

PRODUCT OVERVIEW

**SPECIALISTS IN
SCREENING TECHNOLOGY**



**BUILT FOR THE
TOUGHEST TASKS**

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 32" (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
- 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
- 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

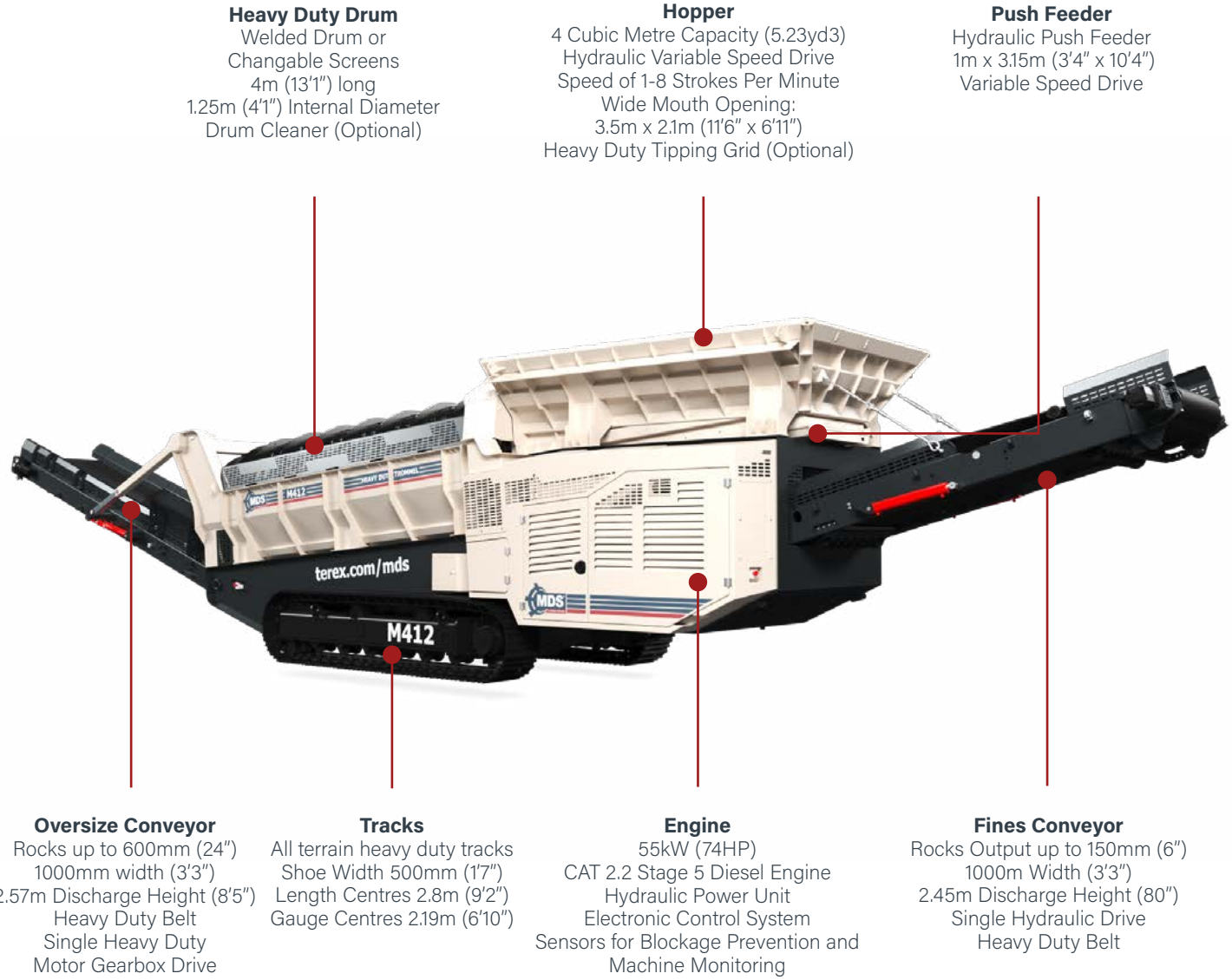
Override: 2,326mm (7ft 6")
Fines: 2,136mm (7ft)

Output

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

Options

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



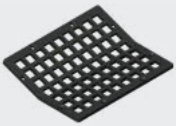
DRUMS & SCREENS

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").

