

RM J110X hydraulic

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RM J110X

technical details

CRUSHING CAPACITY	Up to 450 tph (depending on application)
FEED SIZE	Up to an edge length of 850 mm or 600 x 600 x 600 mm
CRUSHER DETAILS	Feed opening: 1,100 mm x 700 mm Type: Single toggle Weight: 19,500 kg CSS range: 45 mm – 175 mm (acc. to application) (320 mm max in overload situation)
HOPPER	Hydraulic folding & self-locking hopper walls 12 mm thick Hardox 450 Width: 2,530 mm Length: 4,600 mm Level capacity: 6.15 m ³
GRIZZLY FEEDER	Width: 1,080 mm Length: 4,240 mm Top deck size: 1,080 mm x 2,000 mm Bottom deck size: 1,070 mm x 1,300 mm
DIESEL TANK CAPACITY	660 litres
OPTIONAL SIDE DISCHARGE CONVEYOR	Belt width: 650 mm Discharge height: 2.5 m
POWERPACK	Cat C9.3B Stage 3a or Stage 5
MAIN DISCHARGE CONVEYOR	Belt width: 1,200 mm Discharge height: 3.9 m
TRANSPORT DIMENSIONS	Length: 14.7 m Width: 2.85 m Height: 3.4 m Transport weight (no options): ~ 52,000 kg

XTREMELY EFFICIENT

XTREMELY POWERFUL

XTREMELY MODULAR

XTREMELY USER FRIENDLY



RM J110X

Highlights



Optimized service accessibility to fixed jaw

Robust & reliable 19,500 kg crusher box with best throughput-to-weight ratio

Optional hopper extensions for increased hopper capacity (8,2 m³ to 12 m³ heaped)

For highest user flexibility - available with grizzly/punch plate/RM Active Grid or Active Prescreen 2D



Hydraulic overload protection with automatic reset

Easy startup under load

Maximize operator performance intuitively with machine communication lighting



Optimized material flow due to a 1,200 mm wide conveyor belt; hydraulically lowering and removable

3-way chute for maximum versatility in material distribution

Optional side discharge conveyor; mountable on left or right side



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- Reasonable **extension** of the RM processing system
- Completion of the product range



- **Primary crusher** for hard & abrasive material
 - Additional processing step
 - Prepares material for further processing by impactor & screener
 - Typical applications:
 - Heavy duty Recycling: e.g. heavy reinforced concrete
 - Hard rock & abrasive material like granite, basalt, iron ore, etc.
 - Prepares material for further secondary or tertiary processing equipment

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Feeder unit



Standard grizzly section
(or punch plate)



Optional Active Grid[®]
for increased performance



Optional Active Prescreen 2D
for specified end-product

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Optional side discharge conveyor

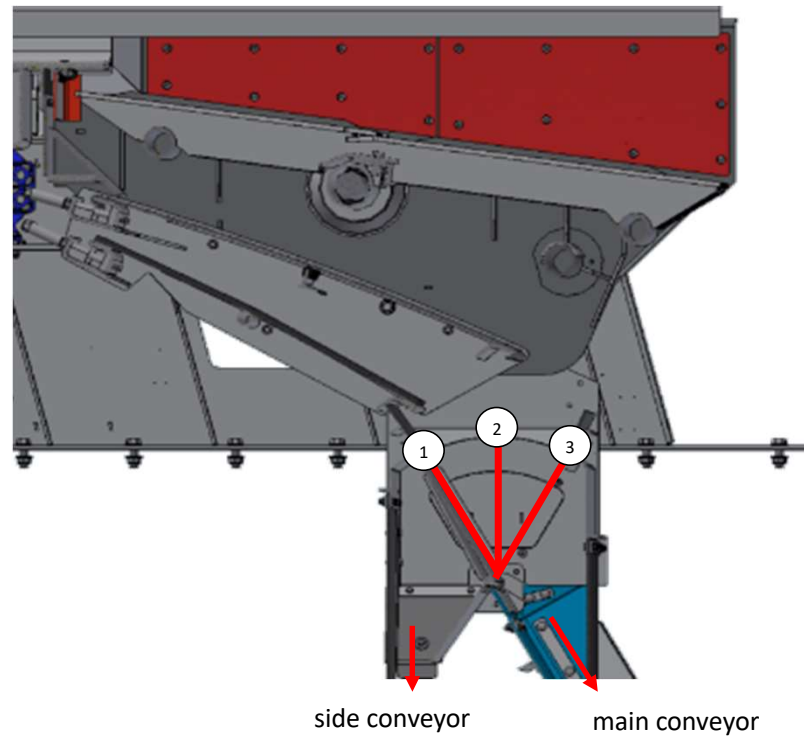
- Can be mounted on the left or right side
- Dust covers available



