

Powerscreen® Premiertrak 400X & R400X Jaw Crusher

SPECIFICATION - Rev 0. 23/03/2017



Powerscreen® Premiertrak 400X & R400X

SPECIFICATION Rev 0. 23/03/2017

Specification		Premiertrak 400X
Total weight		Tier 3: 46,300kg (102,274lbs) including side conveyor & magnet Tier 4F: 46,500kg (102,514lbs) including side conveyor & magnet
Transport	Length	15.02m (49' 3")
	Width	2.8m (9' 2")
	Height	3.4m (11' 2")
Working	Length	14.66m (48' 1")
	Width	4.33m (14' 2") with side conveyor
	Height	4.13m (13' 6")
Crusher type:		Single toggle jaw, feed opening 1100mm x 700mm (44"x 28")
Power unit:		Caterpillar C9 ACERT 194kW (260hp) / Scania DC9 080A 202kW (275hp) / Constant Speed: Scania DC09 071A 248kW (322hp)
Paint colour:		Blue RAL 5021, Grey RAL 7024, Black RAL 9005

Features & Benefits

The Powerscreen® Premiertrak 400X range of high performance primary jaw crushing plants are designed for medium scale operators in quarrying, demolition, recycling & mining applications.

The range includes the Premiertrak 400X with hydraulic adjust & the Premiertrak R400X with hydraulic release. User benefits include track mobility for a quick set-up time, hydraulic crusher setting adjustment for total control of product size & crusher overload protection to prevent damage by un-crushable objects.

- Output potential up to 400tph (440 US tph)
- Hydraulic folding feed hopper with hydraulic wedge fixing system
- Heavy duty wear resistant feed hopper
- Stepped self-cleaning grizzly feeder with under feeder screen option
- Deep fines chute to reduce material blockages
- Aggressive crushing action with high swing jaw encouraging material entry into crushing chamber
- Hydraulic crusher setting adjustment
- Crusher Un-blocking system (Optional)
- Excellent under crusher access for removal of wire with hydraulic raise lower product conveyor
- Angle adjustable product conveyor, 3.5m discharge height, lowers for transport
- Low fuel consumption due to highly efficient direct drive system
- Easy access power unit canopy
- PLC control system with auto start facility
- Remote control via umbilical
- Dust suppression system
- Single Deck Post Screen offers added machine versatility for customer (Optional)

Aggregate

- Sand & gravel
- Blasted rock
- River rock

Recycling

- C&D waste
- Overburden
- Foundry waste

Mining

- Processed ores
- Processed minerals

All specifications subject to change without prior notice



Powerscreen® Premiertrak 400X & R400X

SPECIFICATION Rev 0. 23/03/2017

Jaw Crusher

Crusher type:	Single toggle Jaw with hydraulic setting adjustment
Feed opening:	1100mm x 700mm (44" x 28")
Bearings:	Self aligning spherical roller
Lubrication:	Grease
Drive:	V belts with screw tension adjustment on engine
Pre-set:	75mm (3") closed side setting (CSS)
Minimum setting:	50mm (2") CSS recycling 75 mm (3") CSS quarry

All setting measured from root to tip & subject to suitability of feed material. This plant has been designed for both quarry & recycling applications where appropriate

For maximum material strength of 390kN 10% Fines, 240MPa Compressive Strength as per other M-Series Jaws

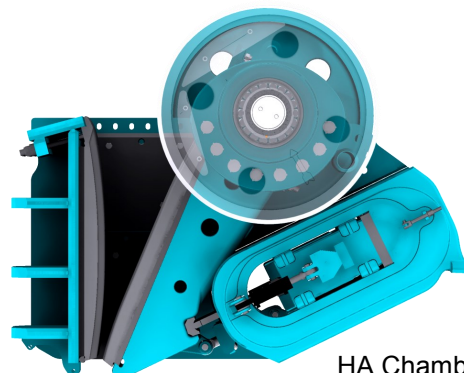
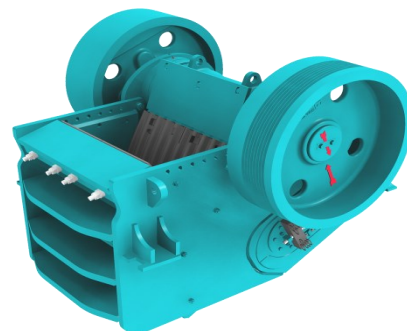
If in doubt please contact your dealer or Powerscreen

Maximum setting: 150mm (6") CSS standard jaws

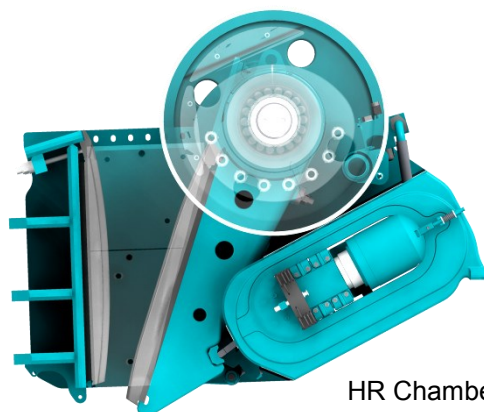
Hydraulic adjustment: Hydraulically adjusted C.S.S set by placing equal small shims into each side of the crusher

Chamber Features

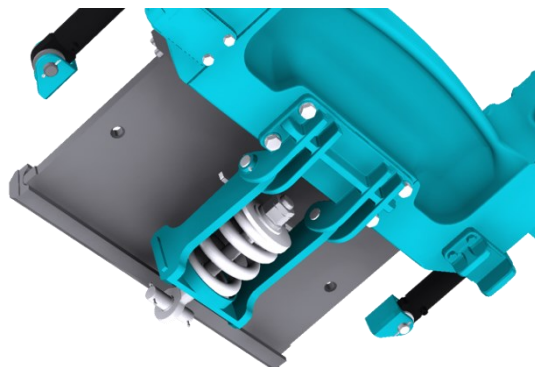
- Quick & easy setting adjustment
- Drawback rod adjustments not required during setting changes
- Jawstock supported on both sides, even stress distribution
- Strong frame construction, no welding in critical areas
- Cylinders mounted in line with side plates
- Cartridge type bearings
- Overlap jaw protects tip of jawstock / pitman
- One piece fixed jaw support
- Proven manganese liner retention



