



# PRODUCT OVERVIEW

**SPECIALISTS IN  
SCREENING TECHNOLOGY**



## OUR STORY

Welcome to the world of MDS, an Irish manufacturing company that was founded in 1995 and is now part of the Terex Materials Processing group. We specialise in equipment for aggregate handling, quarry mining, construction and recycling sectors.

We are widely known for our heavy-duty track trommels and there is a range of models available in our product range that cater for the diverse customer needs. The designs are revolutionary and innovative with several added features which have allowed us to increase working life and productivity.

Our units are primarily used in applications like recovering rocks from overburden, cleaning off sticky clay from rocks, riprap/armour rocks, processing blasted rocks up to 3" (800mm) in size, recycling and processing construction and demolition waste (C+D).

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# PRODUCT OFFERING

Our Trommels provide unparalleled productivity and can screen rocks as large as 800mm (32"), much bigger than any other mobile screen. We are a world leader in mobile heavy-duty trommels.

MDS Trommels are a complimentary product to the customers' crushing and screening fleet. Our units have great working synergies and work well as primary processing units pre crushing and screening.

The heavy duty rotating drum offers a different cleaning mechanism, which is a superior way of screening. The material tumbles and scrubs against each other and drum walls, giving a much cleaner output product. They're also effective in cleaning clay bound rock and rocks mixed with other sticky materials.

Our feed mechanism is also different and is able to handle larger feeds (Up to 20 Tons on M515). This gives advantage in screening as they can handle large rocks for sea defence and rip-rap.

Our units are ideal for Mining, Quarrying, Construction & Demolition waste (C + D) and Recycling sectors.



# APPLICATIONS

MDS trommels can tackle diverse applications and are most commonly used to process materials such as, rip-rap, armour rock, overburden and blasted rock. MDS trommels can be equipped with various types of drums and screen sizes depending on the application requirements.



## QUARRY

- Blasted Rock
- Rip-Rap/Armour Rock
- Gabion Stone
- Iron Ore
- Overburden
- Copper Ore
- Nickel Ore
- Coal



## MINING

- Granite
- Basalt
- Iron Ore
- Overburden
- Copper Ore
- Nickel Ore
- Coal



## CONSTRUCTION & DEMOLITION WASTE (C + D)

- Rubble Recovery
- Demolition Waste
- Primary Processing



## RECYCLING

- Compost
- Top Soil
- Woodwaste
- Steel slag
- Scrap metal



# MDS M412

The M412 Track Trommel is ideal for screening from light material to recycling heavy demolition waste. This machine can also operate in the quarry, cleaning dirty material up to 600mm (24") in height. It comes complete with the fold out stockpiling conveyors and is ideal for moving around the quarry and from one site to the next.

## Transport Dimensions

**Length:** 12,820mm (42ft)  
**Width:** 2,500mm (8ft 2")  
**Height:** 3000m (9ft 8") | 3,423mm (11ft 2") w/Grid  
**Weight:** 21.5 tonnes (23.7 US Tons)