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Maximised open area of pre-screen

3 position dirt chute can **distribute material without removing screening media**

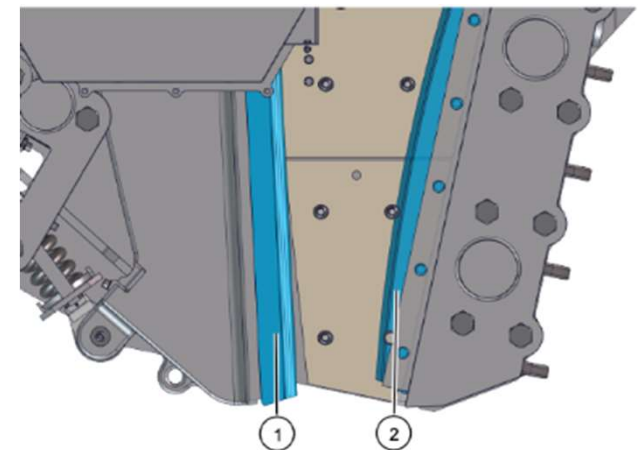


XTREMELY POWERFUL & RELIABLE



Best ratio throughput / weight

- **Robust & reliable** crusher box (19,500 kg)
- Capable of **up to 450 TPH** depending on application
- **Higher reduction ratio + better product quality** with ~ 10 % deeper jaw than most jaws of this size
- Easy start-up under load



- 1) Moving jaw
- 2) Fixed jaw

Increase productive uptimes

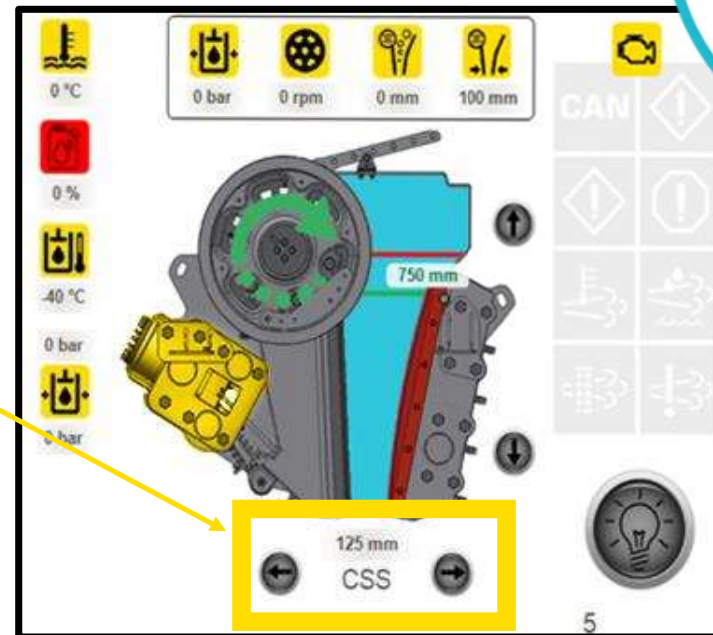
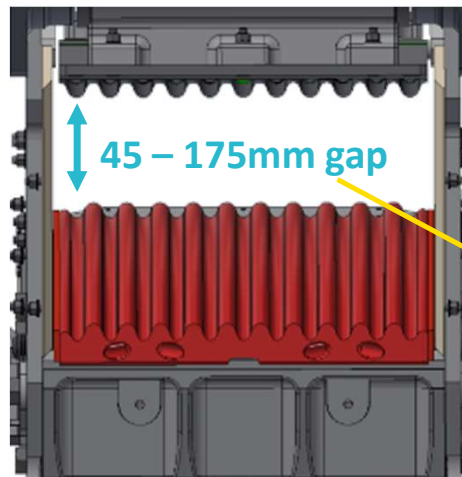
- Optimized service accessibility to fixed jaw wedges – from side walkway
 - Easy removal of fixed jaw in only 1 hour
 - Hydraulic cylinder for removing the fixed jaw



