



# M413



***ROCK SOLID  
PERFORMANCE***

**TECHNICAL  
SPECIFICATION**



# CHANGING THE FUTURE OF SCREENING

The heavy-duty M413 trommel provides an ideal screening solution for the toughest of applications. With its ability to process material up to 600mm (24") in size this unit can be used to screen sticky overburden, construction + demolition waste, rip-rap and much more. The clever chassis design and hydraulic folding product belts make this unit a breeze to transport from one site to another.

The M413 utilizes a 2-section drum allowing the MDS drum cleaner to be used in the fines section this helps keep the openings clean in the harshest conditions, while a bolt-in / bolt-out screen design in the mid-product offers improved flexibility in material sizing.





# BUILT TO EXCEL IN A WIDE RANGE OF APPLICATIONS ALL YEAR-ROUND

Scan the QR code to see the M413 machines in action



## SUITABLE FOR



Overburden



Sticky/Dirty Clay



Rip-Rap



Armour Rock



Steel Slag



Limestone



Primary Screening



Demolition/Concrete



Blasted Rocks

### 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

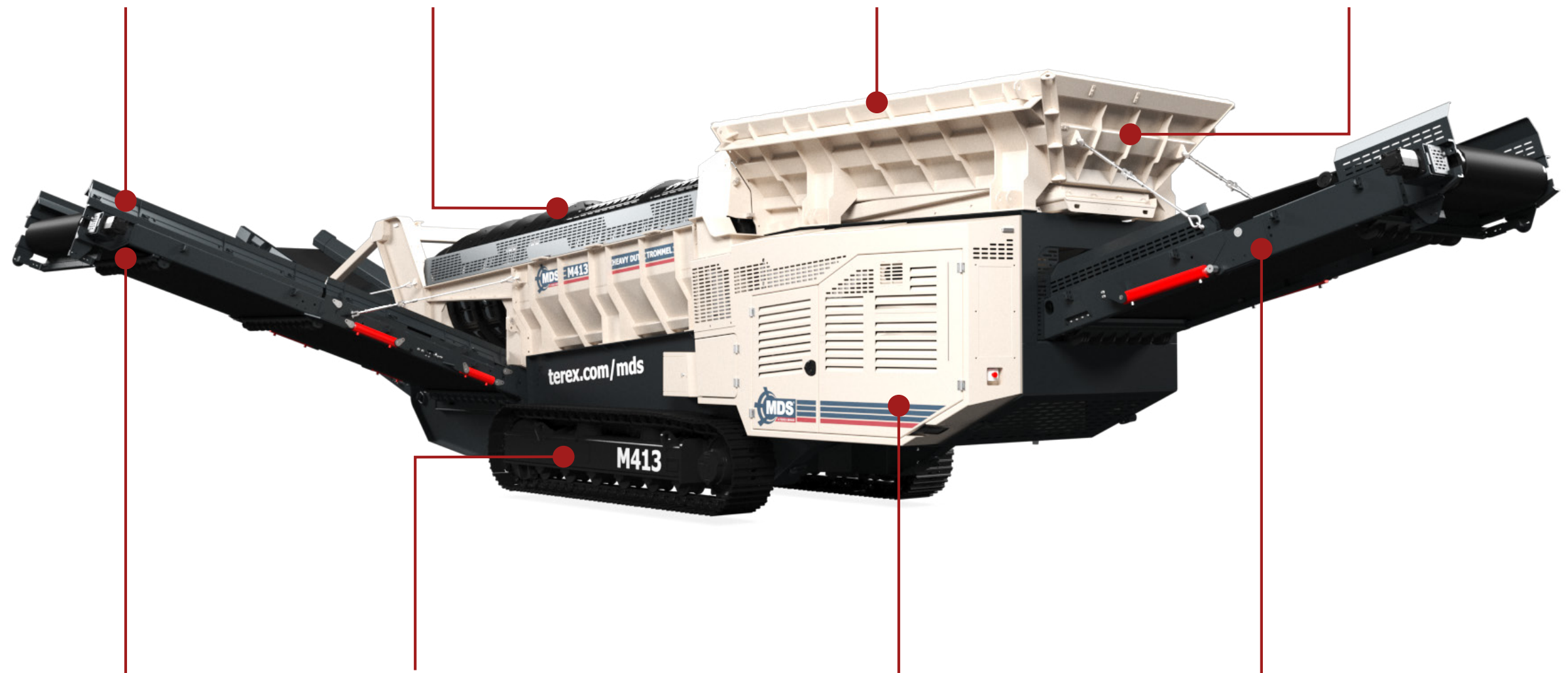
Welded or Changeable Screens  
4.6m (15'1") long  
1.25m (4'1") Internal Diameter  
Drum Cleaner (Optional)

