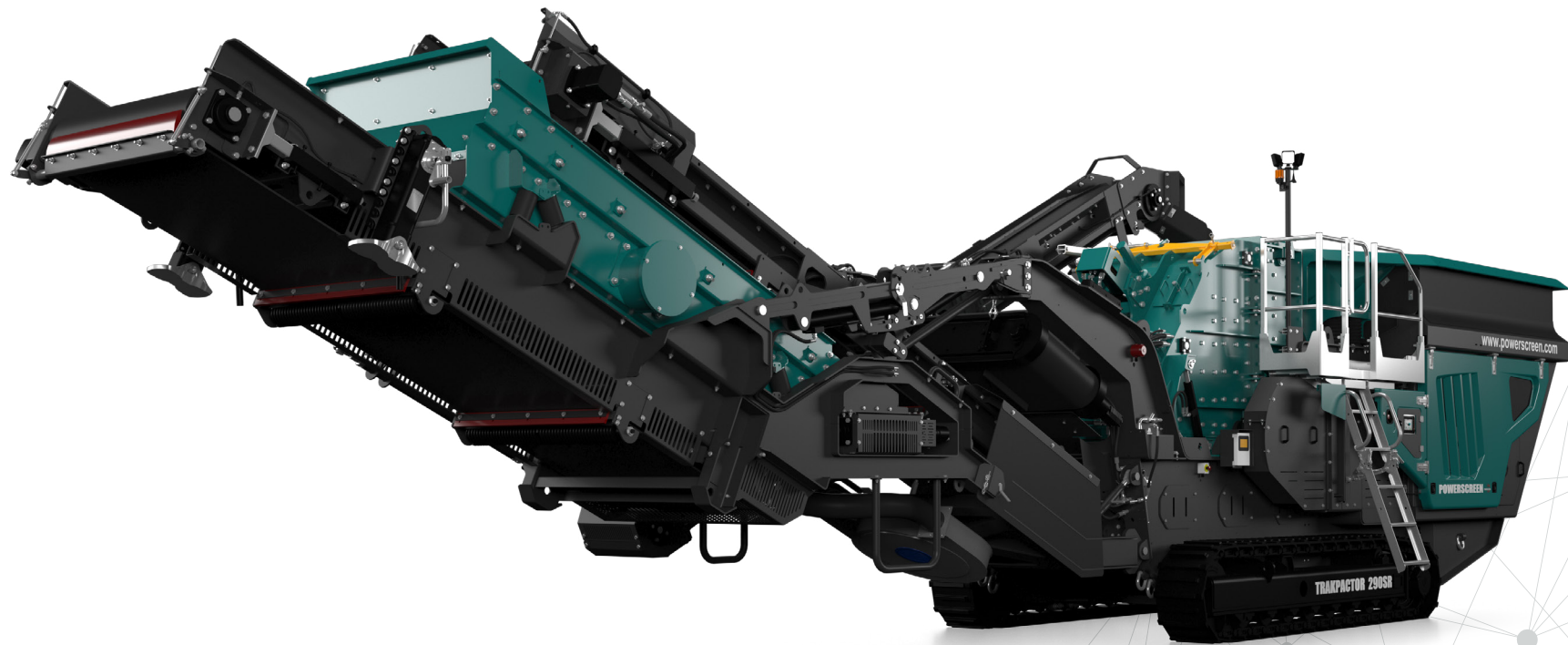


# POWERSCREEN® TRAKPACTOR 290SR

HORIZONTAL IMPACTOR





## TRAKPACTOR 290SR



# OVERVIEW

### SPECIFICATION

<b>Total Weight</b>	34,200kg	
<b>Transport</b>	<b>Length</b>	14.76m
	<b>Height</b>	3.18m
	<b>Width</b>	2.9m
<b>Working</b>	<b>Length</b>	14.66m
	<b>Height</b>	4.12m
	<b>Width</b>	5.22m
<b>Crusher Type:</b>	Twin apron 4 bar impact crusher, feed opening 1030mm x 790mm	
<b>Power Unit</b>	Tier IIIA Volvo D8 235kW (315hp), Tier 4 Final Volvo D8 235kW (315hp), or Stage V Volvo D8 235kW (315hp)	

