



SCRAP PRO 400



***BUILT FOR THE
TOUGHEST TASKS***

**TECHNICAL
SPECIFICATION**

SUPERIOR SCRAP PROCESSING

The MDS SCRAP PRO 400 track rotary screener is designed specifically for the scrap and metal recycling industry, offering a solution to long-standing challenges in processing efficiently. With its robust construction and advanced features, this machine is built to handle tasks that have traditionally been difficult for conventional equipment.

The SCRAP PRO 400 is tailored for heavy-duty scrap processing, addressing a key gap in the market where standard recycling trommels and scalpers often fall short. It is equipped with a wear-resistant push feeder, capable of withstanding the abrasive nature of scrap materials, and a durable drum frame that supports a variety of screen sizes, ranging from 25mm to 150mm (1" to 6"). Additionally, it features an apron-style conveyor for handling oversized material and a heavy-duty three-ply fines belt, ensuring long-lasting performance in demanding environments.

With auto-reverse functionality and adjustable drum rotation speeds, the SCRAP PRO 400 is designed for maximum efficiency and reliability, making it the ideal solution for businesses in the scrap and metal recycling industry seeking a machine that can handle the toughest materials with ease.



BUILT TO EXCEL IN A WIDE RANGE OF APPLICATIONS ALL YEAR-ROUND

SUITABLE FOR



Incinerator bottom ash



Steel Slag



Primary Screening



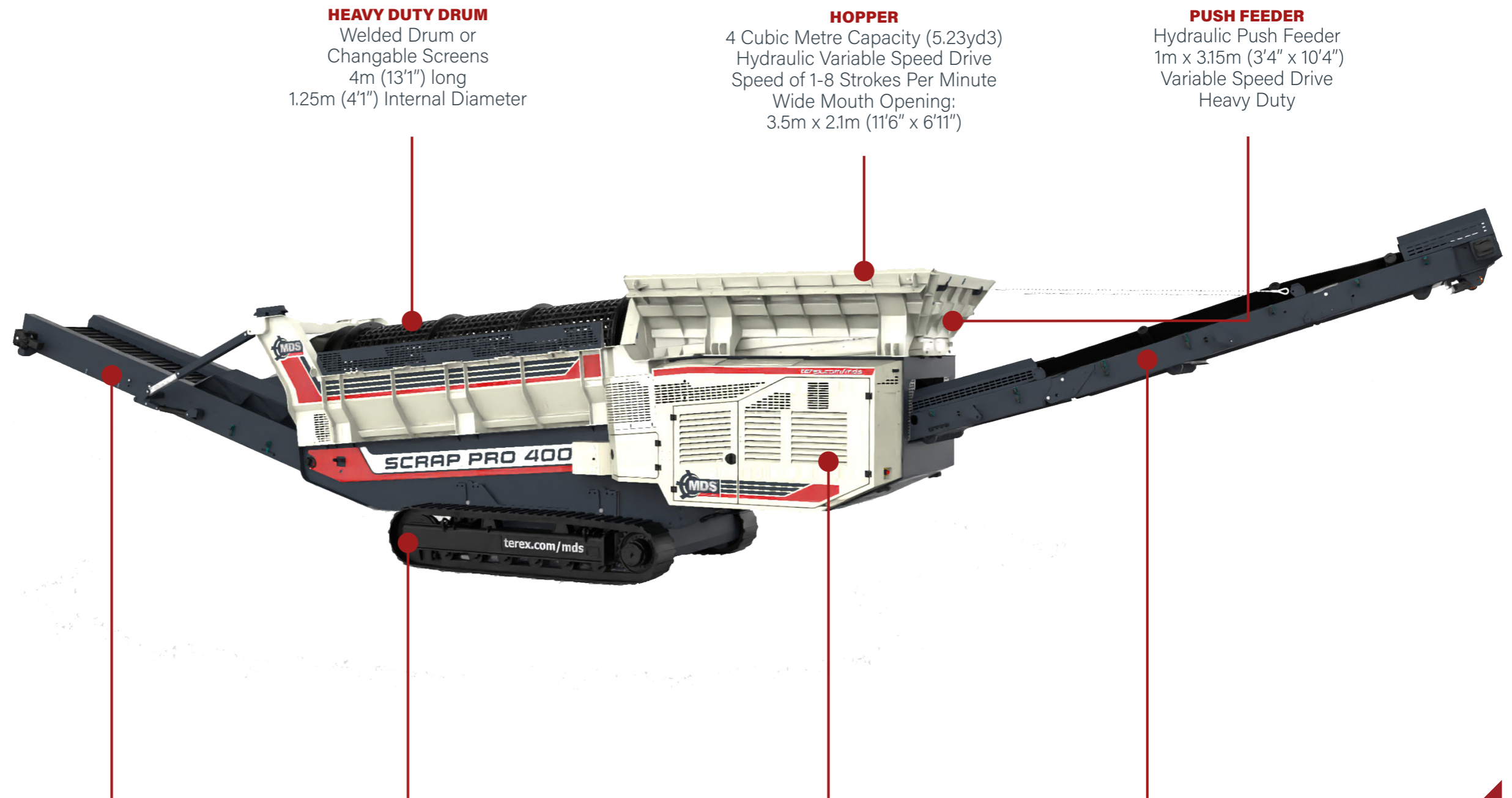
Demolition/Concrete



Recycling



Scrap Metal



HEAVY DUTY DRUM

Welded Drum or
Changable Screens
4m (13'1") long
1.25m (4'1") Internal Diameter

HOPPER

4 Cubic Metre Capacity (5.23yd³)
Hydraulic Variable Speed Drive
Speed of 1-8 Strokes Per Minute
Wide Mouth Opening:
3.5m x 2.1m (11'6" x 6'11")

PUSH FEEDER

Hydraulic Push Feeder
1m x 3.15m (3'4" x 10'4")
Variable Speed Drive
Heavy Duty

OVERSIZE CONVEYOR

Discharge Height: 3100mm (10'2")
Heavy Duty Apron style conveyor
Single Heavy Duty
Motor Gearbox Drive
1000mm width (3'3")

TRACKS

All terrain heavy duty tracks
Shoe Width 500mm (1'7")
Length Centres 2.8m (9'2")
Gauge Centres 2.19m (6'10")

ENGINE

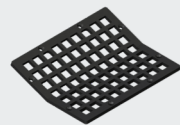
55kW (74HP)
CAT 2.2 Stage 5 Diesel Engine
Hydraulic Power Unit
Electronic Control System
Sensors for Blockage Prevention and
Machine Monitoring

FINES CONVEYOR

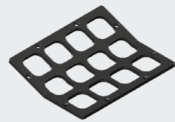
1000m Width (3'3")
Discharge Height: 3550mm (11'8")
Single Hydraulic Drive
Heavy Duty Belt

DRUMS & SCREENS

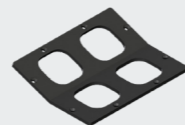
The SCRAP PRO 400 drums can come in two configurations. Customers have the option of a drum frame with changeable screens or a fully welded drum. Drum cleaners only work with fully welded drums. Fully Welded options are 75mm (3"), 100mm (4"), 125mm (5") and 150mm (6"). Drum frame with changeable screens is recommended for free-flowing or abrasive applications.



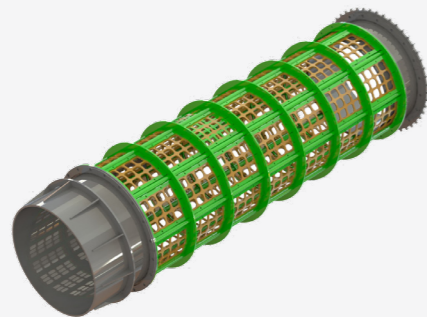
1" (25mm)
1.5" (38mm)
2" (50mm)



3" (75mm)
4" (100mm)
5" (125mm)



6" (150mm)