HA Chamber


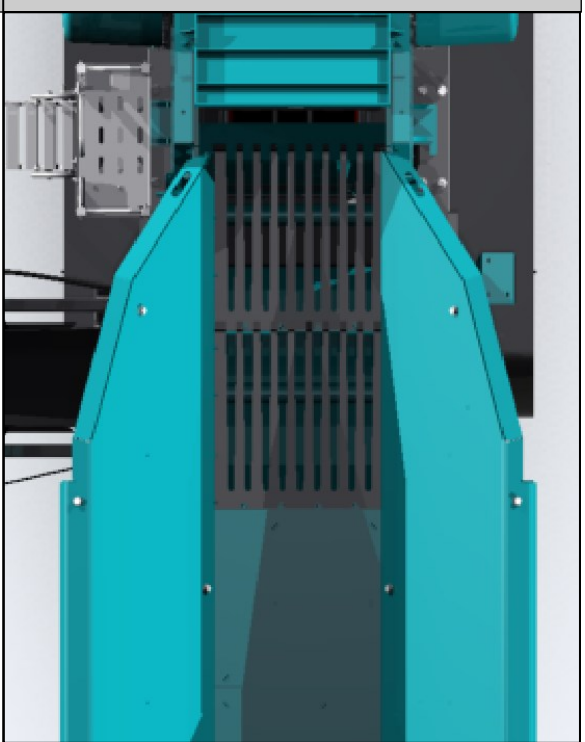
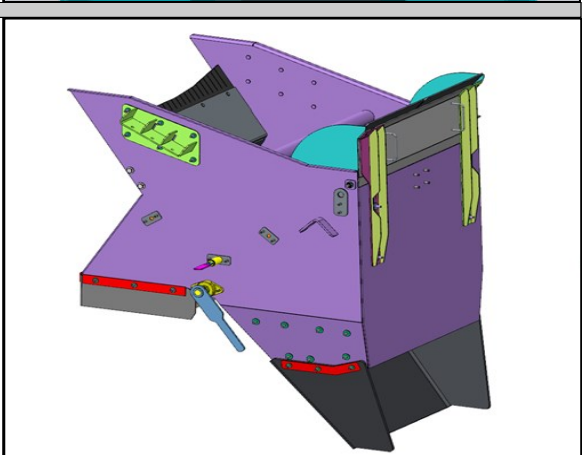


HR Chamber



Powerscreen® Premiertrak 400X & R400X

SPECIFICATION Rev 0. 23/03/2017

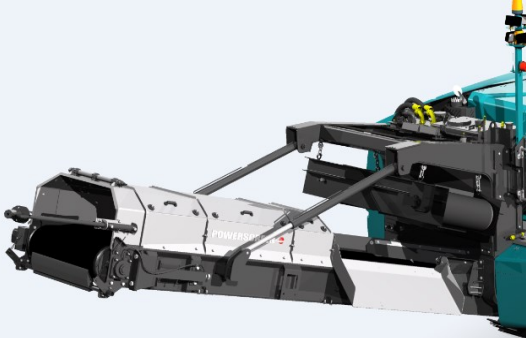
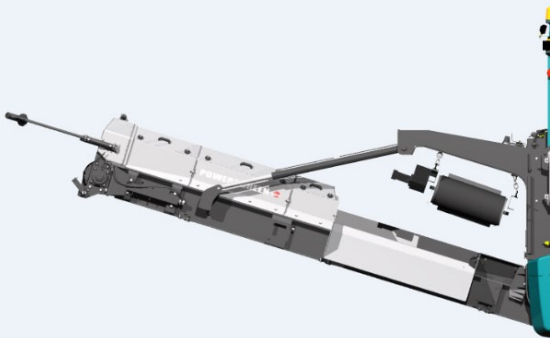
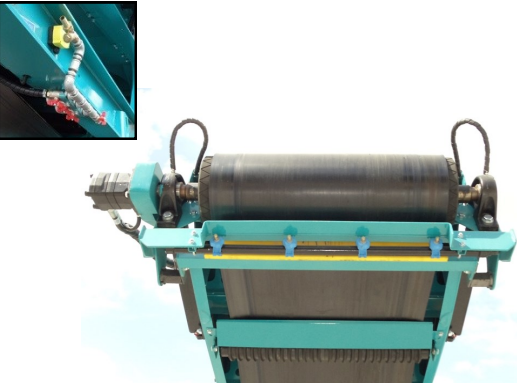
<p>Hopper</p> <p>Hopper type: Boltless hydraulic folding hopper, with hydraulic wedge lock fixing</p> <p>Hopper length: 4.94m (16' 2")</p> <p>Hopper width: 2.49m (8' 2")</p> <p>Hopper capacity: Standard: 10m³ (13 cu. yd.)</p> <p>Hopper body: 12mm thick wear resistant steel plate, mild steel reinforcing ribs 15mm Thick option (Extended only)</p> <p>Control: Variable speed control through a proportional flow control valve</p>	
<p>Vibrating Grizzly Feeder</p> <p>Type: Spring mounted vibrating pan & grizzly feeder</p> <p>Vibrating Unit: Twin heavy-duty cast eccentric shafts running in spherical roller bearings, gear coupled at drive end</p> <p>Drive: Flange mounted hydraulic motor</p> <p>Feeder length: 4.20m (13' 9") Feeder width: 1.06m (3' 6")</p> <p>Grizzly: 2 replaceable 1.6m long stepped cartridge type grizzlies 50mm nominal aperture, self cleaning</p> <p>Grizzly length: 2.12m (7')</p> <p>Under-screen: Rubber blanking mat fitted as standard. Can be substituted for optional wire meshes, use in conjunction with optional side conveyor.</p>	
<p>Plant Chute-work</p> <p>Crusher feed chute: One piece fabrication with 15mm thick mild steel plate sides with 20mm thick bottom plate</p> <p>Grizzly fines/ bypass Standard 2 way position, all material directed to product conveyor or material passing VGF is directed to product conveyor and material through mesh to Side Conveyor. Option: Divert all material to Side Conveyor</p>	

All specifications subject to change without prior notice



Powerscreen® Premiertrak 400X & R400X

SPECIFICATION Rev 0. 23/03/2017

<p>Product Conveyor</p> <p>Conveyor type: Troughed belt conveyor</p> <p>Design: Hydraulic raise & lower facility to aid rebar removal & transportation. Fully lowers for maintenance. Fully removable modular unit to aid access & maintenance</p> <p>Belt type: EP500/3 with 8mm top & 2mm bottom cover, vulcanised</p> <p>Belt width: 1000mm (39")</p> <p>Discharge height: 3.5m (11' 5")</p> <p>Stockpile volume: 79m³ (104 cu. yd.)</p> <p>Max. clearance: 634mm (jaw to belt - working)</p> <p>Drive: Direct drive hydraulic motor</p> <p>Tunnel: Improved tunnel & side covers to minimise rebar snagging</p> <p>Feedboot: Mild steel plate with abrasion resistant steel liners at feed point</p> <p>Belt adjustment: Screw adjusters at head & tail drum</p> <p>Belt covers: Aluminium removable dust covers fitted to head section beyond magnet</p> <p>Belt scraper: SCS high performance scraper as standard</p> <p>Lubrication: Remote head drum grease points located under shedder plate (reversible)</p> <p>Skirting: Wear resistant rubber skirts to magnet, slider pads after magnet.</p>	
	
