

# FM COMPACT<sup>™</sup> RANGE



The Complete FM Compact<sup>™</sup>  
Range suitable for all your sand  
washing and classification needs.

AGGREGATES



RECYCLING



INDUSTRIAL SANDS



MINING



The Terex FM Compact™ range are static sand washing and classification units designed to be both cost and energy efficient on a single compact chassis. The range utilises centrifugal force within the hydrocyclone(s) to remove clay, silt and slime from sand to bring it into the desired specification. The range combines a collection tank, centrifugal slurry pump(s), hydrocyclone(s) and a dewatering screen to produce up to 2 clean sands.

- Self regulating float level system provides consistent tank volume and pump run-dry protection.
- All slurry pipework is rubber lined to maximise wear life.

- Available wired to isolators or with an optional control panel.
- Optional control panel upgrade for controlling up to 2 stockpile conveyors.

- Linatex Rubber-lined centrifugal pumps with replaceable liners.
- Easy access for all pump and motor maintenance.
- Simple integrated support arm for opening rubber lined pumps.

Model Pictured: FM 200c pump

Model Pictured: FM 200c

- Linatex rubber-lined high efficiency hydrocyclones provides maximum silt and clay (-75µm) removal from the final product.
- Replaceable drop-in liners.
- All models are available equipped with standard G4 hydrocyclones or selected models can have HK separators.

- Linear motion, high frequency dewatering screen delivering superior moisture reduction
- Marshmallow vibration isolation screen mountings.
- E-stops located all around the plant for safe operation.

- Full-width modular polyurethane dewatering media for quick change outs.
- Polyurethane side modules for increased screen protection.
- Low friction discharge chutes with angle adjustments.

- Fully galvanised walkways allowing comprehensive access to the plant.
- Raised chassis design for machine wash down.
- Sloped tank reduces the risk of fines build up.

## APPLICATIONS

The FM Compact™ range can produce up to two sands in the following applications:

- All forms of concrete, mortar and asphalt sands
- Quarry dust / crushed fines
- Lake and beach sands
- Silica sand for glass industry
- Golf course sands
- Filter bed sands
- Recycled materials
- Iron ore
- Most materials which need to be washed



Model Pictured: FM 120c - 2G

## COMPONENTS

The FM Compact™ range share the following features:

### Cyclone

- Application specific sizes for Coarse and fine sands
- Spigot discharge
- All wear areas rubber lined
- Underflow collection box with blending options in 2 grade applications
- Pressure flange with gauge and protector

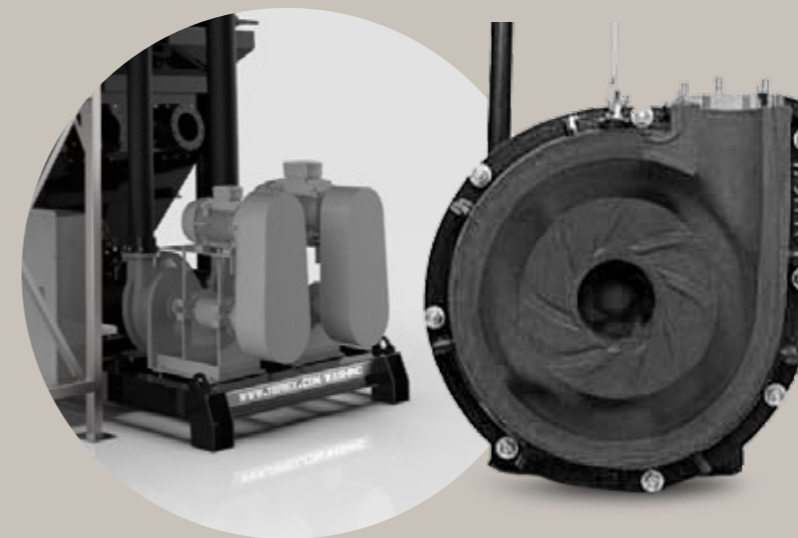


## OPTIONS

The FM Compact™ range can be offered with the following options:

- Boiler box for dry feed
- Electrical control panels with starters for product conveyors
- Dewatering screen spraybars
- Upgrade to C Type and HK separators
- Customized build to double wash dirty material

The range also has the ability to incorporate HK and C-type separators for challenging applications. (For more info please contact your TWS sales representative.)



