



Product Overview





Our Story

MDS is an Irish manufacturing company specialising in equipment for aggregate handling, quarry, mining, construction and recycling sectors. We have over 25 years of experience in producing our own brand of heavy-duty rock trommels. MDS is widely known for our heavy duty track trommels. There is a range of models available in our product range to 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 steel waste and incinerated bottom ash (IBA).

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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 screeners out there. We are also the leading manufacturer of tracked trommels and offer a niche product.

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 and Recycling sectors.



QUARRY

- BLASTED ROCKS
- RIP-RAP/ARMOUR ROCK
- GABION STONE
- OVERBURDEN
- PRE-CRUSHING
- PRE-SCREENING

MINING

- GRANITE
- BASALT
- IRON ORE
- COPPER ORE
- NICKEL ORE

CONSTRUCTION

- RUBBLE RECOVERY
- DEMOLITION WASTE
- PRIMARY PROCESSING

RECYCLING

- COMPOST
- TOP-SOIL
- WOODWASTE

OTHER

- GENERAL WASTE
- IBA
- METAL WASTE

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: 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: 300 Tonnes per hour (330 US Tons PH)

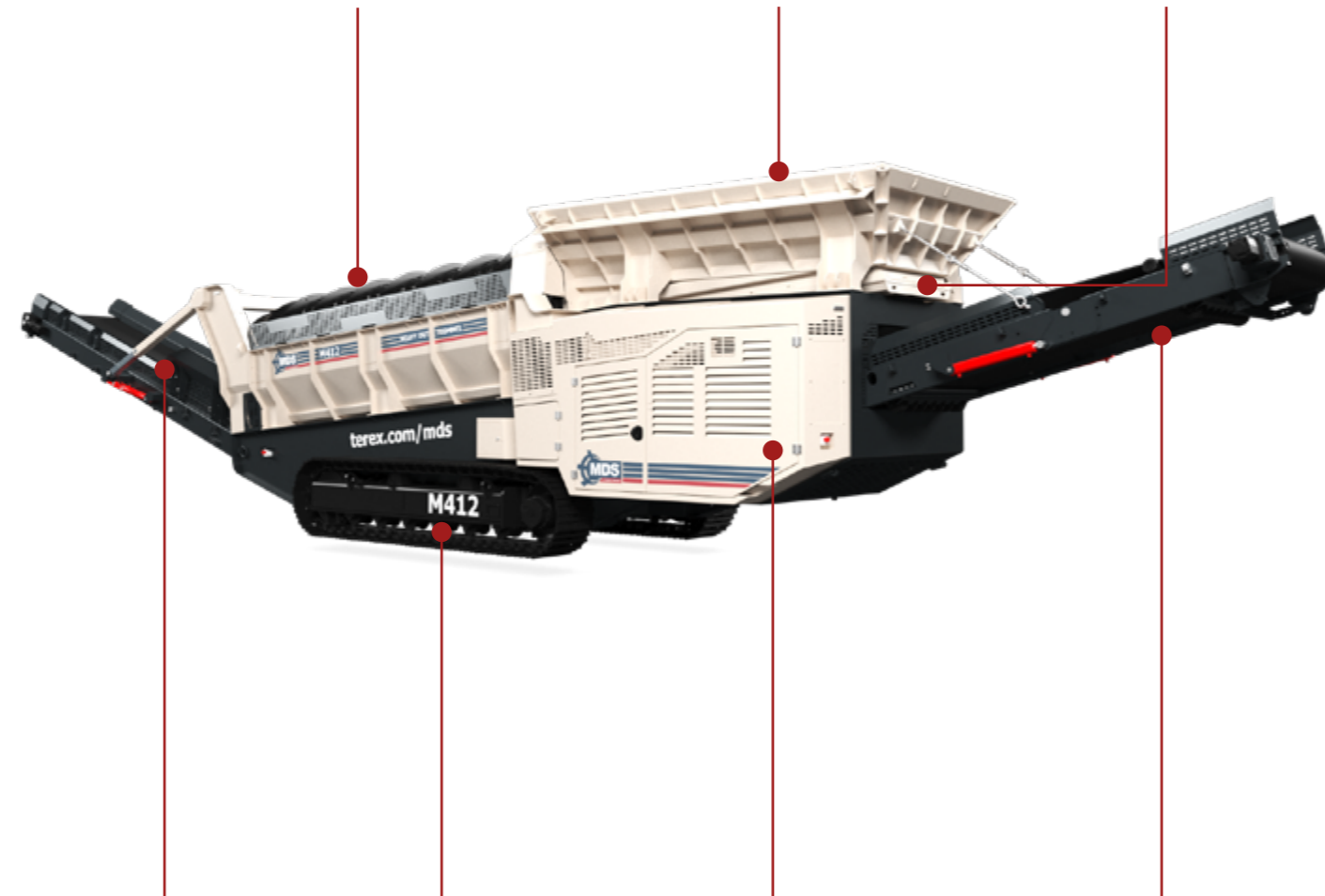
OPTIONS

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

Heavy Duty Drum
 Welded Drum or
 Changable Screens
 4m (13ft 1") long
