



Allegato 2b

Scheda tecnica frantoio mobile

Powerscreen® Metrotrak

Jaw Crusher

SPECIFICATION : Rev 0. 01/09/2017



Powerscreen® Metrotrak

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Specification		Metrotrak
Total weight		Tier 3: 27,920kg (61,553lbs) Tier 4F: 28,200kg (62,170lbs) (including VGF, hopper, HA chamber, bypass conveyor & twin pole magnet)
Transport	Length	12.4m (40' 8")
	Width	2.4m (7' 10")
	Height	3.2m (10' 6")
Working	Length	12.4m (40' 8")
	Width	3.8m (12' 6")
	Height	3.2m (10' 6")
Crusher type:		Single Toggle Jaw, feed opening 900mm x 600mm (35" x 23½")
Power unit:		Tier 3 / Stage 3A John Deere 4045 126kW (169hp) Tier 4F / Stage 4 Caterpillar C4.4 129kW (173hp)
Plant colour:		Blue RAL 5021, Grey RAL 7024, Black RAL 9005

Features & Benefits

The Powerscreen® Metrotrak is a compact, high performance track mobile jaw crushing plant featuring the "M" series single toggle jaw crusher. With an aggressive crushing action & a high output even at tight settings, the Metrotrak is ideally suited for small to medium sized operators in the mining, quarrying & recycling industries.

The new Metrotrak builds on the features of the Powerscreen Metrotrak HA by improving access for chamber wedge removal, fully tunnelled product conveyor, easy access product conveyor tail drum adjust, new compact design bypass chute with improved internal clearances & the option to fully lower product conveyor to clear blockages & aid maintenance.

- Output potential up to 200tph (220 US tph)
- Heavy duty fabricated chassis & track frame
- Heavy duty wear resistant feed hopper
- Stepped self-cleaning grizzly feeder
- Hydraulic setting adjustment
- Fully skirted up to magnet
- Grizzly bypass & fines chute
- Fixed hopper as standard
- Dust suppression system
- Uncomplicated design with simple operation
- Efficient direct drive
- Remote control via umbilical
- Easily set up
- Chamber unblocking system (optional)
- Powerscreen Pulse telemetry system as standard

Aggregate

- Sand & gravel
- Blasted rock
- River rock

Recycling

- C&D waste
- Overburden
- Foundry waste

Mining

- Processed ores
- Processed minerals

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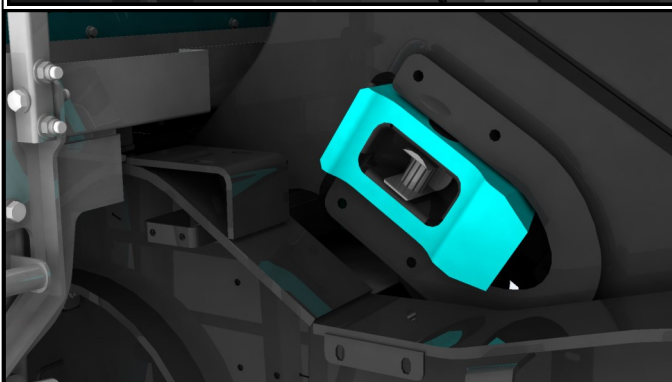
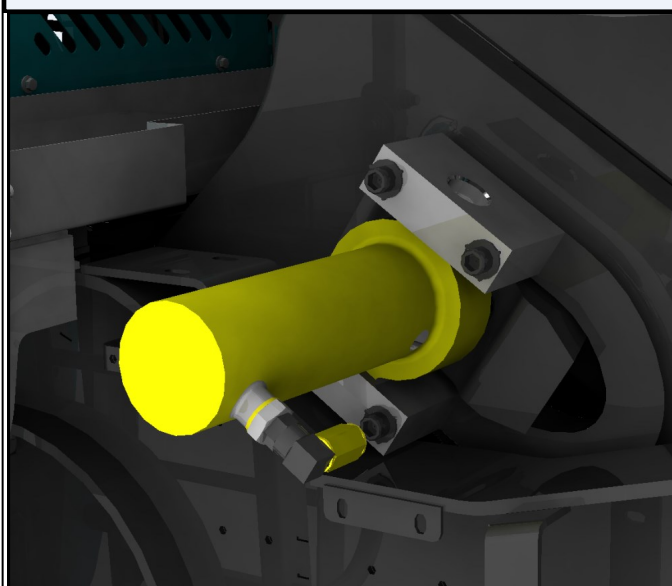
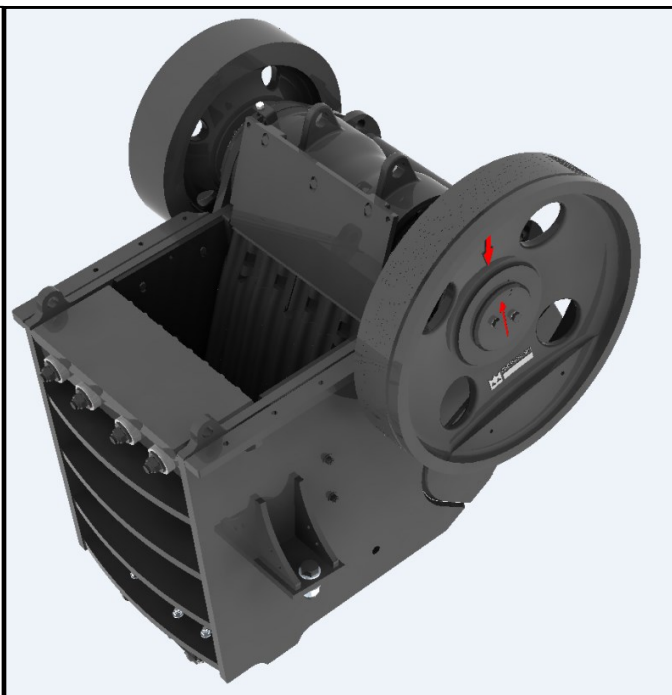
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Jaw Crusher

