

# PRODUCT OVERVIEW

**WORLD LEADERS IN  
ROCK TROMMEL TECHNOLOGY**



# WORLD LEADERS IN ROCK TROMMEL TECHNOLOGY



## OUR STORY

Welcome to the world of MDS - Leaving no stone unturned! MDS is 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 32" (800mm) in size, recycling and processing construction and demolition waste (C+D).

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# PRODUCT OFFERING

Our Tracked 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
- Overburden
- Pre-Crushing
- Pre-Screening



## MINING

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



## CONSTRUCTION & DEMOLITION WASTE (C + D)

- Rubble Recovery
- Demolition Waste
- Primary Processing



## RECYCLING

- Compost
- Top-Soil
- Woodwaste



# 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 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:** 3000mm (9ft 8") | 3,423mm (11ft 2") w/Grid  
**Weight:** 21.5 tonnes (23.7 US Tons)

## Discharge Heights

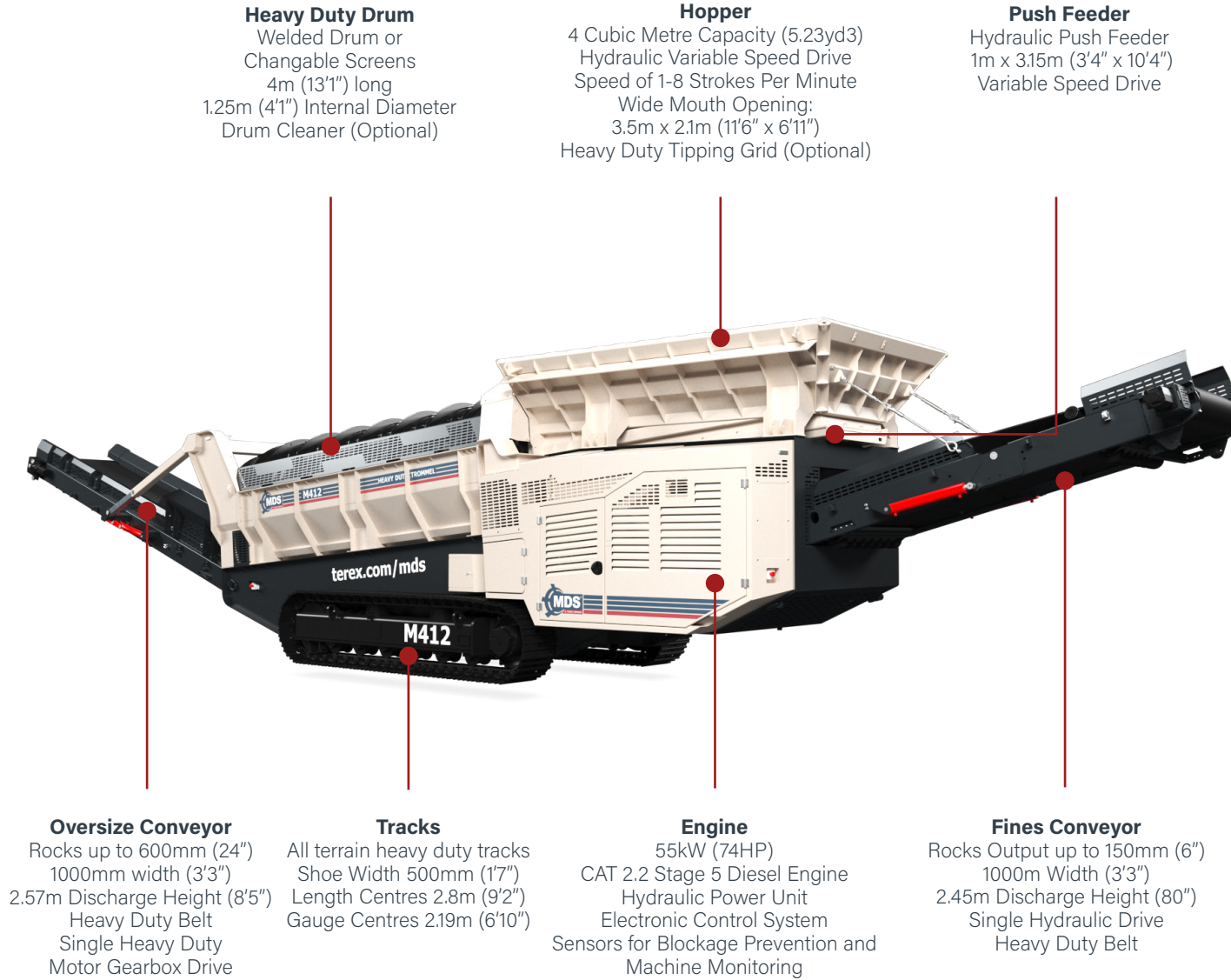
**Oversize:** 2,326mm (7ft 6")  
**Fines:** 2,136mm (7ft)