 1250mm (4ft 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:
 3508x21097 (11'6" x 6'11")
 Heavy Duty Tipping Grid (Optional)

Push Feeder
 Hydraulic Push Feeder
 1018x3150 (3ft 4" x10ft 4")
 Variable Speed Drive



Oversize Conveyor
 Rocks up to 600mm (24")
 1000mm width (3ft 3")
 2.03m Output Height (6ft 8")
 Heavy Duty Belt
 Single Hub Hydraulic Drive

Tracks
 All terrain heavy duty tracks

Engine
 55kW (73.7HP)
 CAT 2.2 T4 Stage 5 Diesel Engine
 Hydraulic Power Unit
 Electronic Control System
 Sensors and Probes for Monitoring

Fines Conveyor
 Rocks Output up 150mm (6")
 1000m Width (3ft 3")
 1.99m Output Height (6ft 6")
 Single Hub Hydraulic Drive
 Heavy Duty Belt

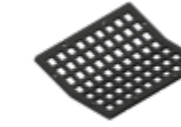
Drums & Screens

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.



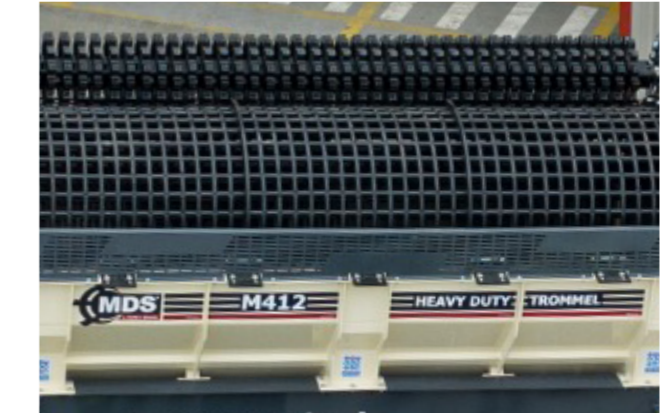
1" (25mm)
 1.5" (38mm)
 2" (50mm)



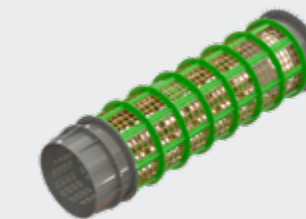
3" (75mm)
 4" (100mm)
 5" (125mm)



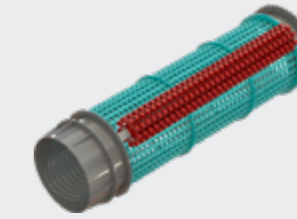
6" (150mm)



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



MDS M413

The M413 Track Trommel is ideal for screening light material to recycling demolition waste. This machine can also operate in the quarry, cleaning dirty material up to 600mm (24") in size. It comes complete with three fold out stock piling conveyors. It is compact in design and is easy to transport thus is ideal for moving around the quarry.