### HOPPER

4 Cubic Metre Capacity (5.23yd<sup>3</sup>)  
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

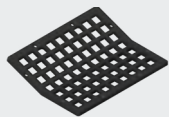


# DRUMS & SCREENS

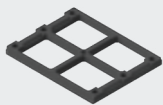
The M413 uses the same screens as M412 in its fines section. Mid-Product section uses a different style of screens. There are various screen sizes that can be chosen for the M413 Trommel which are shown below

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..

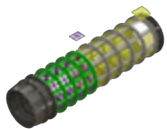


**Fines**  
1" (25mm)-6" (150mm)

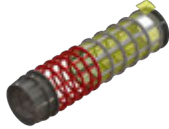


**Mid Product**  
3" (75mm)-12" (300mm)

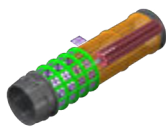
MDS M413 Trommels are made up of a drum with a 2.9m Fines section and 1.7m Mid Product Section. There are various combinations of drums that can be set up on the machine. These are either frames with changeable screens or fully welded drums. The exact configuration depends on the application and requirements of the customer.



**Standard Set Up - Both Screens**



**MP Welded, Fines Screens**



**MP Screens, Fines Welded**



**Both Welded Sections**

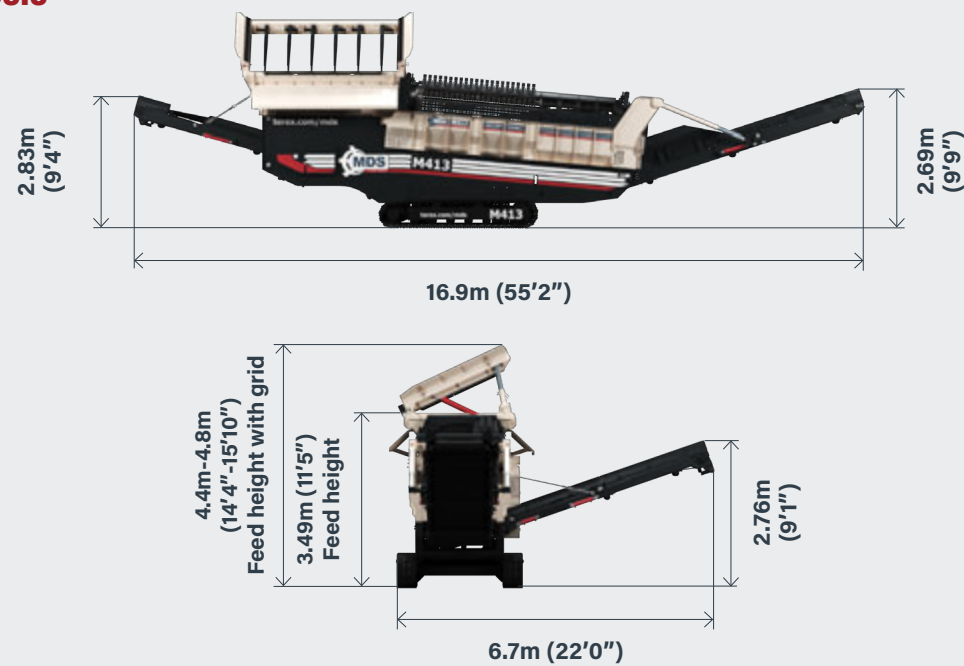




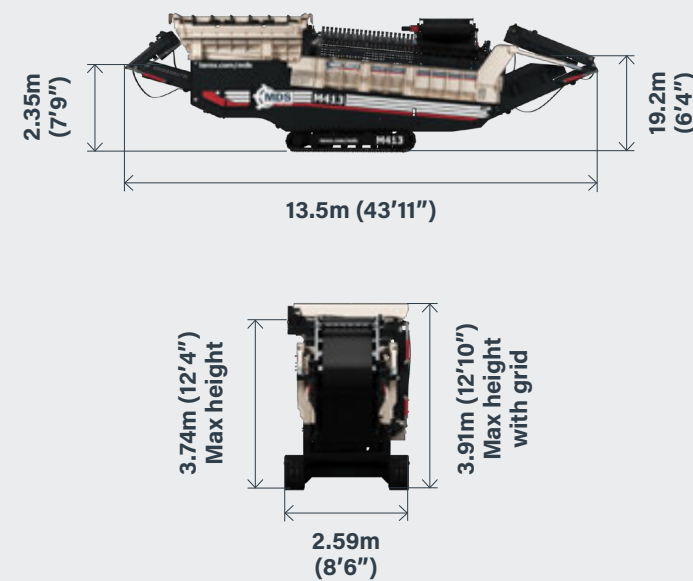
# DRUMS & SCREENS

# DIMENSIONS

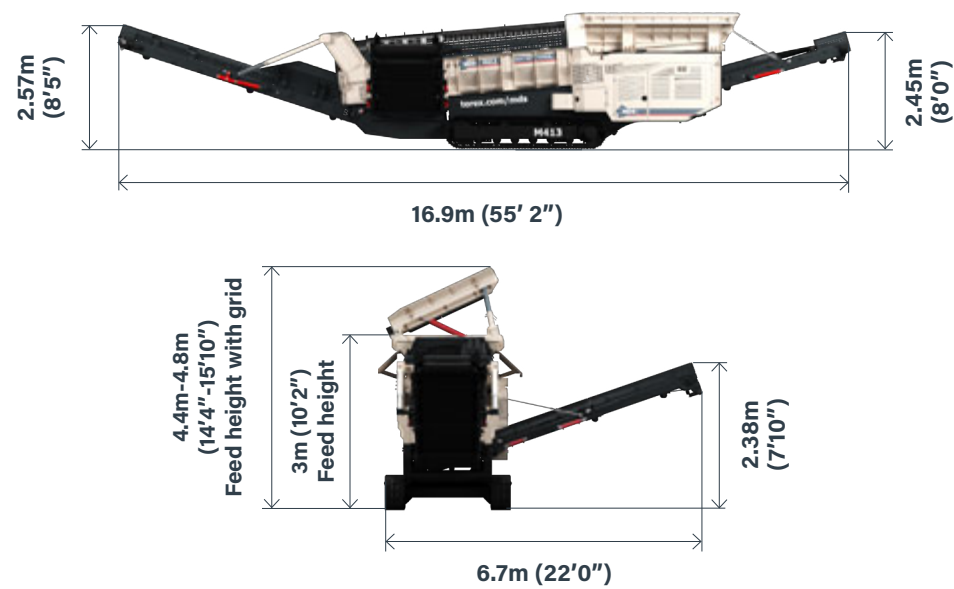
## WORKING DIMENSIONS WITH CHASSIS



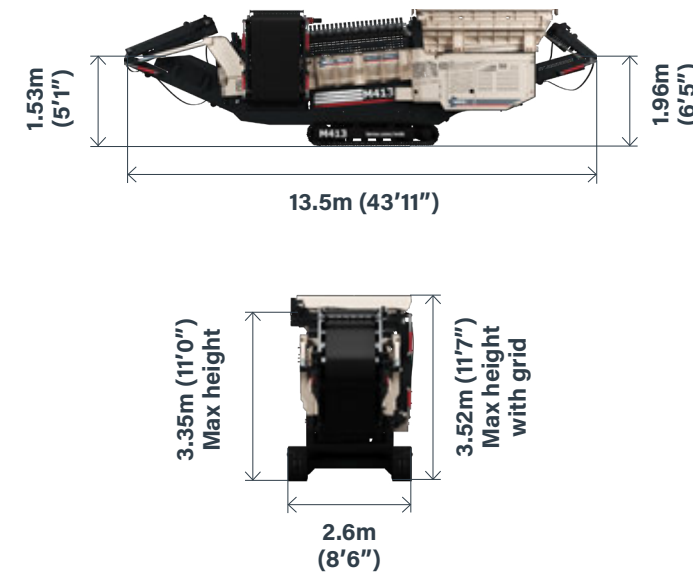