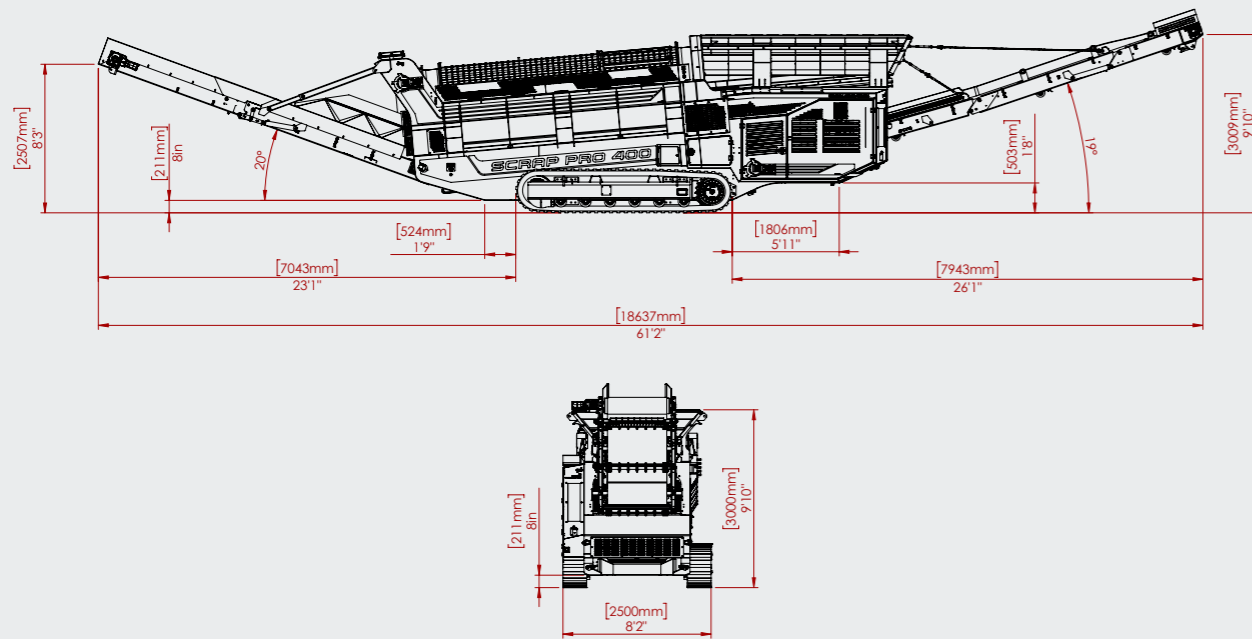
Drum Frame with Screens
4m drum frame with screens
Various screen sizes
Easily changeable screens