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")
 OVERSIZE: 1,986mm (6ft 6")
 FINES: 1,993mm (6ft 6")

OUTPUT

CAPACITY: 300 Tonnes per hour (330 US Tons PH)

OPTIONS

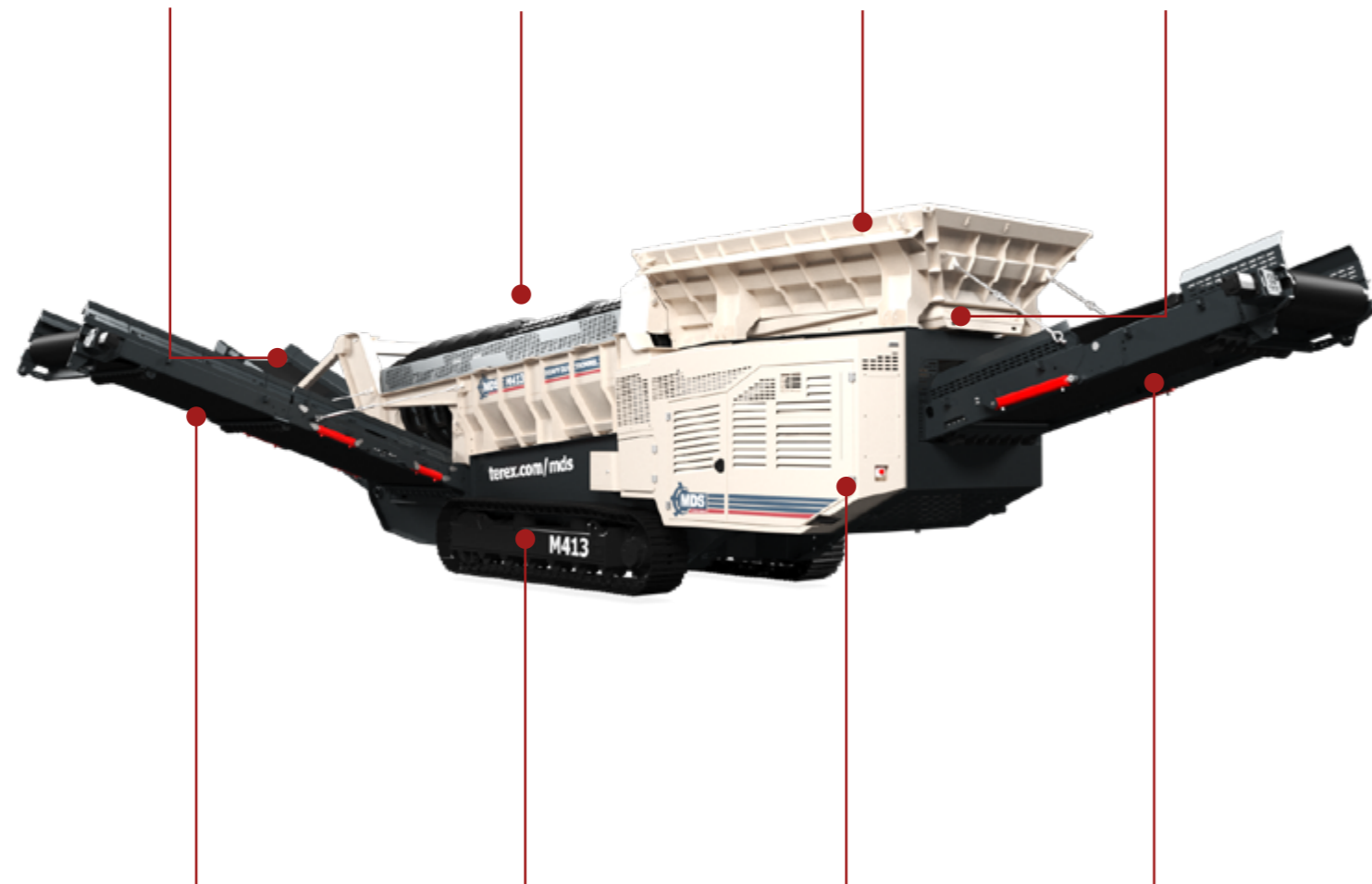
Drum Cleaner, Tipping Grid, Chasis Riser, Hopper Deflectors & Hopper Doors

