



# 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 deigns 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).

M412 Track Trommel	_____	00
M413 Track Trommel	_____	00
M515 Track Trommel	_____	00
M518 Recycling Trommel	_____	00
M720R Recycling Trommel	_____	00



# 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

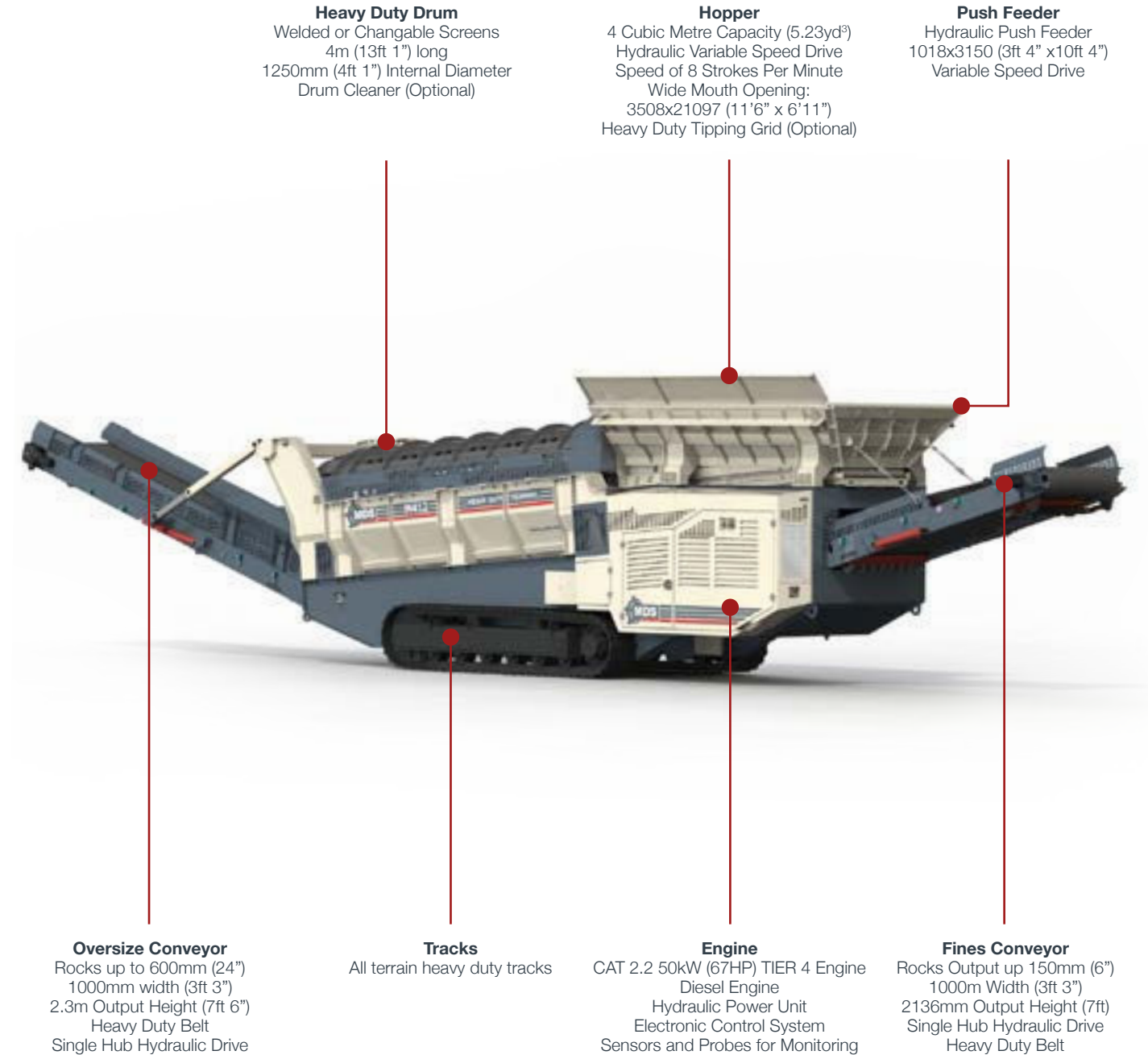
LENGTH: 12,820mm (42ft)  
WIDTH: 2,500mm (8ft 2")  
HEIGHT: 3000mm (9ft 8") | 3,423mm (11ft 2") w/Grid  
WEIGHT: 21.5 tonnes (23.7 US Tons)