### FEATURES & BENEFITS

The Powerscreen® Trakpactor 290SR Horizontal Shaft Impactor, is a highly compact tracked crusher designed to offer both excellent reduction & high consistency of product yield. The Powerscreen® Trakpactor 290SR is designed mainly for the recycling & demolition markets & is an ideal contractor machine due to its compact design & mobility. A post-screen system and recirculating conveyor allows oversize material to be passed back to the crusher for further sizing.

- Output potential 290 tonnes per hour
- Suitable for a variety of feed materials
- Ideal for recycling & demolition applications
- Fully enclosed hopper to eliminate spillage
- Integrated pre-screen for fines removal (Punch plate, grizzly bars & Blanking plate are all interchangeable)
- Feeder speed automatically regulates depending on engine load
- Proven Terex impact crusher with hydraulic overload protection, 4 bar rotor & twin aprons
- Simple intuitive push button operation
- HPTO clutch & highly fuel efficient direct drive system
- Modular conveyor with raise/lower facility to aid clearance of rebar
- Overband magnet (Optional)

### APPLICATIONS



#### Aggregate

Blasted rock  
River rock



#### Recycling

C&D waste  
Foundry waste



#### Mining

Processed ores  
Processed minerals



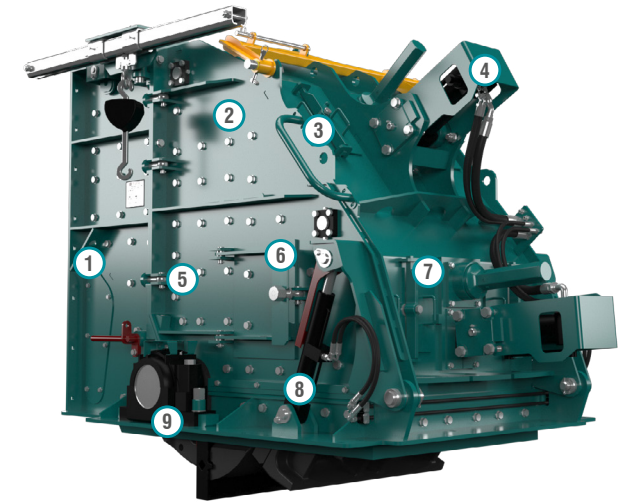
## TRAKPACTOR 290SR



# CRUSHER SPECIFICATION

<b>Feed opening:</b>	1030mm x 790mm
<b>Max lump size*:</b>	450mm <sup>3</sup> / 750mm diagonally / 800x500x250mm slab *depending on material & blow bar spec
<b>Rotor width:</b>	1000mm
<b>Rotor diameter:</b>	1034mm
<b>Number of aprons:</b>	2
<b>Max apron setting - upper:</b>	150mm
<b>Min apron setting - upper:</b>	50mm
<b>Max apron setting - lower:</b>	75mm
<b>Min apron setting - lower:</b>	20mm
<b>Number of blow bars:</b>	4
<b>Blow bar removal:</b>	Vertically
<b>Blow bar configuration:</b>	2 full & 2 half (Optional 4 full)
<b>Setting adjustment:</b>	Hydraulic assist
<b>Overload protection:</b>	Hydraulic
<b>Rotor speeds:</b>	630 - 800rpm (34 - 43 m/s)
<b>Applications:</b>	Demolition/Recycling/Quarry
<b>Full blow bar weight:</b>	205kg
<b>Side liners:</b>	20mm (thick, abrasive resistant steel)

Optional tilted corrugated primary apron available.