Oversize Conveyor
 Rocks up to 600mm (24")
 1000mm width (3ft 3")
 2.03m Output Height (6ft 8")
 Heavy Duty Belt
 Single Hub Hydraulic Drive

Heavy Duty Drum
 Welded or Changable Screens
 4.6m (15ft 1") long
 1250mm (4ft 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:
 3508x21097 (11'6" x 6'11")
 Heavy Duty Tipping Grid (Optional)

Push Feeder
 Hydraulic Push Feeder
 1018x3150 (3ft 4" x10ft 4")
 Variable Speed Drive



Mid Product Conveyor
 Rocks up to 300mm (12")
 1350mm (4ft 5") width
 1.97m (6ft 6") output height
 Single hub drive
 Heavy duty belt

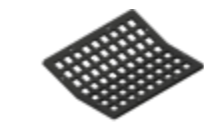
Tracks
 All terrain heavy duty tracks

Engine
 55kW (73.7HP)
 CAT 2.2 T4 Stage 5 Diesel Engine
 Hydraulic Power Unit
 Electronic Control System
 Sensors and Probes for Monitoring

Fines Conveyor
 Rocks Output up 150mm (6")
 1000m Width (3ft 3")
 1.99m Output Height (6ft 6")
 Single Hub 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.



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



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



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

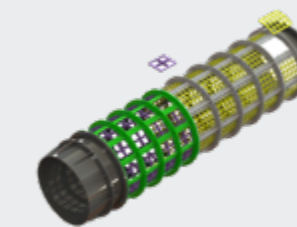
Fully Welded options are 75mm (3"), 100mm (4"), 125mm (5") and 150mm (6").

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

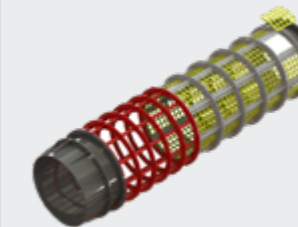
MDS M413 Trommels are made up of a drum with a 2.9m Fines section and 1.7m Mid Product Section.

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.

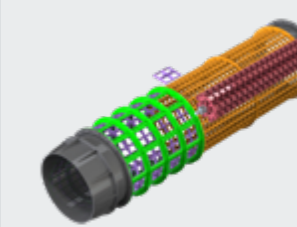
The exact configuration depends on the application and requirements of the customer.



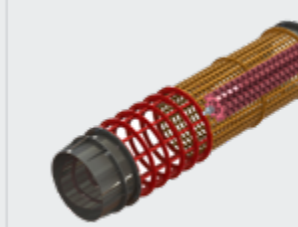
Standard Set Up - Both Screens



MP Welded, Fines Screens



MP Screens, Fines Welded



Both Welded Sections



MDS M515

The M515 Track Trommel is perfect for cleaning dirty material and can handle rocks up to 800mm (32") in size. It comes complete with fold out stockpiling conveyors and is ideal for moving around the quarry and from one site to the next.

