

FM COMPACT[™] RANGE



The Complete FM Compact[™]
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.

- 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.

Model Pictured: FM 200c

Model Pictured: FM 200c pump

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



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:

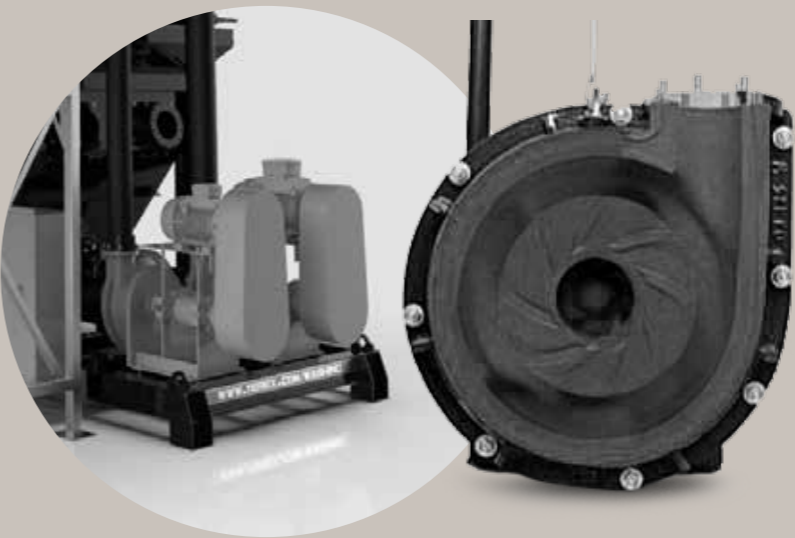
- Boiler box for dry feed
- Electrical control panels with starters for product conveyors
- Dewatering screen spraybars
- Upgrade to C Type and HK seperators
- Customized build to double wash dirty material

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

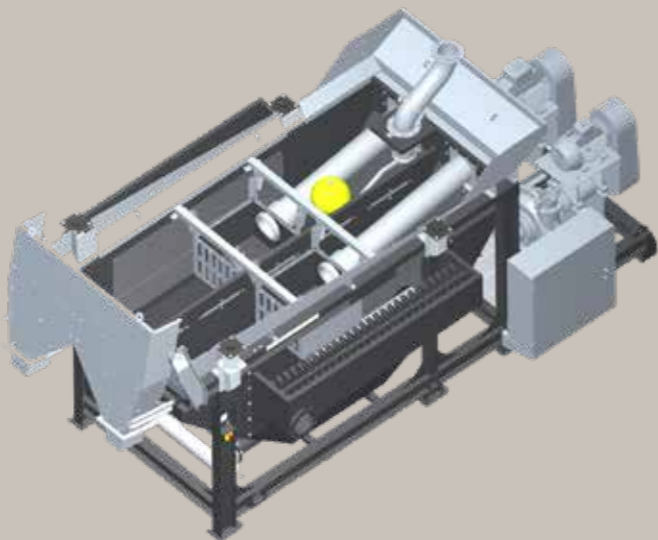
- Sized to suit your needs, with numerous combinations of pump and motors
- Abrasion resistant liners
- Moulded rubber impellers
- Pump drain for cold climate applications
- Excellent serviceability
- Rubber lined for increased wear life



