



TECHNICAL SPECIFICATION

MT10R



OVERVIEW

SPECIFICATION

Total weight: 53,000kg - 62,000kg (116,845lbs - 136,687lbs)

Transport: Complete unit dimensions shown.
(Module breakdown for transport shown on pages 14 and 15)

Length 1 roller: 15m (49' 3")
Length 2 roller: 18m (59' 1")
Height: 4.2m (13' 9")
Width 3.1m (10' 2")

Roller type: Gap setting range: 40mm - 80mm

Configuration: 1 set of 8 or 10 rollers
2 sets of 8 (standard) or 10 rollers
2 sets of 5 rollers

Power unit: Tier 3/Tier 4F/Stage V
Volvo TAD582VE
(up to 160kW / 215hp)

Plant colour: RAL 7030, RAL 3020, RAL 7024, RAL 9005



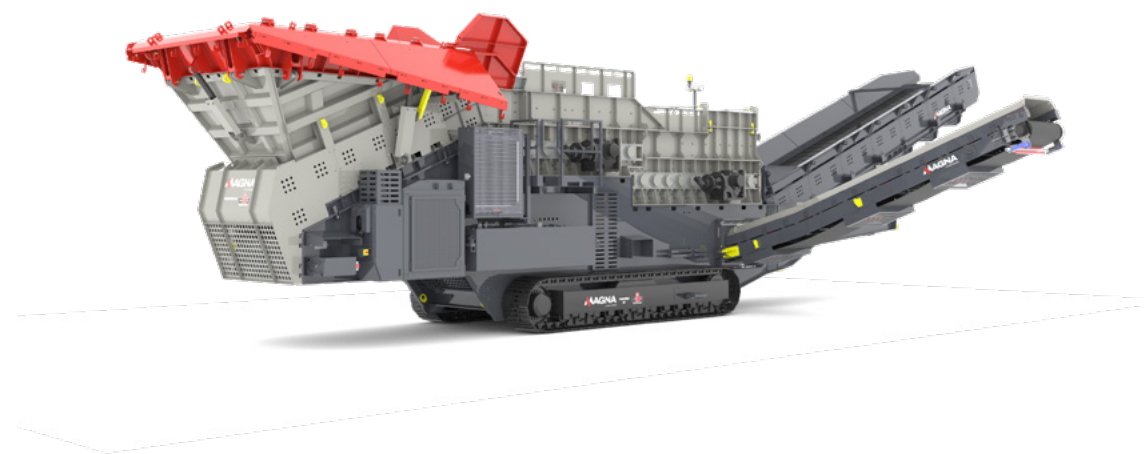
OVERVIEW

The MT10R roller grizzly serves as an ideal pre-classifying screen for feed material with high clay, contaminant, and moisture content. While conventional pre-screening machines may clog and operate inefficiently, the roller grizzly excels due to its horizontal rotating rollers and integrated self-cleaning function.

Downstream plant in the material flow—such as crushing or further screening equipment—benefits significantly from this preparatory work, which positively impacts their operational efficiency and service life. The unit is fitted with an apron feeder as standard, with optional 1 or 2 stage roller sections available. Multiple conveyor options positioned underneath can provide up to three product splits.

FEATURES & BENEFITS

- Output potential up to 300tph / 331 US tph depending on material type crusher settings.
- Ideal for pre-screening in combination with jaw or impact crusher.
- Modular feed unit allows for flexible hopper extensions.
- Variable discharge height for efficient integration with downstream equipment.
- Robust construction for long service life under tough working conditions.
- Up to 3 screened end products

