

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 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, amour 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
- BasaltIron 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

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, Chasis Riser, Hopper Deflectors & Hopper Doors

Heavy Duty Drum

Welded Drum or Changable Screens 4m (13'1") long 1.25m (4'1") Internal Diameter Drum Cleaner (Optional)

All terrain heavy duty tracks

Shoe Width 500mm (1'7")

Gauge Centres 2.19m (6'10")

Length Centres 2.8m (9'2")

Rocks up to 600mm (24")

1000mm width (3'3")

2.57m Discharge Height (8'5")

Heavy Duty Belt

Single Heavy Duty

Motor Gearbox Drive

Hopper

4 Cubic Metre Capacity (5.23yd3)
Hydraulic Variable Speed Drive
Speed of 1-8 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

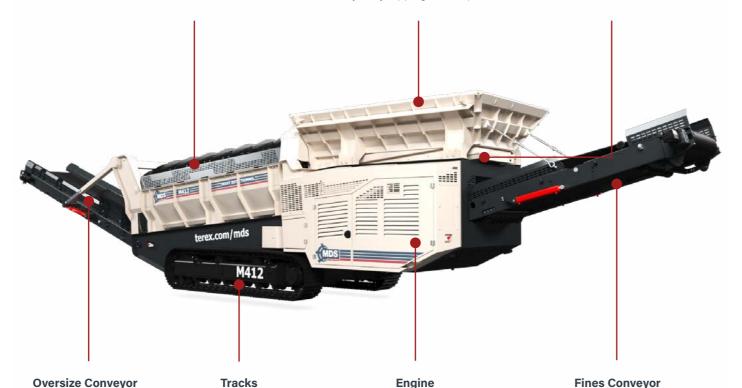
Rocks Output up to 150mm (6")

1000m Width (3'3")

2.45m Discharge Height (80")

Single Hydraulic Drive

Heavy Duty Belt



55kW (74HP)

CAT 2.2 Stage 5 Diesel Engine

Hydraulic Power Unit

Electronic Control System

Sensors for Blockage Prevention and

Machine Monitoring

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)



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



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 WeldedFull 4m welded drum
Set up for dirty material

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 -M412-EMY DUT! WELL

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)

Heavy Duty Tipping Grid (Optional)

4 Cubic Metre Capacity (5.23yd3) Hydraulic Push Feeder 1m x 3.15m (3'4" x 10'4") Hydraulic Variable Speed Drive Speed of 8 Strokes Per Minute Variable Speed Drive Wide Mouth Opening: 3.5m x 2.1m (11'6" x 6'11")

Push Feeder

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")

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.



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



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.



Both Screens



Fines Screens



MP Screens, **Fines Welded**





Both Welded Sections

DID Y U KNOW

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



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 Dual Motor Setup Tough Flex Belt

Heavy Duty Drum

5.5m (18ft) long with 2 sections Drum Cleaner (Optional)

Welded or Changable Screens 12.6 Cubic Metre Capacity (16.5yd3) Folding Hopper Doors 3.91m (12ft 10") Drop Height 1500mm (4ft 1") Internal Diameter 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) Hvdraulic 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.







(200mm)



2"/3" (50/75mm)



(250mm)



(125mm)



(300mm to 450mm)



(150mm)





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

Standard Set Up

Both Screens



MP Welded,

Fines Screens

Fines Fully Welded Drum



Fines 2.5m **Welded Drum**



Mid Product Frame for Screen



Fully Welded Drum





MP Screens, **Fines Welded**



Sections



Both Welded Sections

MDS°

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 Reversable Fan and Punch Plate Mesh Drum

