

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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Scan the QR code and sign up to our newsletter

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

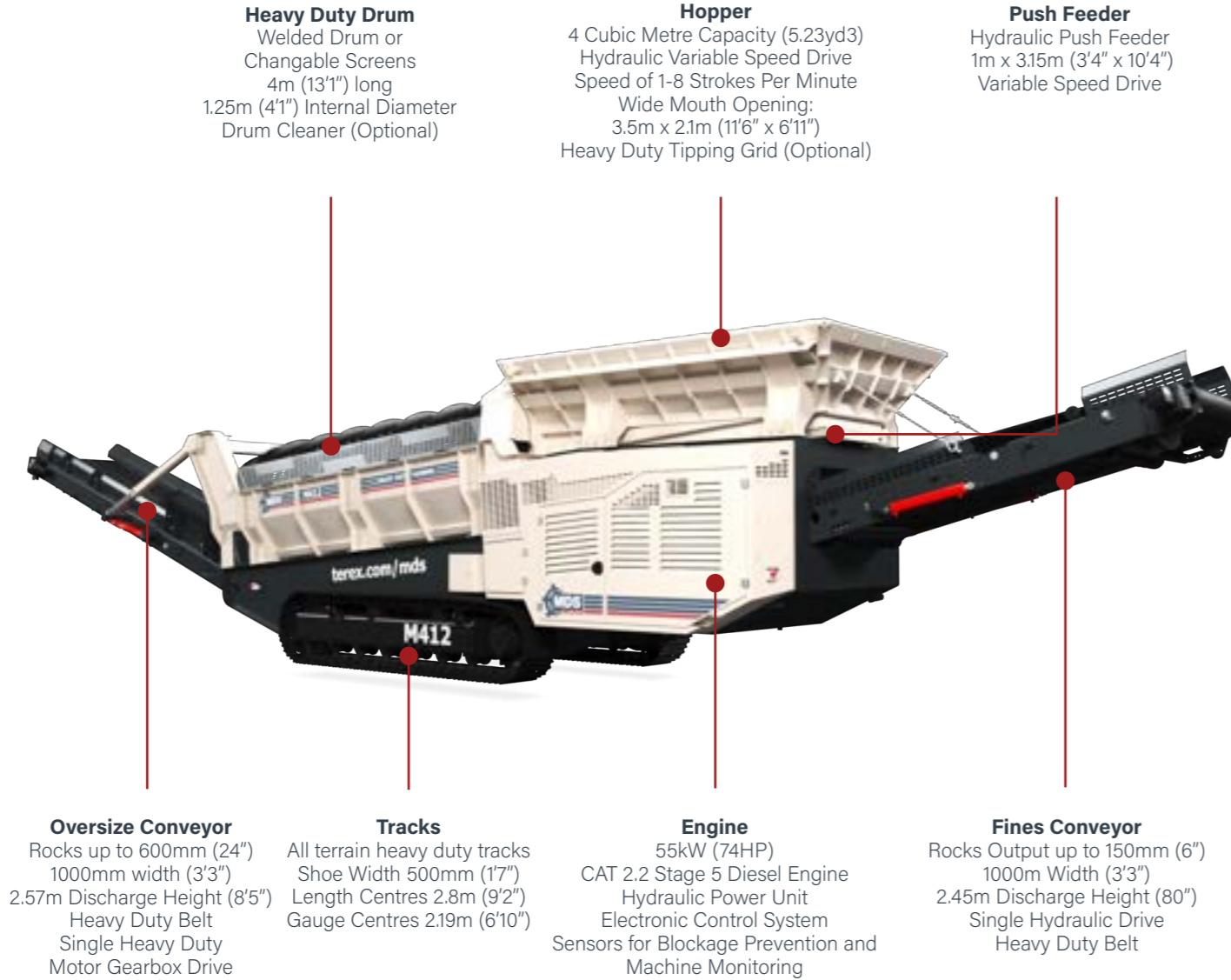
Oversize: 2,326mm (7ft 6")
Fines: 2,136mm (7ft)

Output

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

Options

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



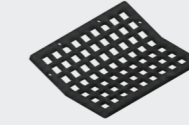
DRUMS & SCREENS

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.