Crusher type:	'M' Series single toggle jaw with hydraulic setting
Feed opening:	900mm x 600mm (35" x 23½")
Bearings:	Self aligning spherical rollers
Lubrication:	Grease lubrication via lubrication points on crusher body
Drive:	Through V belts with screw tension adjustment on engine
Factory pre-set:	50mm (2") closed side setting (CSS)
Minimum setting:	40mm (1½") closed side on concrete. 50mm (2") CSS on natural rock not exceeding a 10% fines value of 390kN. Settings measured from root to tip of opposite tooth. For maximum material strength of 390kN 10% Fines, 240MPa compressive strength, as per other M-Series Jaws. For applications outside this range, please consult Powerscreen.
Maximum setting:	130mm (5¼") CSS (subject to feed grading)
Adjustment:	Full range CSS can be achieved hydraulically. CSS range Quarry 50 (2") - 130mm (5¼") Recycling 40 (1½") - 130mm (5¼")

Crusher Features

- Unrestricted feed opening
- Excellent crushing geometry
- "Live" crushing section with replaceable wear plate at the top of the jaw
- High reduction ratio



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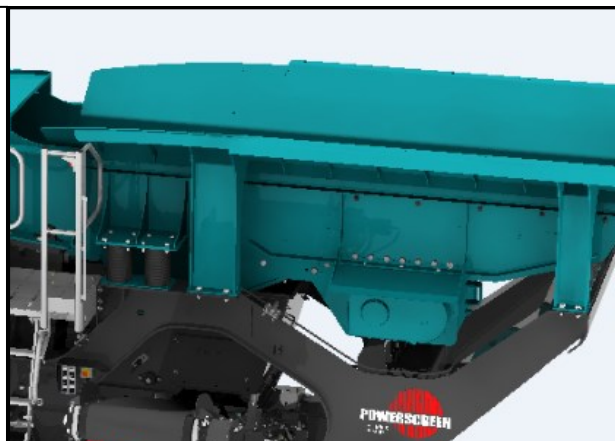


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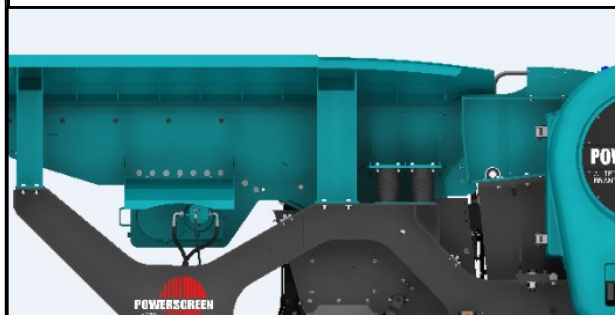
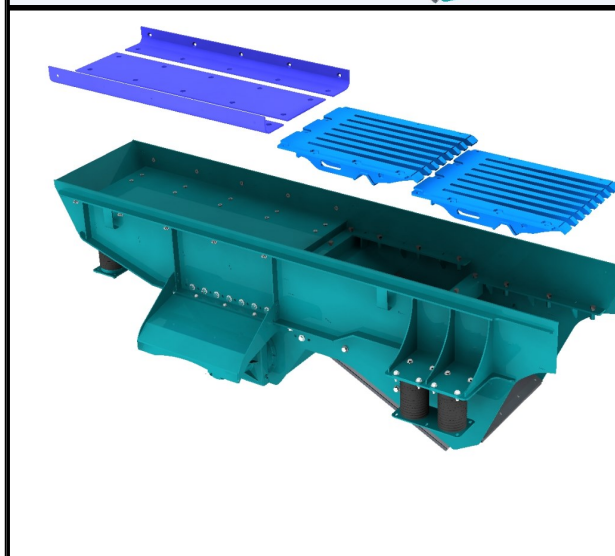
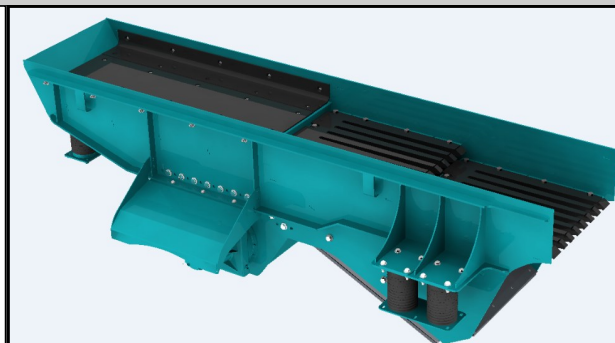
Hopper

