



M412



ROCK SOLID
PERFORMANCE

**TECHNICAL
SPECIFICATION**

VERSATILE PERFORMANCE, ENDLESS APPLICATIONS

The MDS M412 Track Rock Trommel, the most compact of our range, perfect for screening everything from lightweight materials to recycling hefty demolition waste. With the ability to handle material as large as 600mm (24") in size, it's equally adept at cleaning dirty quarry material.

Complete with convenient fold-out stockpiling conveyors, this heavy-duty trommel screen is designed for seamless maneuvering around the quarry and between job sites. Choose from two drum configurations for the M412 to suit your specific needs - a drum frame with interchangeable screens or a fully welded drum, providing you with tailored screening solutions.

Add a tipping grid to this machine and watch as it effortlessly produces three distinct products, all while consuming a mere 8 liters of fuel per hour.



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

Scan the QR code to see the M412 machines in action



SUITABLE FOR



Overburden



Sticky/Dirty Clay



Rip-Rap/Armour Rock



Steel Slag



Limestone



Primary Screening



Demolition/Concrete



Blasted Rocks



Recycling



Scrap Metal

HEAVY DUTY DRUM

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

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



OVERSIZE CONVEYOR

Rocks up to 600mm (24")
1000mm width (3'3")
2.57m Discharge Height (8'5")
Heavy Duty Belt
Single 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 Discharge Height (8'0")
Single 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. 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)

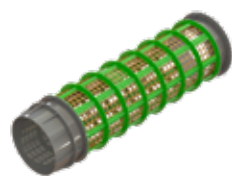


3" (75mm)
4" (100mm)
5" (125mm)



6" (150mm)

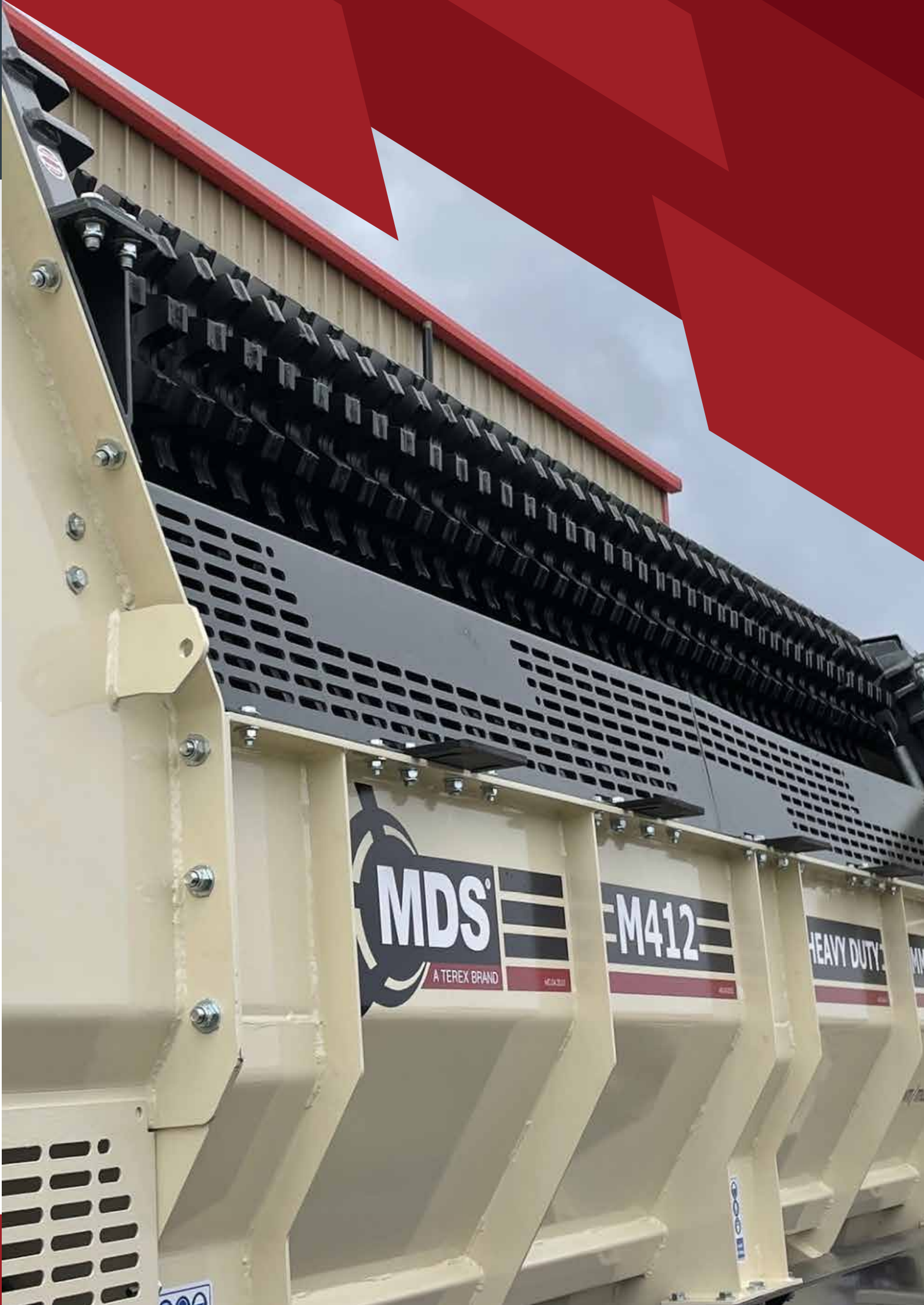
MDS Trommels can come with an option to get changeable screens on its drums or fully welded drums.