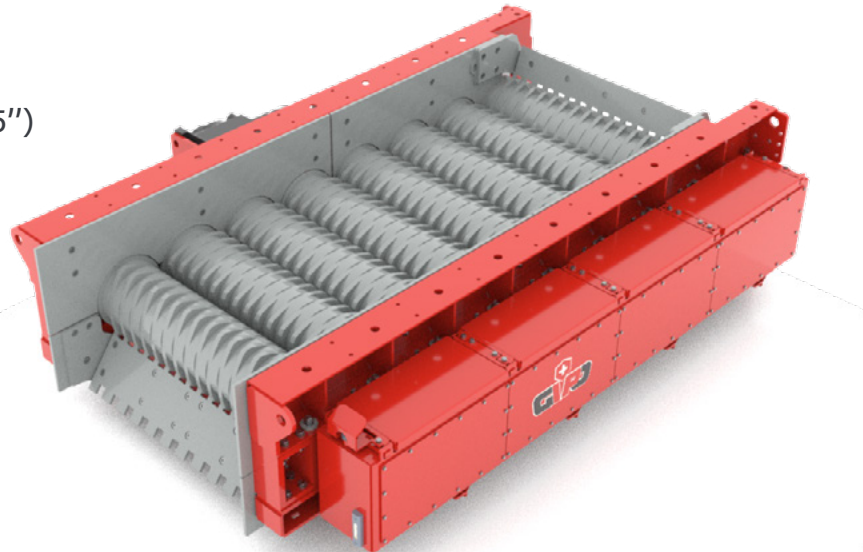


ROLLER GRIZZLY

TECHNICAL SPECIFICATION



Useful width:	970mm (50")
Number of rollers:	1 x 8, 1 x 10, 2 x 5, 8, 10 (flexible)
Gap dimension:	Predefined from 40mm - 120mm (1.5" - 4.75")
Lubrication:	Grease (self lubrication)
Drive:	Hydraulic or electric (15 - 22kW)



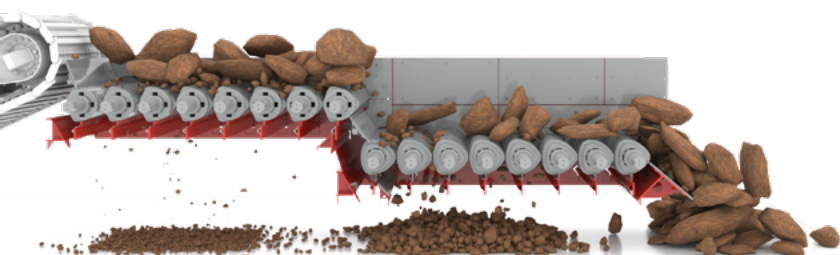
- Best power transmission via planetary shaft-mounted gearbox with hydraulic or electric drive motor.
- The transition and side walls are lined with replaceable wear plates; additional height increase can be fitted if required.
- The lower supporting frame carries the heavy components and integrates roller scrapers for optimal cleaning.
- The roller grizzly shafts are square steel sections with drive cams and spacers, made of high-quality wear-resistant steel.
- The chains and sprockets run in an oil bath that ensures continuous lubrication.
- Specially designed chains engage the sprockets to ensure even shaft movement. Reverse operation is also possible.

TECHNICAL SPECIFICATION



1 Stage

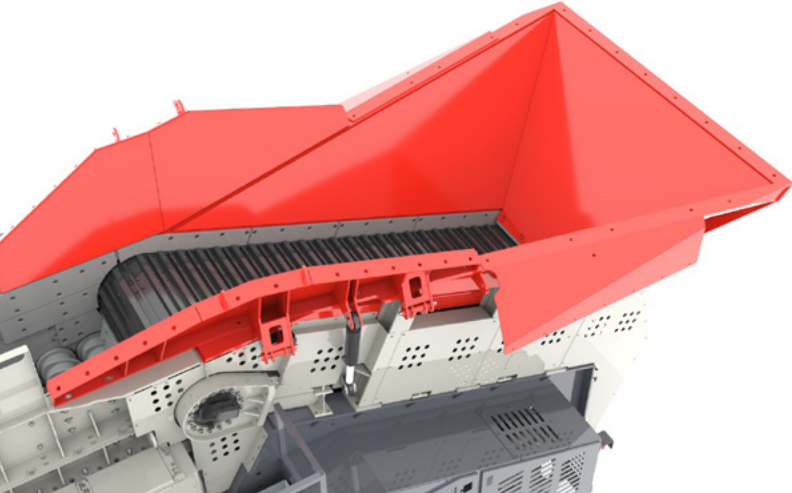
- Primary cleaning/scalping/screening.
- The moist material and material containing clays/contaminants are separated
- Gap width can be selected as required
- Primarily used as pre-classification for crushers
- Adjustable roller speeds