Hopper type:	Fixed hopper
Hopper length:	4m (13' 1")
Hopper width:	1.8m (5' 9")
Hopper capacity:	Up to 3.6m ³ (4.7 cu. yd.) gross depending on method of feed
Hopper body:	8mm (1/3") thick, wear resistant steel plate



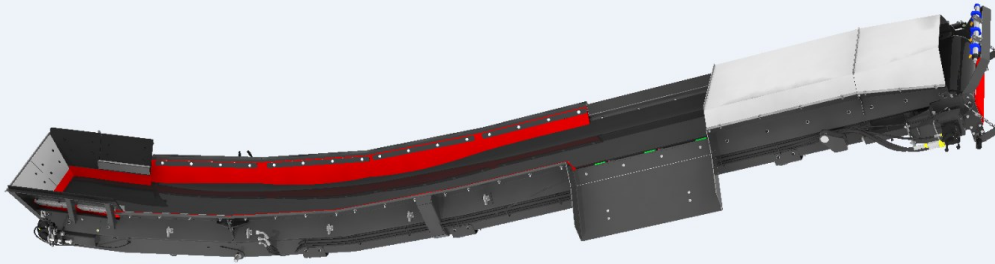
Vibrating Grizzly Feeder

Type:	Spring mounted vibrating pan
Vibrating unit:	Twin heavy-duty cast eccentric shafts running in spherical roller bearings, gear coupled at drive end
Length:	3.8m (12' 6")
Width:	800mm (2' 6")
Drive:	Flange mounted hydraulic motor
Grizzly:	2.16m (7') long fixed bars at nominal 50mm aperture tapered from front to back, with step & bolted into feeder body (Optional 75mm (3") grizzly cassette)
Underscreen:	Removable rubber blanking mat, replaceable with optional wire meshes
Control:	Variable speed (500—915 rpm) control through proportional flow control valve
Chute:	Bypass chute with internal two way flap door for controlling direction of fines, either forward onto product belt (if blanking mat fitted) or down onto optional bypass conveyor where specified



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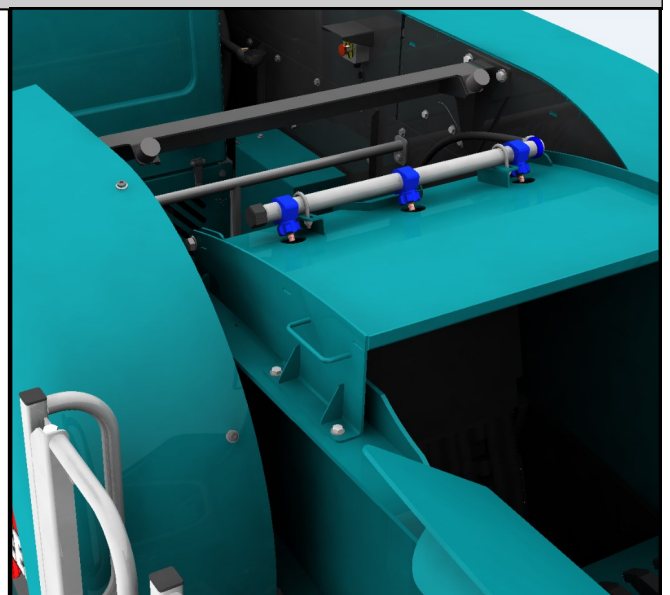
Product Conveyor

Conveyor type:	Troughed belt conveyor with fixed tail end
Belt type:	EP500/3 with 5mm top & 1.5mm bottom heavy-duty rubber covers
Belt width:	800mm (32")
Discharge height:	2.9m (9' 6")
Stockpile volume:	36m ³ (47 cu. yd.)
Drive:	Direct drive hydraulic motor
Feedboot:	Impact bars & wear resistant liners at feed point
Skirting:	Wear resistant rubber skirting along the length of the product conveyor up to the magnet
Belt adjustment:	Aluminium
Belt covers:	Canvas type removable dust covers are fitted at the head end
Belt scraper:	Polyurethane scraper fitted as standard

Dust Suppression Sprays

Spray bars with atomiser nozzles mounted over crusher mouth, product conveyor feed & discharge points. Piped to an inlet manifold for customer's pressured water supply.