TRANSPORT DIMENSIONS

LENGTH: 17.3m (56ft 8")
 WIDTH: 3.0m (9ft 9")
 HEIGHT: 3.6m (11ft 9") | 4.3m (14ft 1") w/Grid
 WEIGHT: 52,800kg (116,405lbs)

DISCHARGE HEIGHTS

FINES: 4.07m (13ft 4")
 MID-PRODUCT: 3.70m (12ft 2")
 OVERSIZE: 3.91m (12ft 10")

OUTPUT

CAPACITY: 350-500 Tonnes per hour
 (385-550 US Tons PH)

OPTIONS

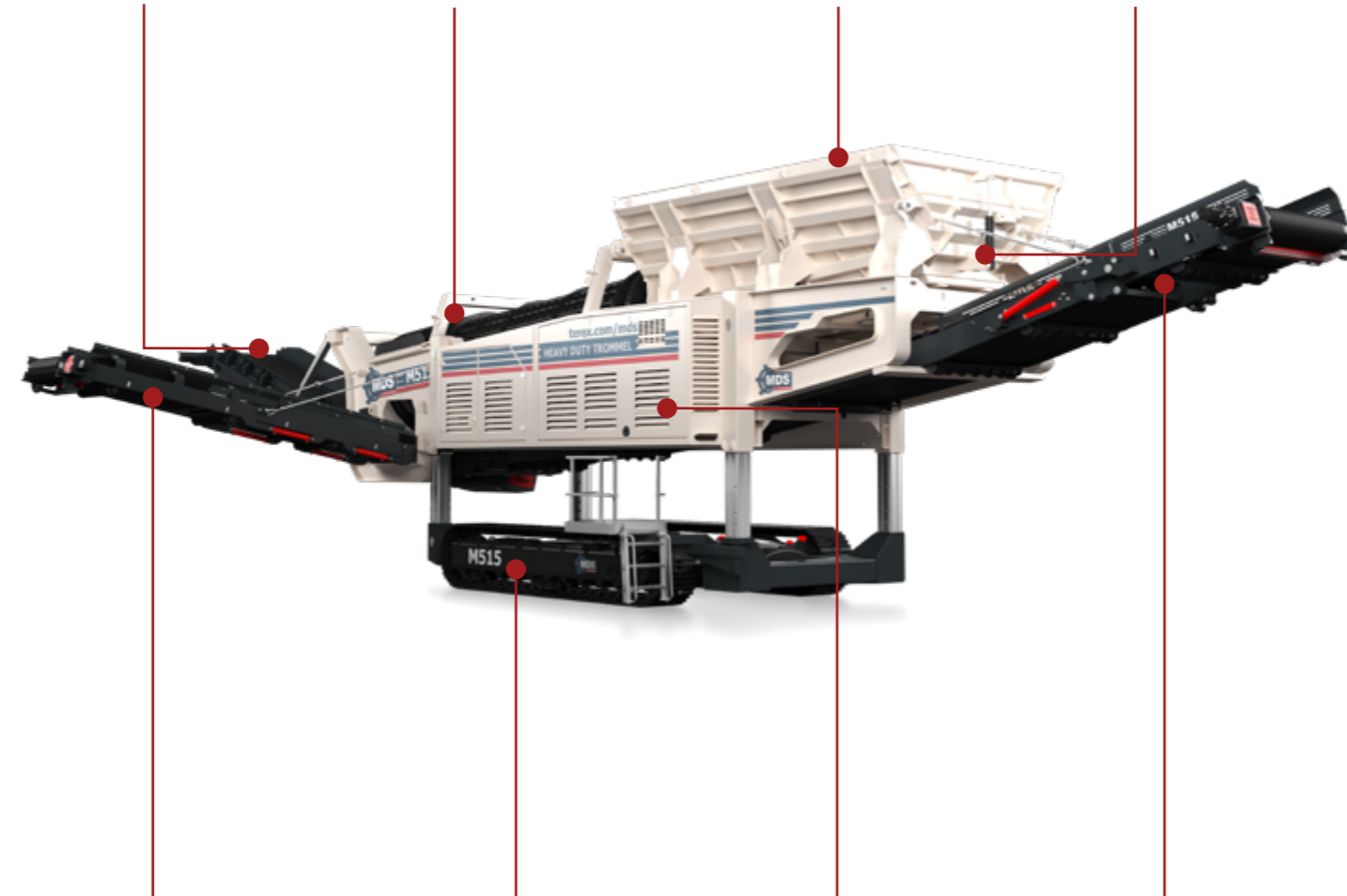
Drum Cleaner, Tipping Grid, AutoLube
 Additional Conveyor Guarding,
 Wireless Remote

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
 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 2/3"
(50/75mm)



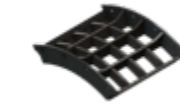
2 2/3"
(50/75mm)



4"
(100mm)



5"
(125mm)



6"
(150mm)



8"
(200mm)



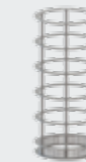
10"
(250mm)



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.