## Output

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

## Options

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



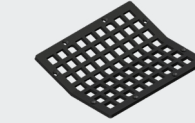
## DRUMS & SCREENS

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.

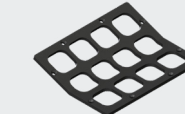
Drum cleaners only work with fully welded drums.

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.



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

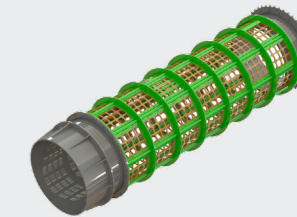


3" (75mm)  
 4" (100mm)  
 5" (125mm)

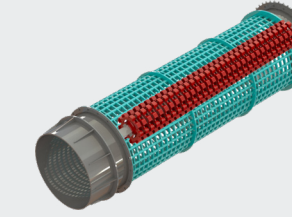


6" (150mm)

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



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



**Fully Welded**  
 Full 4m welded drum  
 Set up for dirty material

## DID YOU KNOW

That MDS drum cleaners are designed to keep the drum openings clear, even in the harshest conditions, ensuring year-round screening for our customers.





# 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:** 3,100mm (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 Changable Screens  
 4.6m (15'1") long  
 1.25m (4'1") Internal Diameter  
 Drum Cleaner (Optional)

**Hopper**  
 4 Cubic Metre Capacity (5.23yd3)  
 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

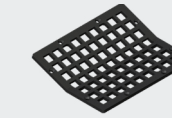
## DRUMS & SCREENS

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.

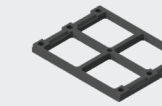
Drum cleaners only work with fully welded drums and in the fines section.

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)

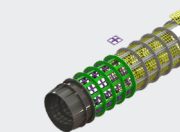


**Mid Product**  
 3" (75mm)-12" (300mm)

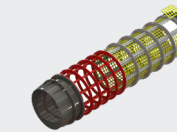
MDS M413 Trommels are made up of a drum with a 2.9m Fines section and 1.7m Mid Product Section.

There are various combinations of drums that can be set up on the machine. These are either frames with changeable screens or fully welded drums.

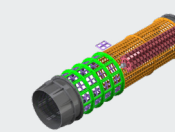
The exact configuration depends on the application and requirements of the customer.