Type:	Clean water multi-atomising nozzles
Inlet:	Single point
Pressure:	2.8 bar (42 psi)
Water supply:	7 L/min
Frost protection:	Via system drain valves
Pump:	Optional extra



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Power Unit

Tier 3 / Stage 3A
Constant Speed: John Deere 4045 –126kW (169hp)

Operating conditions: Ambient temperature +30°C & –5°C (86°F & 23°F) altitudes up to 1000m (3281ft) above sea level

Operating rpm range: 1800 rpm

Plant drive: High quality pumps driven via engine PTO's

Fuel tank capacity: 400 L (106 US Gal)

Hydraulic tank capacity: 280 L (74 US Gal)

Clutch type: High efficiency self-adjusting HPTO 12 dry plate clutch with electric hydraulic control

Tier 4 Final / Stage 4: Caterpillar C4.4, 129 kW (173hp)

Operating conditions: Ambient temperature +30°C & –5°C (86°F & 23°F) altitudes up to 1000m (3281ft) above sea level

Operating rpm range: 1800rpm—2000rpm

Emission control technique: Diesel Exhaust Fluid injection (DEF) & Diesel Particulate Filter (DPF)

Plant drive: High quality pumps driven via engine PTO's

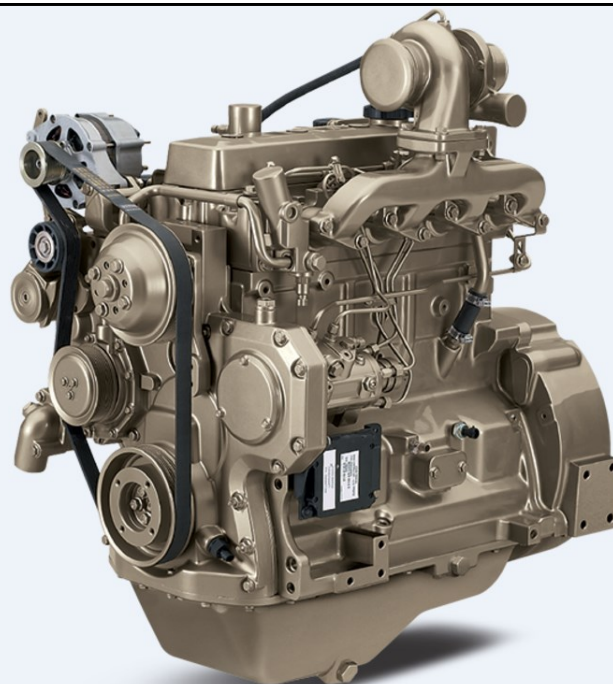
Fuel tank capacity: 400 L (106 US Gal)

Hydraulic tank capacity: 280 L (74 US Gal)

Clutch type: High efficiency self-adjusting HPTO 12 dry plate clutch with electric hydraulic control

Crusher drive: Direct drive via wedge belts, Clutch pulley diameter 180mm (7¹/₄ ") Crusher pulley diameter 1220mm (47³/₄ ")

Tensioning: Manually adjustable screw tensioners under power unit



Platforms

Maintenance platforms are provided on each side of the engine & on one side of the crusher feed chute with access ladder.



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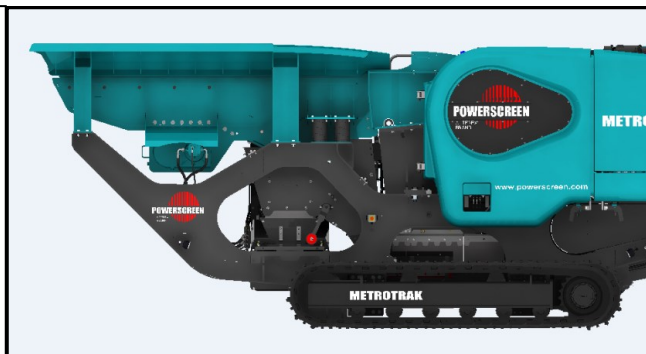


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Crawler Tracks

Type:	Heavy duty tracks fitted as standard
Shoe width:	400mm (15¾")
Track centres:	2950mm (9' 8")
Climbing grade:	30° maximum
Low speed:	0.8kph
High speed:	1.5kph
Drive:	Hydraulic
Tensioning:	Hydraulic adjuster, grease tension



Umbilical Control

An umbilical control unit is also supplied with the plant. This is fitted with controls for the track motion & a stop button for the plant.



Guards

GRP guards are provided for all drives, flywheels, pulleys & couplings

The guards provided are designed & manufactured to CE & ANSI standards



Toolbox

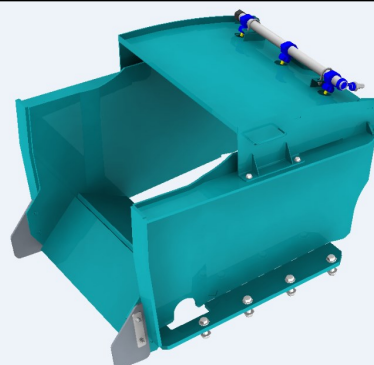
A plant mounted lockable toolbox is provided containing operators manual, grease gun, tool kit & flogging spanners



Plant Chutework

Fabricated 10mm (½") steel plate
25mm (1") abrasion resistant wear plate on base

Bypass chute : Fabricated from 6mm (¼") plate with 8mm (5/16") wear plates (removable)



Plant Controls

Advanced CANBUS compliant system - large display screen

Five simple operating modes with menu driven graphic user interface:

- Track mode — for moving machine
- Automatic mode — for automatically starting the machine in predetermined sequence
- Configuration mode — for testing/setting individual components
- User friendly incremental selection of feeder and crusher speed enables the operator to achieve the optimal throughput
- Detachable umbilical control for tracking
- Radio remote control (optional)
- Integrated machine and engine control panel
- Auto regulating feeder selectable for improved throughput control
- Seven emergency stops