<p>Dust Suppression System</p> <p>Sprays bars with atomiser nozzles mounted over crusher mouth, product conveyor feed & discharge points. Piped to an inlet manifold for client's pressured water supply</p> <p>Type: Clean water multi atomising nozzles</p> <p>Inlet: Single filtered inlet point on chassis</p> <p>Pressure: 2.8 bar (42 psi)</p> <p>Frost protection: Via system drain valves</p> <p>Pump: Optional extra</p>	

All specifications subject to change without prior notice



Powerscreen® Premiertrak 400X & R400X

SPECIFICATION Rev 0. 23/03/2017

Power unit

EU Stage IIIA / US Tier 3:	Caterpillar C9 ACERT, 6 cylinder, direct injection 194kW (260hp) at 1600rpm *
Operating conditions:	Ambient temp. +30°C & -5°C (86°F & 23°F) altitudes up to 1000m (3281ft) above sea level
Operating rpm range:	1600-1700rpm
Plant drive:	High quality pumps driven via engine
Fuel tank capacity:	456 L (120 US G) - sufficient for a 12 hour shift
Hydraulic tank capacity:	355 L (94 US G)

Tier 4F / Stage IV: Scania DC9 84A 5 cylinder, turbo, 202kW (275hp) at 1600rpm

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

Operating rpm range: 1400-1650rpm

Emission control technique: Selective Catalytic Reduction (SCR)

Reductant tank size: 60 L (16 US G)

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

Fuel tank capacity: 456 L (120 US G) - sufficient for a 12 hour shift

Hydraulic tank capacity: 355 L (94 US G)

Stage 3A Constant Speed: Scania DC09 248kW (322hp) (Optional)

Clutch type: Highly efficient, self-adjusting HPTO 12 dry plate clutch with electro hydraulic operation

Crusher drive: Direct drive via wedge belts,
Tier 3: Clutch pulley diameter 200mm (8.3")
Tier 4F: Clutch pulley diameter 212mm (8.3")
Constant Speed: Clutch pulley diameter 224mm (8.3")
Crusher pulley diameter 1260mm (4' 2")

Drive tensioning: Manual screw tensioners located beside power unit

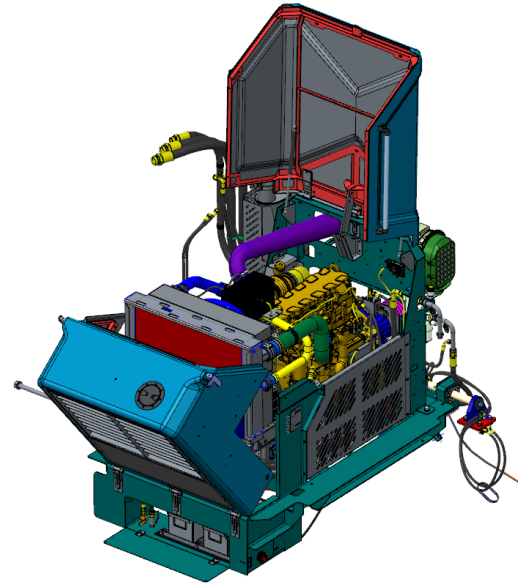
For applications outside this range please consult with Powerscreen

Scania Stage IV / Tier 4 Final Technology

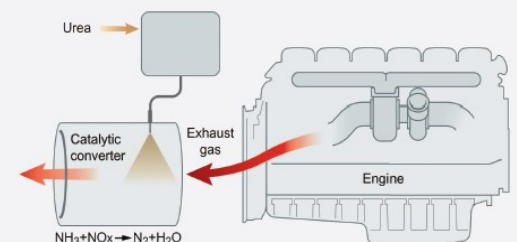
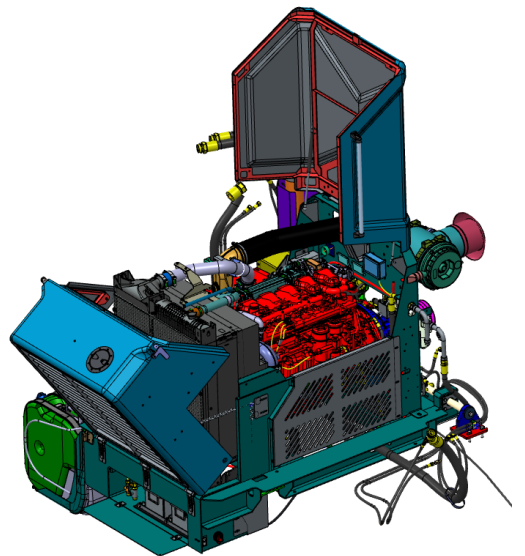
Scania industrial engines meet the requirements of Stage IV and Tier 4 Final without the need for a particulate filter. With only EGR and SCR technology, the installation will be unaffected. Scania-developed systems for engine management and emission control ensure an attractive blend of performance and operating economy.

The function of the SCR system is based on the injection of a urea solution (AdBlue or DEF, Diesel Exhaust Fluid) into the after-treatment system. With EGR, a small amount of exhaust gases is returned to the intake of the engine, diluting the intake air and reducing the oxygen concentration. This will reduce the combustion temperature and further reduce emissions.

Tier 3:



Tier 4F:



The principle for Scania SCR system

Powerscreen® Premiertrak 400X & R400X

SPECIFICATION Rev 0. 23/03/2017

Crawler Tracks

Type: Heavy-duty tracks
Longitudinal centers: 3715mm

Track width: 500 mm
Climbing grade: 25° maximum
Speed: 0.9kph (0.56mph)
Drive: Hydraulic motors
Tensioning: Hydraulic adjuster, grease tensioner

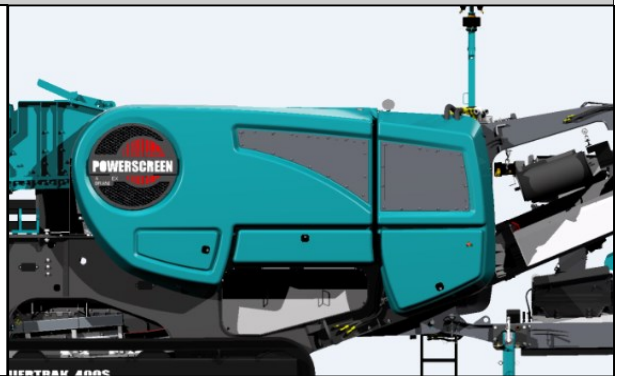


Guarding

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

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

Hinged access guards are provided on the top, side & both ends of the engine



Platforms

Incline ladders with double handles and platforms provide access to both sides of power unit and one side of feeder.