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Closed side setting

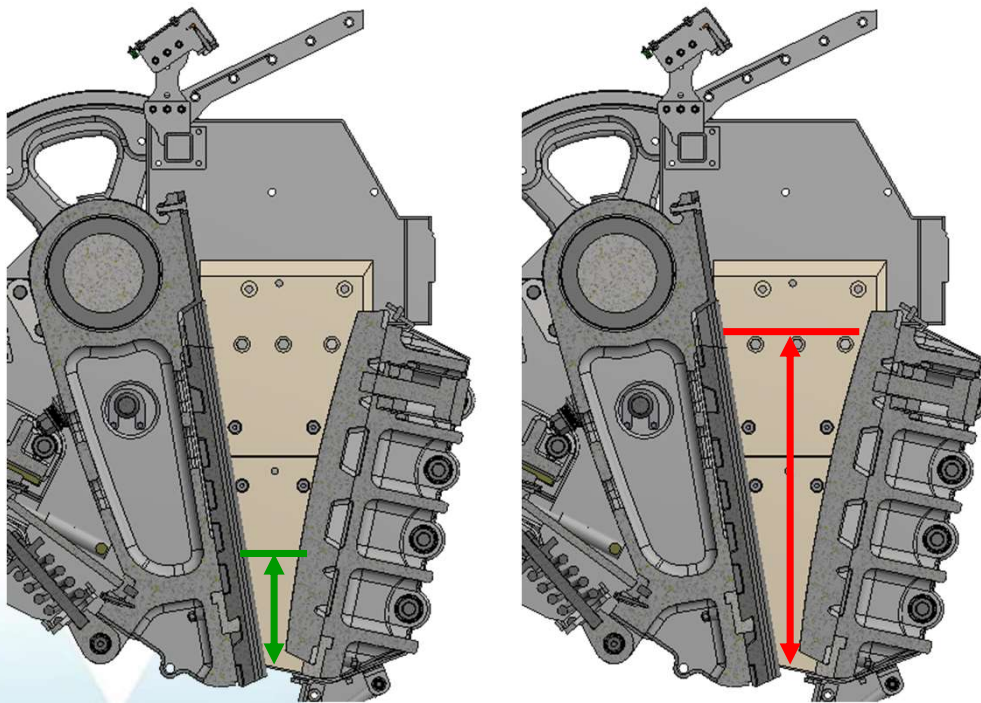
- Easy change of CSS by a finger-tip
- Can be adjusted whilst crushing



XTREMELY EFFICIENT



Optimized throughput – optional jaw level sensor (load sensing system)



Advanced operator interface available if needed.

		Start ↔	Stop ↔	🕒
	0 mm	750 mm	500 mm	250 ms
	0 mm		500 mm	1000 ms
	0 %	75 %	85 %	250 ms