3D / Titled screens are available in various sizes

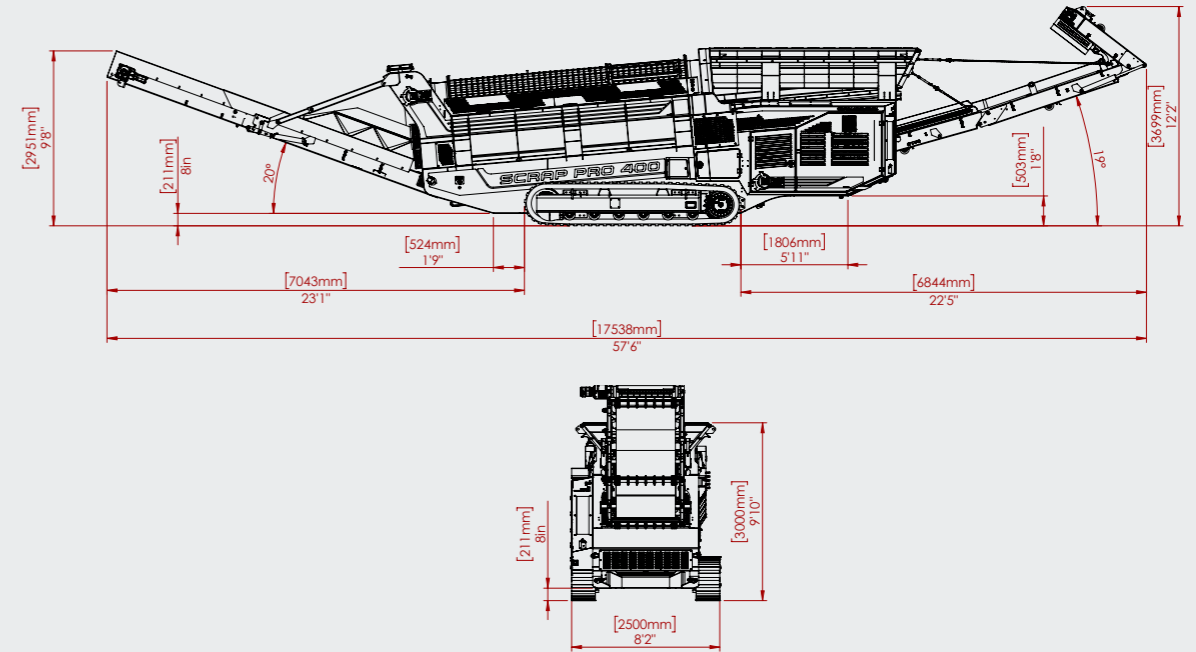


DIMENSIONS

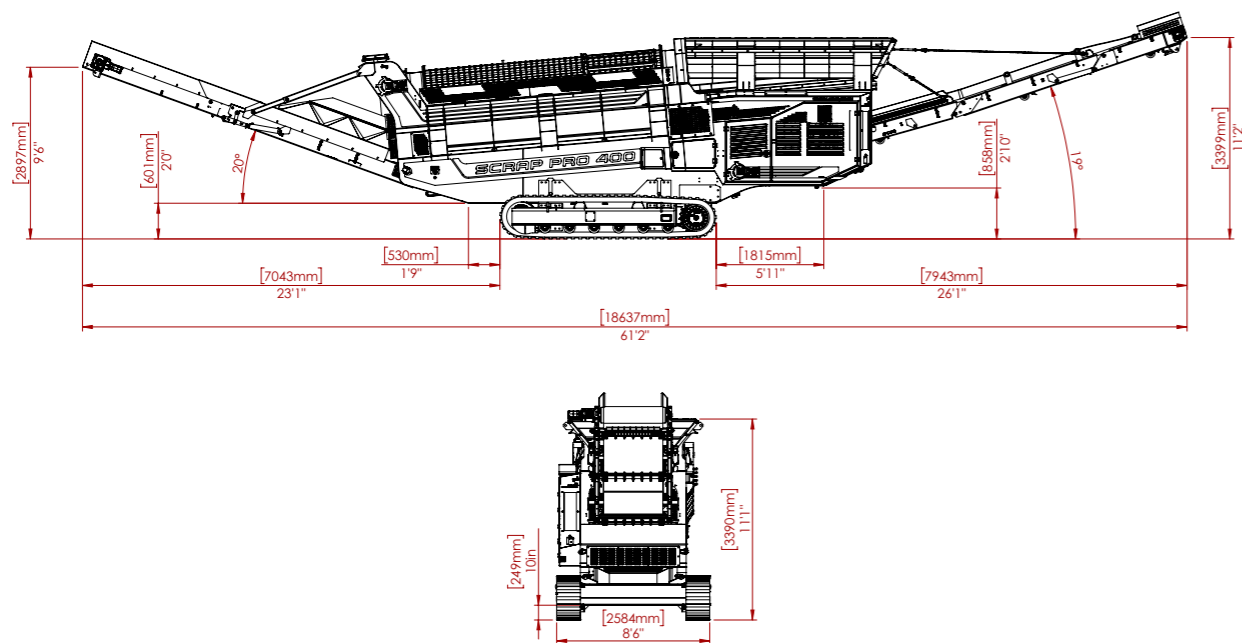