### PRINCIPAL COMPONENTS

- 1: Main welded body
- 2: Impactor hinged section
- 3: Inspector covers
- 4: Hydraulic overload & adjustment cylinders
- 5: Toggle bolts
- 6: Side door
- 7: Inspection covers
- 8: Hinged section opening cylinder
- 9: Bearings



## TRAKPACTOR 290SR



# CRUSHER FEATURES

- Crusher body:** Fabricated from steel plate & fully lined with replaceable abrasion resistant liner plates. Hinged side door allows access to apron tips & rotor for gap measurements & inspection. Complete hinged section opens hydraulically to allow blow bar removal & replacement, apron & liner replacement or major maintenance.
- Rotor:** Cast steel fitted with 4 reversible & replaceable blow bars
- Bearings:** Double row self aligning spherical roller bearing fitted each end of rotor
- Aprons:** Cast steel aprons with replaceable abrasion resistant wear plate on tip of bottom apron
- Drive:** Direct through wedge belts with tensioning system on the power unit
- Lubrication:** Grease filled rotor bearings fitted with inner & outer labyrinth seals
- Blow bars:** Standard blow bar is martensitic steel, options are available in martensitic ceramic, medium chrome, medium chrome ceramic, high chrome, high chrome ceramic & toughened chrome

## APPLICATIONS

This plant is designed for both demolition & quarrying applications. When fitted with martensitic or ceramic blow bars the crusher will tolerate small quantities of steel reinforcing bar in the feed. However, the machine is not designed to accept large pieces of steel or other un-crushable objects, & the feed material should be assessed / inspected for suitability prior to crushing. It is vitally important that large pieces of steel or similar un-crushable objects are not allowed to enter the crushing chamber as severe damage & injury may occur.

When high chrome bars are fitted, all steel should be removed from the feed material & the machine should only be used on quarry applications, or clean materials such as asphalt.





## TRAKPACTOR 290SR



# HOPPER

**Hopper width:** 2m

**Hopper length:** 3.8m

**Hopper capacity:** Up to 3.3m<sup>3</sup>

**Loading height:** 3.13m

Fully enclosed hopper / feeder to eliminate spillage

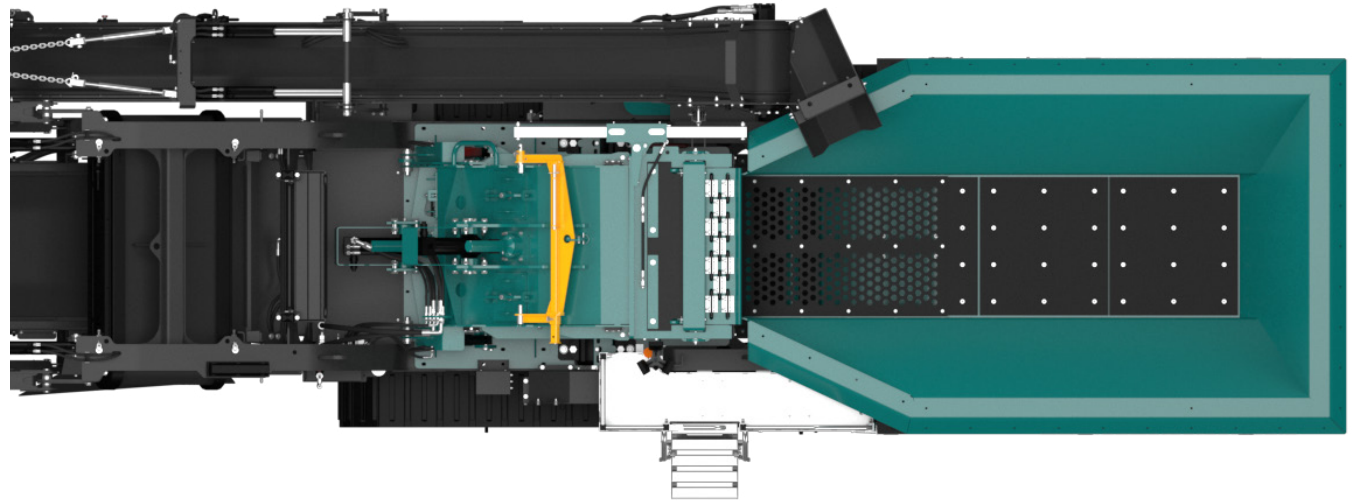
Fabricated from 10mm thick wear resistant steel