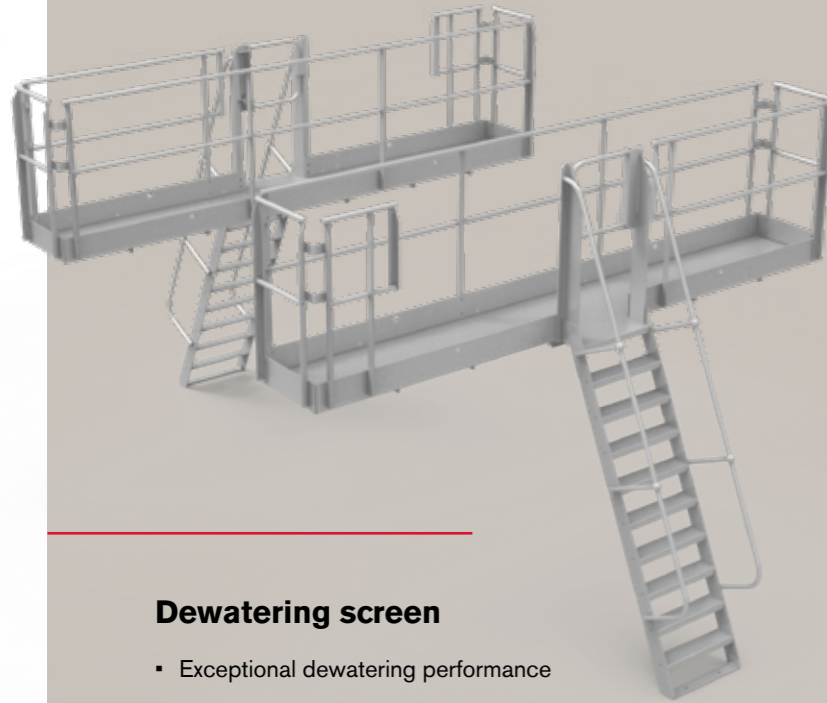
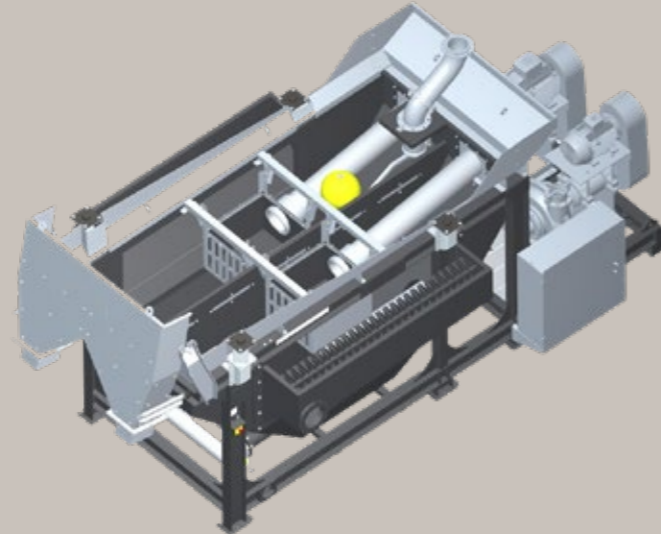
### Centrifugal Pumps

- Sized to suit your needs, with numerous combinations of pump and motors
- Abrasion resistant liners
- Moulded rubber impellers
- Pump drain for cold climate applications
- Excellent serviceability
- Rubber lined for increased wear life

## COMPONENTS

### Chassis

- Self regulating cyclone tank complete with built in float system
- Built in anti-turbulence feed sections
- Optional split for two products
- Heavy duty steel construction
- Easy access to all serviceable areas
- Optional overflow weirs to aid removal of silt