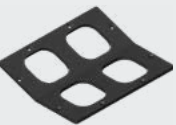
Drum frame with changeable screens is recommended for free-flowing or abrasive applications.



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

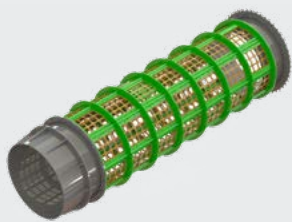


3" (75mm)
4" (100mm)
5" (125mm)



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: 3,100m (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 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

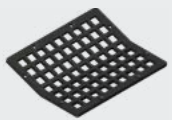
DRUMS & SCREENS

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.

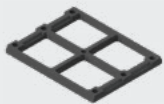
Drum cleaners only work with fully welded drums and in the fines section.

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)

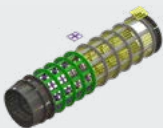


Mid Product
3" (75mm)-12" (300mm)

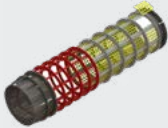
MDS M413 Trommels are made up of a drum with a 2.9m Fines section and 1.7m Mid Product Section.

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.

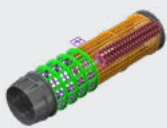
The exact configuration depends on the application and requirements of the customer.



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 (11 ft 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 1") 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)



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 radio fines conveyor, offering huge stockpiling capacities.

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

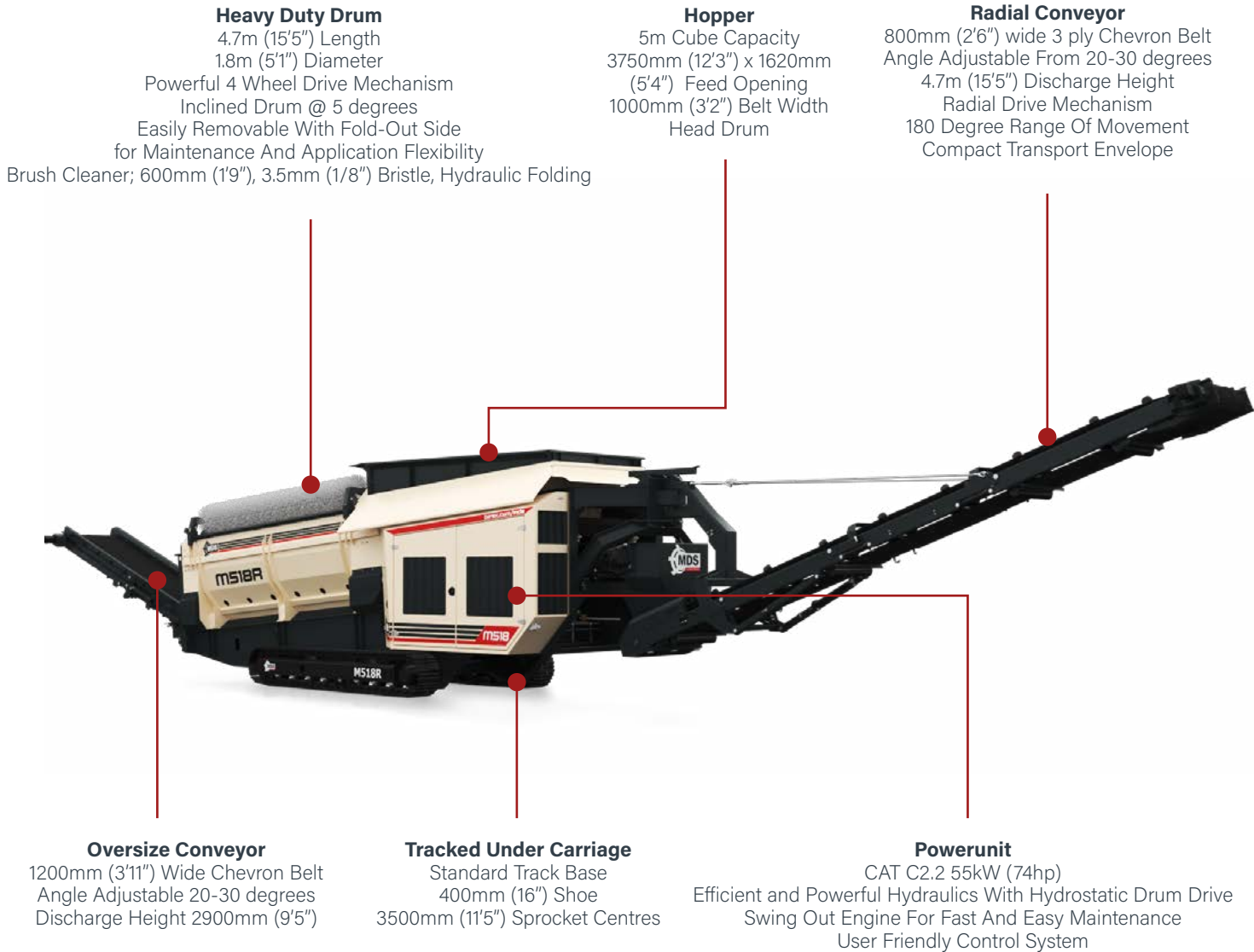
The 180 degree swivel fines conveyor with up to 4.7m discharge height makes the M518R the best in its class when it comes to stockpiles capacity. The conveyor swivel can be controlled from the remote control when the machine is operating, thus avoiding any downtime.