## DISCHARGE HEIGHTS

OVERSIZE: 2,326mm (7ft 6")  
FINES: 2,136mm (7ft)

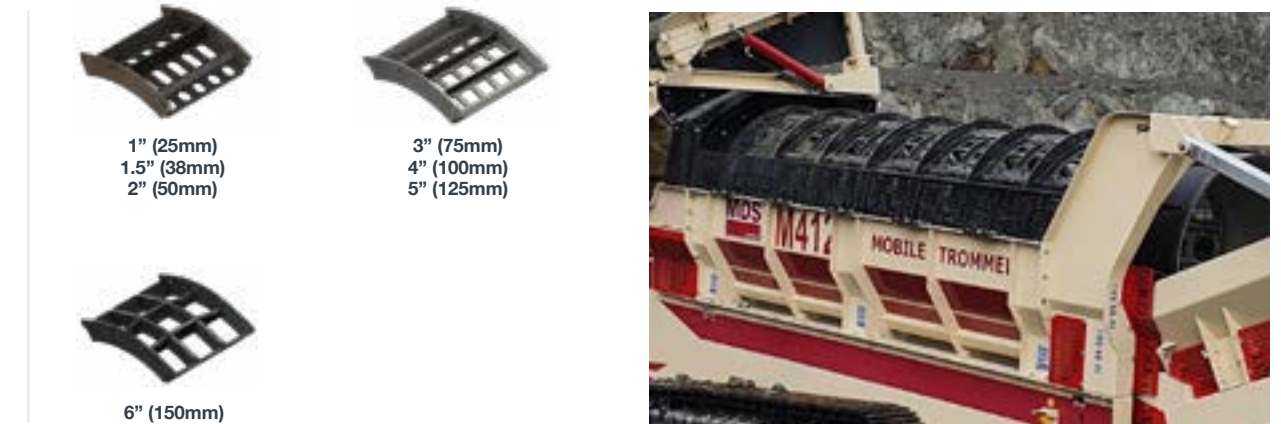
## OUTPUT

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

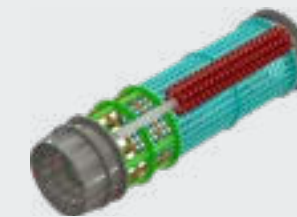


## Drums & Screens

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.



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



**Welded + Screens**  
2.9m welded drum  
75mm (3") to 150mm (6")  
Used with drum cleaner  
1.1m changeable screens up to 150mm (6")  
Allows to clean and control size