All specifications subject to change without prior notice



Powerscreen® Premiertrak 400X & R400X

SPECIFICATION Rev 0. 23/03/2017

Plant Controls

Full PLC control panel

Full system diagnostics

Controls fitted to the plant include:

Sequential start up

- Engine (start/stop/speed)
- Crusher (start/stop)
- Optional side conveyor (start/stop)
- Product conveyor (start/stop & raise/lower)
- Feeder (start/stop/speed) controls, located on the side of the plant



Umbilical Control

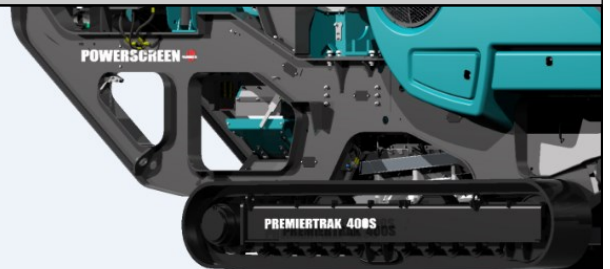
An umbilical control unit is also supplied as standard with the plant

Controls tracking function & has a stop button for the plant.



Chassis

Heavy duty I-section welded construction, provides maximum strength & accessibility



Optional Extras

- Extended hopper
- Wire mesh for underscreen
- Super tooth or multi tooth jaw plates
- Chamber unblocking system
- Deflector plate under crusher
- Side conveyor
- Extended Side Conveyor
- Magnet prepared
- Single pole overband magnetic separator
- Twin pole overband magnetic separator
- Belt weigher
- Electric refuelling pump
- Hydraulic water pump
- Radio remote control
- Powerscreen Pulse
- Extended Product Conveyor
- Single Deck Post-Screen
- Pre-Screen

All specifications subject to change without prior notice



Powerscreen® Premiertrak 400X & R400X

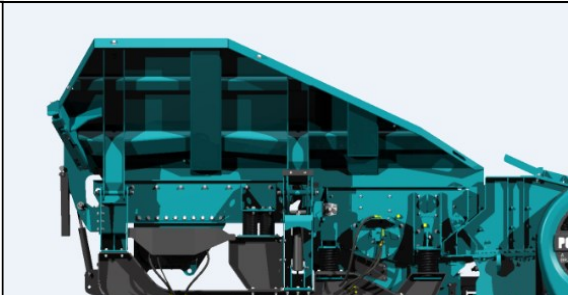
SPECIFICATION - Rev 0. 23/03/2017

Hopper Extensions

Hopper type: Hydraulic folding extended hopper with hydraulic wedge-lock system

Hopper Capacity: 12m³ (14.4 cu. yd.)

Hopper body: 12mm or 15mm wear resistant plate, steel ribs

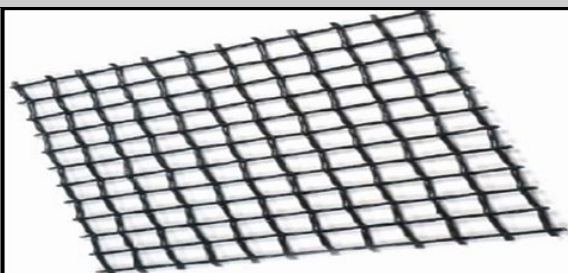


Feeder Underscreen Mesh

Position: Removable wire meshes fitted in lieu of the standard rubber blanking mat, use in conjunction with optional side conveyor

Width: 1075mm (3' 6")

Length: 1250mm (4' 1")



Jaw Profiles

A choice of jaw profiles are available to maximise performance across all applications. All jaw profiles supplied in 18% Manganese as standard. This is the proven material for quarry & recycling applications with an initial hardness of around 230BHN (Brinell Hardness)

Premium Jaws (Standard offering)

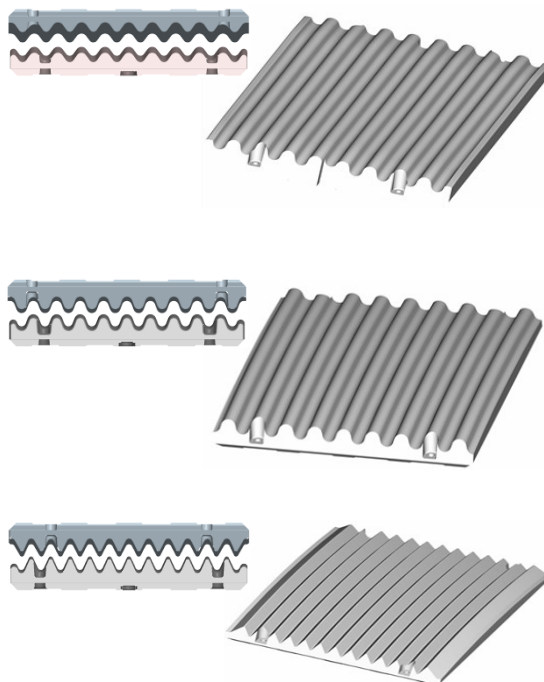
Premium jaws are fitted as standard in all Premiertrak 400 and R400 jaw crushers. They are suitable for most quarry & recycling applications & give an excellent cost per tonne crusher

Super Tooth Jaws

For extended life across most quarrying applications. Super tooth has a significantly increased wear life using a deeper profile without comprising strength or product shape

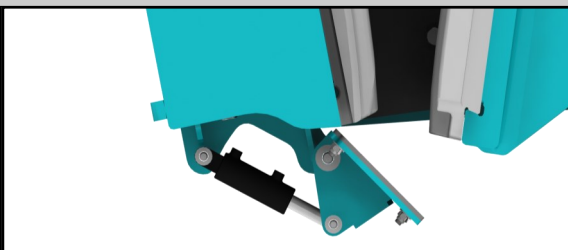
Multi Tooth Jaws

The industry choice for many recycling applications. The "sharper" profile makes the Multi tooth ideal for most recycling applications, particularly those involving concrete. It is also more tolerant when recycling asphalt. Wear life will be reduced on abrasive applications



Under Crusher Deflector Plate

A hydraulic adjustable deflector plate, increases belt protection on recycling applications. Situated immediately below the crusher outlet point & is fitted with a 15mm thick wear resistant plate. Deflector plate working angle can be adjusted from the PLC control system