## Discharge Heights

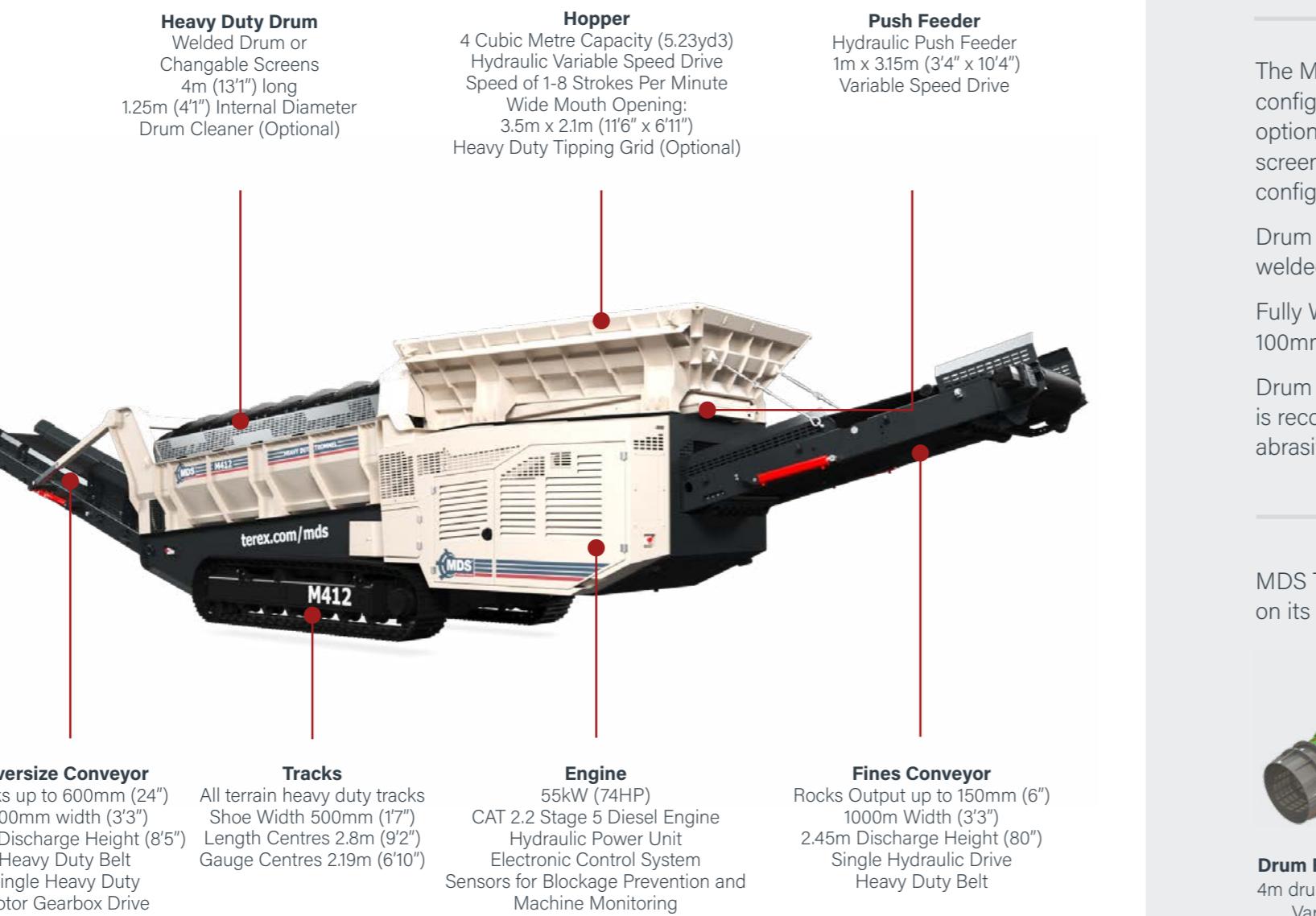
**Oversize:** 2,326mm (7ft 6")  
**Fines:** 2,136mm (7ft)

## Output

**Capacity:** Up to 300 Tonnes per hour (330 US Tons PH)

## Options

Drum Cleaner, Tipping Grid, Chassis Riser, Hopper Deflectors & Hopper Doors



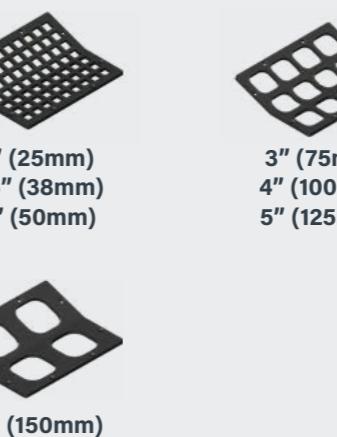
## DRUMS & SCREENS

The M412 drums can come in two configurations. Customers have the option of a drum frame with changeable screens or a fully welded drum. These configurations are shown to the right.

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.



MDS Trommels can come with an option to get changeable screens on its drums or fully welded drums.



# MDS M413

The M413 is ideal for contractors fleets and can operate in quarries cleaning dirty material up to 600mm (24") in size. The M413 can also recycle construction and demolition waste (C + D). It comes complete with three fold out stock piling conveyors and it's compact design makes it ideal for regular transport to different sites.

## Transport Dimensions

**Length:** 13,405mm (43ft 11")

**Width:** 2,500mm (8ft 2")

**Height:** 3,100m (10ft 2") | 3,524mm (11ft 6") w/Grid

**Weight:** 29.5 tons

## Discharge Heights

**Oversize:** 2,039mm (6ft 8")

**Mid-Product:** 1,986mm (6ft 6")

**Fines:** 1,993mm (6ft 6")

## Output

**Capacity:** Up to 300 Tonnes per hour (330 US Tons PH)

## Options

Drum Cleaner, Tipping Grid, Chasis Riser, Hopper Deflectors & Hopper Doors

**Oversize Conveyor**  
Rocks up to 600mm (24")  
1000mm width (3'3")  
2.57m Discharge Height (8'5")  
Heavy Duty Belt  
Single Hydraulic Drive

**Heavy Duty Drum**  
Welded or Changeable Screens  
4.6m (15'1") long  
1.25m (4'1") Internal Diameter  
Drum Cleaner (Optional)

**Hopper**  
4 Cubic Metre Capacity (5.23yd<sup>3</sup>)  
Hydraulic Variable Speed Drive  
Speed of 8 Strokes Per Minute  
Wide Mouth Opening:  
3.5m x 2.1m (11'6" x 6'11")  
Heavy Duty Tipping Grid (Optional)