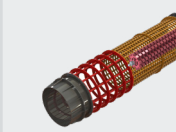
**Standard Set Up - Both Screens**



**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

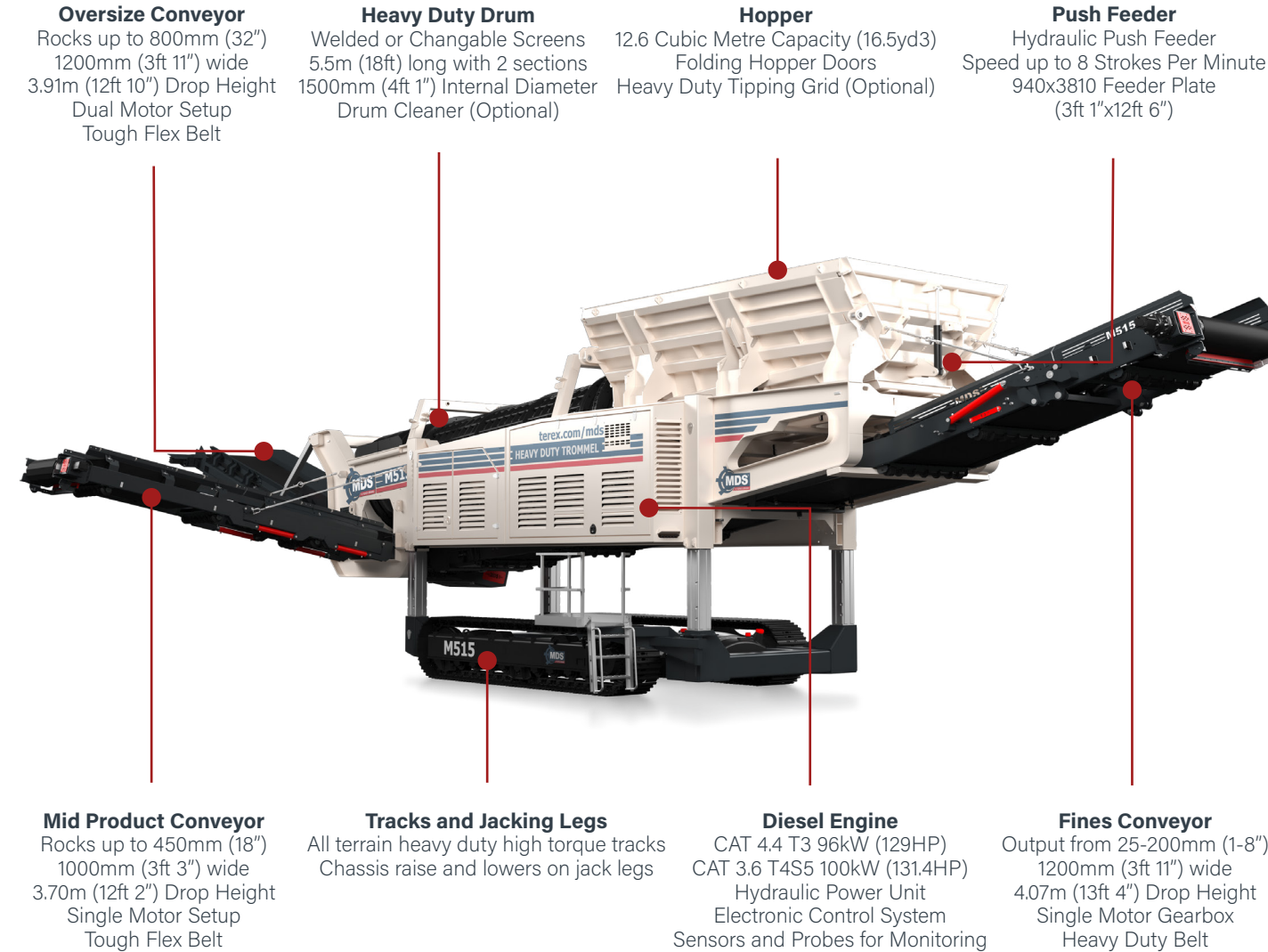
**Fines:** 4.07m (13ft 4")  
**Mid-Product:** 3.6m (11ft 8")  
**Over-size:** 3.7m (12ft 1") on over-size