→ Feeder speed controlled at the set engine utilization

→ Feeder automatically stops at the set discharge height

Levels can be set individually

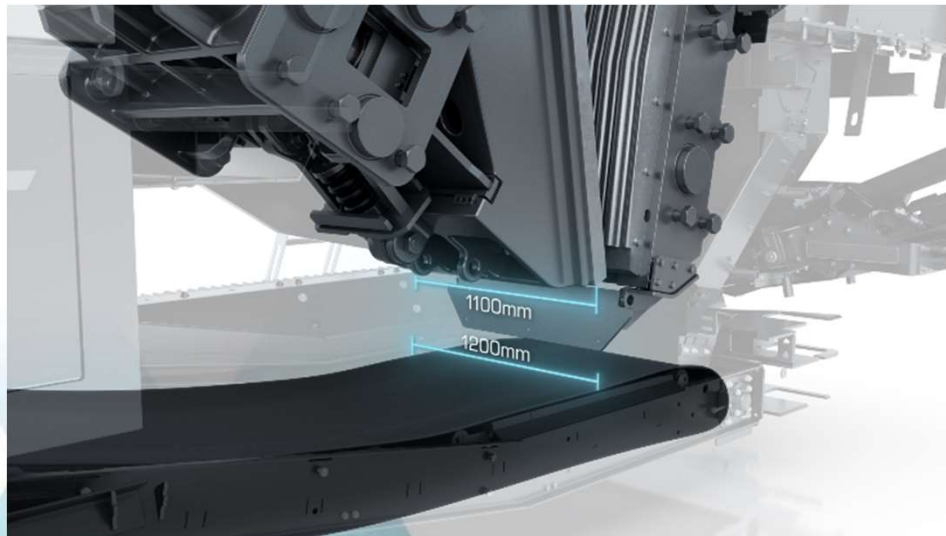
Green line: pan feeder automatically increases speed above set-point

Red line: pan feeder automatically stops above set-point

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Optimized throughput

- 1,200 mm wide main conveyor
- Good access underneath crusher box
- About 500 mm belt clearance between jaw and main conveyor
- 100 mm and 200 mm lifter beams available (600 or 700 mm clearance)