Chassis

Heavy duty fabricated I section of welded construction

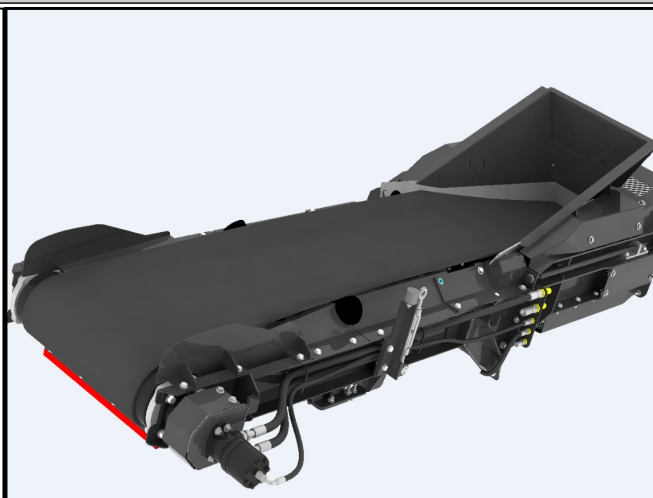


Optional Extras

- | | |
|--|---|
| <ul style="list-style-type: none"> ▪ Bypass conveyor ▪ Wire mesh for VGF underscreen ▪ Super tooth or multi tooth liners in lieu of premium jaw plates ▪ Magnet prepared ▪ Single pole overband magnet ▪ Twin pole overband magnet ▪ Jaw level sensor | <ul style="list-style-type: none"> ▪ Belt weigher ▪ Electric refuelling pump ▪ Hydraulic water pump for dust suppression ▪ Radio remote control ▪ Product conveyor hydraulic raise/lower ▪ Hydraulically folding product conveyor ▪ Blanking mat ▪ Aluminium dust covers ▪ Hydraulic deflector plate |
|--|---|

Bypass Conveyor

Conveyor type:	Troughed belt conveyor, hydraulically folding
Width:	600mm (23½")
Discharge height:	2m (6' 7")
Stockpile volume:	11.9m ³ (15.56 cu. yd.)
Drive:	Direct drive hydraulic motor
Position:	Discharges on either side of plant



Powerscreen® Metrotrak Options

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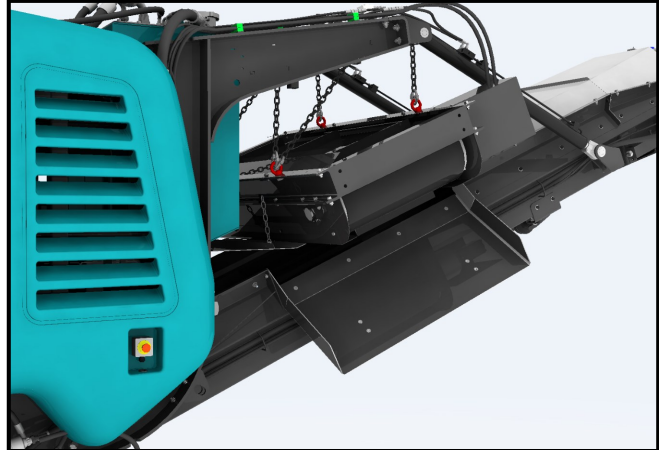
Underscreen Media

Position: Replaces standard blanking mat, used in conjunction with optional bypass conveyor
Apertures 10, 20, 30, 40 or 50mm



Magnet

Type: Suspended self cleaning over-band magnet with endless belt
Magnet width: 750mm (29½")
Magnet length: 836mm (33")
Drive: Hydraulic motor
Control: Variable speed
Discharge chute: Via stainless shedder plate
Power: 600 Gauss at 200mm (8")
480 Gauss at 250mm (10")



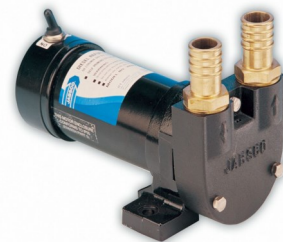
Belt Weigher

Type: Modular scale with stainless load cells, single idler speed wheel & display unit
Accuracy: $\pm 1.0 + 0.5\%$
Load cells: Two temperature compensated parallelogram-style, stainless steel
Display: Separate read out in toolbox



Electric Refuelling Pump

24 volt refuelling pump, allows fuel to be drawn from a remote source. Fuel transfer rate 50 L/min (13 US Gal/min)

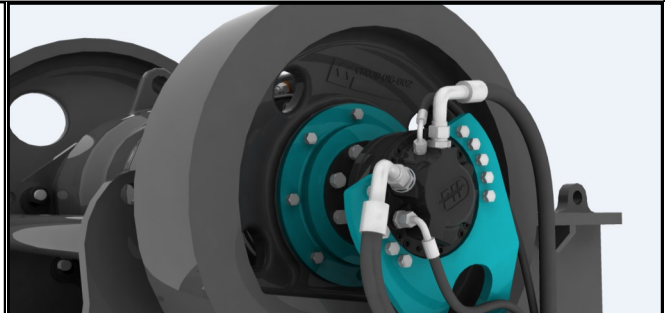


Chamber Unblocking System

Uses a motor mounted on the flywheel to cycle the chamber back/forward to crush blocked material