## 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



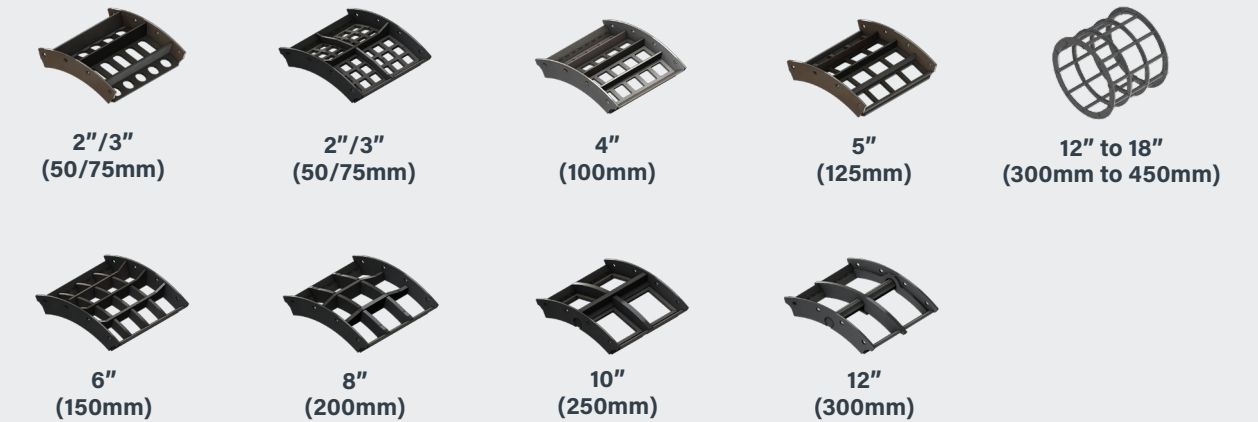
## DRUMS & SCREENS

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 515 trommels are made up of a drum with a 4m fines section and 1.5m Mid Product Section. There are various combinations of drums that can be set up on the machine. These are either frames with changeable screens or fully welded drums. The exact configuration depends on the application and requirements of the customer.

Fully welded drum on the fines section is needed if installing a drum cleaner. For sizes bigger than 300mm (12"), fully welded drum is needed in Mid Product (Max drum size 425mm/16.5")





# 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 radial 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

**Heavy Duty Drum**  
 4.7m (15'5") Length  
 1.8m (5'1") Diameter  
 Powerful 4 Wheel Drive Mechanism  
 Inclined Drum @ 5 degrees  
 Easily Removable With Fold-Out Side for Maintenance And Application Flexibility

**Hopper**  
 5m Cube Capacity  
 3750mm (12'3") x 1620mm (5'4") Feed Opening  
 1000mm (3'2") Belt Width  
 Head Drum

**Radial Conveyor**  
 800mm (2'6") wide 3 ply Chevron Belt  
 Angle Adjustable From 20-30 degrees  
 4.7m (15'5") Discharge Height  
 Radial Drive Mechanism  
 180 Degree Range Of Movement  
 Compact Transport Envelope



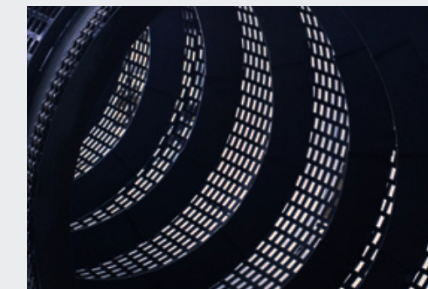
**Brush Cleaner; 600mm (1'9"), 3.5mm (1/8") Bristle, Hydraulic Folding**

**Tracked Under Carriage**  
 Standard Track Base  
 400mm (16") Shoe  
 3500mm (11'5") Sprocket Centres

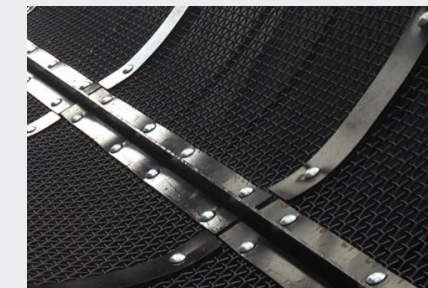
**Powerunit**  
 CAT C2.2 55kW (74hp)  
 Efficient and Powerful Hydraulics With Hydrostatic Drum Drive  
 Swing Out Engine For Fast And Easy Maintenance  
 User Friendly Control System

