

# FM 200 BW



## FEATURES

- Static sand recovery unit on one chassis
- Double bucket wheel
- Centrifugal slurry pump
- Twin Hydrocyclones
- Collection tank
- 14 x 6 dewatering screen
- Produce one or two grades of sand
- Designed to work in conjunction with Terex Washing Systems range

**WORKS FOR YOU.™**

## FEATURES AND BENEFITS

- Underflow rubber lined slurry pump
- Double bucket wheel with variable speed control
- Two rubber lined hydrocyclone which classifies at approximately 75µm (200 mesh)
- Self regulating cyclone tank complete with built in float system and anti-turbulence sections
- High frequency 14 x 6 dewatering screen fitted with polyurethane modular mats
- Weir discharge system which reduces the volume of fines entering the Cyclone collection tank
- Collapsible bucket wheel tank for easy transport
- Bucket wheel performs 80-90% of the work. This keeps the pump and cyclone size to a minimum
- Reduced pump and cyclone wear
- Reduced overall power requirements
- Reduced running costs
- Maximum recovery of material above 75µm (200 mesh)
- Removes silt, slimes and clays below 75µm (200 mesh)
- Removes water following dewatering operation to 10–15% of residual water content
- Major reduction in saleable material discharging to the pond, thus reducing pond maintenance and saving money
- Heavy-duty robust construction ideal for rugged operating environment
- Low maintenance
- All wear areas rubber lined
- Galvanised walkway and access steps
- Quick assembly time
- Approx 120-200 tph

## 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

## TYPICAL WATER CONSUMPTION

- 300m<sup>3</sup> Hr

## SPECIFICATIONS

### TECHNICAL DIMENSIONS

<b>WORKING LENGTH</b>	8.6m (28' 2")
<b>WORKING WIDTH (INC WALKWAY)</b>	4.6m (15' 1")
<b>WORKING HEIGHT</b>	7.3m (2' 4")
<b>FEED HEIGHT</b>	3.10m (10' 2")
<b>PRODUCT DISCHARGE HEIGHT</b>	1.69m (5' 5")
<b>WASTE WATER DISCHARGE</b>	1.15m (3' 10")
<b>TOTAL WEIGHT(EMPTY)</b>	17000kg (37500lb)
<b>TOTAL WEIGHT(WORKING)</b>	29000kg (64000lb)



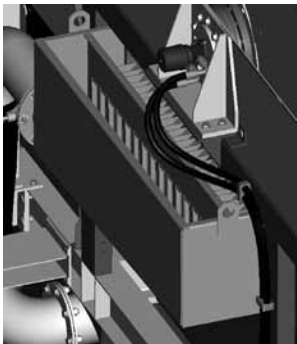
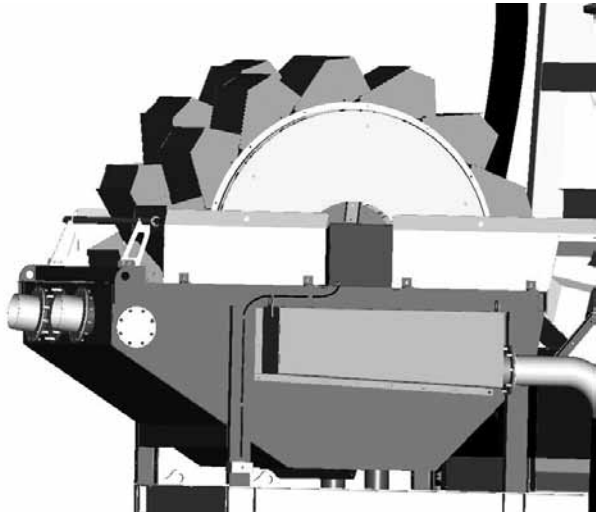
### OPTIONS

- Galvanised structure
- Bolt on boiler box
- Control panel
- Dewatering screen spraybars
- Adjustable blending chute