**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

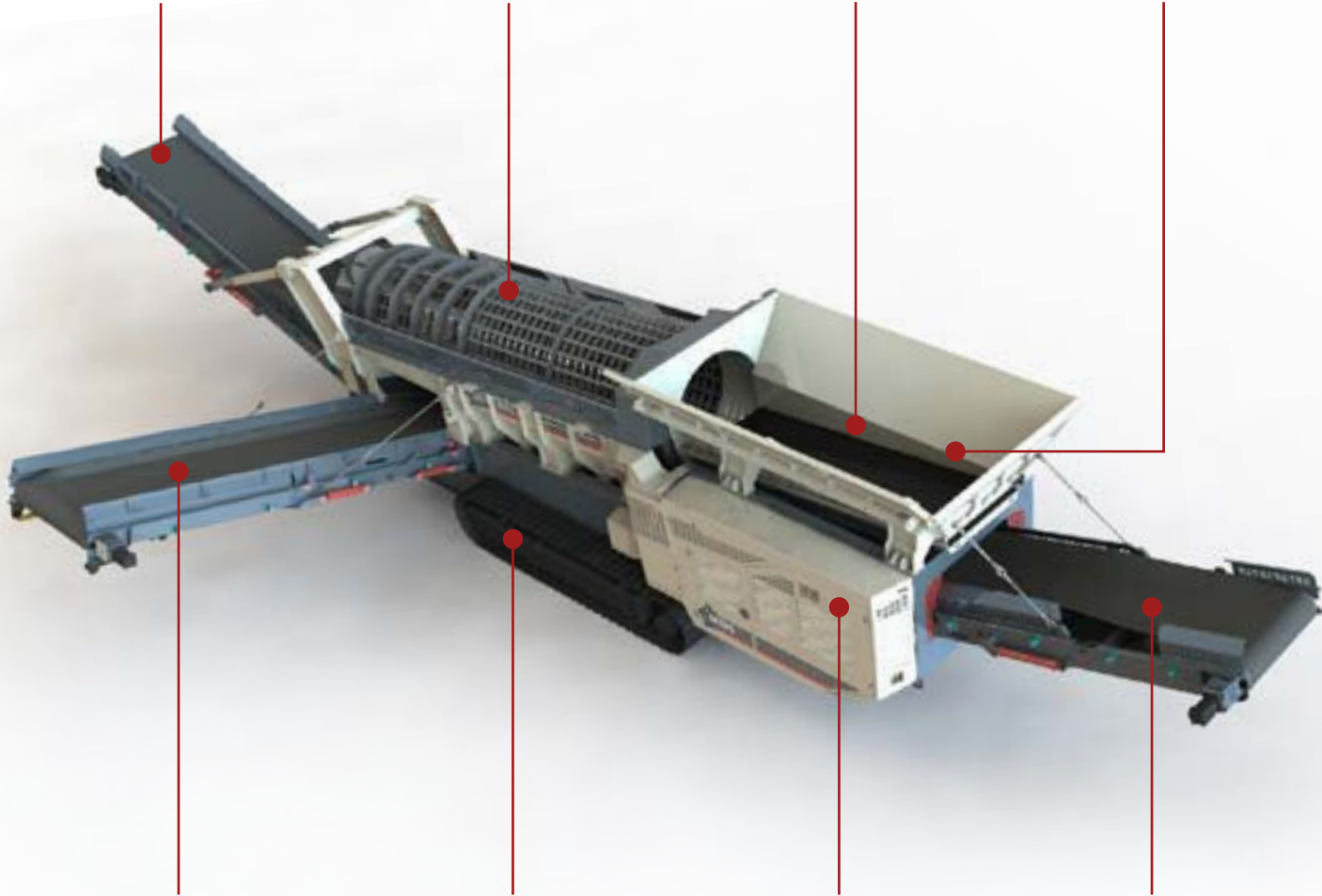
CAPACITY: 300 Tonnes per hour (330 US Tons PH)

**Oversize Conveyor**  
Rocks up to 600mm (24")  
1000mm width (3ft 3")  
2039mm 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  
1986mm (6ft 6") output height  
Single hub drive  
Heavy duty belt

**Tracks**  
All terrain heavy duty tracks

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

**Fines Conveyor**  
Rocks Output up 150mm (6")  
1000m Width (3ft 3")  
1993mm 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.



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



3" (75mm)  
4" (100mm)  
5" (125mm)  
6" (150mm)

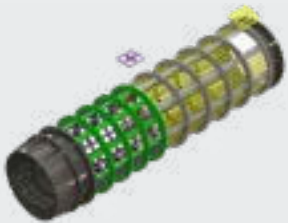


3" (75mm)  
4" (100mm)  
5" (125mm)  
6" (150mm)

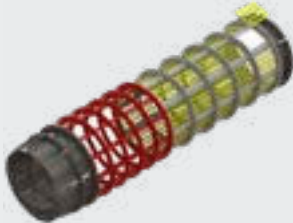
8" (200mm)  
10" (250mm)  
12" (300mm)