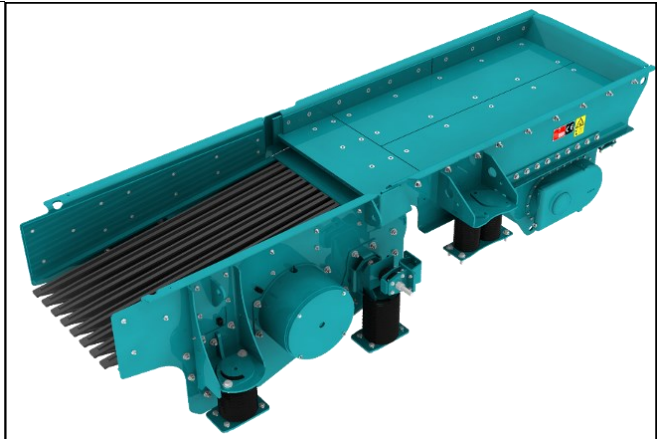
Powerscreen® Premiertrak 400X & R400X

SPECIFICATION - Rev 0. 23/03/2017

Pan Feeder & Live Pre-Screen

Vibrating pan feeder with double deck live pre-screen

- Pan type:** Spring mounted vibrating pan
- Vibrating unit:** Twin heavy duty cast eccentric shafts running in spherical roller bearings, gear coupled at drive end, flange mounted hydraulic motor
- Dimensions:** Length: 2.32m (7' 7")
Width: 1.04m (3' 5")
- Pan:** 12mm thick fully welded base plate with 12mm thick abrasion resistant liners
- Pan:** Variable speed control through control panel & (radio remote optional)
- Pre-screen:** Spring mounted vibrating unit
9mm throw, 1000rpm screen speed
- Vibrating unit:** Single shaft, out of balance weights, flange mounted hydraulic motor
- Top deck:** 2 piece cartridge with 2.08m (6' 10") long self cleaning fingers 75mm (3") nominal spacing
Length: 2.08m (6' 10")
Width: 1.03m (3' 4")
- Bottom deck:** 16° Incline with 38mm (1 1/2") mesh
Length: 1.25m (4' 2")
Width: 1m (3' 4")
- Chute:** Bypass chute with internal 2 way flap door fitted, to control direction of fines, either forward onto the product belt or onto the optional side conveyor (if blanking mat is fitted)
- Modular section:** Hopper & feeder mounted on removable modular sub frame


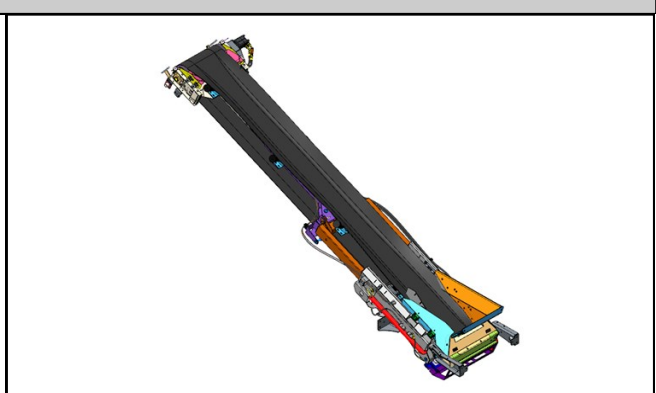
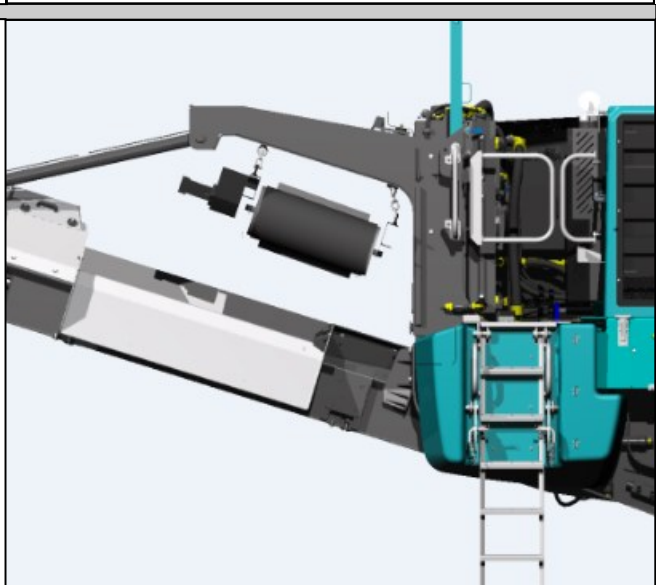
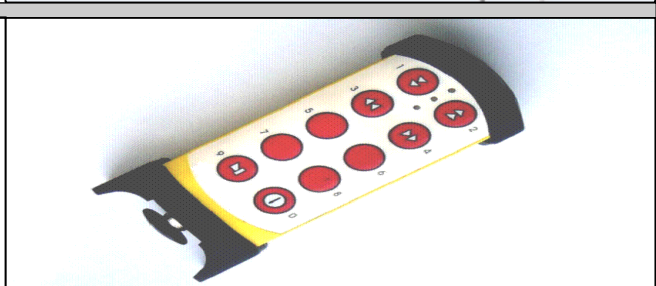