Replaceable 10mm wear liners on feeder flow

Proven twin shaft geared vibrator assembly

Feeder speed automatically regulates depending on engine load

Optional bolt on hopper extensions (must be removed for transport)





## TRAKPACTOR 290SR



# VIBRATING GRIZZLY FEEDER

**Screen area:** 1500mm x 950mm

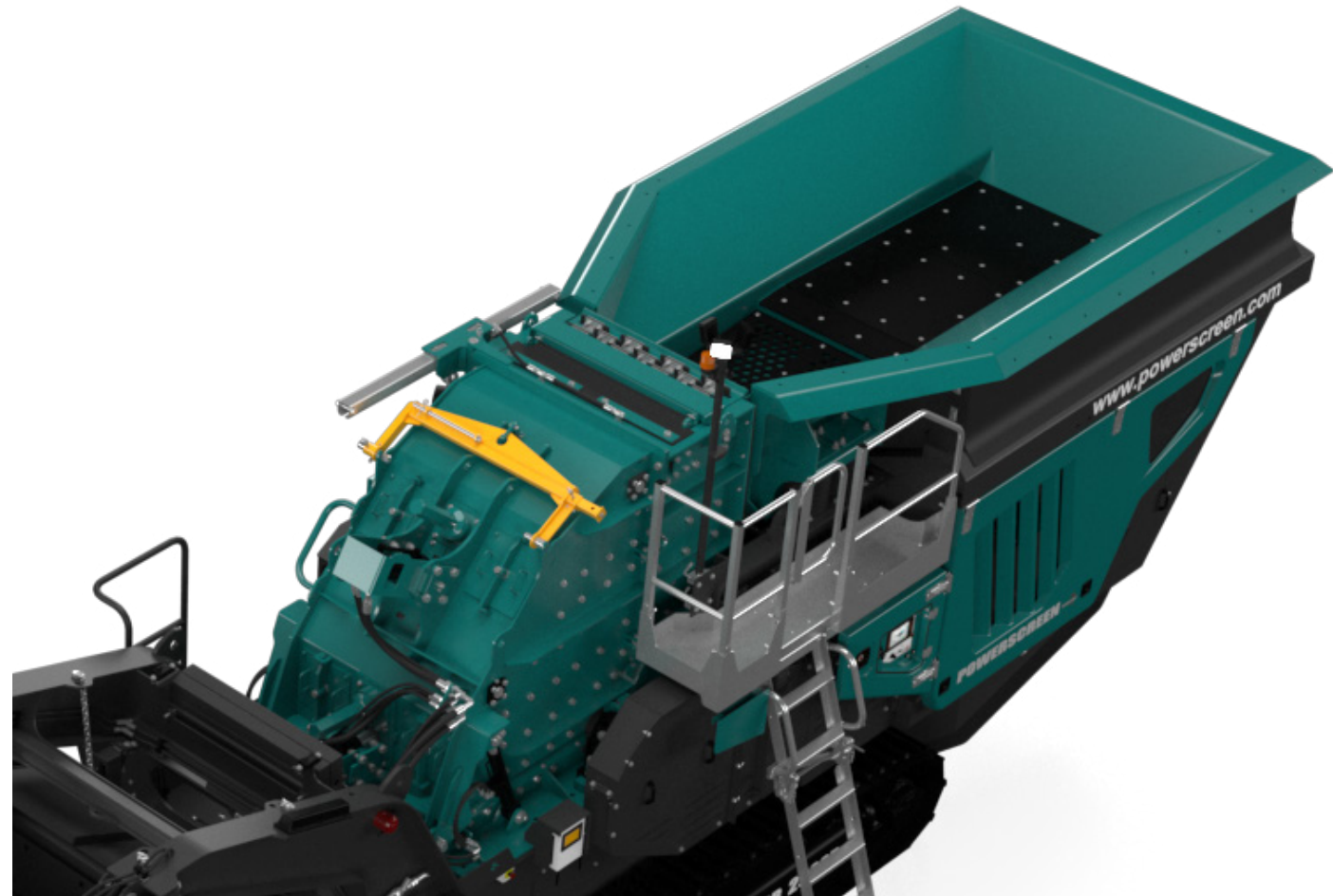
**Length:** 3.8m

Integrated pre-screen for removal of fines

Other apertures, grizzly bars or a blanking plate are available as options

All 3 options are fully interchangeable

40mm punch plate as standard





## TRAKPACTOR 290SR



# PRODUCT CONVEYOR

**Belt width:** 1000mm

**Discharge height:** 3.42m folding head section for transport

**Stockpile volume:** 74m<sup>3</sup>

Can be lowered whilst running to aid removal of blockages and also to improve service

Conveyor can be removed as a unit if required. All electrical / hydraulic connections have connection points on chassis.

High specification head drum scraper

## DUST SUPPRESSION SYSTEM

Spray bars with atomiser nozzles mounted over the product conveyor feed & discharge points, piped to an inlet manifold for customer water supply.

**Type:** Clean water multi atomising nozzles

**Inlet:** Single point

**Inlet pressure:** 3 bar (44psi)

**Water supply:** 24 L/min

**Frost protection:** Via system main valves





## TRAKPACTOR 290SR



# ↓ POWER UNIT & HYDRAULICS

**Engine:** Tier IIIA: Volvo D8 235kW (315hp)  
**Operating rpm range:** 1500 - 1800rpm

**Reductant tank size:** 45L  
**Plant drive:** High quality tandem pumps  
Driven via engine PTO's  