## TRANSPORT DIMENSIONS WITH CHASSIS



## WITHOUT CHASSIS



## WITHOUT CHASSIS



# SPECIFICATIONS

HOPPER	
Hopper Capacity	4m <sup>3</sup> (5.23 cu. yards)
Feeder Width	1m (3' 4")
Feeder Length	3.15m (10' 4")
Feeder Type	Heavy duty Reciprocating Pan Feeder
Drive	Hydraulic variable Speed via Hydraulic Cylinder
Speed	Variable, 1-8 Strokes Per Minute
Wear Resistant Feeder Floor	

FINES CONVEYOR	
Belt Width	1000mm (3' 3")
Belt Spec	EP500/3 5+1.5
Discharge Height	2.45m (8'0"), 2.83m (9'4") (With Riser)
Working Angle	16°
Speed	112 m/min
Drive	Heavy Duty Motor with Gearbox
Max Rock Size	150mm (6")

MID-PRODUCT CONVEYOR	
Belt Width	1350mm (4' 3")
Belt Spec	EP 500/3 5+1.5
Discharge Height	2386mm (7' 8"), 2776mm (9'1") (With Riser)
Working Angle	19°
Speed	50M/min
Drive	500CC Orbital Motor
Max Rock Size	300mm (12")

OVERSIZE CONVEYOR	
Belt Width	1000mm (3' 3")
Belt Spec	EP 500/3 5+1.5
Discharge Height	2.57m (8' 5"), 2.96m (9'9"), (With Riser)
Working Angle	18°
Speed	40M/min
Drive	Tandem 500CC Motors
Max Rock Size	600mm (24")

POWER UNIT/HYDRAULICS	
Tier 4 F Stage 5 Dual Cert -CAT 2.2	
Engine Power	55kW (74HP)
Engine Speed	2500RPM
Feeder/Drum/Tracks	Gear Pumps (Max Pressure 210 Bar)
Conveyor Belt	Gear Pumps (Max Pressure 210 Bar)

TROMMEL DRUM	
Drum Diameter	1.25m (4'1")
Drum Length	4.6m (15'1")
Fines Section Length	2.9m (9'6")
Mid-Section Length	1.7m (5'8")