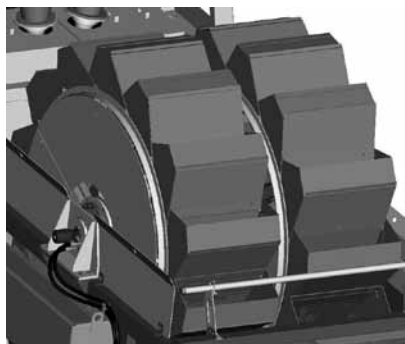


## BUCKET WHEEL

<b>BUCKETS</b>	28 off (double grade )
<b>BUCKET VOLUME</b>	0.117m <sup>3</sup> (each)
<b>DIAMETER</b>	2.6m (8ft 6ins)
<b>WIDTH</b>	750mm (30ins)
<b>BUCKET SPEED</b>	0–125 rpm
<b>POWER PACK</b>	7.5kW (10hp)



Weir discharge system



Twin buckets allows for two final products



Integrated electric powerpack for bucket wheel speed adjustment



Anti-turbulence inlets in bucket tank

## CYCLONE

Two G4 500 hydrocyclones

Spigot discharge

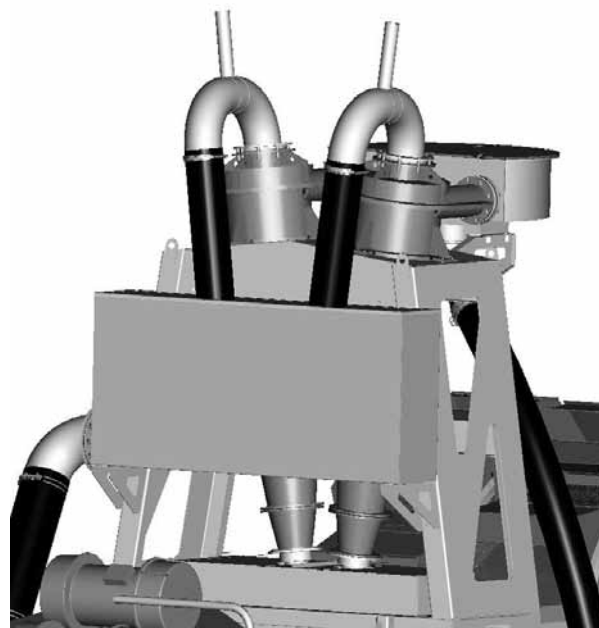
All wear areas rubber lined

Pump capacity 300m<sup>3</sup>

Underflow collection box

Pressure flange with pressure gauge and protector

250mm (10") rubber lined slurry delivery hose



Rubber lined sealed slurry transfer pipe complete with heavy duty clamps



Rubber lined spigot



Movable chute to allocate fine material to the coarse product

# CENTRIFUGAL PUMP

Size 200/150mm (Heavy duty rubber lined)

Motor 30kW (40hp) (IP55 enclosure)

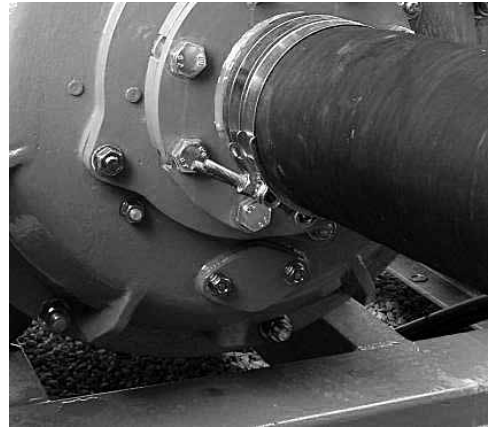
Max working pressure 6 bar

Typical flow rate 300m<sup>3</sup> (1100 GPM)