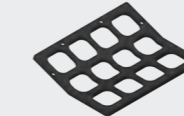
Drum cleaners only work with fully welded drums.

Fully Welded options are 75mm (3"), 100mm (4"), 125mm (5") and 150mm (6").

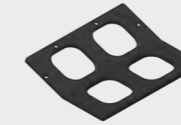
Drum frame with changeable screens is recommended for free-flowing or abrasive applications.



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

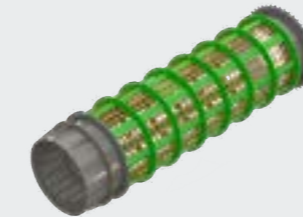


3" (75mm)
 4" (100mm)
 5" (125mm)

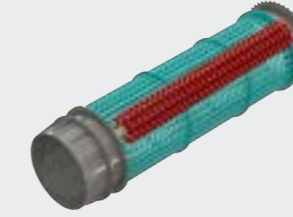


6" (150mm)

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

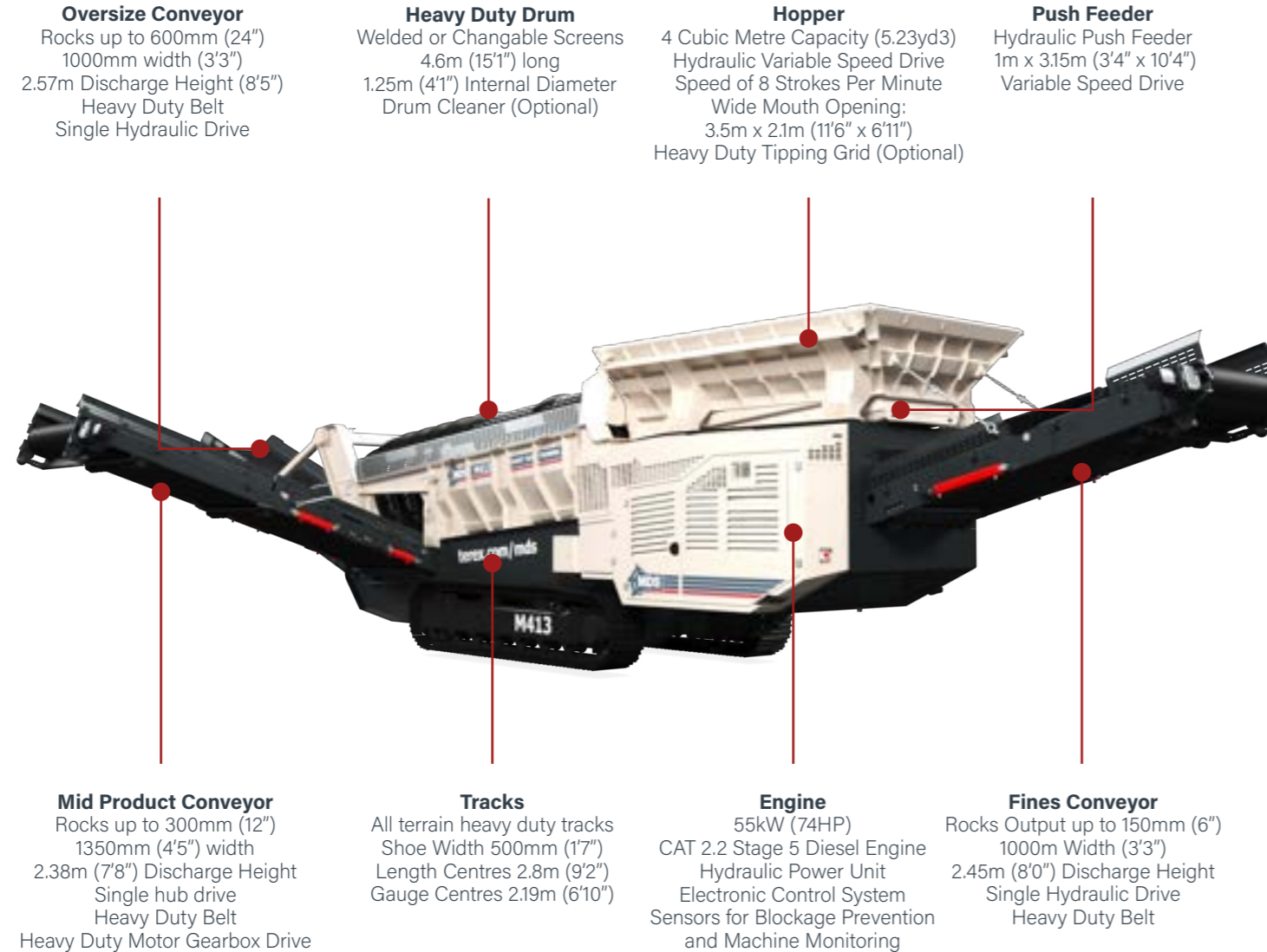
Oversize: 2,039mm (6ft 8")
Mid-Product: 1,986mm (6ft 6")
Fines: 1,993mm (6ft 6")