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



**Mid Product Conveyor**  
Rocks up to 300mm (12")  
1350mm (4'5") width  
2.38m (7'8") Discharge Height  
Single hub drive  
Heavy Duty Belt  
Heavy Duty Motor Gearbox Drive

**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**  
Rocks Output up to 150mm (6")  
1000m Width (3'3")  
2.45m (8'0") Discharge Height  
Single Hydraulic Drive  
Heavy Duty Belt

## DRUMS & SCREENS

The M413 uses the same screens as M412 in its fines section. Mid-Product section uses a different style of screens. There are various screen sizes that can be chosen for the M413 Trommel which are shown.

Drum cleaners only work with fully welded drums and in the fines section.

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.



**Fines**

1" (25mm)-6" (150mm)

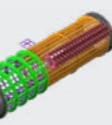


**Mid Product**

3" (75mm)-12" (300mm)



**Standard Set Up - Both Screens**



**MP Welded, Fines Screens**



**MP Screens, Fines Welded**



**Both Welded Sections**



## DID YOU KNOW?

That MDS technology incorporates unique features that leaves the trommel drum clear of obstructions.

# MDS M515

The M515 is the perfect machine for processing the largest of rocks, up to 800mm (32") in size. Typical applications would be rip-rap, armour rock and quarry overburden.

The M515 is the flagship model in the MDS range that comes complete with fold out stockpiling conveyors and has 4 hydraulic jacking legs to raise the machine to increase stockpile capacities and lower for transportation.

## Transport Dimensions

**Length:** 17.3m (56ft 8")

**Width:** 3.0m (9ft 9")

**Height:** 3.84m (12ft 6") w/grid

**Weight:** 52,800kg (116,405lbs)

## Discharge Heights

**Fines:** 4.07m (13ft 4")

**Mid-Product:** 3.6m (11ft 8")

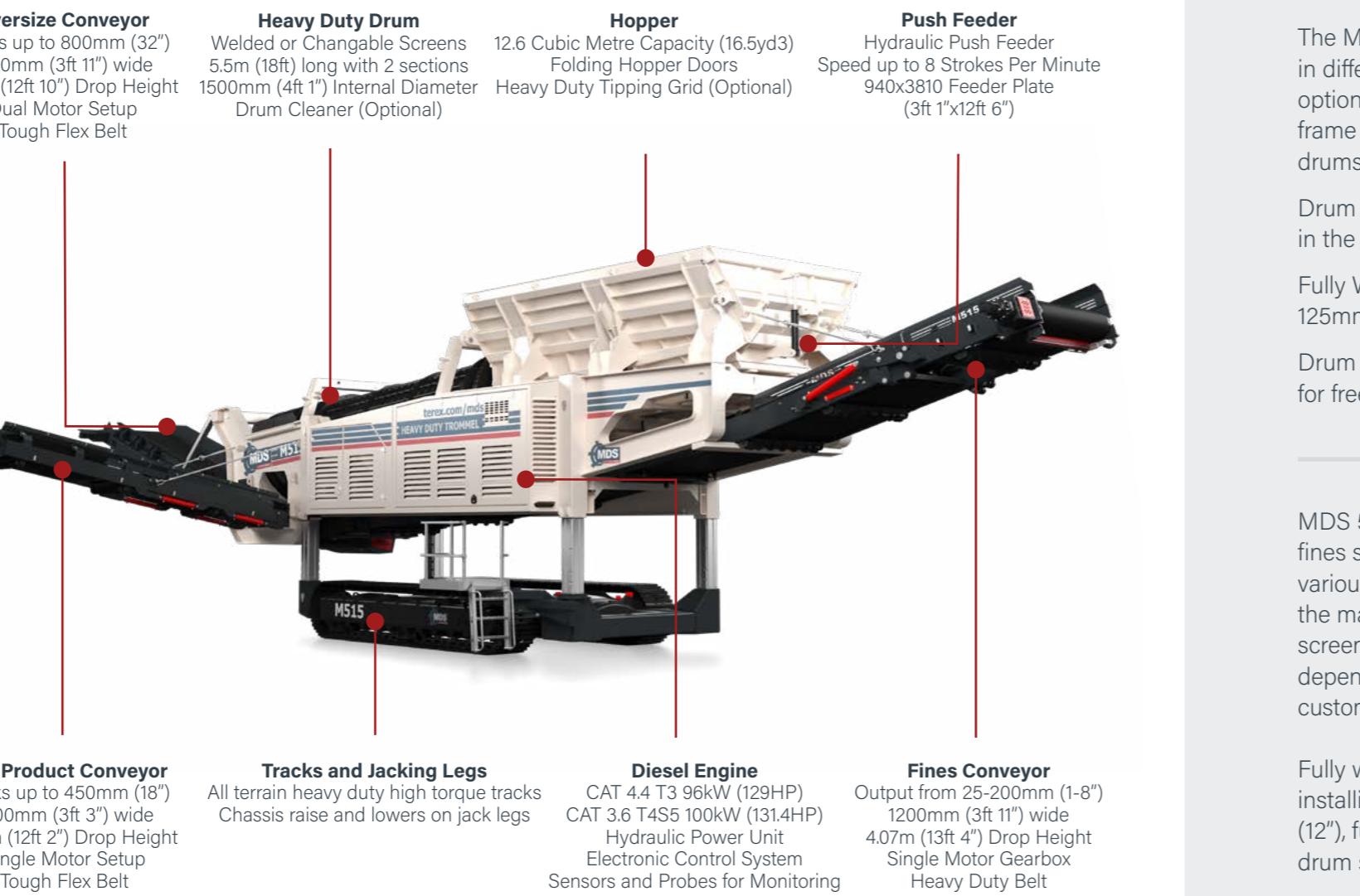
**Oversize:** 3.7m (12ft 1") on oversize