All specifications subject to change without prior notice



Powerscreen® Premiertrak 400X & R400X

SPECIFICATION - Rev 0. 23/03/2017


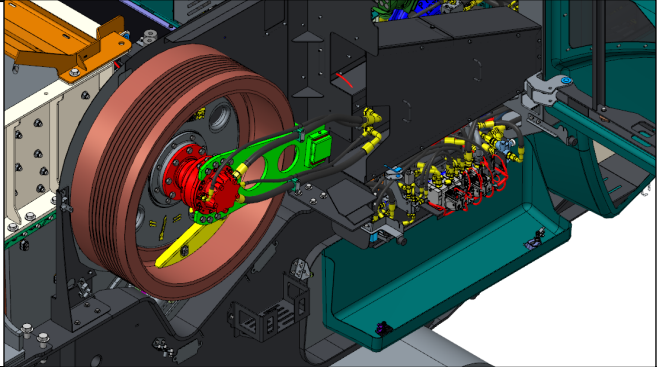
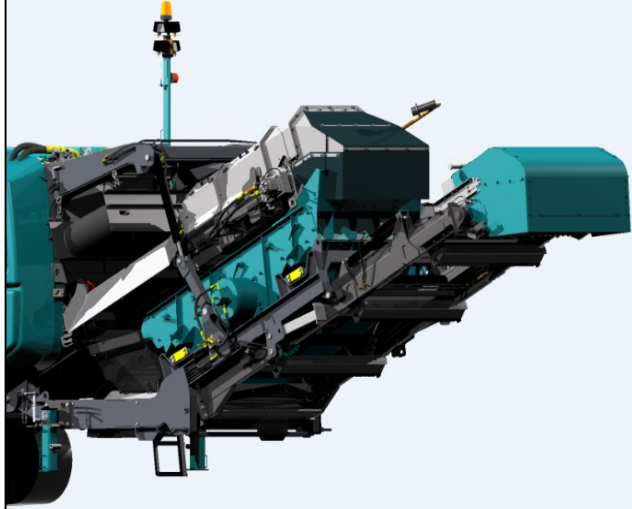
<p>Side Conveyor</p> <p>Conveyor type: Troughed belt conveyor, folds hydraulically for transport</p> <p>Width: 650mm (25")</p> <p>Discharge height: 2.25m (7' 4")</p> <p>Stockpile volume: 17m³ (22.2 cu. yd.)</p> <p>Drive: Direct drive hydraulic motor</p> <p>Position: Discharge on RHS of plant</p>	
<p>Extended Side Conveyor</p> <p>Width: 650mm (25")</p> <p>Discharge height: 3.07m (10' 1")</p> <p>Stockpile volume: 46m³ (60.4 cu. yd.)</p>	
<p>Magnet</p> <p>Options: Magnet prepared Terex CP020—100 single pole (S.P.) Terex TP020—100 twin pole (T.P.)</p> <p>Belt width: 750mm (30") Centres: 1700mm (67")</p> <p>Drive / Control: Direct drive hydraulic motor, pre-set variable speed</p> <p>Discharge: LHS via stainless shedder plate</p> <p>Weight: S.P. 1000kg (2204lbs) T.P. 1500kg (3306lbs)</p>	
<p>Radio Remote Control</p> <p>Complete with integrated tracking functions & plant stop button. NB - Only available in certain countries where type approval has been obtained</p> <p>Remote can also be used to:</p> <ul style="list-style-type: none"> ▪ Feeder (start/stop) 	

All specifications subject to change without prior notice



Powerscreen® Premiertrak 400X & R400X

SPECIFICATION - Rev 0. 23/03/2017

<p>Extended Product Conveyor</p> <p>Conveyor type: Troughed belt conveyor</p> <p>Design: Hydraulic raise & lower facility to aid rebar removal & transportation. Fully lowers for maintenance. Fully removable modular unit to aid access & maintenance</p> <p>Belt type: EP500/3 with 8mm top & 2mm bottom cover, vulcanised</p> <p>Belt width: 1000mm (39")</p> <p>Discharge height: 4.1m (13' 5")</p> <p>Stockpile volume: 127m³ (166 cu. yd.)</p>	
<p>Chamber Un-blocking System</p> <p>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.</p>	
<p>Single Deck Post-Screen</p> <p>Screen Area: 2.44m x 1.52m (8' x 5')</p> <p>Tensioning: Side Tensioned</p> <p>Drive: Hydraulic with heavy duty bearing</p> <p>Screen Angle: 23°</p> <p>Oversize Conveyor: 650mm (26")</p> <p>Discharge Height: 2.8m (9' 2")</p> <p>Fines Conveyor: 1400mm (55")</p> <p>Discharge Height: 2.8m (9' 2")</p> <p>*Both hydraulically fold for transport</p>	

All specifications subject to change without prior notice



Powerscreen® Premiertrak 400X & R400X

SPECIFICATION - Rev 0. 23/03/2017

Hot/Cold Climate Oils

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

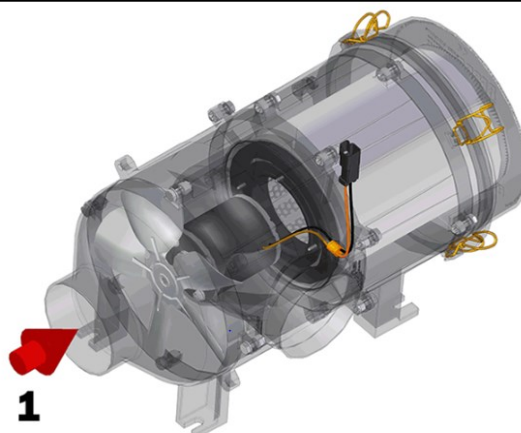
Hot climate oils - (Recommended for ambient temperatures between +15 to +50°C)



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.

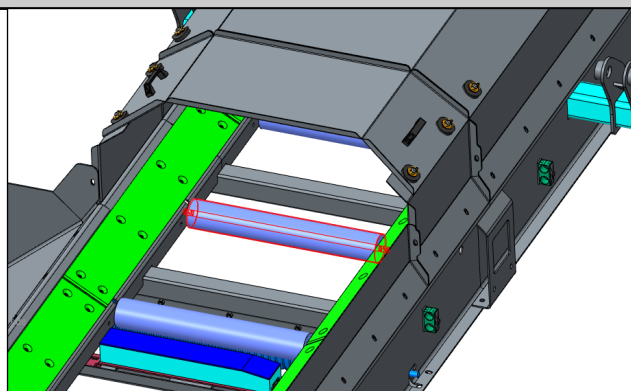


Belt Weigher

Type: Roller scale & display unit

Accuracy: $\pm 1.0 + 0.5\%$

Display: Separate read out near control panel



Powerscreen Pulse

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.