**Fuel tank capacity:** 450L - Hinged to access skirting rubber

**Engine:** Tier 4 Final: Volvo D8 235kW  
**Operating rpm range:** (315hp) 1500 - 1800rpm

**Hydraulic tank capacity:** 280L  
**Crusher drive:** Direct drive via 6 SPC drive belts  
Easily adjustable belt back tensioner for easy tensioning and belt replacement

**Engine:** Stage V: Volvo D8 235kW (315hp)  
**Operating rpm range:** 1500 - 1800rpm

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

Easy service access with 'walk in' ability at rear to access engine dipstick / filters etc.

Hydraulic components grouped together and electrical components grouped together for easy troubleshooting.

Hinged cooler pack to improve serviceability access and to aid cleaning

**# For applications outside this range please consult with Powerscreen as the plant performance / reliability may be affected.**

Auxiliary components are powered hydraulically







## TRAKPACTOR 290SR



# ↓ TRACKS

Type:	Heavy duty, 2 speed, bolt
Sprocket centres:	on 3.29m
Track width:	400mm
Gradeability:	30° maximum
Max speed:	1 km/h





## TRAKPACTOR 290SR



# ↓ POST-SCREEN & CONVEYORS

### POST-SCREEN

<b>Top deck:</b>	2.74m x 1.5m
<b>Tensioning top deck:</b>	Side tensioned mesh
<b>Drive:</b>	Hydraulic motor
<b>Screen angle:</b>	25°
<b>Screen speed:</b>	1200rpm
<b>Screen stroke:</b>	7mm

Screen can be lowered to horizontal to ease mesh change and maintenance

Ability to quickly detach the complete afterscreen system to convert machine to a straight through model or be able transport it separately

### FINES CONVEYOR

<b>Belt width:</b>	1200mm
<b>Discharge height:</b>	3m
<b>Stockpile volume:</b>	50m <sup>3</sup>