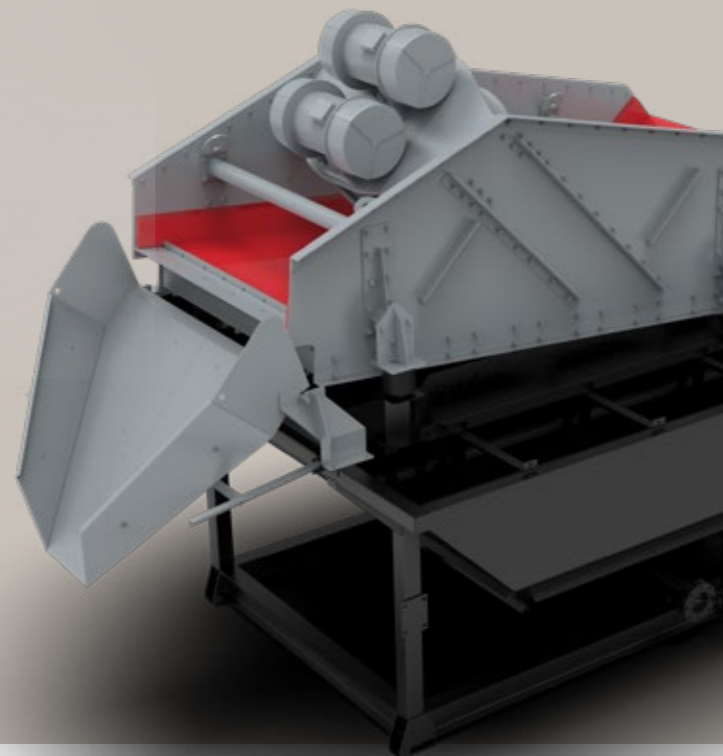


### Access

- Fully galvanised, reversible walkways
- Optional expanded metal or G.R.P flooring
- Access to all serviceable areas

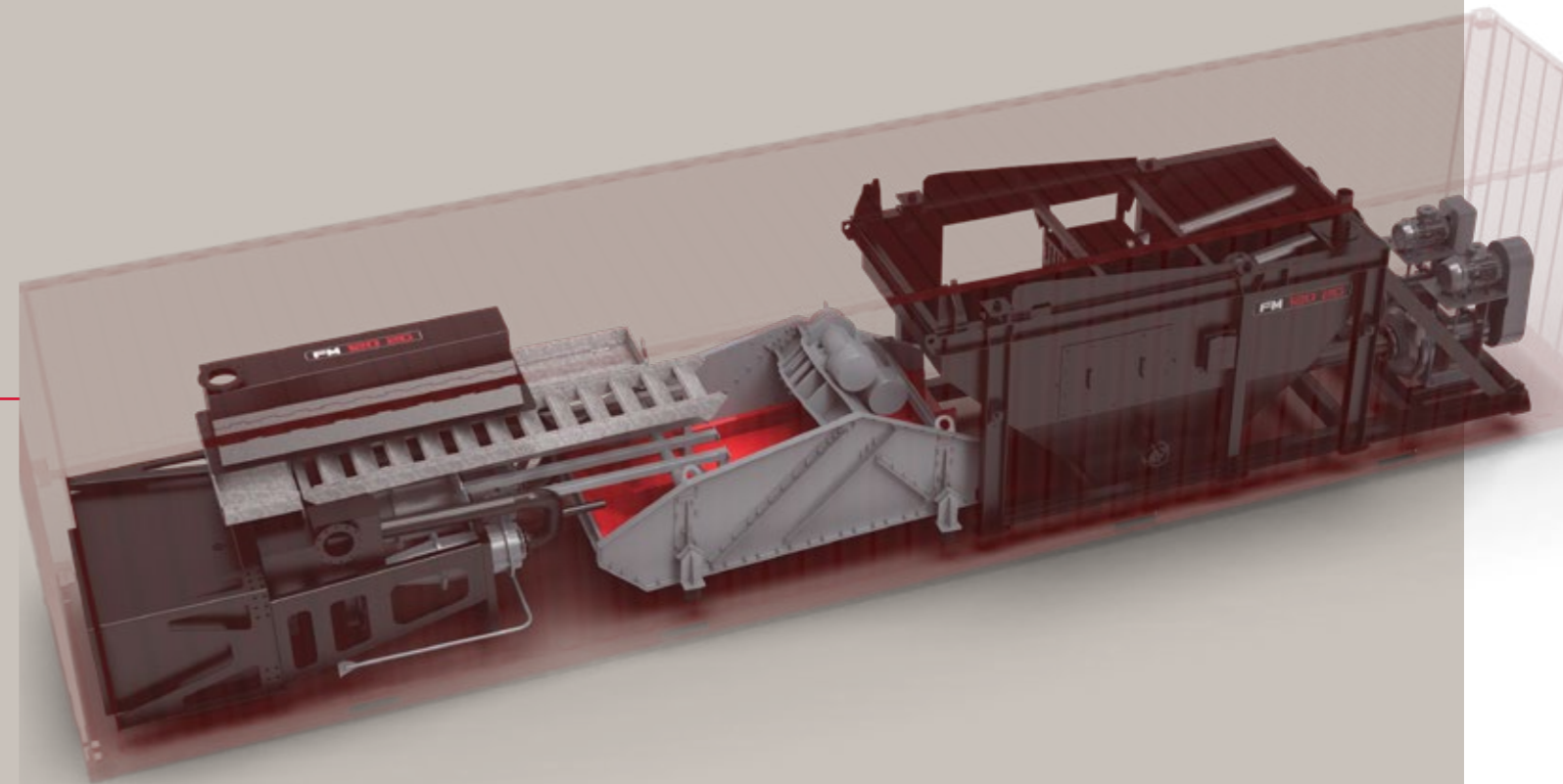
### Dewatering screen

- Exceptional dewatering performance
- From 6x2 to 14x6
- 2 x vibratory motors
- Polyurethane modules and side protection
- Polyurethane low friction chute liners
- Marshmallow screen mounts for smoother running