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

## DRUMS TYPES



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



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





# 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

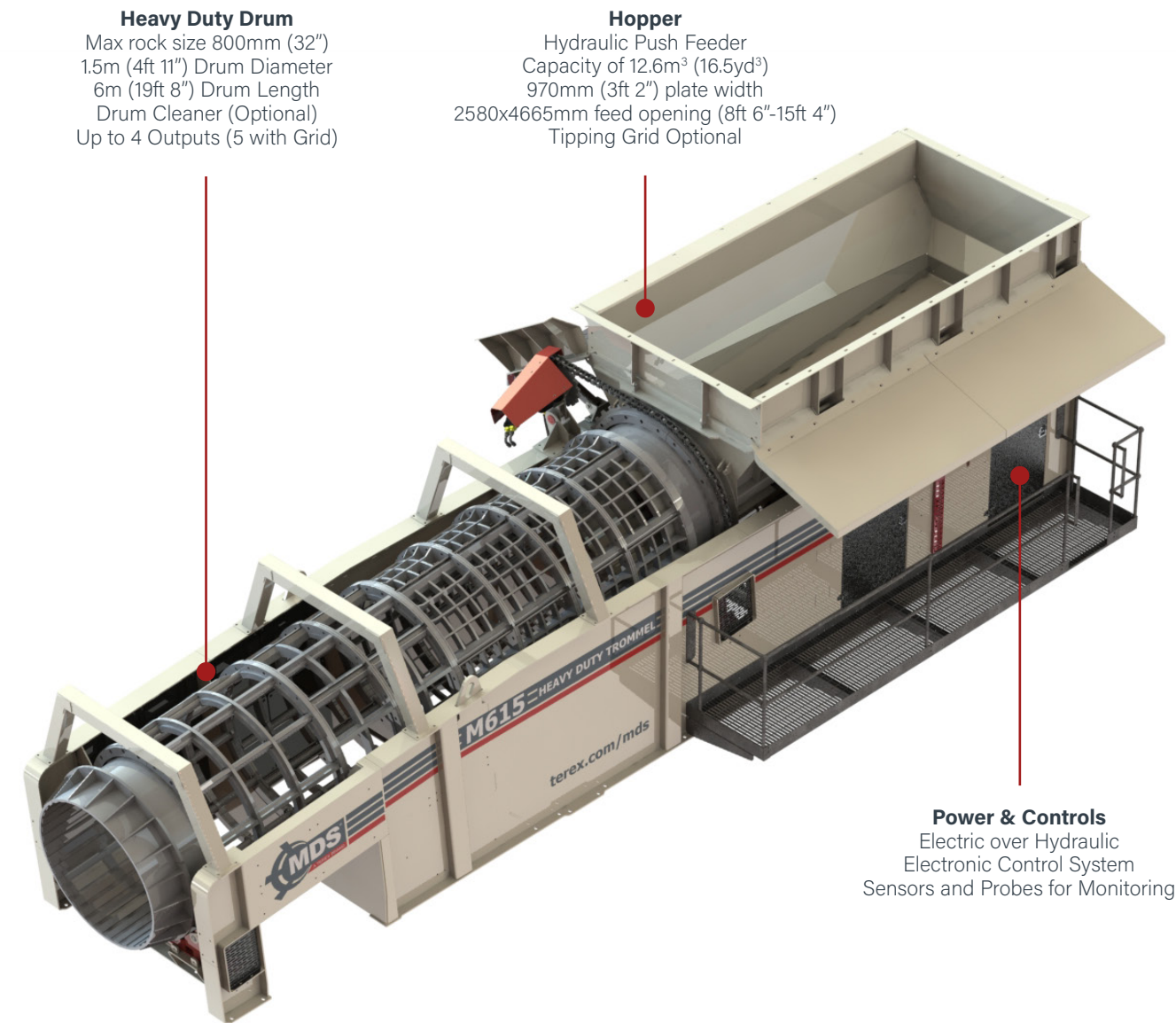
**Length:** 12.3m (40ft 5")  
**Width:** 2.6m (8ft 5")  
**Height:** 3.0m (9ft 11")  
**Weight:** 30,780kg (67,858lbs)