Note: Machine cannot be run in reverse continually

This option is available from January 2018



Powerscreen® Metrotrak Options

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Radio Remote Control

Complete with integrated tracking functions & plant stop button. NB - Only available in certain countries where type approval has been obtained

Remote can also be used to:

- Start/Stop feeder
- Control feeder speed



Hot/Cold Climate Oils

Cold climate oils - (Recommended for ambient temperatures between -20 to +30°C)

NOTE: Only suitable for Tier 3 Engine

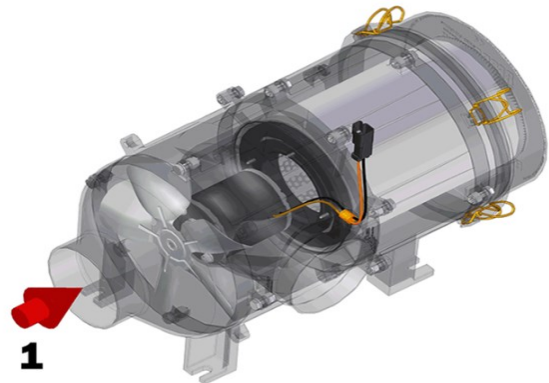
Hot climate oils - (Recommended for ambient temperatures between +15 to +50°C)



Control Panel Positive Pressurisation

An additional unit designed to reduce dust particles within the Control Panel.

A continuous flow of clean air is passed through the cabinet whilst the unit simultaneously filters out any particulate laden air.



Powerscreen Pulse Intelligence Telematics

Powerscreen Pulse is a system which allows the machine to relay performance and production data via phone networks, or by satellite when there's no cellular signal, to any device with a web browser, such as a PC, tablet or Smartphone.



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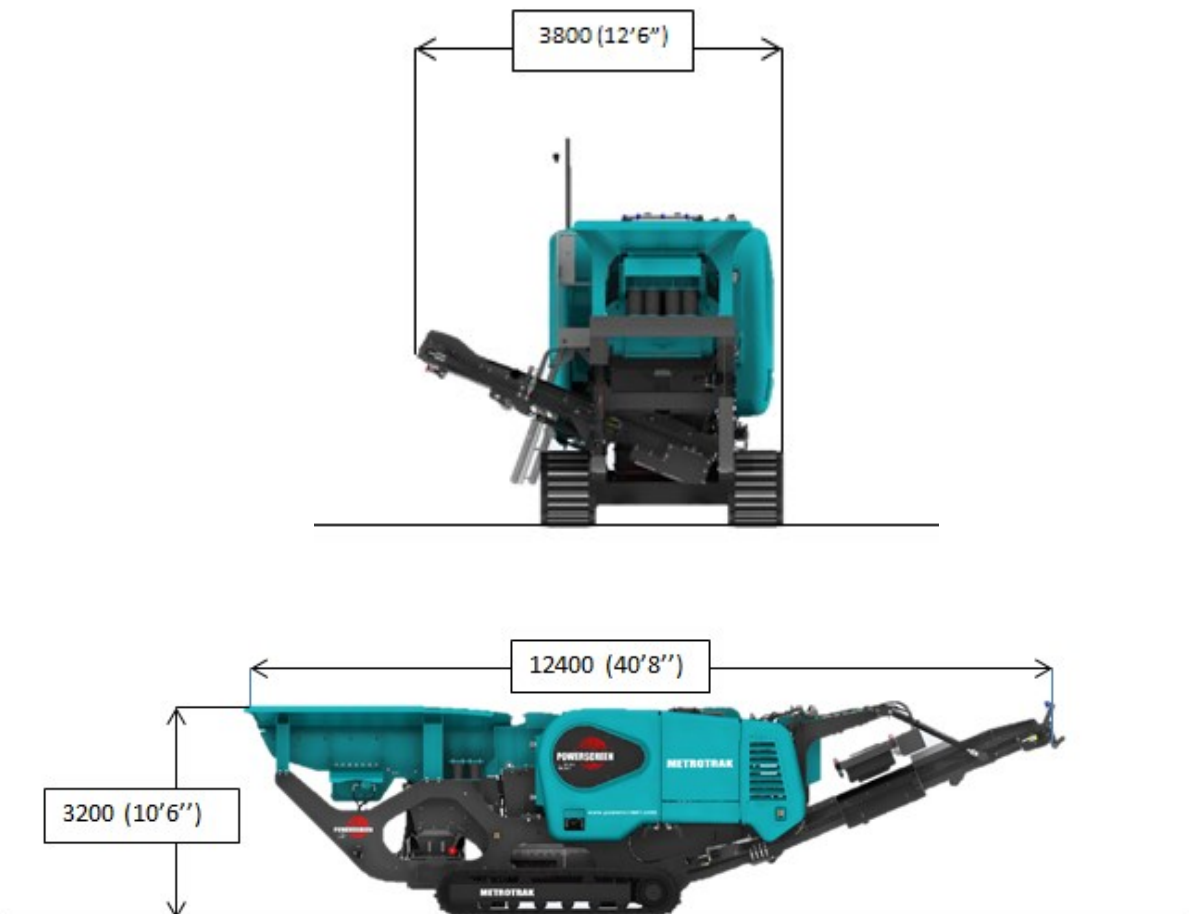
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Approximate Plant Weight & Dimensions