Powerscreen® Premiertrak 400X & R400X

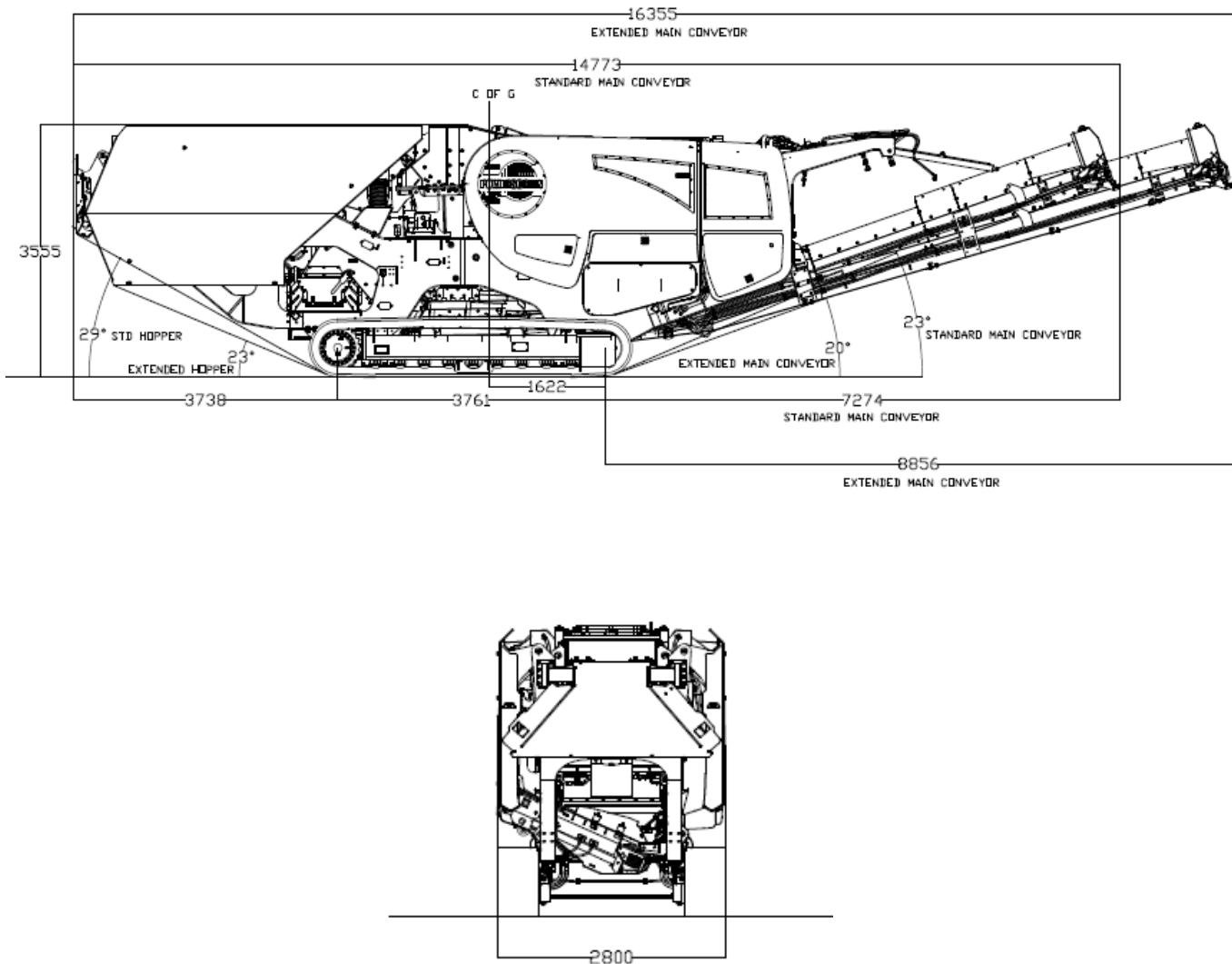
SPECIFICATION Rev 0. 23/03/2017

Approximate Plant Weight & Dimensions

Transport length: 15.02m (49' 3")
 Transport width: 2.8m (9' 2")
 Transport height: 3.4m (11' 2")

Total plant weight: Tier 3: 46,300kg (102,274lbs) including magnet & side conveyor
 Tier 4F: 46,500kg (102,514lbs) including magnet & side conveyor

Premiertrak 400X & R400X Transport Dimensions



All specifications subject to change without prior notice



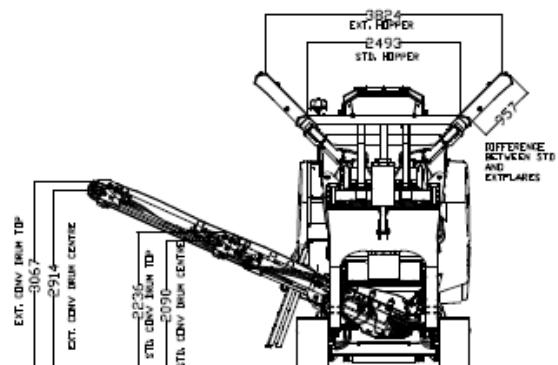
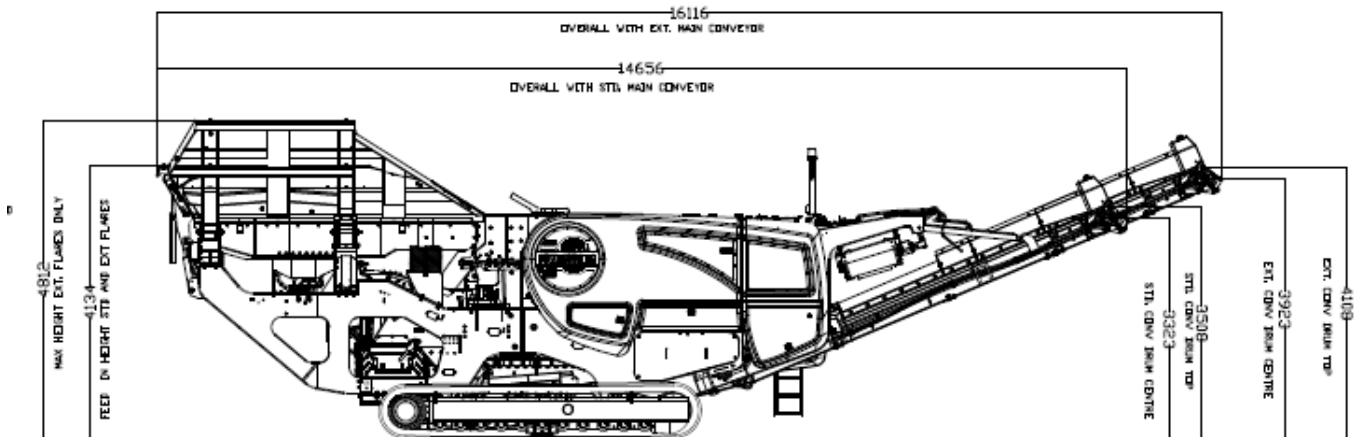
Powerscreen® Premiertrak 400X & R400X

SPECIFICATION Rev 0. 23/03/2017

Approximate Plant Weight & Dimensions

Working length:	14.66m	(48' 1")
Working height:	4.13m	(13' 6")
Working width:	2.8m	(9' 2")
	4.33m	(14' 2") including side conveyor