## Output

**Capacity:** Up to 500 tonnes per hour  
(up to 550 US tons PH)

## Options

Drum Cleaner, Tipping Grid, AutoLube  
Additional Conveyor Guarding,  
Wireless Remote



## DRUMS & SCREENS

The M515 trommel is a versatile unit and can be used in different applications. MDS offers different drum options to cater for the needs of the customers. Drum frame with changeable screens and fully welded drums are available as options.

Drum cleaners only work with fully welded drums and in the fines section.

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.



# MDS M518R

The M518R is a compact recycling trommel that is designed to be used in various applications. It is packed with many features, including a 180 degree radio fines conveyor, offering huge stockpiling capacities.

Typical applications would be, compost, green waste, top soil and general waste.

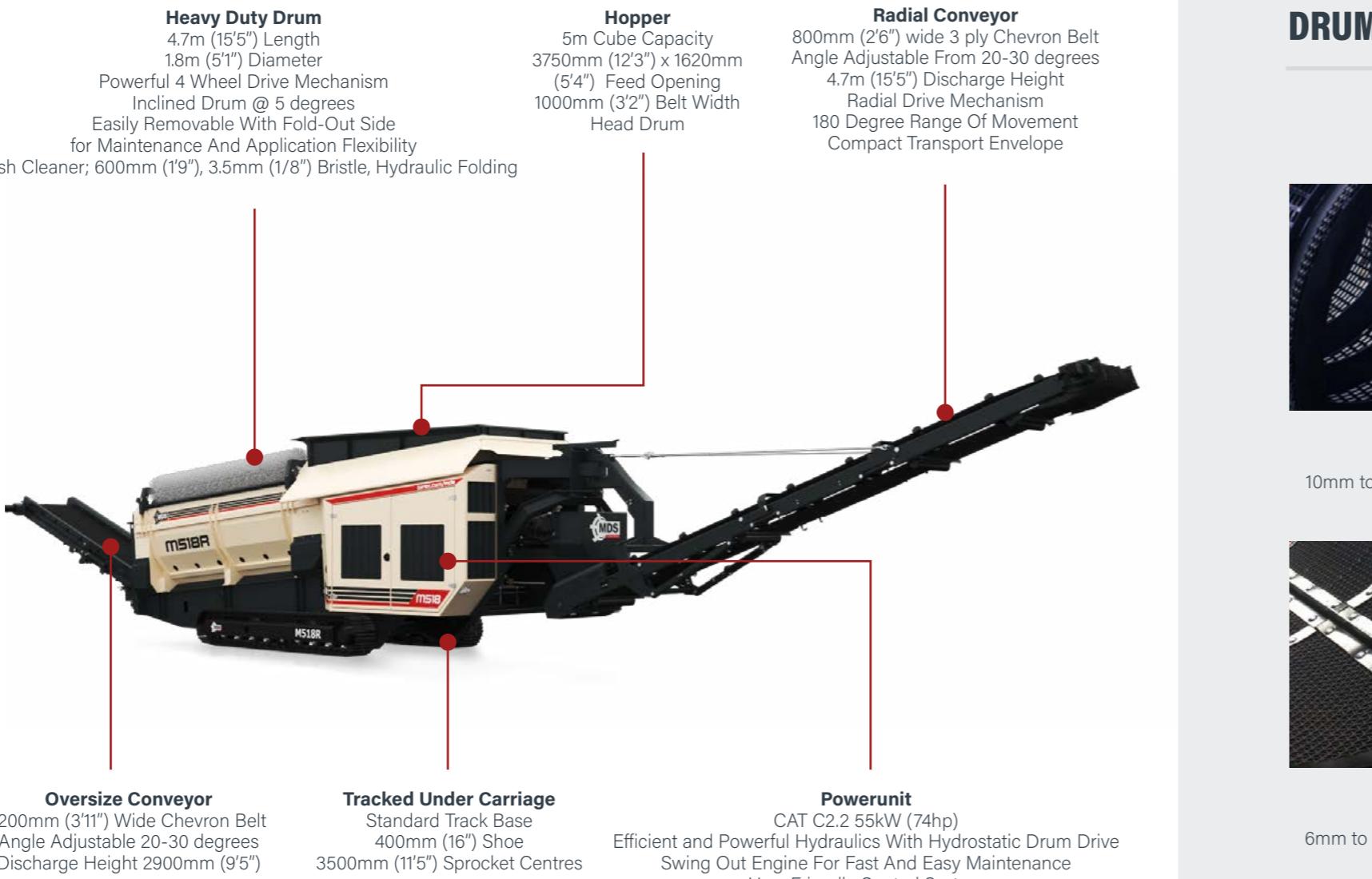
The 180 degree swivel fines conveyor with up to 4.7m discharge height makes the M518R the best in its class when it comes to stockpiles capacity. The conveyor swivel can be controlled from the remote control when the machine is operating, thus avoiding any downtime.

