid) <b>Loading width</b> 4,650 mm (15' 3") <b>Max feed size</b> 150 mm (6")	<b>Lifting conveyor</b> width 1,050 mm (42") <b>Side conveyor top deck*</b> width 650 mm (26") length 10 m (32' 10") <b>Side conveyor midsize*</b> width 800 mm (31,5") length 10 m (32' 10") <b>Side conveyor bottom deck*</b> width 800 mm (31,5") length 10 m (32' 10") <b>Product conveyor undersize</b> width 1,200 mm (47") *Adjustable discharge height	<b>Model</b> CAT® C3.6 <b>StageV/Tier4F</b> 100 kW (134 hp) <b>Tier3</b> 106 kW (142 hp) <b>Fuel tank</b> 300 l (79 gal) <b>Hydraulic oil</b> 105 l (28 gal) *Available as an option	<b>Length</b> 19,650 mm (64' 2") <b>Width</b> 3,040 mm (10') <b>Height</b> 3,560 mm (11' 1") <b>Weight</b> 33,000 kg (72,700 lbs)*

\*Capacity depends on application (required end products, feed material characteristics and size, moisture etc.).



Transport as a single unit.



Adjustable conveyor heights for flexible operations.



e-Power for efficient hybrid diesel-electric operation.



Large feed box allows closed circuit process.

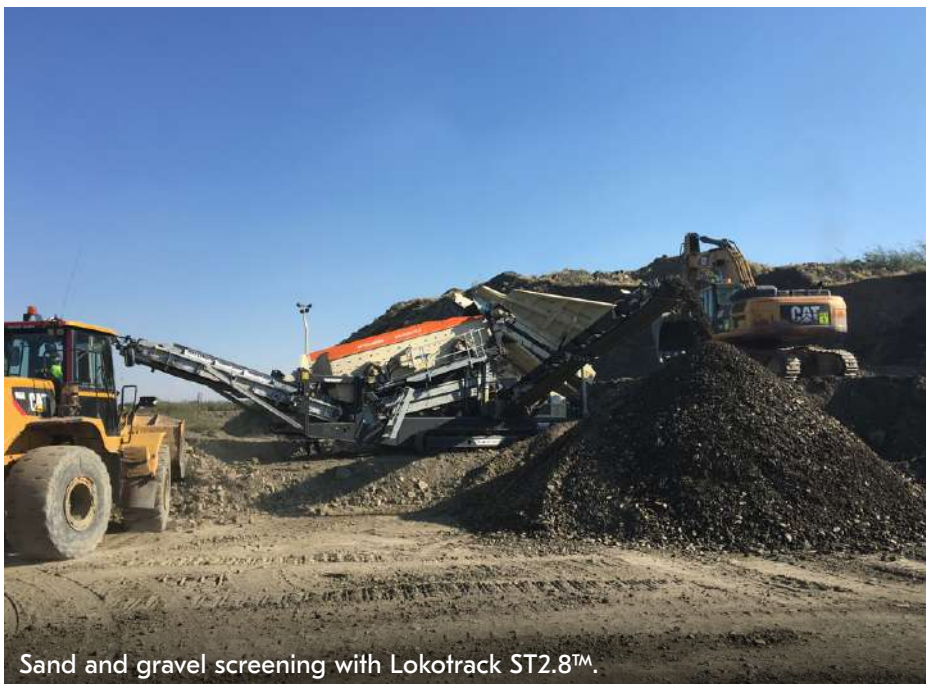
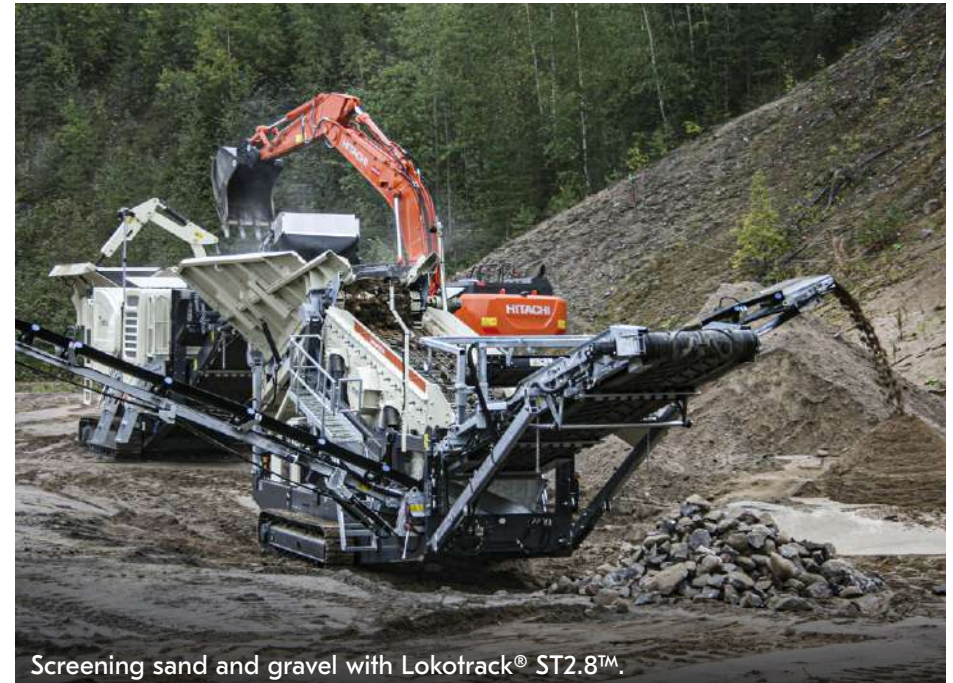