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



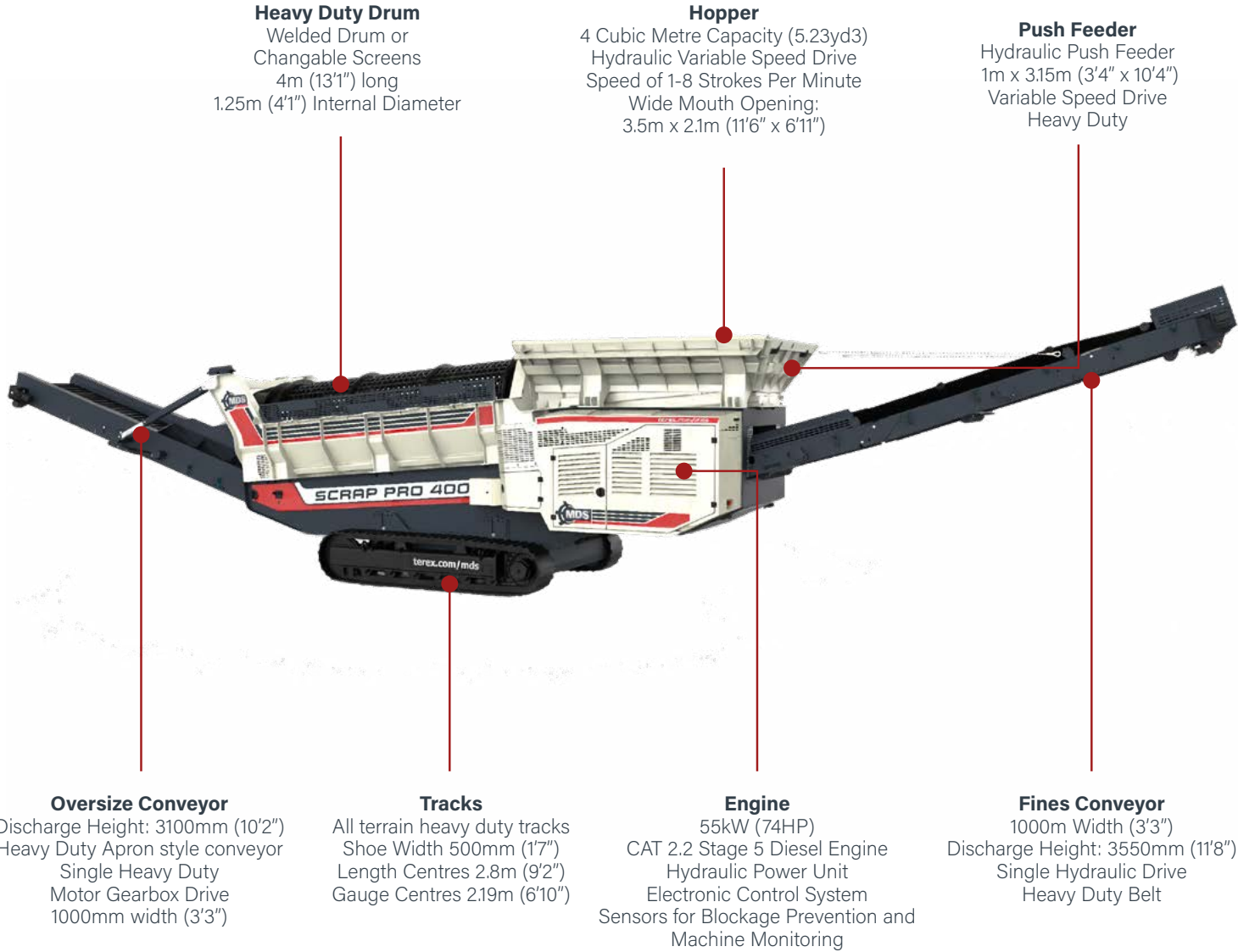
SCRAP PRO 400

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: 