## Transport Dimensions

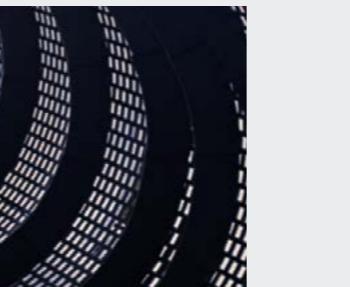
**Length:** 11,630mm (38'2")  
**Width:** 2,900mm (8'11")  
**Height:** 3,400mm (11'2")  
**Weight:** 20,000 kg (44,000lbs)

## Options

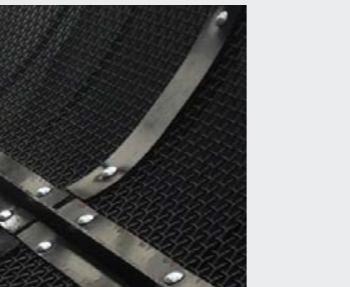
180 Degree Radial Fines Conveyor  
Remote Control Tipping Grid  
Reversible Fan and Punch Plate  
Mesh Drum



## DRUMS TYPES



**Punch Plate**  
10mm to 100mm (13/64"-4") Openings



**Mesh Panels**  
6mm to 40mm (3/64"-3/4") Openings



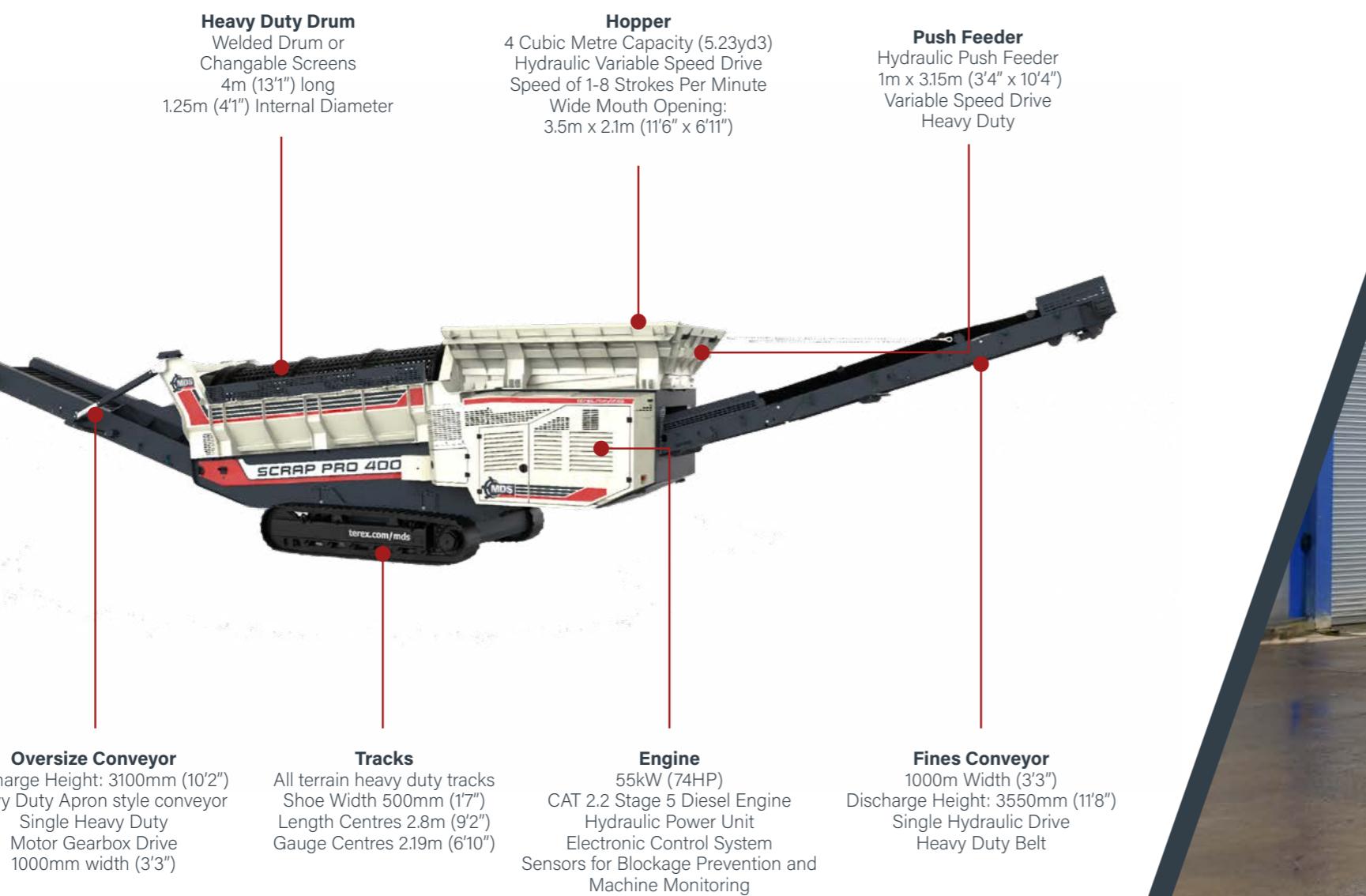
# SCRAP PRO 400

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.

## Transport Dimensions

**Length:** 17,275mm (56'8")  
**Width:** 2,500mm (8'2")  
**Height:** 3,000mm (9'10")  
**Weight:** 22,500 kg (49,500lbs)



# MDS M300

The MDS M300, a powerful heavy-duty scalper designed to meet the toughest industrial demands. This high-performance machine excels at processing challenging materials like quarry blasted rock and construction and demolition debris. Compact and highly mobile, the M300 is perfect for contractors, quarry operators, and recycling yards seeking both strength and manoeuvrability.

Engineered for efficiency and ease of use, the M300 offers fully hydraulic setup for quick transitions without extra equipment. Its heavy-duty double-deck grid, featuring a T-Bar cassette top deck and mesh bottom deck, ensures precise and aggressive