2 Stages

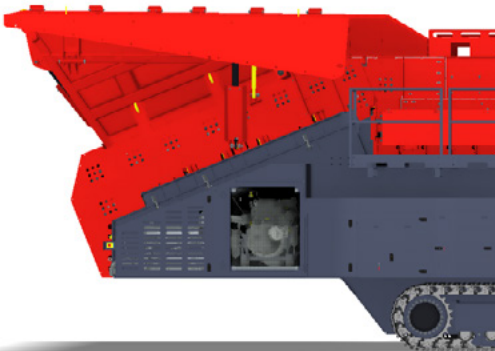
- Primary and secondary cleaning/scalping/screening.
- The moist material and material containing clays/contaminants are separated
- The material rolls through the stage improved efficiency
- Gap width can be selected as required for two different particle sizes
- Can be used as pre-classification and coarse-lump pre-classification
- Adjustable roller speeds

HOPPER



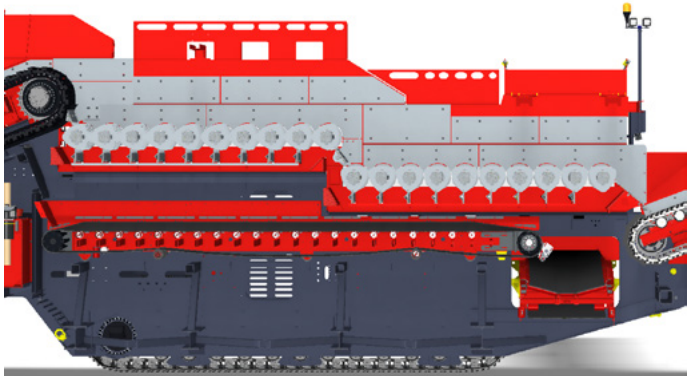
- Hopper type:** Standard fixed or optional hydraulic locking extensions locking from ground level
- Hopper length:** 3.8m - 4.1m (12'6" - 13'5")
- Hopper width:** 2.5m (8'2") standard
2.8m - 3.0m (9'2" - 9'10")
- Hopper feed heights:** 3.6m - 4.1 (11'10" - 13'5") with extension
- Hopper capacity:** 4m³ - 7m³ (2.5yd³ - 9.2yd³) with extension
- Hopper body:** Abrasion resistant Hardox body.
Screw-in Hardox liners (optional)

Hopper extensions (optional)



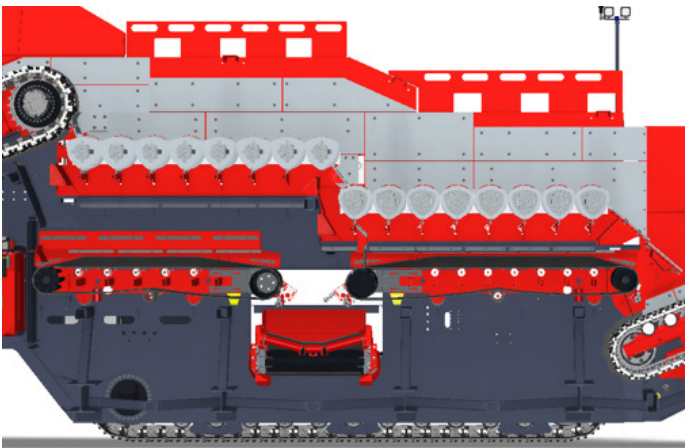
- Manual (fixed) extension or full hydraulic folding options