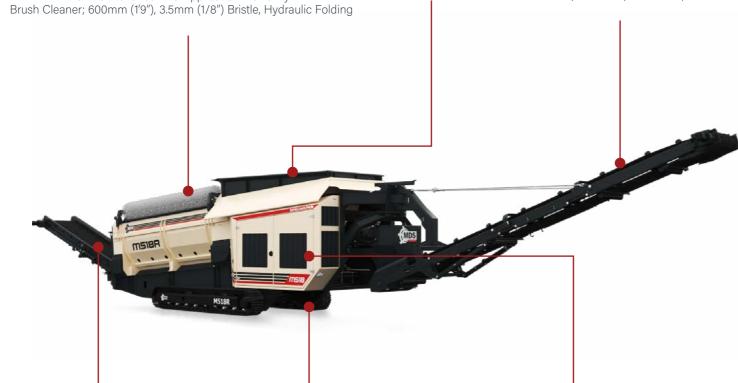
Heavy Duty Drum

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



Oversize Conveyor

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

Tracked Under Carriage

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

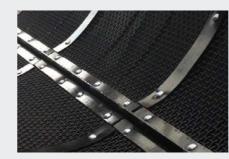
Powerunit

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

DRUMS TYPES



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



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



MDS

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)

Hopper 4 Cubic Metre Capacity (5.23yd3) **Heavy Duty Drum Push Feeder** Welded Drum or Hydraulic Push Feeder Changable Screens Hydraulic Variable Speed Drive 1m x 3.15m (3'4" x 10'4") 4m (13'1") long Speed of 1-8 Strokes Per Minute Variable Speed Drive 1.25m (4'1") Internal Diameter Wide Mouth Opening: Heavy Duty 3.5m x 2.1m (11'6" x 6'11") **Oversize Conveyor** Tracks Engine **Fines Conveyor**

Discharge Height: 3100mm (10'2") Heavy Duty Apron style conveyor Single Heavy Duty Motor Gearbox Drive 1000mm width (3'3") All terrain heavy duty tracks
Shoe Width 500mm (1'7")
Length Centres 2.8m (9'2")
Gauge Centres 2.19m (6'10")

55kW (74HP)
CAT 2.2 Stage 5 Diesel Engine
Hydraulic Power Unit
Electronic Control System
Sensors for Blockage Prevention and
Machine Monitoring

1000m Width (3'3") Discharge Height: 3550mm (11'8") Single Hydraulic Drive Heavy Duty Belt



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.

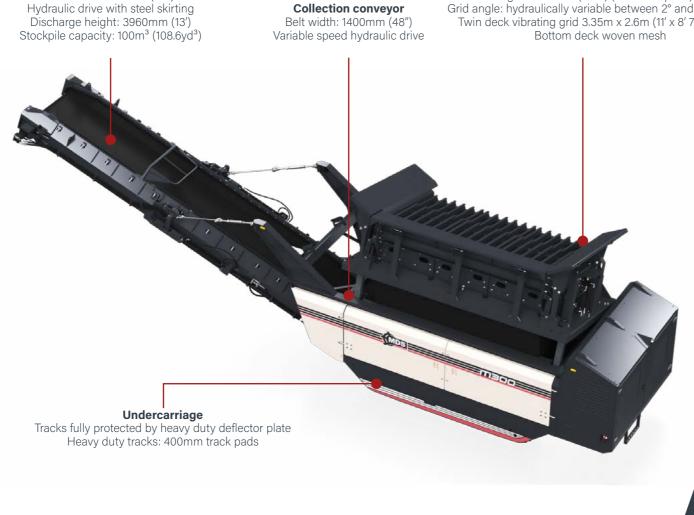
Engineered for efficiency and ease of use, the M300 offers fully hydraulic setup for quick transitions without extra equipment. Its heavy-duty double-deck grid, featuring a T-Bar cassette top deck and mesh bottom deck, ensures precise and aggressive scalping. The 1400mm conveyor belt with variable speed 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)

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



DISCHARGE CONVEYOR

Belt width: 1400mm (48") Hydraulic drive with steel skirting



MDS

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

Heavy Duty Drum Max rock size 800mm (32") Hydraulic Push Feeder Capacity of 12.6m³ (16.5yd³) 1.5m (4ft 11") Drum Diameter 970mm (3ft 2") plate width 2580x4665mm feed opening (8ft 6"-15ft 4") Tipping Grid Optional 6m (19ft 8") Drum Length Drum Cleaner (Optional) Up to 4 Outputs (5 with Grid)

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"/3" (50/75mm)



(150mm)