COMPONENTS

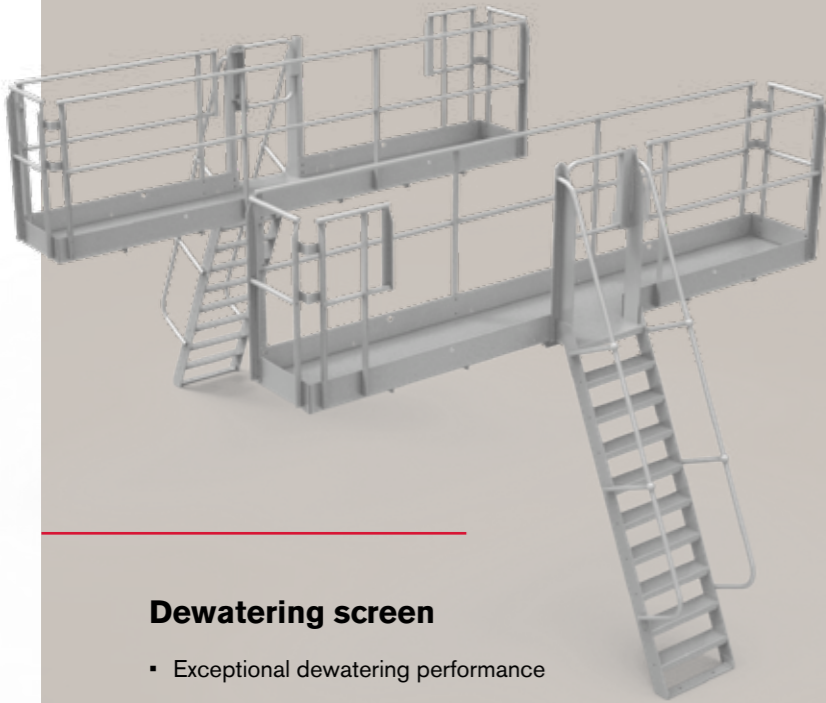
Chassis

- 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



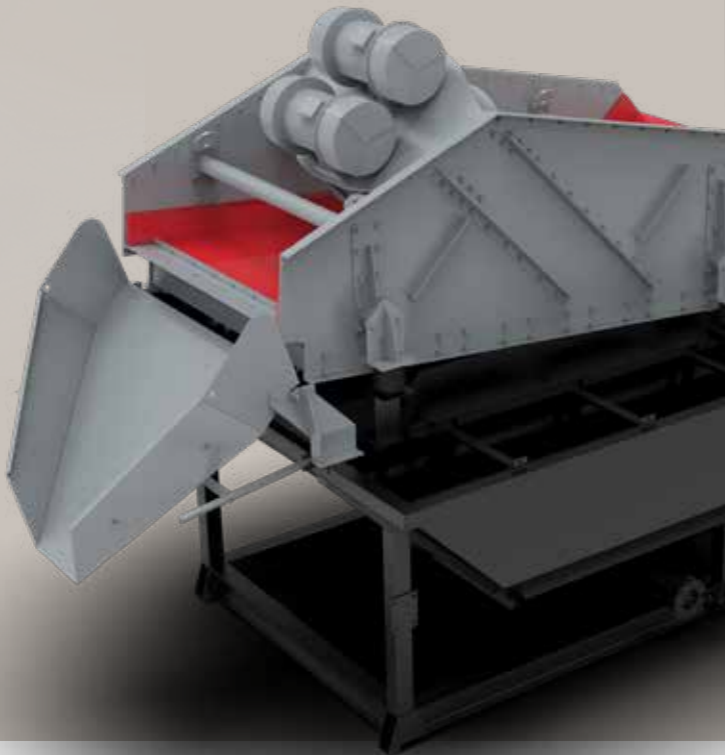
Access

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



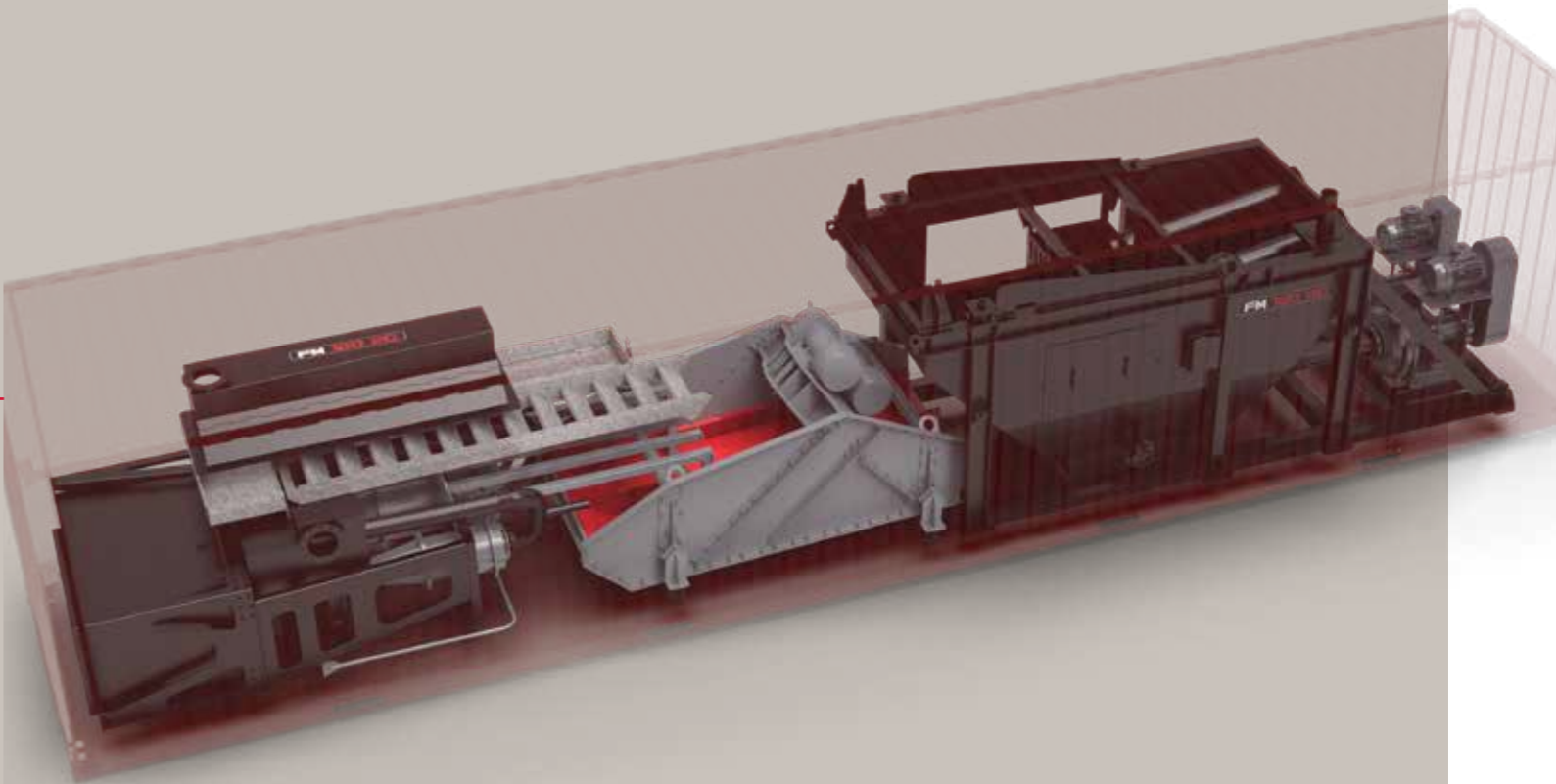