COLLECTING CONVEYOR



With one collecting conveyor

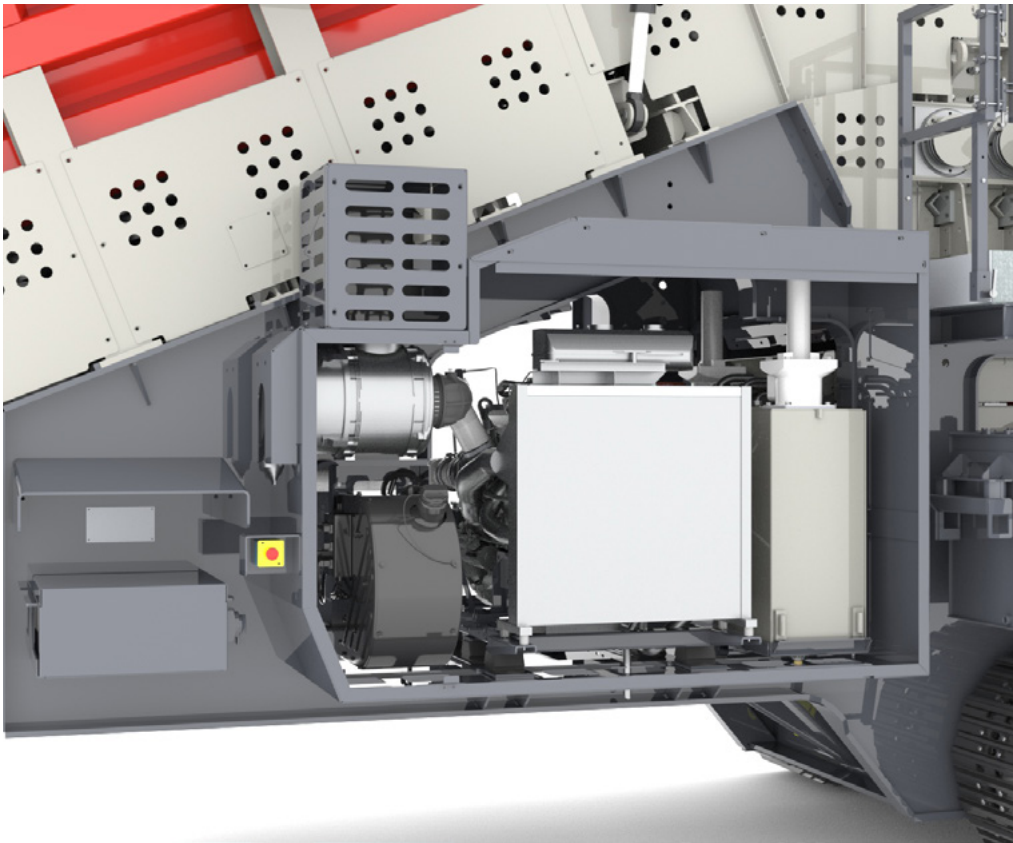
- 1000mm (3'3") wide rubber belt for collecting screened material from Rollers Stage 1 & 2
- Only one side-conveyor (can be mounted on either side)
- Ease of maintenance and accessibility
- Robust rubber and support rollers
- High spec belt scraper



With two collecting conveyors

- 1000mm (3'3") wide rubber belt for collecting screened material from Rollers Stage 1 & 2
- 1-grade split, or 2-Stage back to Discharge Apron

POWER UNIT



DRIVE TECHNOLOGY

The right drive technology for every application – with proven solutions.

Power unit: Tier 3/Tier 4F/Stage V:
Volvo TAD582VE 160kW

Speed range: 1450 - 2100rpm

Fuel tank capacity: 680L (180 US gallon)

Hydraulic tank capacity: 445L (118 US gallon)