100m³ (108.6yd³)

Collection conveyor

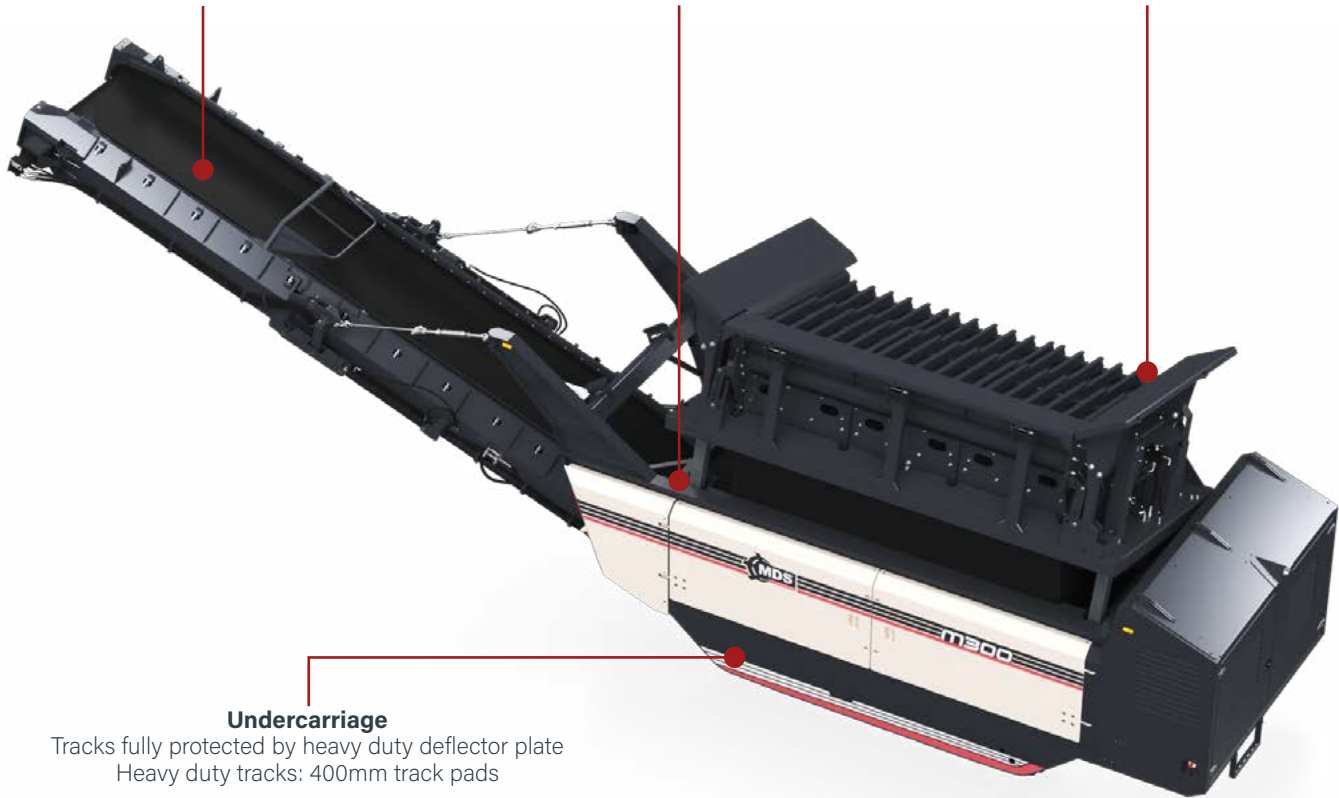
Belt width: 1400mm (48")
Variable speed hydraulic drive