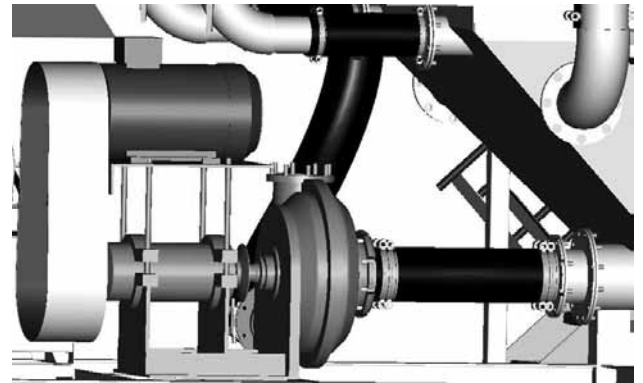
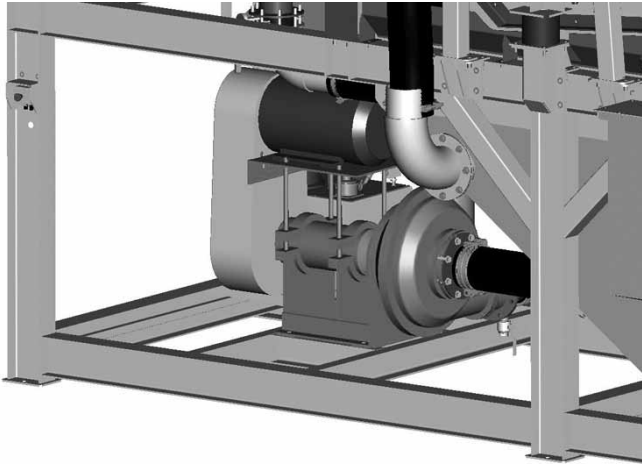
Abrasion resistant liners

Moulded rubber impeller

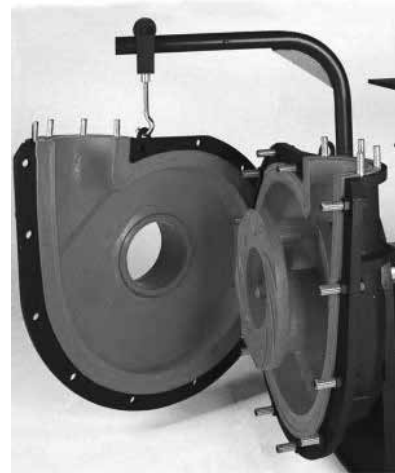
Excellent serviceability



Pump drain for cold climate applications



Easy access for ease of maintenance



Fully rubber lined for increased wear life

# DEWATERING SCREEN

4.3m x 1.8m (14' x 6')