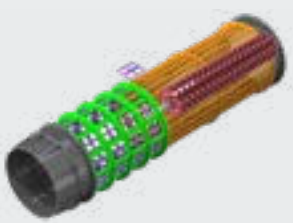
MDS M413 Trommels are made up of a drum with a 2.9m Fines section and 1.7m Mid Product Section. There are various combinations of drums that can be set up on the machine. There are either frames with changeable screens or fully welded drums. The exact configuration depends on the application and requirements of the customer. M412 screens fit in the fines section of the M413. However the Mid Product Screens have a different design. Drum Cleaners are only used with Fully Welded Drums in the fines section of the drum. These can be used with drums with openings of 75mm (3") to 150mm (6").



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: 17,047mm (55ft 11")  
WIDTH: 2,980mm (9ft 9") | 3,179mm (10ft 5") w/Grid  
HEIGHT: 3,500mm (12ft 3") | 3,735mm (12ft 3") w/Grid  
WEIGHT: 48 tonnes (52.9 US Tons)

### DISCHARGE HEIGHTS

OVERSIZE: 3,722mm (12ft 3")  
OVERSIZE: 3,510mm (11ft 6")  
FINES: 3,734mm (12ft 3")

### OUTPUT

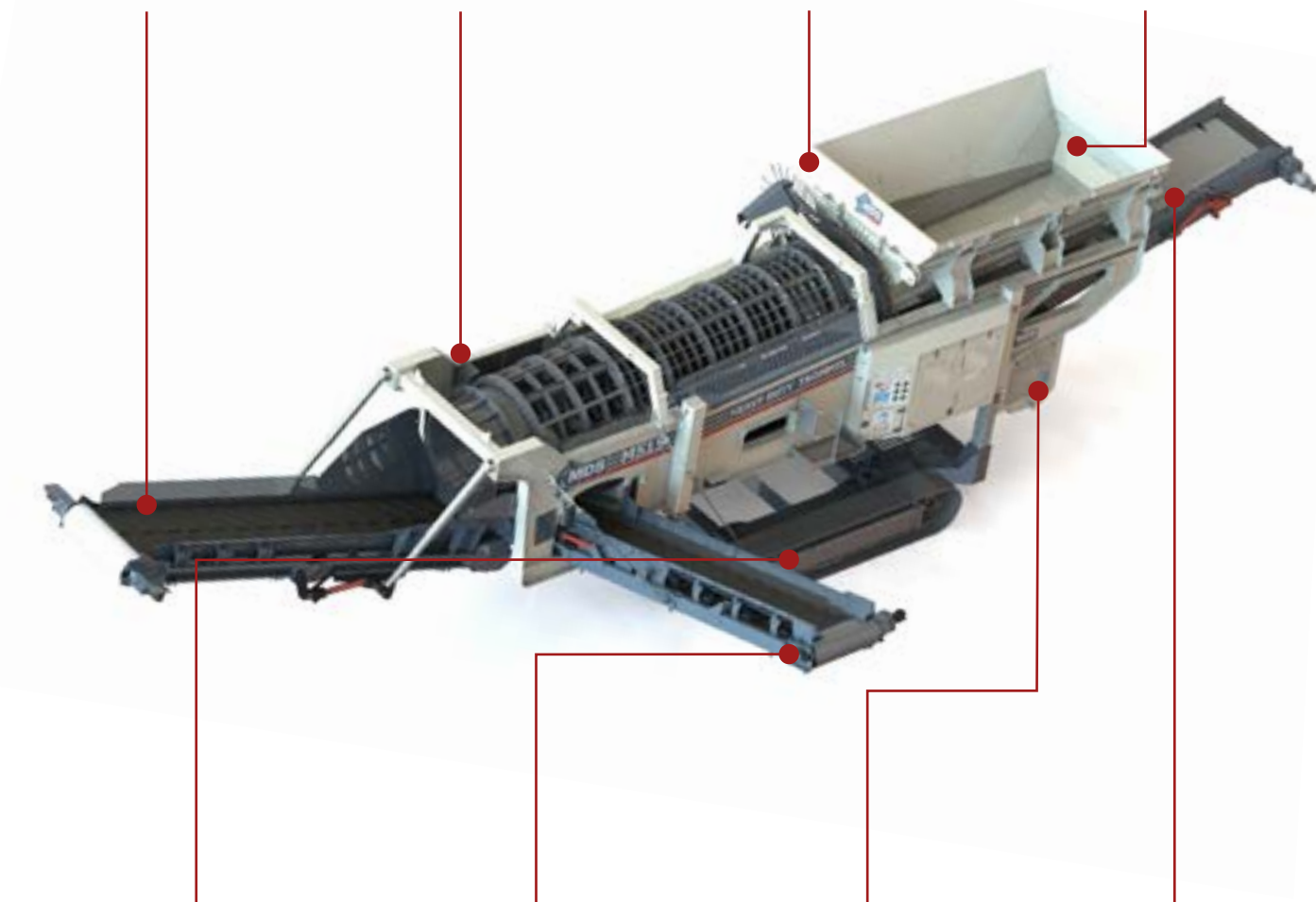
CAPACITY: 350-500 Tonnes per hour  
(385-550 US Tons PH)