## Walkways

Standard Galvanised Walkway

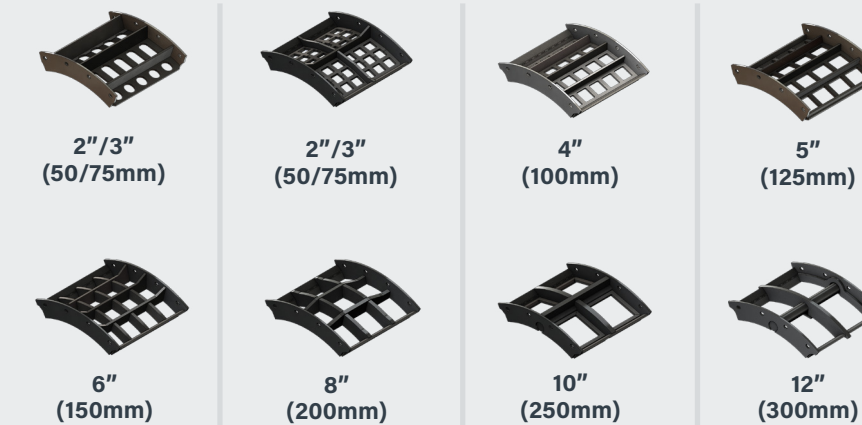
## Output

**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

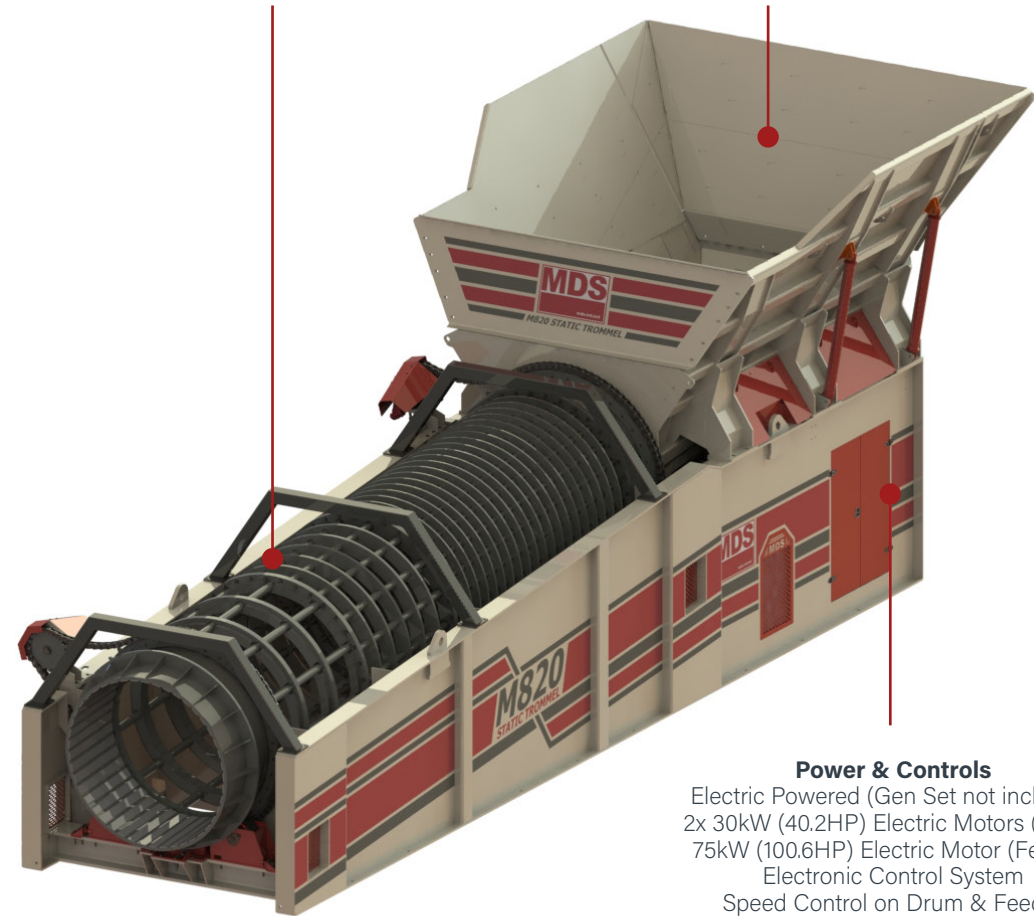
Extended High Capacity Hopper  
Drum Cleaner Attachment