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

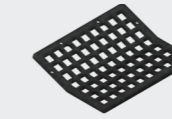
DRUMS & SCREENS

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.

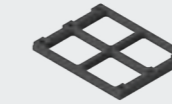
Drum cleaners only work with fully welded drums and in the fines section.

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)

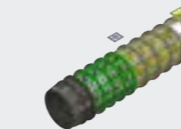


Mid Product
 3" (75mm)-12" (300mm)

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.

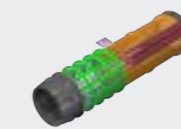
The exact configuration depends on the application and requirements of the customer.



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

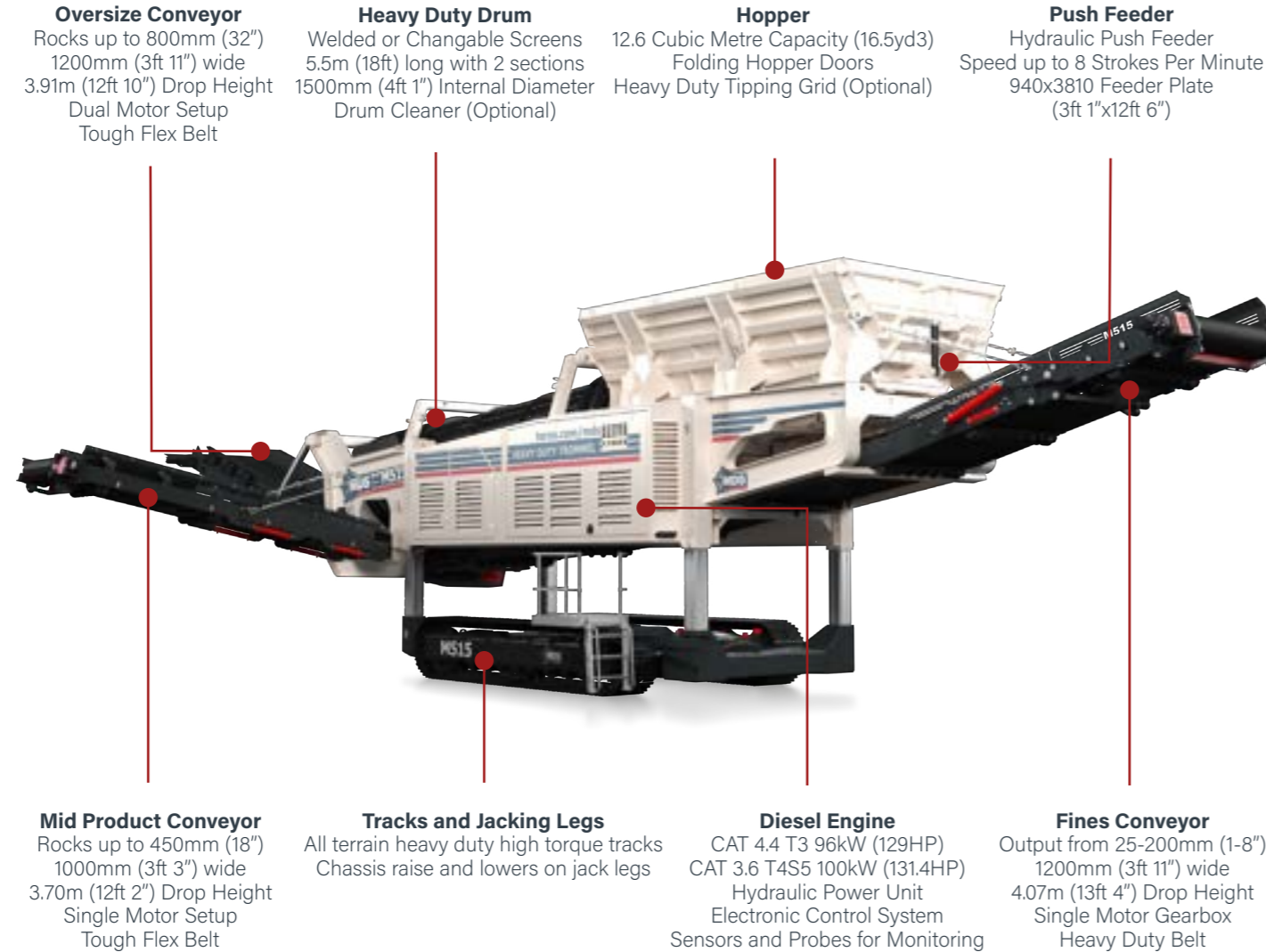
Fines: 4.07m (13ft 4")
Mid-Product: 3.6m (11ft 8")
Oversize: 3.7m (12ft 1") on oversize

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



Oversize Conveyor
 Rocks up to 800mm (32")
 1200mm (3ft 11") wide
 3.91m (12ft 10") Drop Height
 Dual Motor Setup