## TRANSPORT

The FM Compact™ range are designed to fit standard shipping containers in the most cost effective way:



Machine Model	Container requirement
FM 20c	1 x 40'
FM 60c	1 x 40'
FM 120c	1 x 40'
FM 120c 2G	1 x 20' and 1 x 40'
FM 150c	1 x 40'
FM 150c 2G	1 x 20' and 1 x 40'
FM 200c	2 x 40'
FM 200c 2G	2 x 40' (High Cube)

## TECHNICAL SPECIFICATION

The FM Compact™ range comes in 8 models ranging from 20 to 200tph and capable of producing 2 grades of in-spec sand.

- FM 20c
- FM 60c
- FM 120c
- FM 120c - 2 Grade
- FM 150c
- FM 150c - 2 Grade
- FM 200c
- FM 200c - 2 Grade

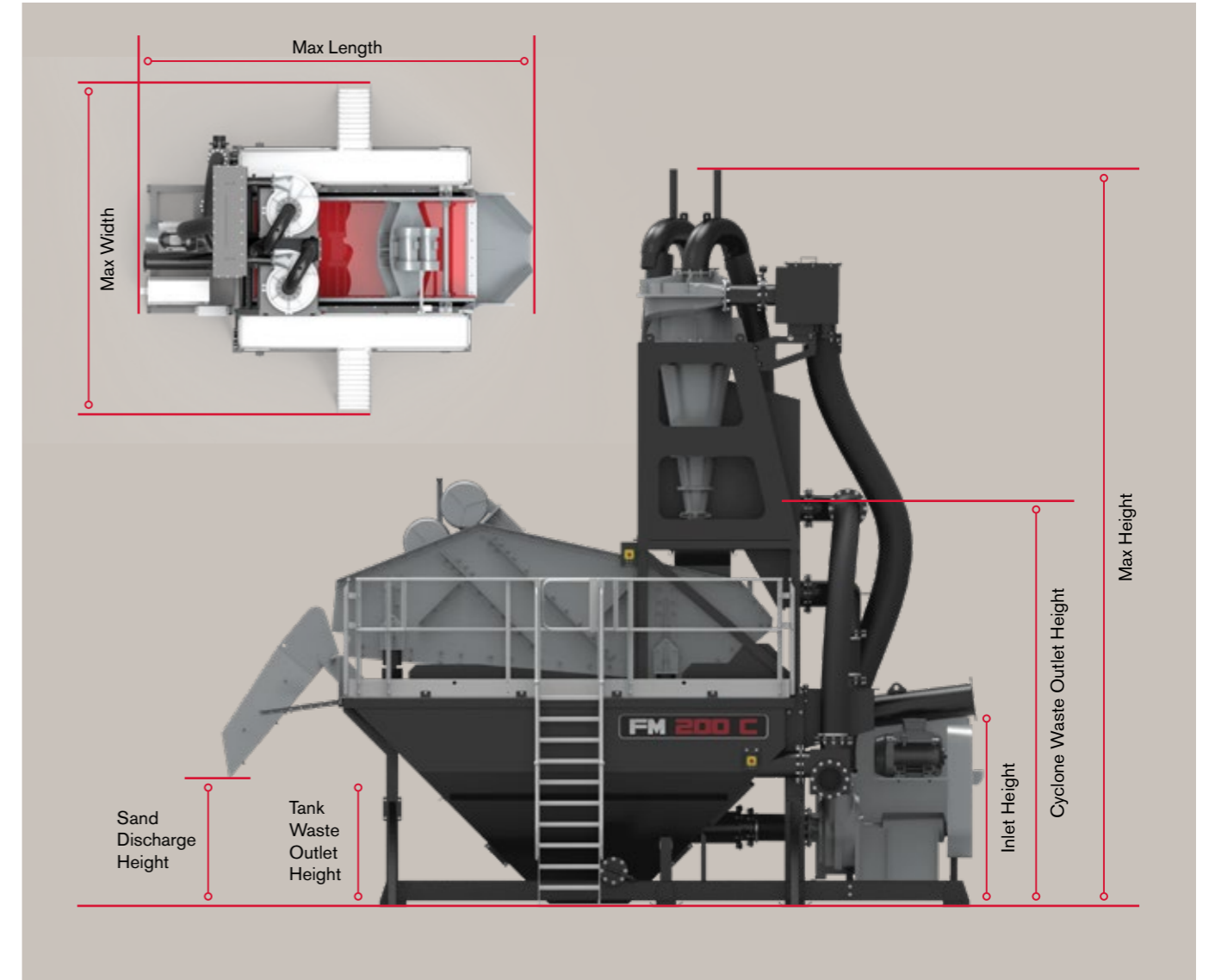


Model Pictured: FM 120c - 2G

Machine Model	FM 20c	FM 60c	FM 120c	FM 120c 2G	FM 150c	FM 150c 2G	FM 200c	FM 200c 2G
<b>Max Tonnage (tph)</b>	20	60	120	120	150	150	200	200
<b>Dewatering Screen (m [ft])</b>	1.8x0.6 [6x2]	2.4x1.2 [8x4]	3.7x1.5 [12x5]	3.7x1.5 [12x5]	3.7x1.5 [12x5]	3.7x1.5 [12x5]	4.3x1.8 [14x6]	4.3x1.8 [14x6]
<b>Hydrocyclone</b>	G4 - 375mm	G4 - 500mm	G4 - 660mm	G4 - 500mm	2 x G4 - 500mm	2 x G4 - 500mm	2 x G4 - 660mm	G4 - 660mm
<b>Pump Size (mm)</b>	100/100	150/125	200/150	150/125 & 200/150	250/200	2 x 200/150	250/200	2 x 200/150
<b>Pump Power (kW [hp])</b>	11 [15]	18.5 [25]	30 [40]	15 [20] & 22 [30]	37 [50]	2 x 22 [30]	45 [60]	22 [30] & 30 [40]
<b>Inlet Flange (mm [Inch])</b>	200 [8]	250 [10]	250 [10]	250 [10]	250 [10]	250 [10]	250 [10]	300 [12]
<b>Outlet Flange (mm [Inch])</b>	200 [8]	200 [8]	250 [10]	250 [10]	250 [10]	250 [10]	300 [12]	250 [10]