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

Undercarriage

Tracks fully protected by heavy duty deflector plate
Heavy duty tracks: 400mm track pads



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

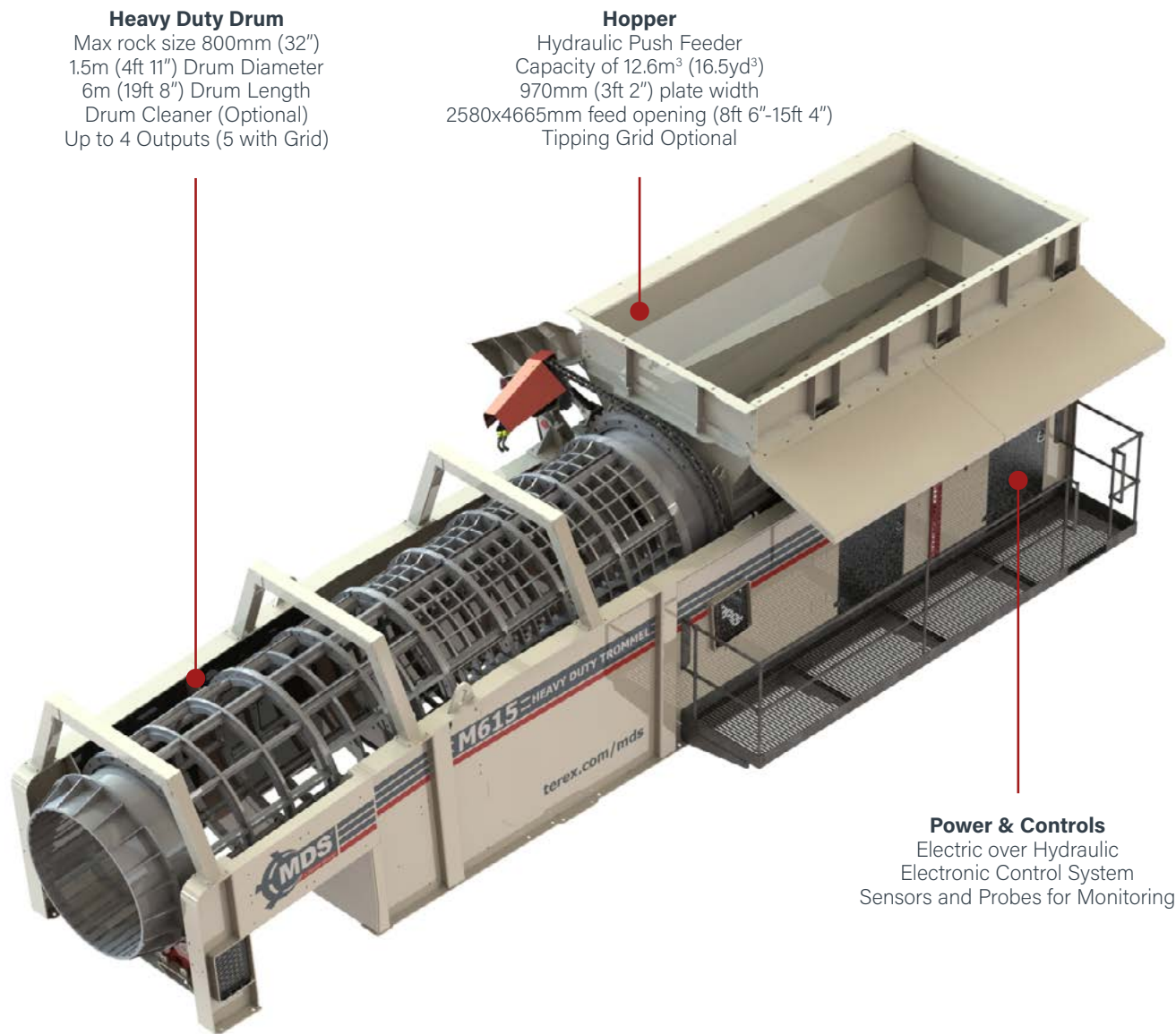
Length: 12.3m (40ft 5")
Width: 2.6m (8ft 5")
Height: 3.0m (9ft 11")
Weight: 30,780kg (67,858lbs)