 Tough Flex Belt

Heavy Duty Drum
 Welded or Changable Screens
 5.5m (18ft) long with 2 sections
 1500mm (4ft 11") Internal Diameter
 Drum Cleaner (Optional)

Hopper
 12.6 Cubic Metre Capacity (16.5yd3)
 Folding Hopper Doors
 Heavy Duty Tipping Grid (Optional)

Push Feeder
 Hydraulic Push Feeder
 Speed up to 8 Strokes Per Minute
 940x3810 Feeder Plate
 (3ft 1"x12ft 6")

Mid Product Conveyor
 Rocks up to 450mm (18")
 1000mm (3ft 3") wide
 3.70m (12ft 2") Drop Height
 Single Motor Setup
 Tough Flex Belt

Tracks and Jacking Legs
 All terrain heavy duty high torque tracks
 Chassis raise and lowers on jack legs

Diesel Engine
 CAT 4.4 T3 96kW (129HP)
 CAT 3.6 T4S5 100kW (131.4HP)
 Hydraulic Power Unit
 Electronic Control System
 Sensors and Probes for Monitoring

Fines Conveyor
 Output from 25-200mm (1-8")
 1200mm (3ft 11") wide
 4.07m (13ft 4") Drop Height
 Single Motor Gearbox
 Heavy Duty Belt

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.