### OVERSIZE TRANSFER CONVEYOR

<b>Belt width:</b>	500mm
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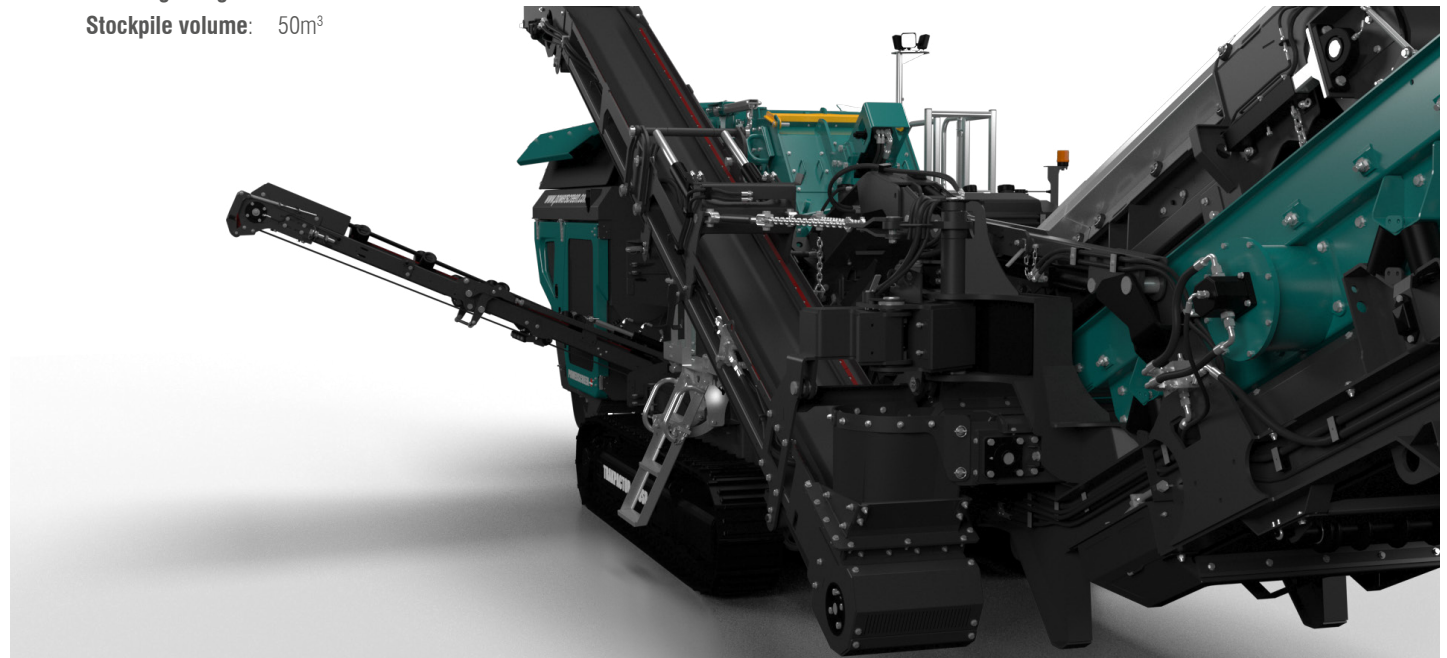
### RECIRCULATING CONVEYOR

<b>Belt width:</b>	500mm
<b>Discharge height in stockpile mode:</b>	3.2m
<b>Stockpile volume:</b>	60m <sup>3</sup>

Variable speed

650mm ground clearance beneath conveyor feedboot Conveyor can hydraulically slew to enable customer to stockpile oversize material

Conveyor detaches as part of the afterscreen system





## TRAKPACTOR 290SR



# PLANT CONTROLS & OTHER

### GUARDS

Wire mesh, GRP or sheet metal guards are provided for all drives, flywheels, pulleys & couplings

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

### PLATFORMS

Ground level access to power unit

Right hand side chamber access via fold out ladders and handrails

Left hand side access via fixed steps

### PLANT CONTROLS

- Intuitive 'push button' control system
- The main control panel uses a printed circuit board (PCB) solution to improve reliability
- Machine start up can be completed by 2 button presses
- The main operating information screens are navigated by the operating mode selector switch

### UMBILICAL CONTROL

An umbilical control unit is supplied with the plant

This is used to control the tracking function & is also fitted with a stop button for the plant

### UNDER CRUSHER CHUTE

Replaceable liners on all sides: 15mm impact zone, 10mm at bypass chute

Good clearance from rotor to belt: 400mm

Minimal snagging points for rebar / material in recycling applications