DISCHARGE APRON CONVEYOR

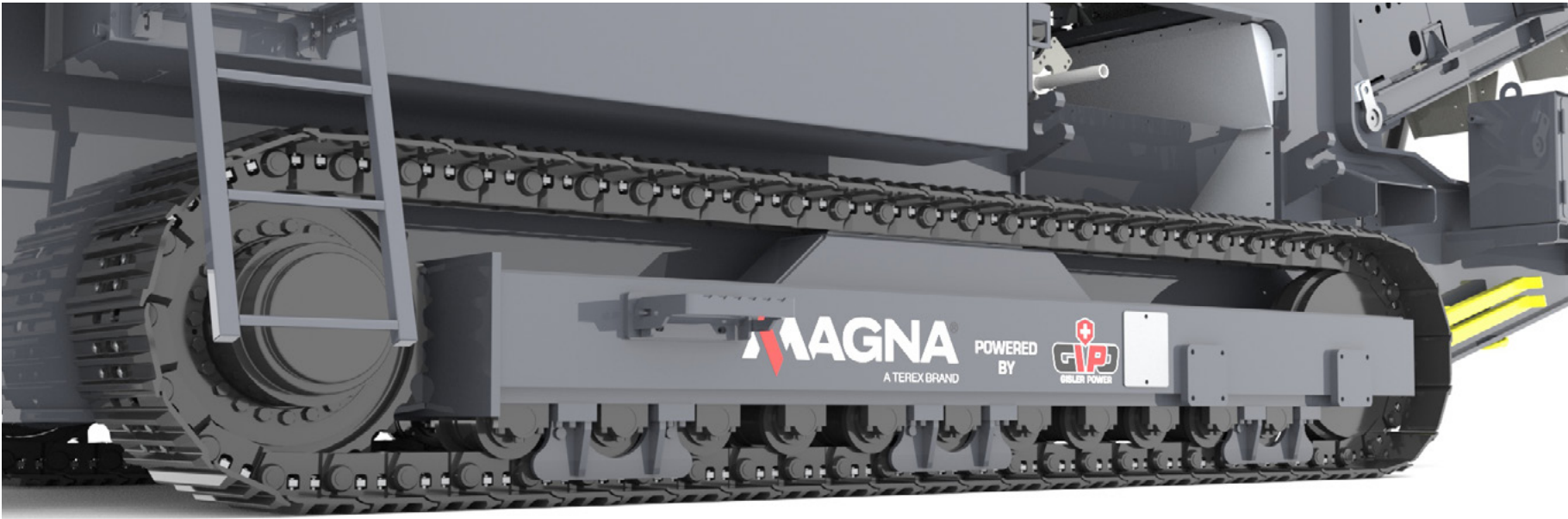
DISCHARGE APRON CONVEYOR

The robust discharge apron feeder ensures uniform material discharge from the roller grizzly. Its solid design is built for heavy loads and guarantees reliable, continuous operation even under demanding conditions.

- 1000mm (3'3") wide steel plate conveyor
- Discharge height approx. 5.2m (17'1")
- Speed: 2 m/min (360 ft/min) adjustable
- Single hydraulic motor
- High torque drive
- Full length skirting to head drum
- 3-Way chain support
- Length extension optional



Type:	Heavy-duty tracks, D6	Speed:	2.0kph (1.2mph)
Sprocket centres:	4.1m (13' 5")	Drive:	Hydraulic motors
Track width:	500mm - 600mm (20" - 23")	Tensioning:	Hydraulic adjuster, grease tensioned
Gradeability:	25°		



APPLICATION AREA

Our roller grizzly plants are suitable for tough applications. They are used for screening and removing heavy contaminants or material with a particularly high moisture content.

The specially designed shape of the rollers generates a wave motion that eases the separation of moist and sticky material without clogging. The material screened cleans the grizzly as a result of this wave motion.



CONTROL SYSTEM

- User friendly incremental selection of feeder and roller speed enable the operator to achieve optimal throughput
- Detachable doglead control for tracking
- Integrated machine and engine control panel
- Lockable compartment
- Emergency stops

CONTROL SYSTEM

- Umbilical unit supplied as standard
- Controls the tracking function and includes a stop button for the plant

CHASSIS

- Heavy duty I-section welded construction provides maximum strength and accessibility.

PLATFORMS

- Inclined step access on LHS and RHS of machine
- 2-side access to powerunit

GUARDS

- Composite guards are provided for all drives, flywheels, pulleys & couplings
- Designed and manufactured to meet CE & ANSI standards
- Hinged access guards are provided on the top, side and both ends of the engine

ADDITIONAL OPTIONAL EXTRAS

- **Conveyor belts:**
 - Hinged and quick coupler systems for efficient transport preparation
 - Variable conveyor belt lengths
 - Hoods and covers
- **Safety and working conditions:**
 - Plant lighting
 - Central lubrication
 - Refuelling pump
 - Water spraying and dust suppression
- **Increased ground clearance**
- **Air compression system**