scalping. The 1400mm conveyor belt with variable speed boosts productivity, while hydraulic folding components make setup and breakdown fast and simple. Maintenance is streamlined with a swing-out engine and accessible parts, maximizing uptime and performance.

## Transport Dimensions

**Length:** 10,100mm (33'2")  
**Width:** 2,810mm (9'3")  
**Height:** 3,200mm (10'6")  
**Weight:** 20,500 kg (49,500lbs)

**DISCHARGE CONVEYOR**  
Belt width: 1400mm (48")  
Hydraulic drive with steel skirting  
Discharge height: 3960mm (13')  
Stockpile capacity: 100m<sup>3</sup> (108.6yd<sup>3</sup>)

**Collection conveyor**  
Belt width: 1400mm (48")  
Variable speed hydraulic drive

**VIBRATING GRID AND HOPPER**  
Step level abrasion resistant plate T-Bar on top deck  
Hydraulic folding for quick set up and tear down  
Feed opening with wing plates: 4500mm (14'9")  
Grid length: 2400mm (7'10") (with feed plate)  
Grid angle: hydraulically variable between 2° and 25°  
Twin deck vibrating grid 3.35m x 2.6m (11' x 8' 7")  
Bottom deck woven mesh



# MDS M615

The M615 Modular Trommel is capable of screening material at the rate of approximately 500 tons per hour with a max rock size of 800mm (32"). It is ideal for use in cleaning dirty rock or screening blasted material. With 3 possible configurations, our modular trommel covers many applications. The M615 comes with 4 splits as standard.