Power & Controls

Electric over Hydraulic Electronic Control System

Sensors and Probes for Monitoring



(50/75mm)



(200mm)



(100mm)



(250mm)







5" (125mm)





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

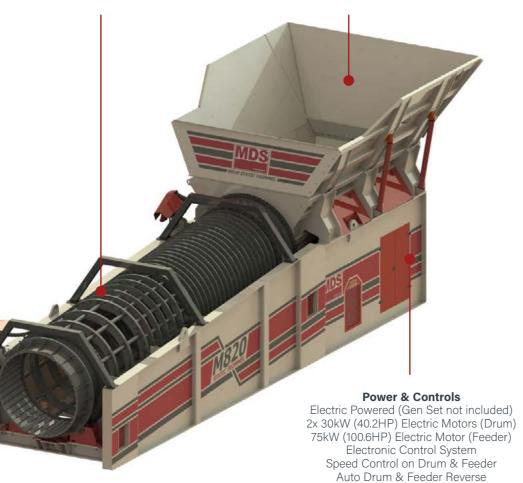
Output

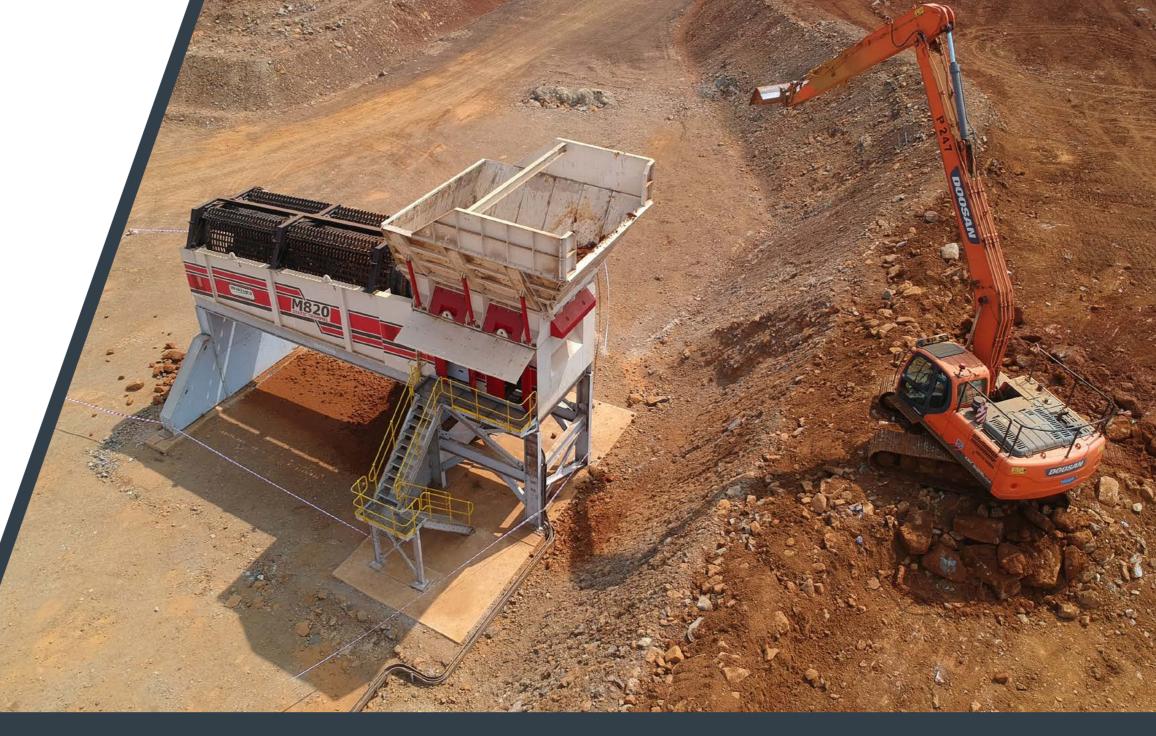
Capacity: Up to 720 Tonnes per hour (826 US Tons PH)

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)





MDS

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.



Scan the QR code to learn more



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°









Scan to see our machines in action

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