TOOL BOX

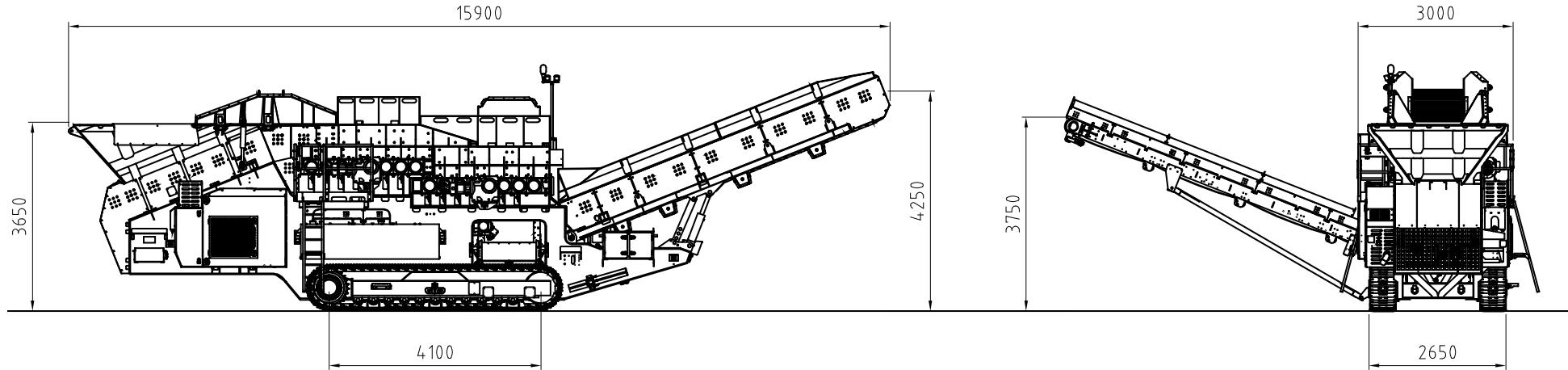
- Mounted lockable toolbox
- Tool kit and flogging spanners
- Grease gun
- Manuals

REMOTE CONTROL UNIT

- Full function radio remote unit
- Remote control for tracking (proportional available)
- Remote control for auxiliary drives

WEIGHT & DIMENSIONS

WORKING: Standard 2 x 8 Roller configuration shown

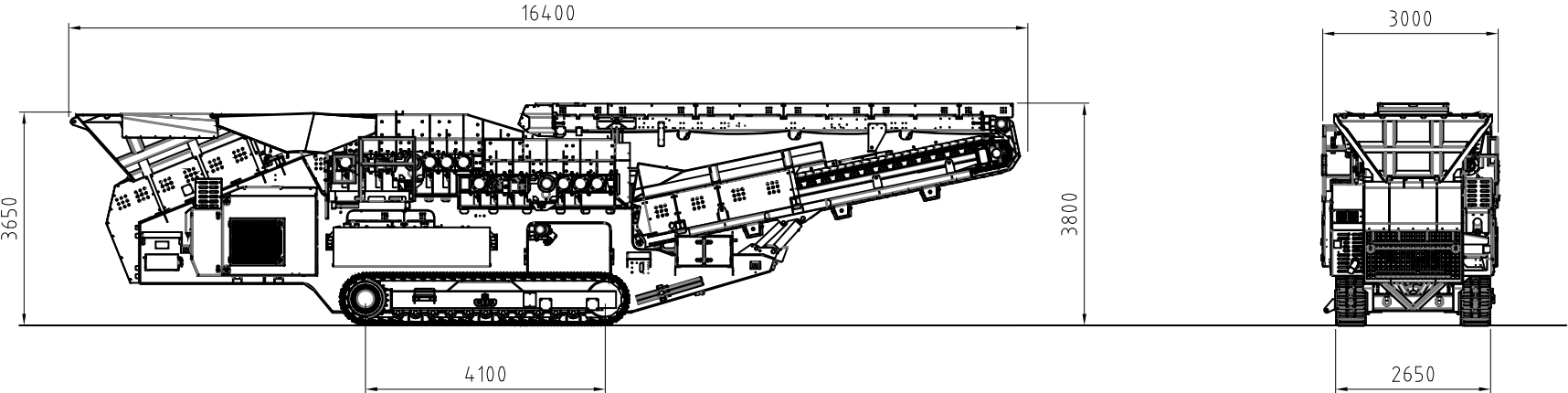


Total Weight: 53,000kg - 62,000kg (116,845lbs - 136,687lbs)

All dimensions and weights are approximate and may vary depending on the specific configuration of the plant.

WEIGHT & DIMENSIONS

TRANSPORT: STANDARD 2 X 8 ROLLER CONFIGURATION SHOWN



Total Weight: 53,000kg - 62,000kg (116,845lbs - 136,687lbs)

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