## Transport Dimensions

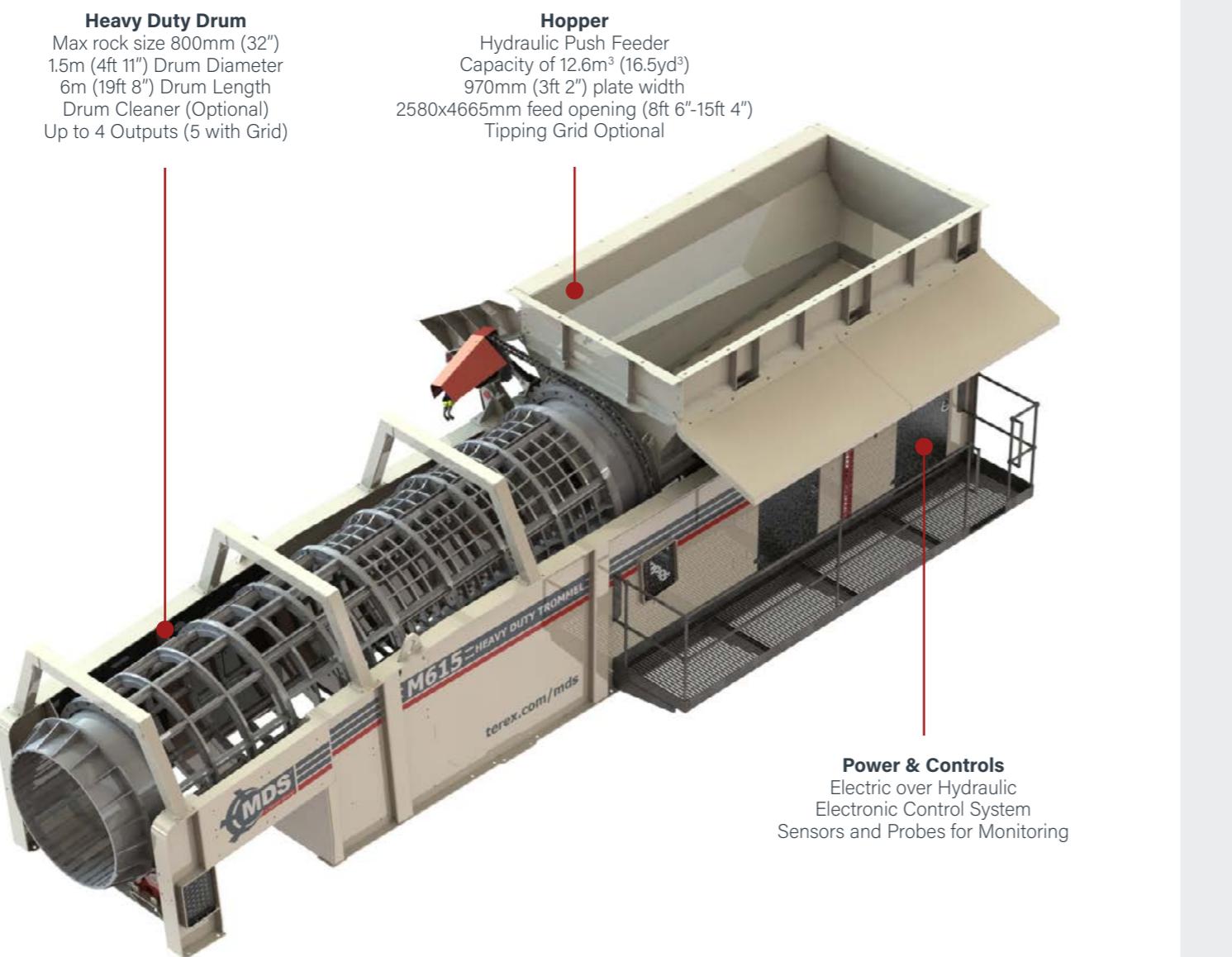
**Length:** 12.3m (40ft 5")  
**Width:** 2.6m (8ft 5")  
**Height:** 3.0m (9ft 11")  
**Weight:** 30,780kg (67,858lbs)

## Walkways

Standard Galvanised Walkway

## Output

**Capacity:** Up to 400 TPH  
(450 US tons PH) depending on application



## DRUMS & SCREENS

The M615 trommel is a versatile unit and can be used in different applications. MDS offers different drum options to cater for the needs of the customers. Drum frame with changeable screens and fully welded drums are available as options. It uses the same screens as the M515.



# MDS M820

The M820 is the largest trommel in the MDS range and is the ideal heavy duty trommel for processing large volumes of material that is capable of taking feeds up to 40 tonnes, straight from dump trucks.

The M820 can cover many applications and can have up to 4 splits.