Walkways

Standard Galvanised Walkway

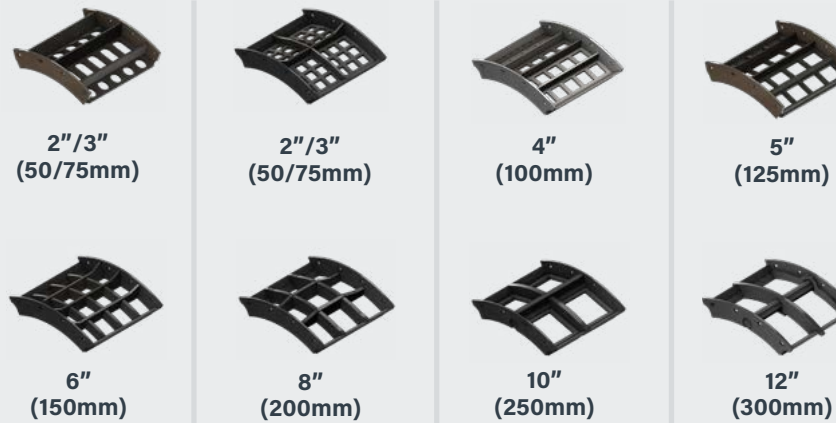
Output

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

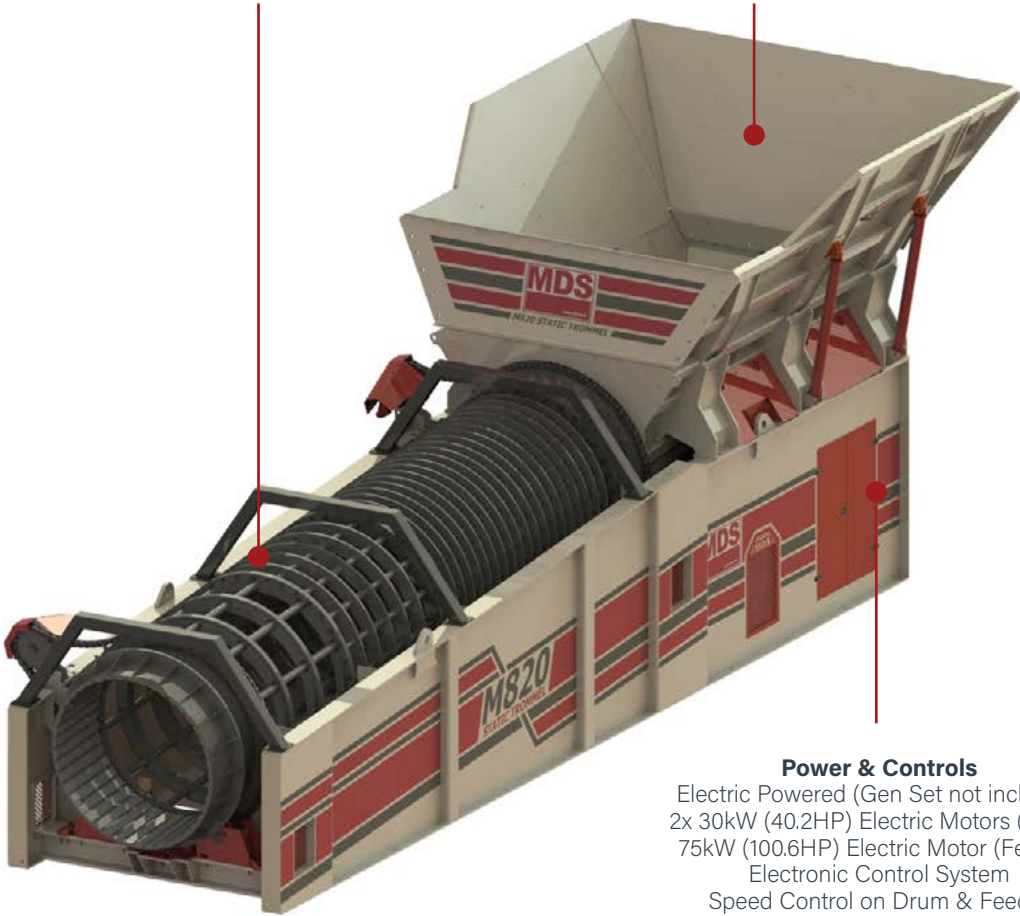
Extended High Capacity Hopper
Drum Cleaner Attachment

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







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machines in action

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