2 1/3"
(50/75mm)



2 1/3"
(50/75mm)



4"
(100mm)



5"
(125mm)



12" to 18"
(300mm to 450mm)



6"
(150mm)



8"
(200mm)



10"
(250mm)



12"
(300mm)

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")



Fines Drum Frame
for Screens



Fines Fully
Welded Drum



Fines 2.5m
Welded Drum



Mid Product
Frame for Screen



Mid Product
Fully Welded Drum



Standard Set Up -
Both Screens



MP Welded,
Fines Screens



MP Screens,
Fines Welded



Both Welded
Sections



Both Welded
Sections

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

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

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

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

Oversize Conveyor
 1200mm (3'11") Wide Chevron Belt
 Angle Adjustable 20-30 degrees
 Discharge Height 2900mm (9'5")

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

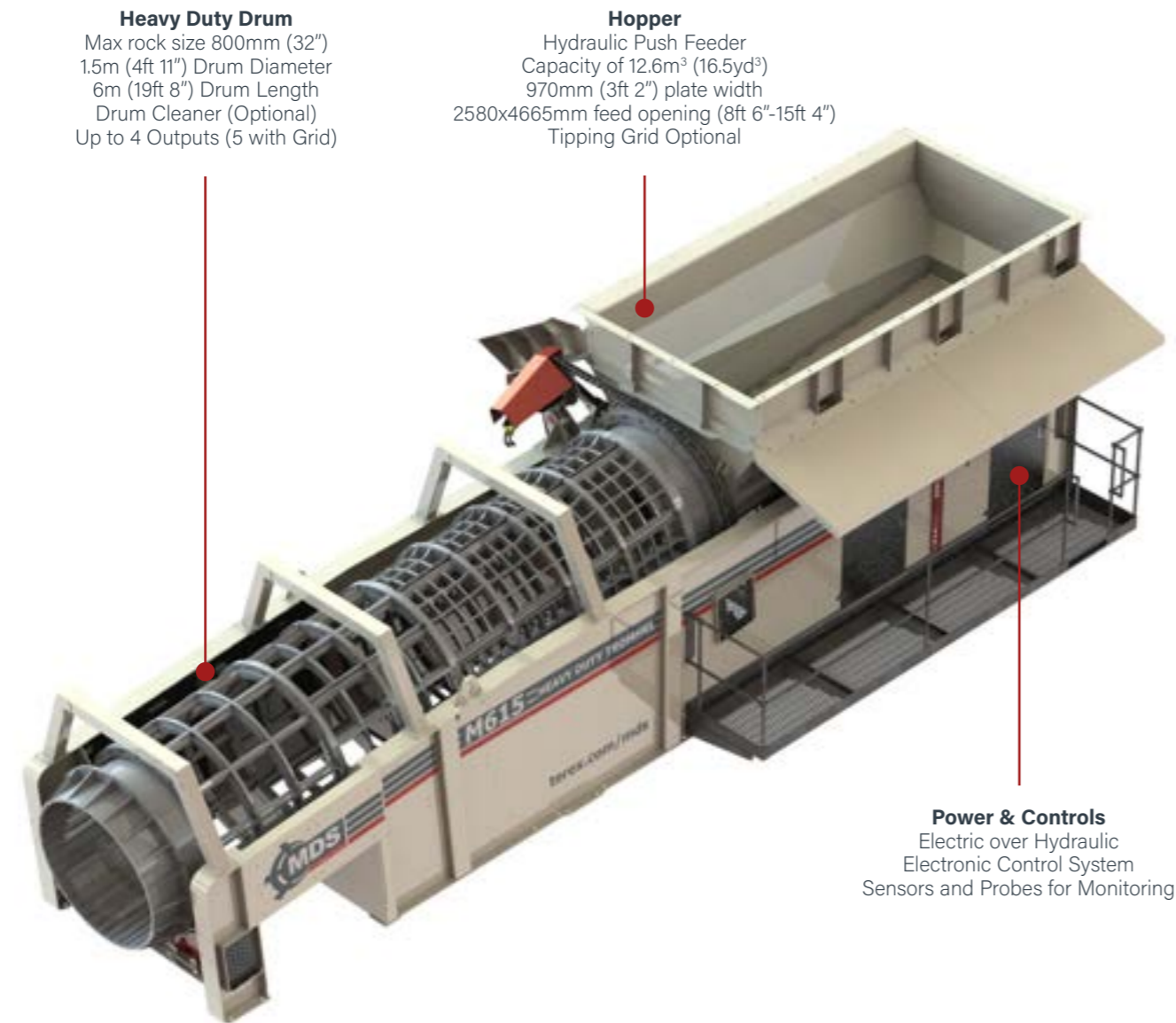
Length: 12.3m (40ft 5")
Width: 2.6m (8ft 5")
Height: 3.0m (9ft 11")
Weight: 30,780kg (67,858lbs)