Working length: 12.4m (40' 8")
Working width: 3.8m (12' 6")
Working height: 3.2m (10' 6")

Total plant weight: Tier 3 / Stage 3A: 27,920kg (61,553lbs)
Tier 4F / Stage 4: 28,200kg (62,170lbs)
(Both including VGF, hopper, HA chamber, bypass conveyor & twin pole magnet)

Metrotrak Working Dimensions



All specifications subject to change without prior notice



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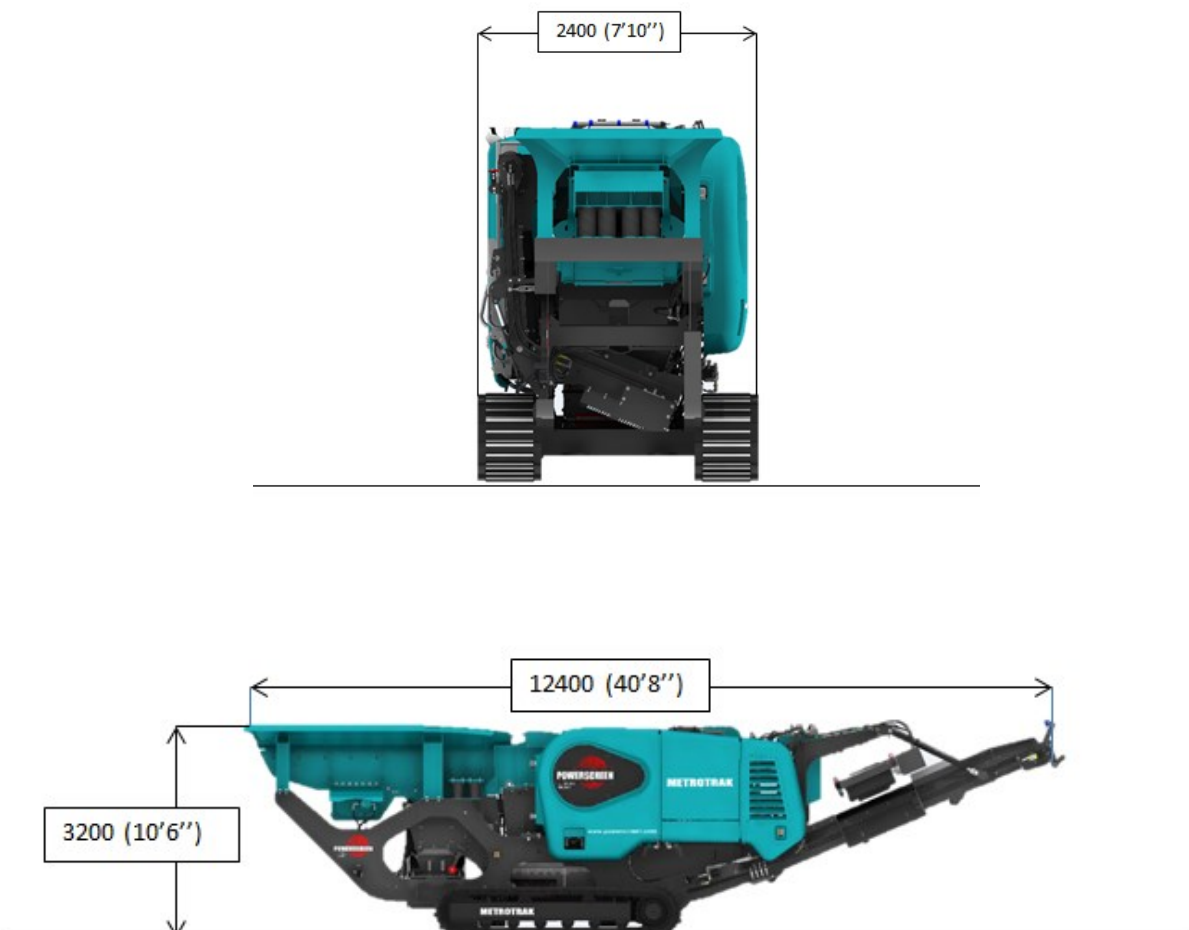
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Approximate Plant Weight & Dimensions

Transport length: 12.4m (40' 8")
Transport width: 2.4m (7' 10")
Transport height: 3.2m (10' 6")

Total plant weight: Tier 3 / Stage 3A: 27,920kg (61,553lbs)
Tier 4F / Stage 4: 28,200kg (62,170lbs)
(Both including VGF, hopper, HA chamber, bypass conveyor & twin pole magnet)