<b>Total Power (kW [hp])</b>	13 [17.5]	23 [31]	38 [51]	45 [60.5]	45 [60]	52 [70]	57.4 [77]	64.4 [86]

Technical Specs for FM Models.

## DIMENSIONS



Machine Model	FM 20c	FM 60c	FM 120c	FM 120c 2G	FM 150c	FM 150c 2G	FM 200c	FM 200c 2G
<b>Max Height</b>	4310 (14'2")	6080 (19'11")	7070 (23'3")	6740 (22'12")	7300 (23' 9")	7300 (23' 9")	7430 (23'5")	8200 (26'10")
<b>Max Length</b>	4450 (14'8")	6840 (22'6")	6540 (21'6")	7580 (24'10")	6900 (22' 6")	6900 (22' 6")	7680 (25'3")	6900 (22'7")
<b>Max Width</b>	3230 (10'8")	2740 (9'0")	3590 (11'10")	4450 (23'5")	4310 (14'2")	4310 (14' 2")	6440 (21'2")	4800 (15'9")
<b>Inlet Height</b>	1300 (4'4")	1690 (5'7")	1920 (6'4")	1950 (6'5")	1920 (6'4")	1920 (6'4")	2090 (6'11")	1800 (5'10")
<b>Tank Waste Outlet Height</b>	880 (2'11")	1490 (4'11")	970 (3'3")	1680 (5'6")	1490 (4'11")	1490 (4'11")	1280 (4'2")	1800 (5'10")
<b>Discharge Height</b>	1350 (4'5")	1262 (4'2")	1670 (5'6")	1900 (6'3")	1670 (5'6")	1670 (5'6")	1300 (4'3")	1800 (5'10")

Dimensions Full FM Compact™ range. Units: Metric-mm [Imperial].



**WASHING SYSTEMS**

**WASHING AS IT SHOULD BE**



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VIDEOS ON YOUTUBE:  
[www.youtube.com/terexwashingsystems](http://www.youtube.com/terexwashingsystems)



## **TEREX WASHING SYSTEMS**

### **FARLOUGH SITE**

32 Farlough Road,  
Dungannon,  
Co. Tyrone,  
Northern Ireland, BT71 4DT

Tel: +44(0) 28 8771 8500  
Email: [TWS.sales@terex.com](mailto:TWS.sales@terex.com)

[www.terex.com/washing](http://www.terex.com/washing)

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