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

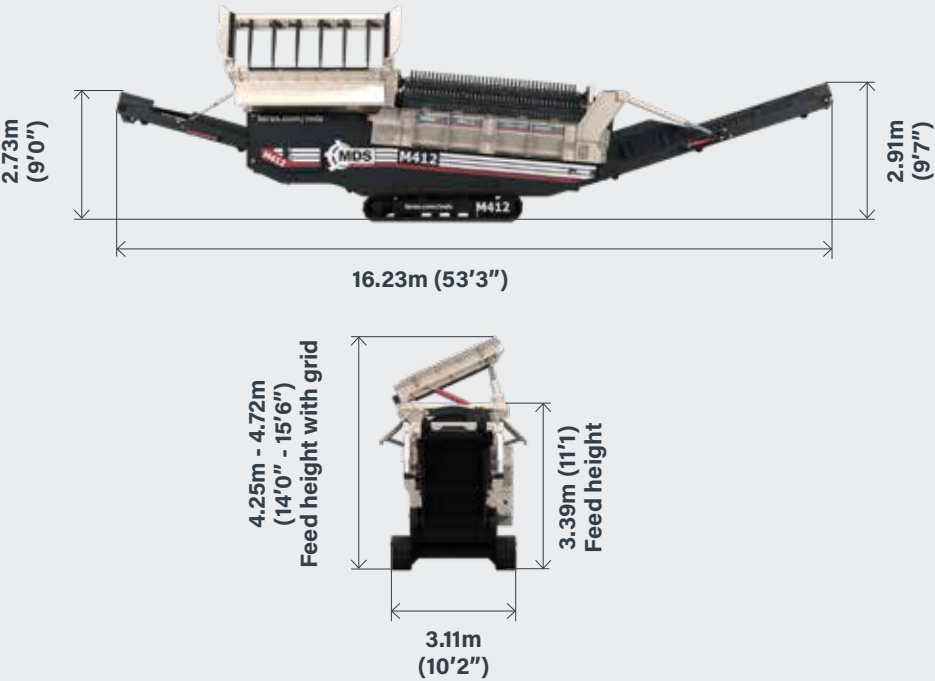


Fully Welded
Full 4m welded drum
Set up for dirty material

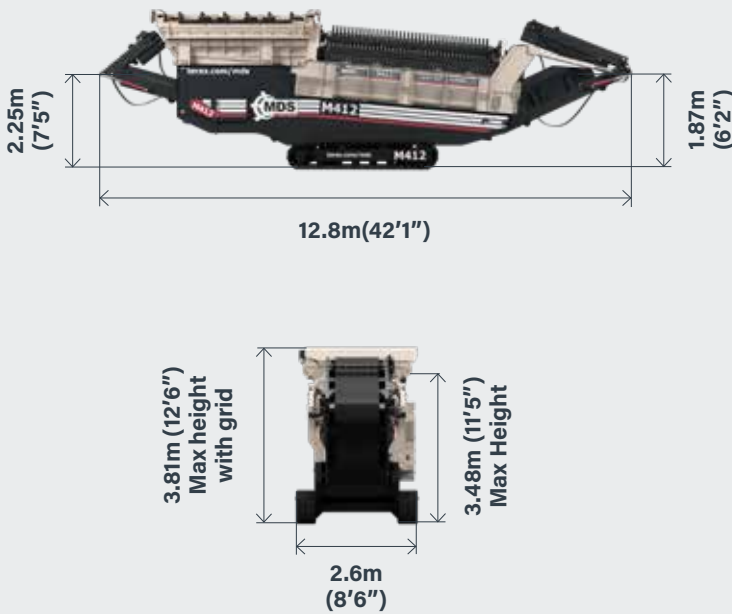


DIMENSIONS

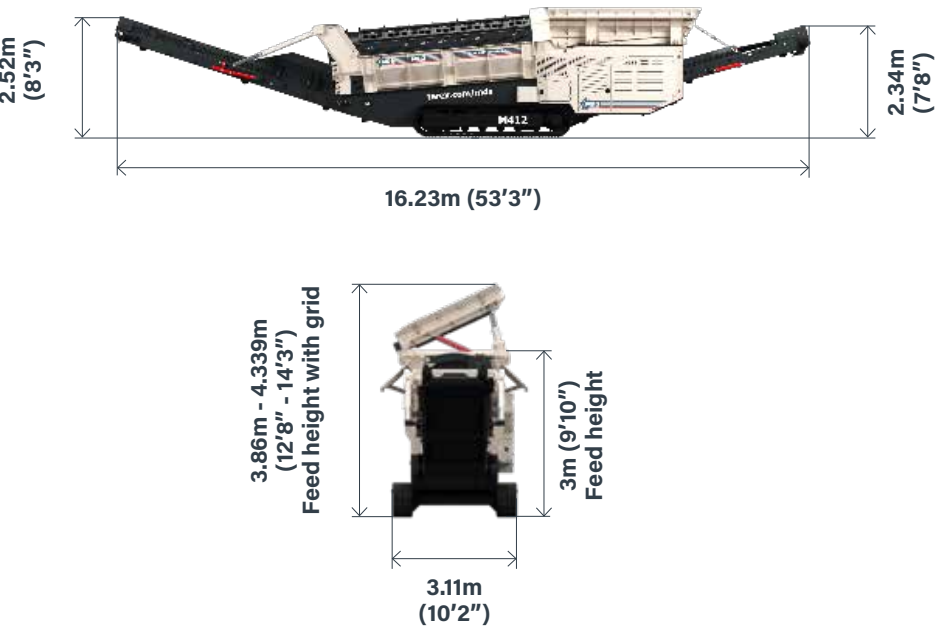
WORKING DIMENSIONS WITH CHASSIS



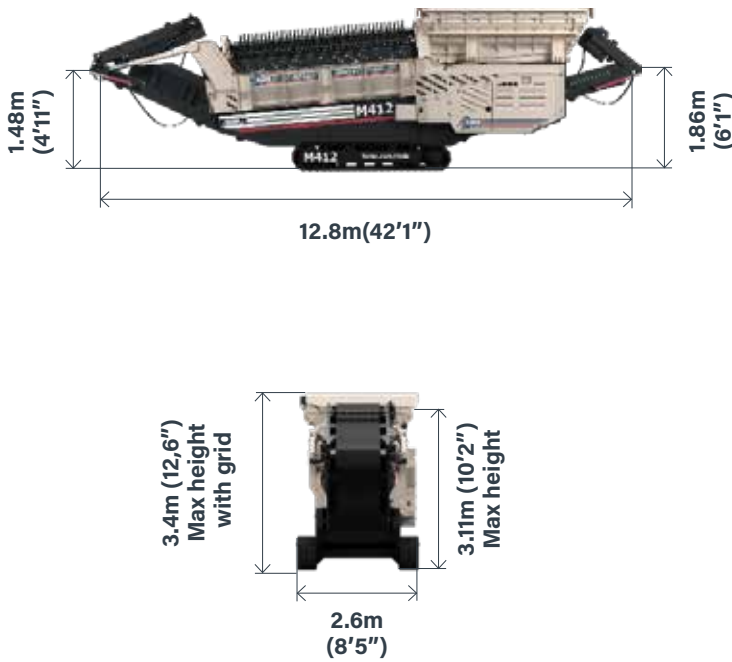
TRANSPORT DIMENSIONS WITH CHASSIS



WITHOUT CHASSIS



WITHOUT CHASSIS



SPECIFICATIONS

HOPPER	
Hopper Capacity	4m ³ (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 Hydraulic Motor
Max Rock Size	150mm (6")

OVERSIZE CONVEYOR	
Belt Width	1000mm (3' 3")
Belt Spec	EP 500/3 5+1.5
Discharge Height	2577mm (8' 5"), 2967mm (9'9"), (With Riser)
Working Angle	18°
Speed	40M/min
Drive	Single Heavy Duty Motor Gearbox Drive
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")
Incline Angle	5°
Drive Type	Chain driven
Drive Motor	Hi Torque Motor and Gearbox Combination
	Max Torque - 4000NM
Speed	Variable up to 14RPM

DRUM OPTIONS	
Fully Welded Drum	75mm (3") - 150mm (6")
Heavy Duty Changeable Screens	25mm (1") - 150mm (6")
Drum Cleaner	75mm (3"), 100mm (4") , 125mm (5"), 150mm (6")
(Available only on Fully Welded Drums)	

OPTIONAL EQUIPMENT
Tipping Grid with openings of 150mm (6") - 450mm (18")
Full Guards & Pull Chords - Oversize 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
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	

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

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")



Scan the QR code
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