WORKING DIMENSIONS WITHOUT CHASSIS RISER



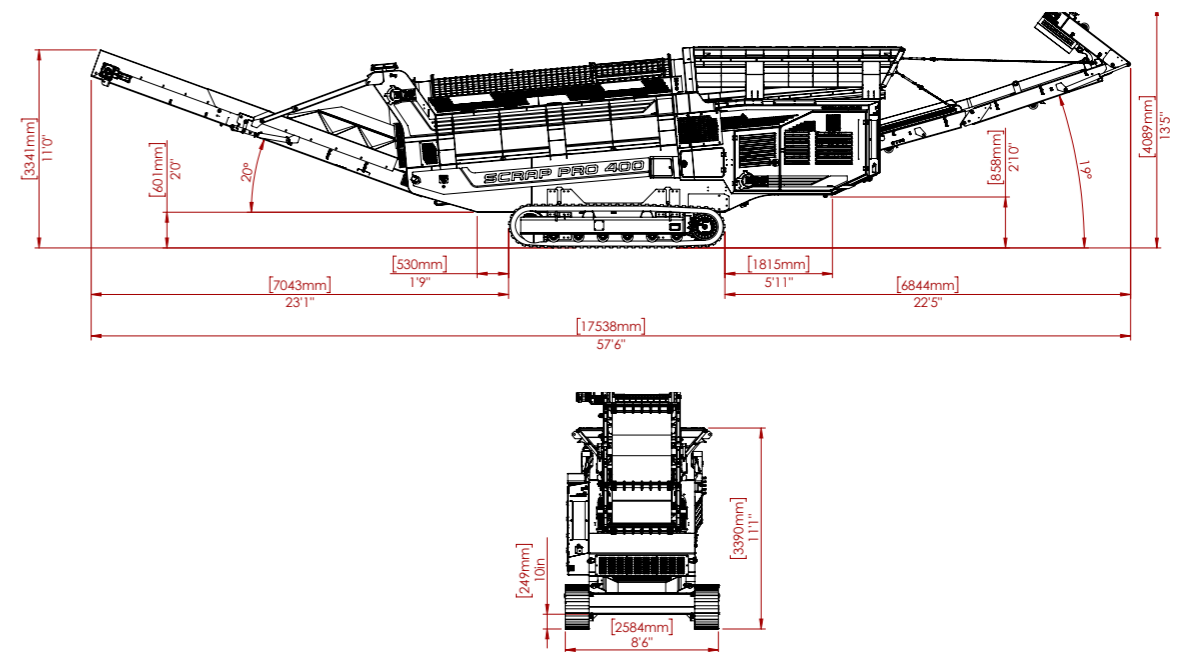
TRANSPORT DIMENSIONS WITHOUT CHASSIS RISER