Dewatering screen

- 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.

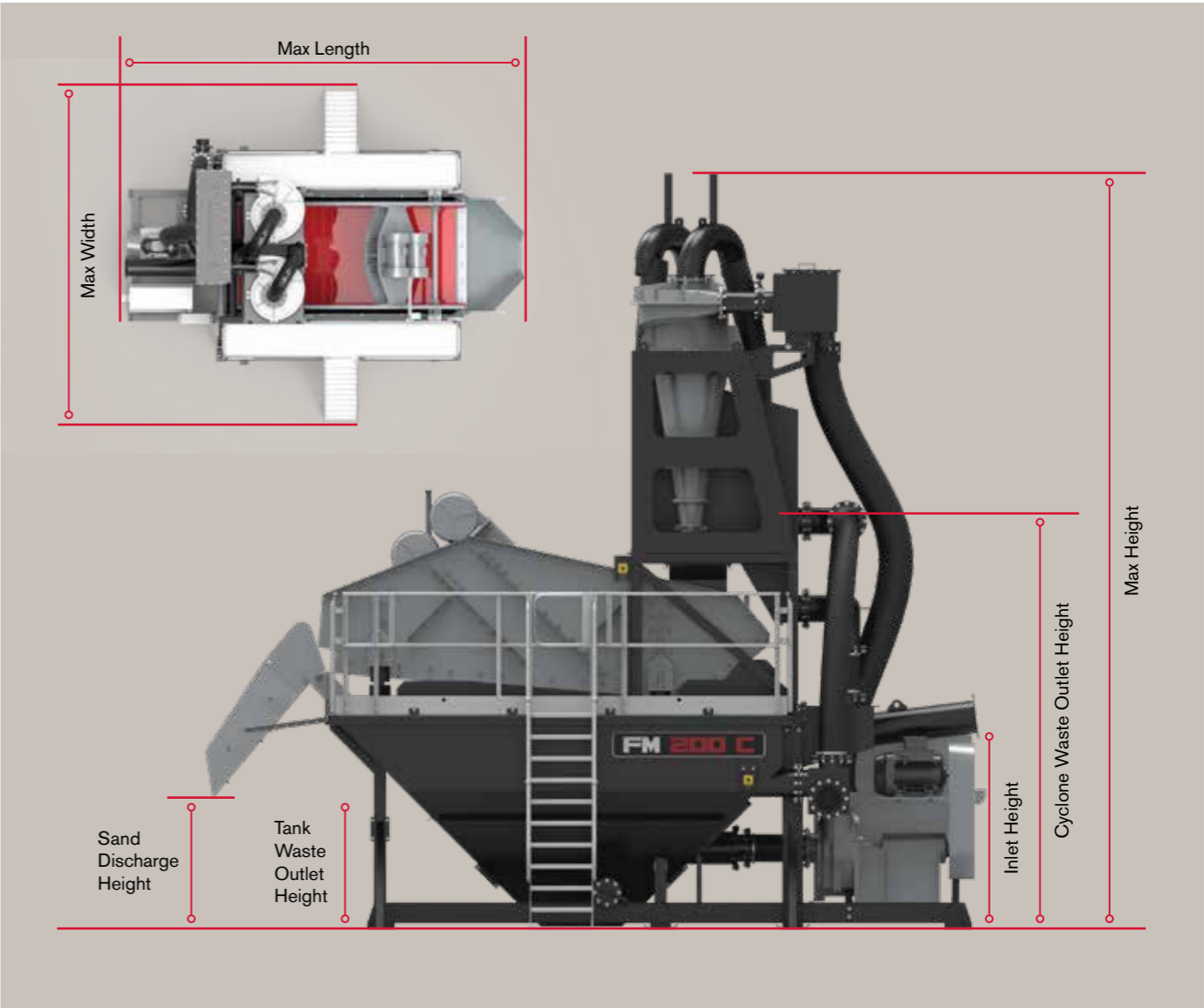
- FM 20c
- FM 60c
- FM 120c
- FM 120c - 2 Grade
- FM 150c
- FM 150c - 2 Grade
- FM 200c
- FM 200c - 2 Grade