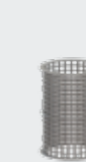
Fully welded drum on the fines section is needed if installing a drum cleaner. For sizes bigger than 300mm (12"), fully welded drum is needed in Mid Product (Max drum size 425mm/16.5")



Fines Drum Frame
for Screens



Fines Fully
Welded Drum



Fines 2.5m
Welded Drum



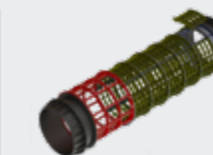
Mid Product
Frame for Screen



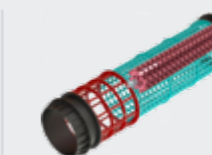
Mid Product
Fully Welded Drum



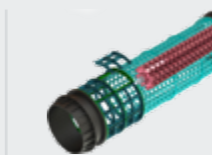
Standard Set Up -
Both Screens



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 and has several options that are quickly interchangeable. It can be fitted with 4 different styles of drums (5m long, 1.8m diameter). The main unit is design on tracks for easy mobility and a transport height just under 3170mm (10' 5").

TRANSPORT DIMENSIONS

LENGTH: 10,374mm (34ft)
 WIDTH: 2,500mm (8ft 2")
 HEIGHT: 3,180mm (10ft 4")
 WEIGHT: 17.9 tonnes (19.73 US Tons/ 39,463lbs)

OUTPUT

CAPACITY: Dependent on Application

Heavy Duty Drum
 1.8m (5ft 11") Diameter
 5m (16ft 5") Length
 Available with Brush Cleaner
 Attachment as standard
 Drum Roll Out for Easy Change

Hopper
 50m³ (6.54yd³) Capacity Hopper
 Heavy Duty US Flex Belt Conveyor
 Feed Opening: 3740x1954mm (12ft 3"x 6ft 5")
 920mm (3ft) Belt Width
 Tipping Grid Option Available



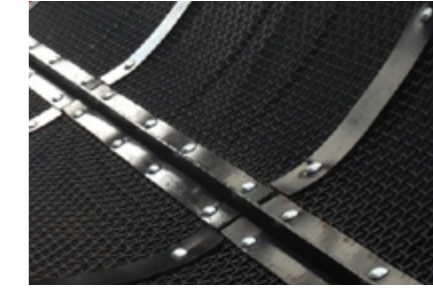
Track Base
 Standard Track Base
 Lower Transport Height
 Easy to Move Around Site

Engine
 CAT 2.2 50kW (67HP) Tier 4 Diesel
 Hydraulic Power Unit
 Electronic Control System
 Sensors and Probes for Monitoring