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

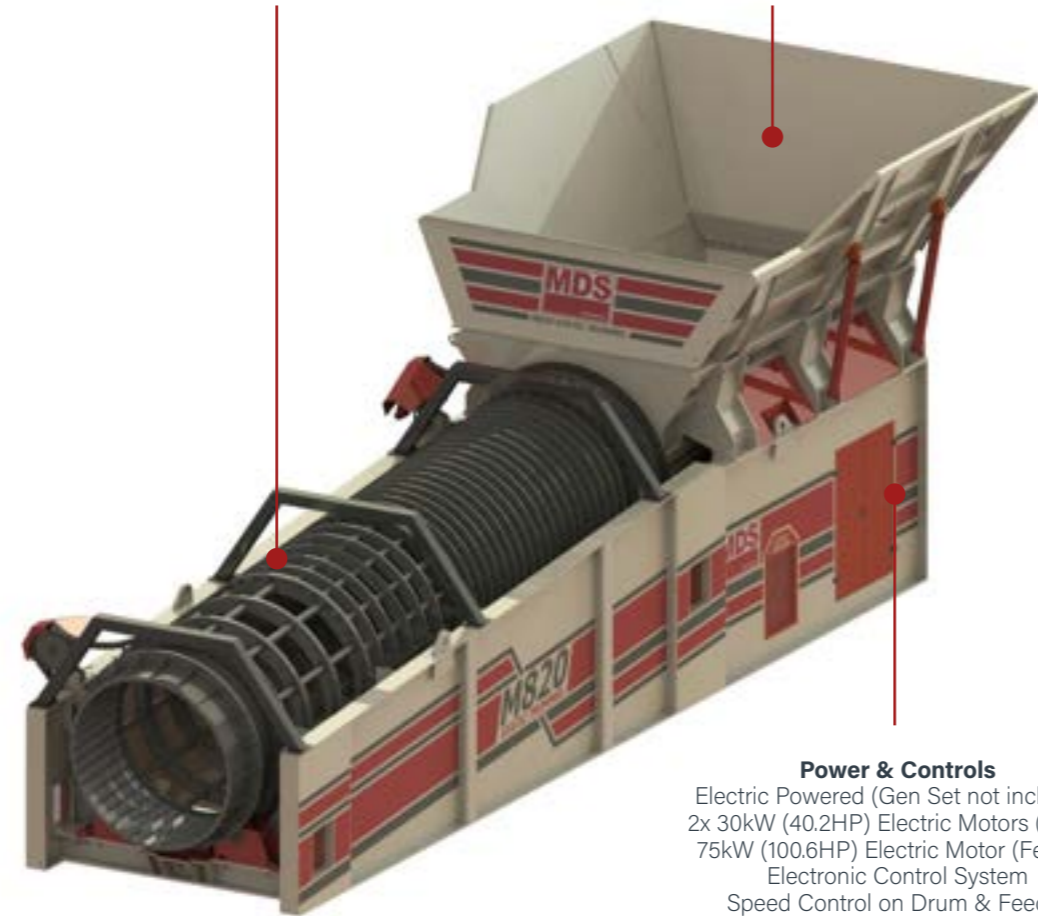
Extended High Capacity Hopper
Drum Cleaner Attachment

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 25m³ (32.7yd³)
Optional Extended Hopper of 70m³ (91.6yd³)
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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Scan to see our
machines in action

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