| Machine Model | FM 20c | FM 60c | FM 120c | FM 120c 2G | FM 150c | FM 150c 2G | FM 200c | FM 200c 2G |
|----------------------------|---------------|---------------|----------------|-------------------|----------------|----------------|----------------|-------------------|
| Max Tonnage (tph) | 20 | 60 | 120 | 120 | 150 | 150 | 200 | 200 |
| Dewatering Screen (m [ft]) | 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] |
| Hydrocyclone | G4 - 375mm | G4 - 500mm | G4 - 660mm | G4 - 500mm | 2 x G4 - 500mm | 2 x G4 - 500mm | 2 x G4 - 660mm | G4 - 660mm |
| Pump Size (mm) | 100/100 | 150/125 | 200/150 | 150/125 & 200/150 | 250/200 | 2 x 200/150 | 250/200 | 2 x 200/150 |
| Pump Power (kW [hp]) | 11 [15] | 18.5 [25] | 30 [40] | 15 [20] & 22 [30] | 37 [50] | 2 x 22 [30] | 45 [60] | 22 [30] & 30 [40] |
| Inlet Flange (mm [Inch]) | 200 [8] | 250 [10] | 250 [10] | 250 [10] | 250 [10] | 250 [10] | 250 [10] | 300 [12] |
| Outlet Flange (mm [Inch]) | 200 [8] | 200 [8] | 250 [10] | 250 [10] | 250 [10] | 250 [10] | 300 [12] | 250 [10] |
| Total Power (kW [hp]) | 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 |
|--------------------------|--------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|
| Max Height | 4310 (14'2") | 6080 (19'11") | 7070 (23'3") | 6740 (22'12") | 7300 (23' 9") | 7300 (23' 9") | 7430 (23'5") | 8200 (26'10") |
| Max Length | 4450 (14'8") | 6840 (22'6") | 6540 (21'6") | 7580 (24'10") | 6900 (22' 6") | 6900 (22' 6") | 7680 (25'3") | 6900 (22'7") |
| Max Width | 3230 (10'8") | 2740 (9'0") | 3590 (11'10") | 4450 (23'5") | 4310 (14'2") | 4310 (14' 2") | 6440 (21'2") | 4800 (15'9") |
| Inlet Height | 1300 (4'4") | 1690 (5'7") | 1920 (6'4") | 1950 (6'5") | 1920 (6'4") | 1920 (6'4") | 2090 (6'11") | 1800 (5'10") |
| Tank Waste Outlet Height | 880 (2'11") | 1490 (4'11") | 970 (3'3") | 1680 (5'6") | 1490 (4'11") | 1490 (4'11") | 1280 (4'2") | 1800 (5'10") |
| Discharge Height | 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 AS IT SHOULD BE



CHECK OUT TEREX WASHING SYSTEMS
VIDEOS ON YOUTUBE:
www.youtube.com/terexwashingsystems



TEREX WASHING SYSTEMS

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