Premiertrak 400X & R400X Working Dimensions



All specifications subject to change without prior notice



Powerscreen® Premiertrak 400X & R400X

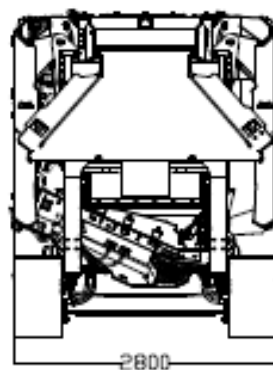
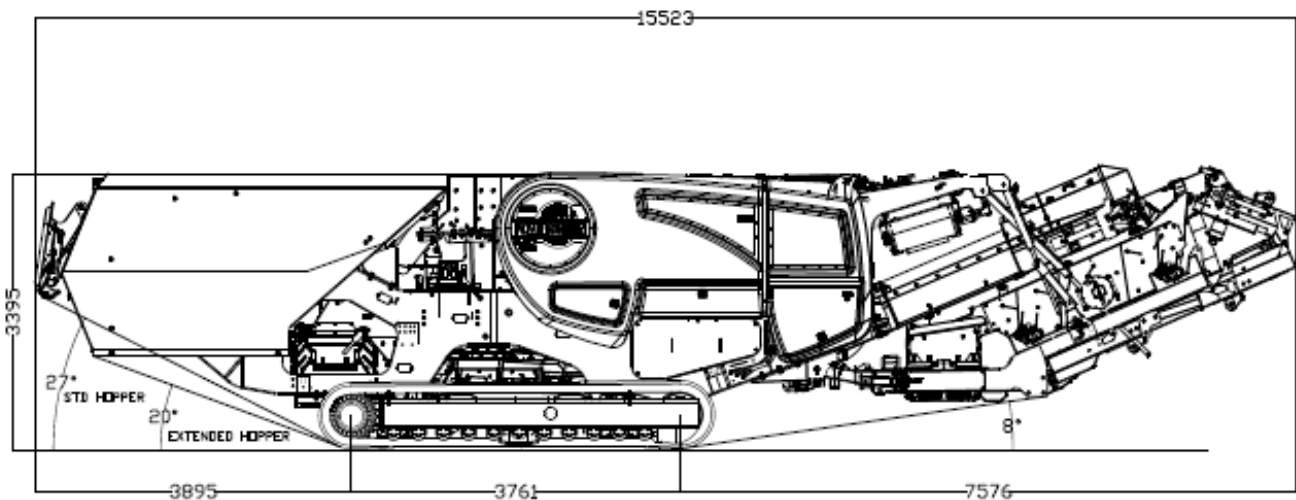
SPECIFICATION Rev 0. 23/03/2017

Approximate Plant Weight & Dimensions

Transport length: 15.52m (50' 11")
Transport height: 3.4m (11' 2")
Transport width: 2.8m (9' 2")

Total plant weight: Tier 3: 52,300kg (115,301lbs) including magnet & side conveyor
Tier 4F: 52,500kg (115,742lbs) including magnet & side conveyor

Premiertrak 400X & R400X Post-Screen Transport Dimensions



All specifications subject to change without prior notice



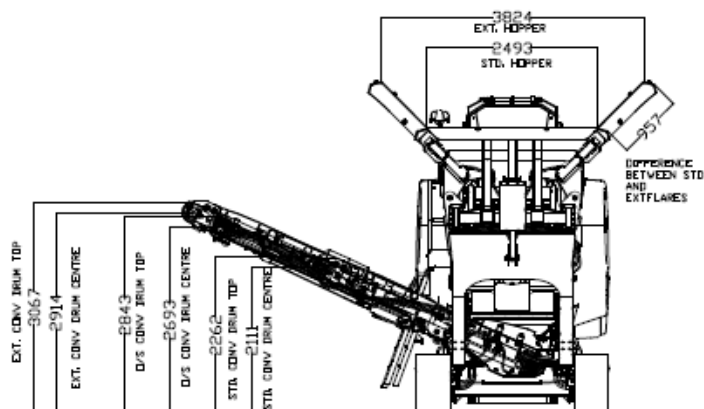
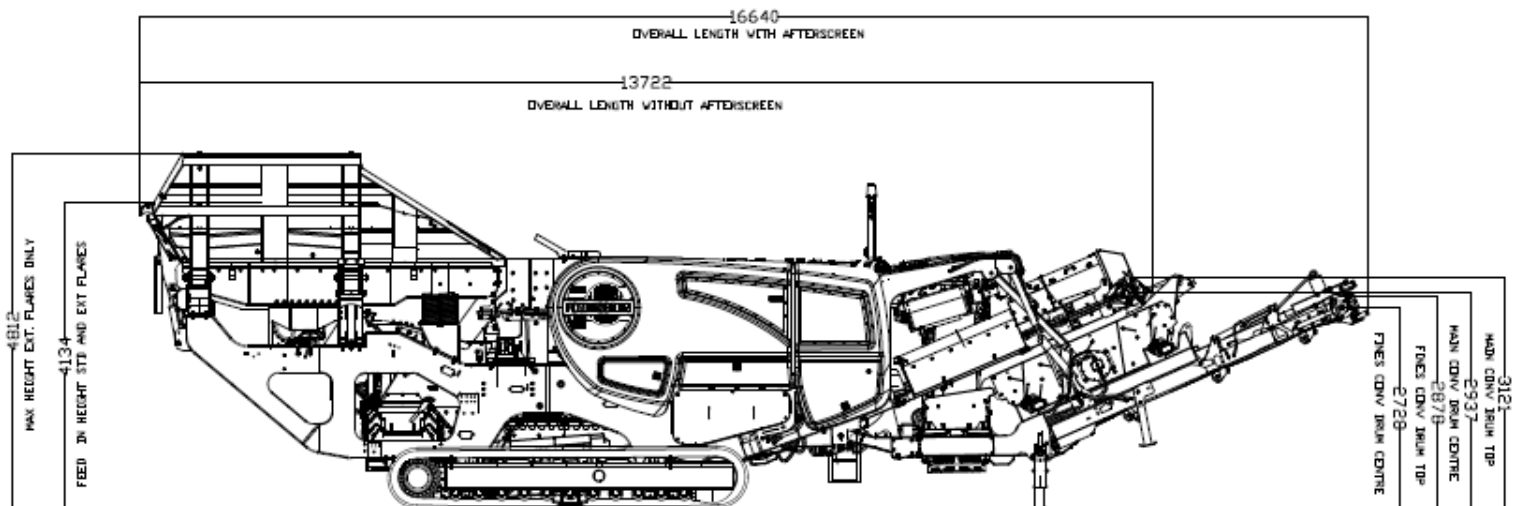
Powerscreen® Premiertrak 400X & R400X

SPECIFICATION Rev 0. 23/03/2017

Approximate Plant Weight & Dimensions

Working length:	16.64m	(54' 7")
Working height:	4.13m	(13' 6")
Working width:	2.8m	(9' 2")
	4.33m	(14' 2") including side conveyor

Premiertrak 400X & R400X Post-Screen Working Dimensions



All specifications subject to change without prior notice



Powerscreen® Premiertrak 400X & R400X

SPECIFICATION Rev 0. 23/03/2017

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 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

Terex is a registered trademark of Terex Corporation in the United States of America and many other countries.
Powerscreen is a registered trademark of Terex GB Ltd in the United States of America and many other countries.

Copyright Terex Corporation 2017.

All specifications subject to change without prior notice