Drum Types



Square Punch Plate
 5mm to 100mm (13/64"-4") Openings



Wired Mesh
 1mm to 20mm (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

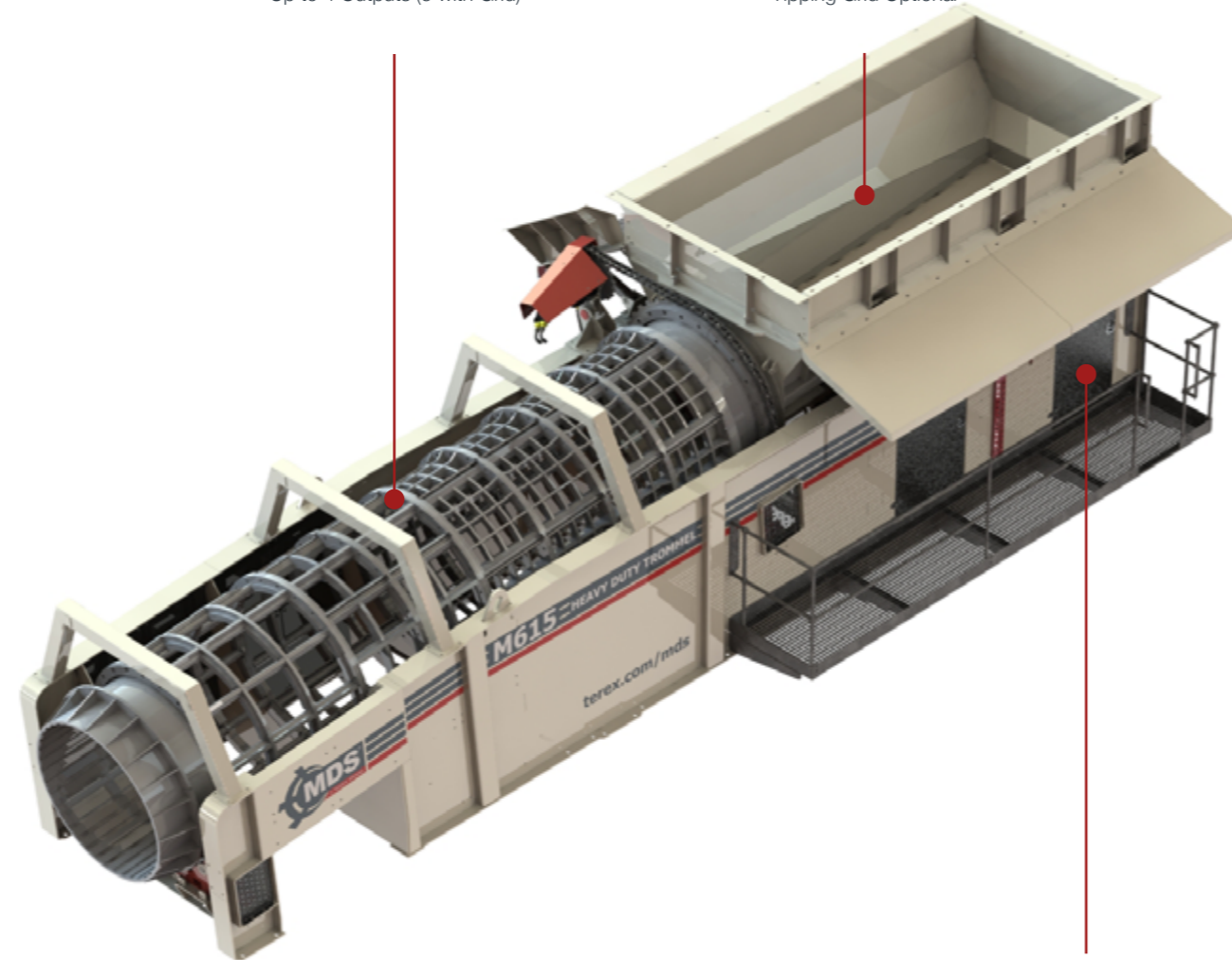
CAPACITY: 500 Tonnes per hour
 (550 US Tons PH)

Heavy Duty Drum

Max rock size 800mm (32")
 1.5m (4ft 11") Drum Diameter
 6m (19ft 8") Drum Length
 Drum Cleaner (Optional)
 Up to 4 Outputs (5 with Grid)

Hopper

Hydraulic Push Feeder
 Capacity of 12.6m³ (16.5yd³)
 970mm (3ft 2") plate width
 2580x4665mm feed opening (8ft 6"-15ft 4")
 Tipping Grid Optional



Power & Controls
 Electric over Hydraulic
 Electronic Control System
 Sensors and Probes for Monitoring

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.