Metrotrak Transport Dimensions



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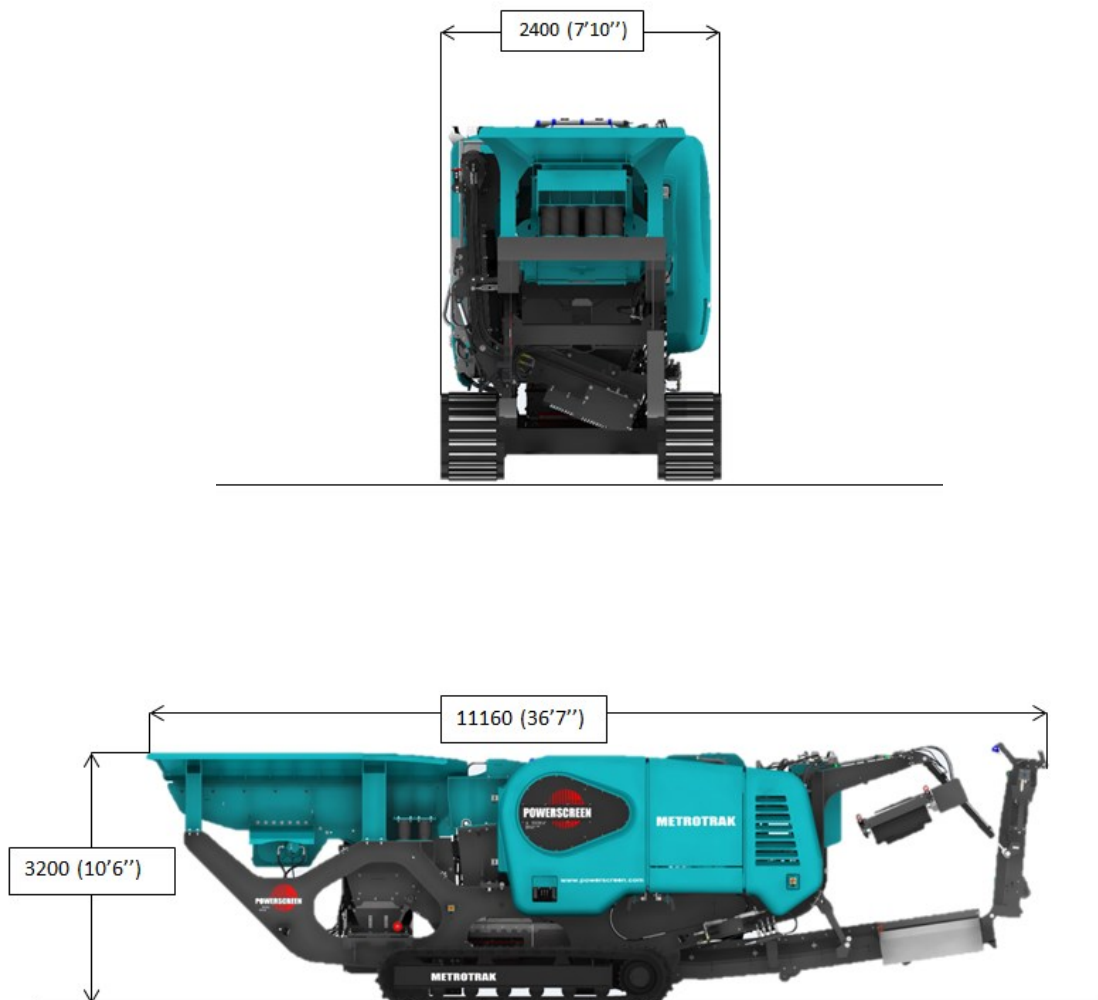
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Approximate Plant Weight & Dimensions

Transport length: 11.16m (36'7")
Transport width: 2.4m (7' 10")
Transport height: 3.2m (10' 6")

Total plant weight: Tier 3 / Stage 3A: 27,920kg (61,553lbs)
Tier 4F / Stage 4: 28,200kg (62,170lbs)
(Both including VGF, hopper, HA chamber, bypass conveyor & twin pole magnet)

Metrotrak Transport Dimensions (Folding Product Conveyor)



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Powerscreen equipment complies with CE requirements.

Please consult Powerscreen if you have any other specific requirements in respect of guarding, noise or vibration levels, dust emissions, or any other factors relevant to health and safety measures or environmental protection needs. On receipt of specific requests, we will endeavour to ascertain the need for additional equipment and, if appropriate, quote extra to contract prices.

All reasonable steps have been taken to ensure the accuracy of this publication, however due to a policy of continual product development we reserve the right to change specifications without notice.

It is the importers' responsibility to check that all equipment supplied complies with local legislation regulatory requirements.

Plant performance figures given and visuals contained in this brochure are for illustration purposes only and will vary depending upon various factors, including feed material gradings and characteristics. Information relating to capacity or performance contained within this publication is not intended to be, nor will be, legally binding.

Terex GB Ltd.
200 Coalisland Road
Dungannon
Co. Tyrone
Northern Ireland
BT71 4DR

Tel: +44(0) 28 8774 0701
Fax: +44(0) 28 8774 6569

E-Mail: sales@powerscreen.com
Web: www.powerscreen.com

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