**Oversize Conveyor**  
Rocks up to 800mm (32")  
3722mm (12ft 3") Output Height  
Single Hub Hydraulic Drive  
US Flex Dunlop 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 Cubic Metre Capacity (423ft³)  
Hydraulic Variable Speed Drive  
Speed of 8 Strokes Per Minute  
Wide Mouth Opening:  
Heavy Duty Tipping Grid (Optional)

**Push Feeder**  
Hydraulic Push Feeder  
Variable Speed Drive  
940x3810 Feeder Plate (3ft 1"x12ft 6")



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

**Mid Product Conveyor**  
Rocks up to 450mm (18")  
1000mm (3ft) width  
3510mm (11ft 6") output height  
Single hub drive  
Heavy duty belt

**Engine**  
CAT 4.4 96kW (129HP) Engine  
Diesel Engine  
Hydraulic Power Unit  
Electronic Control System  
Sensors and Probes for Monitoring

**Fines Conveyor**  
Output from 25-200mm (1-8")  
1200m Width (3ft 11")  
3734mm Output Height (12ft 3")  
Single Hub Hydraulic Drive  
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.



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 (16t 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



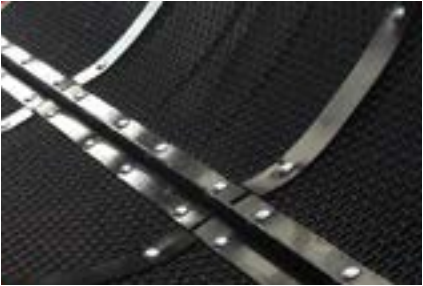
**Track Base**  
Standard Track Base  
Lower Transport Height  
Easy to Move Around Site

**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 M720R

The M720 Recycling trommel is ideal for screening heavy materials from steel to demolition waste and recycling in general. It can be used in a quarry, recycling or construction setting. It can handle material up to 750mm and it great for scalping, cleaning overburden and screening materials into different size streams. It is equipped with 2m (6ft 6") diameter & 7m (22ft 11") long drum.