## Transport Dimensions

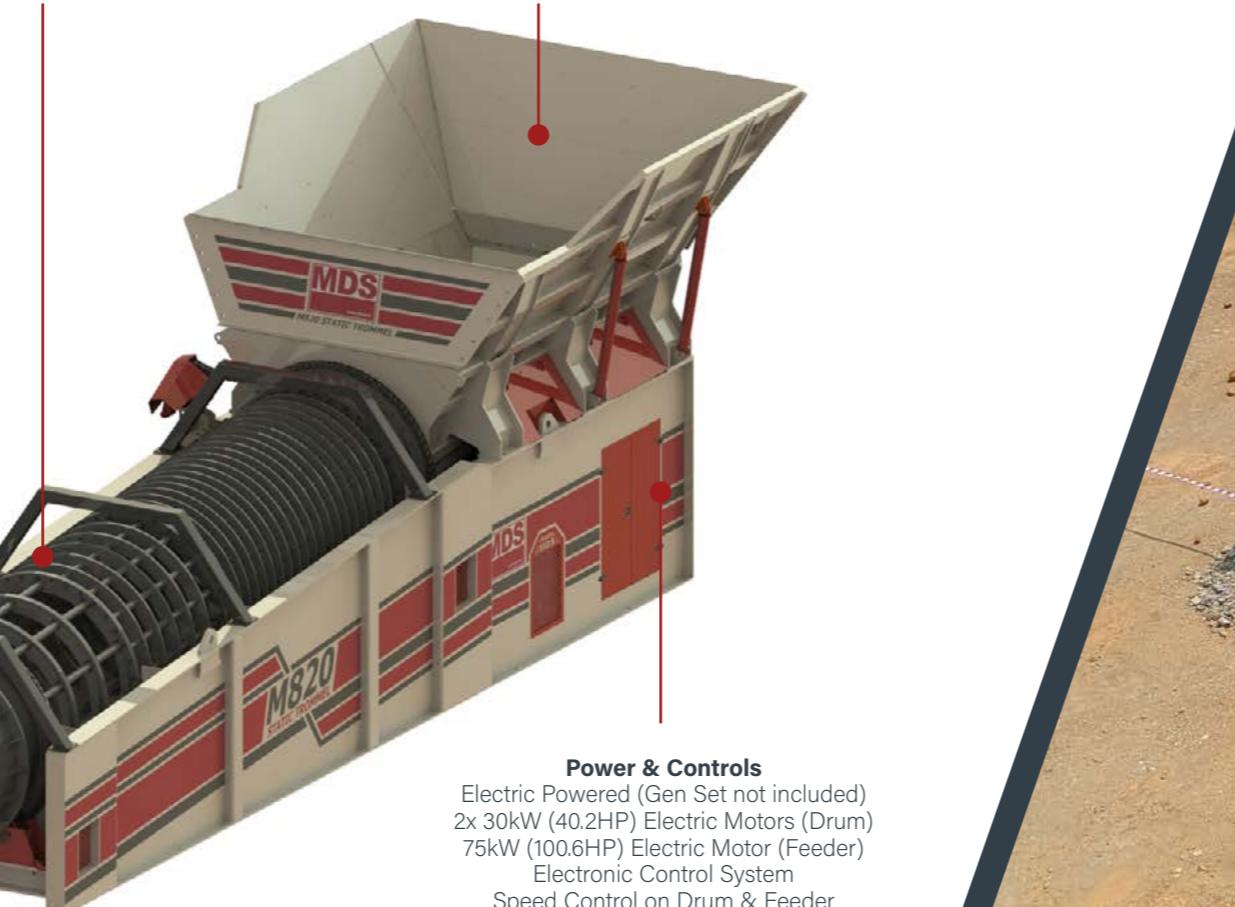
**Length:** 14.9m (48ft 11")  
**Width:** 3.65m (11ft 11")  
**Height:** 3.9m (12ft 9")  
**Weight:** 80,000kg (176,371lbs)

## Options

Extended High Capacity Hopper  
Drum Cleaner Attachment

## Output

**Capacity:** Up to 720 Tonnes per hour  
(826 US Tons PH)



**Heavy Duty Drum**  
Max Rock Size 1m (40")  
Perfect for Cleaning Dirty Material  
2m (6ft 7") Diameter  
8m (26ft 3") Length  
Up to 4 Outputs (25 to 600mm/1-24")

**Hopper**  
Hydraulic Push Feeder  
Standard capacity of 25m<sup>3</sup> (32.7yd<sup>3</sup>)  
Optional Extended Hopper of 70m<sup>3</sup> (91.6yd<sup>3</sup>)  
Extended Hopper for 40 Ton Dump  
1200mm (3ft 11") Plate Width  
4100x4875mm Feed Opening (13ft 5"x16ft)

**Power & Controls**  
Electric Powered (Gen Set not included)  
2x 30kW (40.2HP) Electric Motors (Drum)  
75kW (100.6HP) Electric Motor (Feeder)  
Electronic Control System  
Speed Control on Drum & Feeder  
Auto Drum & Feeder Reverse  
Remote Controlled Start/Stop





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machines in action

#### **Ireland**

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

[www.terex.com/mds](http://www.terex.com/mds)

#### **USA**

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



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