2 2/3"
(50/75mm)



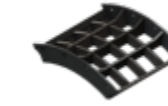
2 2/3"
(50/75mm)



4"
(100mm)



5"
(125mm)



6"
(150mm)



8"
(200mm)



10"
(250mm)



12"
(300mm)



MDS M820

The M820 is the largest track trommel in the world. It is a heavy duty rock trommel, capable of screening rocks up to 1m (40") in size at approximately 750 tons per hour. It is ideal for use in cleaning dirty rock or screening blasted material. With three possible configurations, our modular trommel covers many applications. The M820 comes with 3 or 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

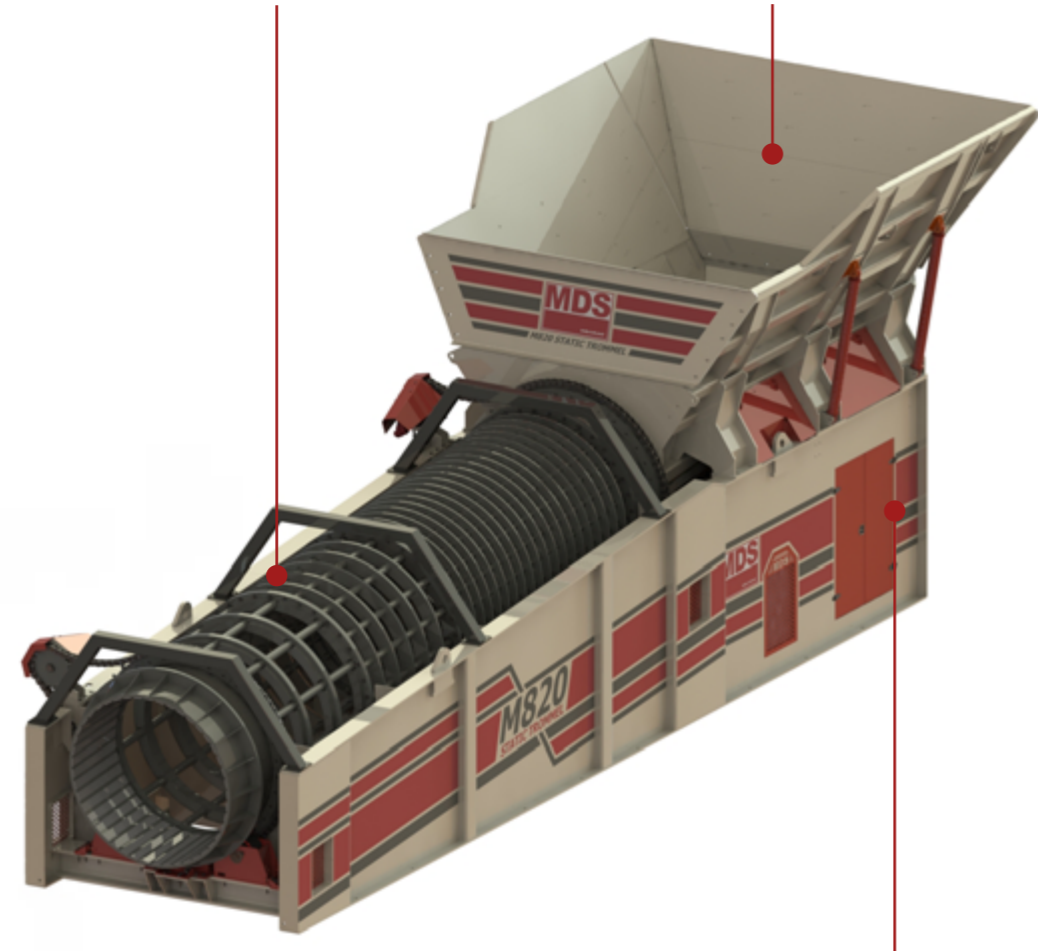
Extended High Capacity Hopper
 Drum Cleaner Attachment

OUTPUT

CAPACITY: 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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