*"When such volumes are being produced by a single crushing plant, the machinery needs to be reliable. Metso Outotec is known as a dependable Finnish company that also provides well-functioning maintenance services."*

Jari Pärhä, Pärhä Oy

# Examples of Lokotrack® ST applications







*"I don't care if you make the best equipment in the world, it's worthless unless you can support it, fix it, help the customer fix it, and operate it efficiently."*

Duff Boyd, Riverbend Construction Services, North Carolina, USA

## Metso Outotec expert support, parts and services

Rely on genuine Metso Outotec OEM wear and spare parts to minimize maintenance issues and ensure long-lasting productivity. Our global network of Metso Outotec distributors and logistics warehouses ensure that OEM spare and wear parts are available when you need them. With both standard and engineered-to-order parts, we can ensure that you have the support your mobile screens need.

- Global Metso Outotec support and service
- Genuine Metso Outotec parts
- Improved equipment reliability
- Global availability
- A wide selection of screening media





### Case Story



## NCC Bornholm modernizes their operations with a Lokotrack ST2.8

"ST2.8 has been designed to meet the requirements of demanding primary crushing, and it's ideal for processing crushed rock material," says, Jørgen V. Nielsen, Project Manager, Dansk Grusgrav Materiel ApS.

Read the full story at: [mogroup.com/insights/case-studies](http://mogroup.com/insights/case-studies)

### Case Story



## C & H Paving reduced costs with a multi-stage Lokotrack solution

"Every piece we bought was mobile. Everything talks to one another, and it just makes more production. And at the end of the day, it saves labor and time for everybody," says Benji Cranford, owner of C & H Paving.

Read the full story at: [mogroup.com/insights/case-studies](http://mogroup.com/insights/case-studies)

### Case Story



## Pärhä Oy upgrade their crushing operations

"A high level of quality and an even production wouldn't be possible without our experienced and professional personnel. I'd like to thank our entire team," says Jari Pärhä, Director of Crushing Operations.

Read the full story at: [mogroup.com/insights/case-studies](http://mogroup.com/insights/case-studies)

Metso Outotec is a frontrunner in sustainable technologies, end-to-end solutions and services for the aggregates, minerals processing and metals refining industries globally. By improving our customers' energy and water efficiency, increasing their productivity, and reducing environmental risks with our product and process expertise, we are the **partner for positive change**.