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Main discharge conveyor

- Can be lowered for clearing blockages
- Makes serviceability easier

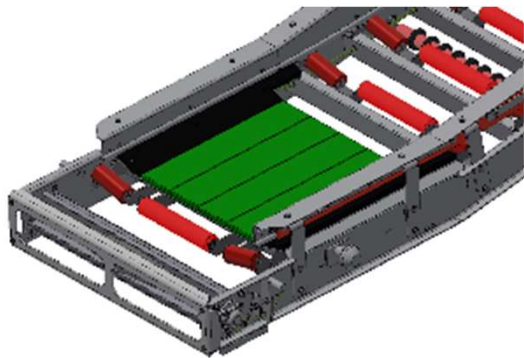
3.87m



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Main discharge conveyor

- Demountable for easy belt change
- Impact bed for long life-time



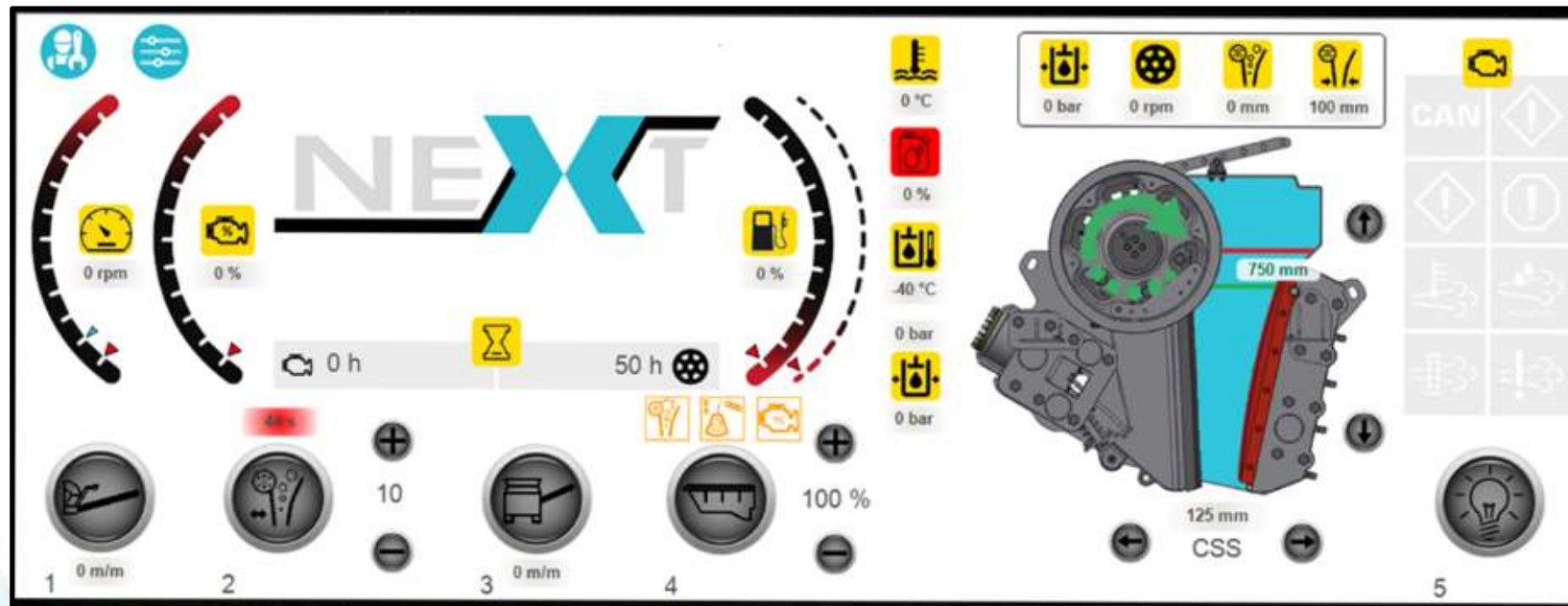
impact bed



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Increase productive uptimes

Intuitive operator interface with touch screen - all info to establish operation



All above operation possible from the radio remote control.

Machine – Operator Communication

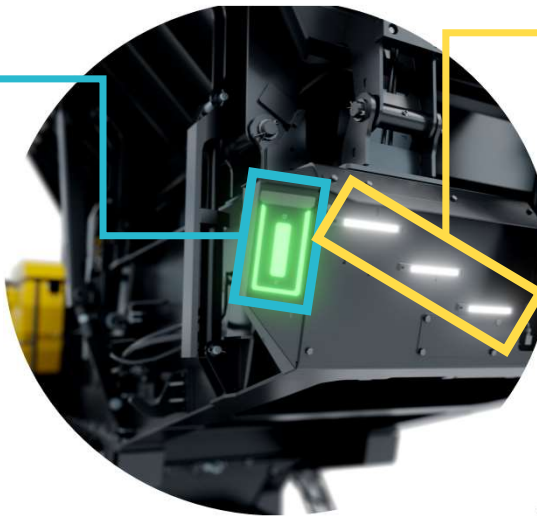
COMMUNICATION LIGHTS

Green: machine is in crushing/screening operation, machine is in optimal condition

Green flashing: zero conveying active

Yellow flashing: machine is moving or starting belts

Red: a problem has occurred



PERFORMANCE INDICATOR

Shows the operator the machine's current utilization level.

1 LED on: utilization > 25 %

2 LEDs on: utilization > 50 %

3 LEDs on: full capacity utilization

Flashing: crusher is in overload condition

Maximize operator performance intuitively!

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PERFORMANCE INDICATOR & COMMUNICATION SIGNAL



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Communication: Machine - Machine