Incline angle	5°
Drive Type	Chain driven
Drive Motor	Hi Torque Motor and Gearbox Combination Max Torque - 4000NM
Speed	Variable up to 14RPM

OPTIONAL EQUIPMENT	
Tipping Grid with openings of 150mm (6") - 450mm (18")	
Full Guards & Pull Chords - Oversize belt	
Full Guards & Pull Chords - Mid-Product belt	
Full Guards & Pull Chords - Fines Belt	
Hopper Deflector Plates	
Grade 68 Hot Climate Oil	
Wireless Remote Control	

CONTROL PANEL	
Protection	Dust and Weatherproof to IP55
Switches	Ignition Key Switch, Emergency Stop
Gauge	RPM ,Temp, Oil Pressure, Battery Voltage, Airflow, Torque
User-Friendly Operator Interface	
Intelligent Machine Control to Prevent Blockages	

CHASSIS	
Main Chassis	Web and Flange Chassis, Monocoque Design
Safety Guarding	To Relevant ISO standards
Low-Level Greasing Points	

DRUM OPTIONS	
Fully Welded Drum	75mm (3") - 150mm (6")
Heavy Duty Changeable Screens (Fines/Mid Section)	25mm (1") - 300mm (12")
Drum Cleaner <small>(Available only on Fully Welded Drums)</small>	75mm (3"), 100mm (4") , 125mm (5"), 150mm (6")

UNDERCARRIAGE	
Length Centres	2.8m (9'2")
Gauge Centres	2.19m (6'10")
Flow Per Track (L/Min)	70
Pressure (Bar)	210
System Type	Open Loop
Shoe Width	500mm (1'7")

TANK CAPACITIES	
Fuel Tank	170 Litres (44 US Gallons)
Hydraulic Tank	200 Litres (53 US Gallons)



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