## TRANSPORT DIMENSIONS

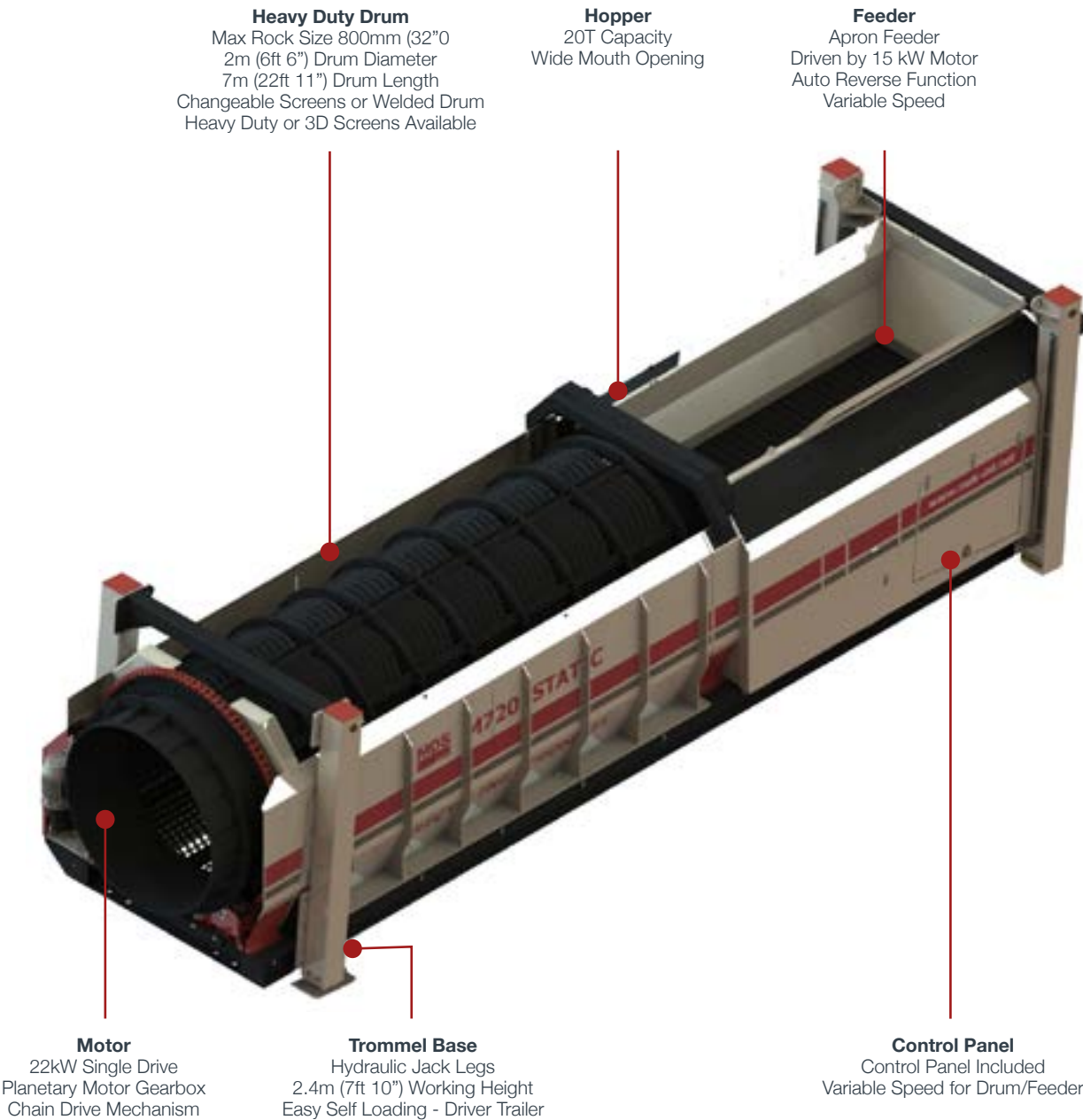
LENGTH: 11,922mm (39ft 1")  
WIDTH: 3,500mm (11ft 6")  
HEIGHT: 3,222mm (10ft 7")  
WEIGHT: 34 tonnes (37 US Tons)

## WORKING DIMENSIONS

LENGTH: 11,871mm (38ft 11")  
WIDTH: 3,500mm (11ft 6")  
HEIGHT: 6,512mm (21ft 4")

## OUTPUT

CAPACITY: 800 Tonnes per hour  
(882 US Tons PH)







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