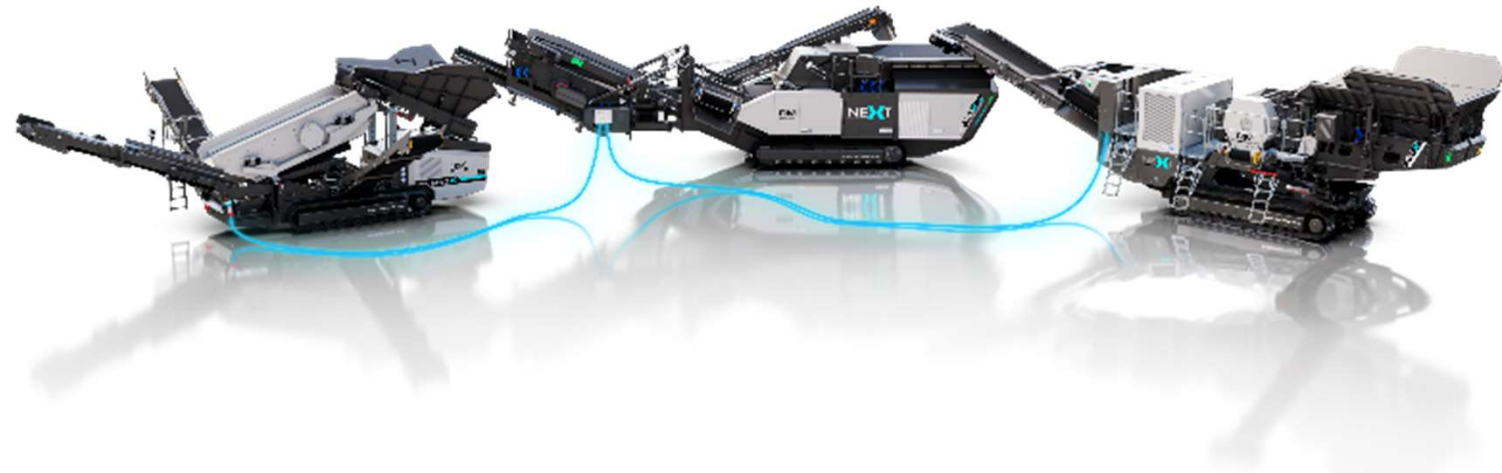
INCREASED SAFETY



EASY CONNECTION

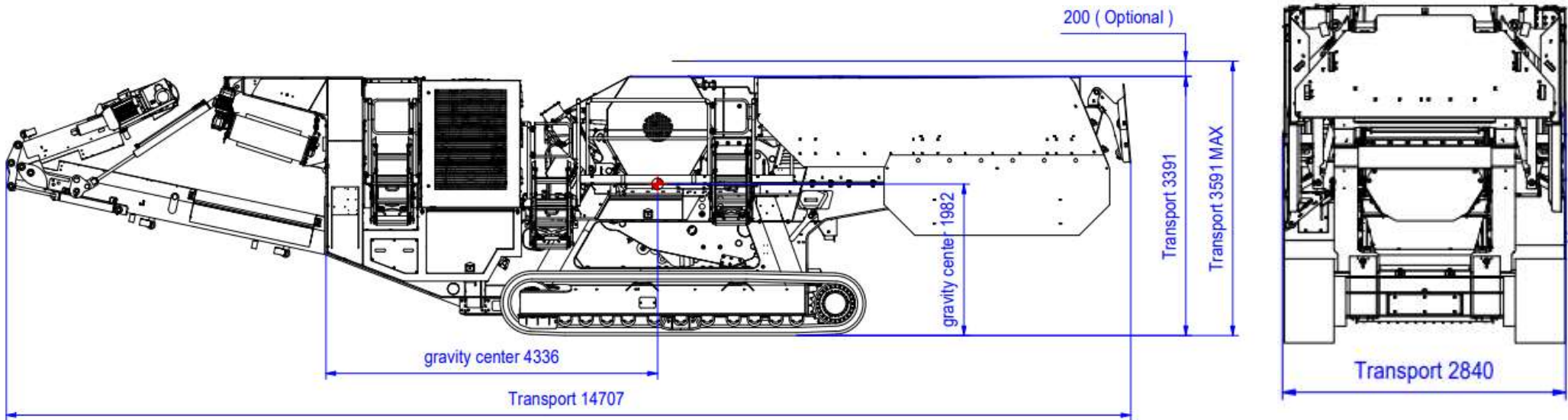


COST REDUCTION



Transport Dimensions

- Hydraulic drive basic machine weight 52,000kg



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RM XSMART – Save time & keep track



Overview

- See all registered machines, types, serial numbers
- Machine Status display



Production key indicators

- Efficiency calculation: fuel consumption/ton
- Operating hours
- Average engine utilization
- Diesel consumption: absolute and per hour
- Remote monitoring of diesel & AdBlue levels
- Weighing data from up to four weighing points (optionally available)
- Throughput capacity/weighing stations (optionally available)



Disposition

- Machine location incl. GPS coordinates
- Nearest postal address to the machine location
- Colored overview, which machine is in operation
- Status report



Service support

- Error codes and frequency online as PDF download for workshop coordination
- Day and time accurate reports individually and freely definable





Enjoy the demonstrations!

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**KEEP CRUSHING
& SCREENING!**



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