## 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 (13ft5"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





# CONVEYORS

MDS conveyors have been developed as a comprehensive range of robust, reliable and efficient bulk material handling and stockpiling solutions. The range is comprised of Tracked Mobile Conveyors, High and Low Level Feeders, Radial, Orbital and Organics.

Using conveyor means increased capacity and reduces on-site material handling.



### MT24H High Level Feeder

**Output Potential:** Up to 600+ TPH  
**Conveyor Length:** 73.8ft  
**Belt Width:** 1200mm  
**Feeder:** 4.1m  
**Max Discharge Height:** 9.8m @ 24°



### MT24L Low Level Feeder

**Output Potential:** Up to 600+ TPH  
**Conveyor Length:** 73.8ft  
**Belt Width:** 1300mm  
**Feeder:** 4.1m  
**Max Discharge Height:** 9.8m @ 24°



### MT31 Tracked

**Output Potential:** Up to 600+ TPH  
**Conveyor Length:** 98.8ft  
**Belt Width:** 1050mm  
**Max Discharge Height:** 13.1m @ 25°



### MT24 Tracked

**Output Potential:** Up to 500+ TPH  
**Conveyor Length:** 74.8ft  
**Belt Width:** 1050mm  
**Max Discharge Height:** 10.41m @ 25°



### MT21 Tracked

**Output Potential:** Up to 500+ TPH  
**Conveyor Length:** 64.9ft  
**Belt Width:** 1050mm  
**Max Discharge Height:** 9.45m @ 28°



### MT24R Radial

**Output Potential:** Up to 600+ TPH  
**Conveyor Length:** 74ft  
**Belt Width:** 1050mm  
**Max Discharge Height:** 10.9m @ 23°



### MT24L Orbital

**Output Potential:** Up to 600+ TPH  
**Conveyor Length:** 73.8ft  
**Belt Width:** 1300mm  
**Feeder:** 4.1m  
**Max Discharge Height:** 8m @ 18°



### MT24H Orbital

**Output Potential:** Up to 600+ TPH  
**Conveyor Length:** 73.8ft  
**Belt Width:** 1200mm  
**Feeder:** 4.1m  
**Max Discharge Height:** 10.7m @ 24°



### MT24H Organics

**Output Potential:** Up to 600+ TPH  
**Conveyor Length:** 73.8ft  
**Belt Width:** 1400mm  
**Feeder:** 4.1m  
**Max Discharge Height:** 9.8m @ 24°



### MT24H Organics Orbital

**Output Potential:** Up to 600+ TPH  
**Conveyor Length:** 73.5ft  
**Belt Width:** 1400mm  
**Feeder:** 4.1m  
**Max Discharge Height:** 10.7m @ 24°





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