WITH CHASSIS RISER



WITH CHASSIS RISER



SPECIFICATIONS

HOPPER

Hopper Capacity	4m ³ (5.23 cu. yards)
Feeder Width	1m (3' 4")
Feeder Length	3.15m (10' 4")
Feeder Type	Heavy duty Reciprocating Pan Feeder
Drive	Hydraulic variable Speed via Hydraulic Cylinder
Speed	Variable, 1-8 Strokes Per Minute
Wear Resistant Feeder Floor	

FINES CONVEYOR

Belt Width	1000mm (3' 3")
Belt Spec	EP500/3 5+1.5
Discharge Height	3550mm (11'8")
Working Angle	16°
Speed	112 m/min
Drive	Heavy Duty Hydraulic Motor
Max Rock Size	150mm (6")

OVERSIZE CONVEYOR

Belt Width	1000mm (3' 3")
Belt Spec	Heavy duty damage resistant apron style conveyor
Discharge Height	3100mm (10'2")
Working Angle	18°
Speed	40M/min
Drive	Single Heavy Duty Motor Gearbox Drive
Max Rock Size	600mm (24")

POWER UNIT/HYDRAULICS

Tier 4 F Stage 5 Dual Cert -CAT 2.2	
Engine Power	55kW (74HP)
Engine Speed	2500RPM
Feeder/Drum/Tracks	Gear Pumps (Max Pressure 210 Bar)
Conveyors	Gear Pumps (Max Pressure 210 Bar)

TROMMEL DRUM

Drum Diameter	1.25m (4'1")
Drum Length	4.6m (15'1")
Incline Angle	5°
Drive Type	Chain driven
Drive Motor	Hi Torque Motor and Gearbox Combination Max Torque - 4000NM
Speed	Variable up to 14RPM

DRUM OPTIONS

Fully Welded Drum	75mm (3") - 150mm (6")
Heavy Duty Changeable Screens	25mm (1") - 150mm (6")

UNDERCARRIAGE

Hopper Deflector Plates
Grade 68 Hot Climate Oil
Wireless Remote Control
Hopper Extensions

CONTROL PANEL

Protection	Dust and Weatherproof to IP55
Switches	Ignition Key Switch, Emergency Stop
User-Friendly Operator Interface	
Intelligent Machine Control to Prevent Blockages	

CHASSIS

Main Chassis	Web and Flange Chassis, Monocoque Design
Safety Guarding	To Relevant ISO standards
Low-Level Greasing Points	

TANK CAPACITIES

Fuel Tank	170 Litres (44 US Gallons)
Hydraulic Tank	200 Litres (53 US Gallons)

UNDERCARRIAGE

Length Centres	2.8m (9'2")
Gauge Centres	2.19m (6'10")
Flow Per Track (L/Min)	70
Pressure (Bar)	210
System Type	Open Loop
Shoe Width	500mm (17")



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Ireland

Drummond, Magheracloone
A81 TE82, Carrickmacross
Co. Monaghan, Ireland
Tel: +353 42 966 7899
Email: mds.info@terex.com

USA

Louisville
11001 Electron Drive,
Louisville, Kentucky, 40299 USA
Tel: +1 502 736 5233
Email: mds.info@terex.com

www.terex.com/mds



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