Vibratory motors 6.6kW (8.5hp) (2off) 960 rpm

Screen aperture 0.5mm

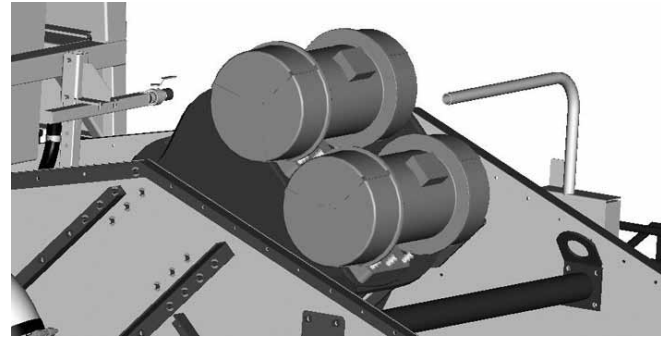
Exceptional dewatering performance

Modular screen decks

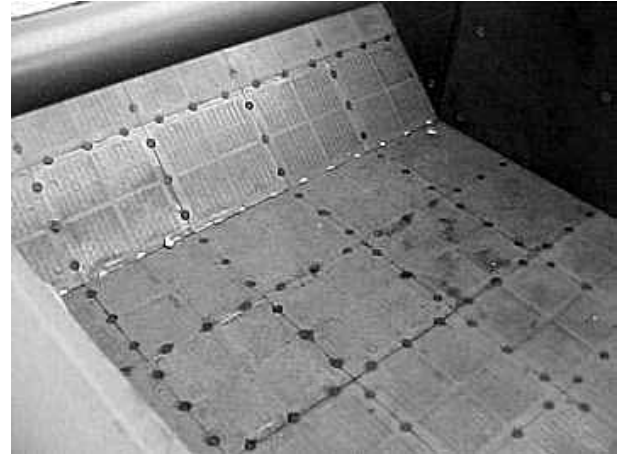
Side protection liners

Marshmellow® screen mounts for smoother running

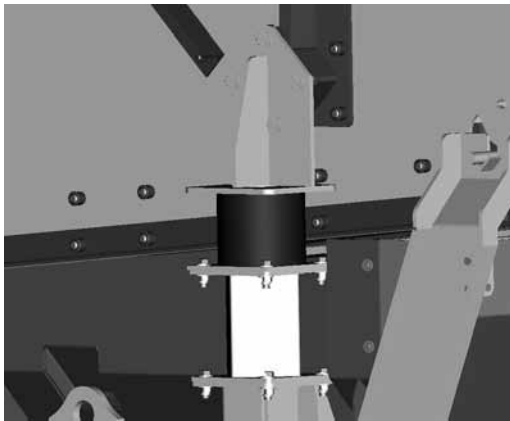
Plastic lined discharge chute



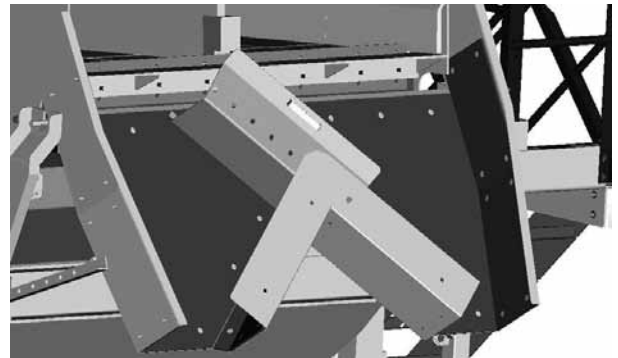
Low noise vibrating motor



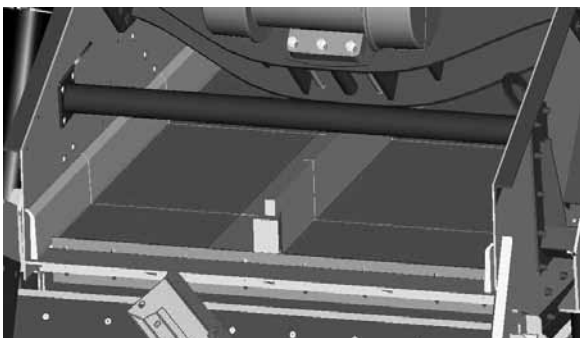
0.5mm discharge panels fitted to screen



High efficiency rubber screen mount for minimal vibration



Plastic lined chute



Division plate to allow dual grade product

# CHASSIS

Self regulating cyclone tank complete with built in float system

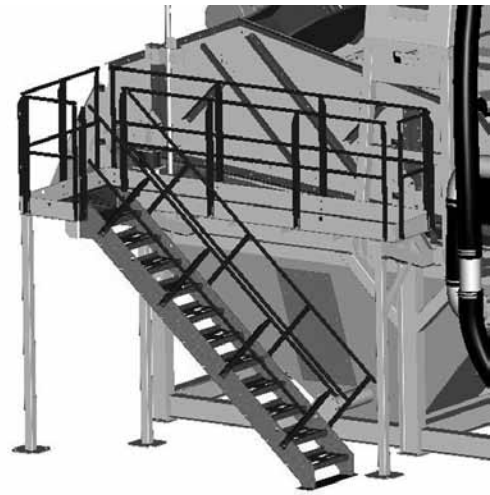
Build in anti-turbulence sections

Heavy duty steel construction

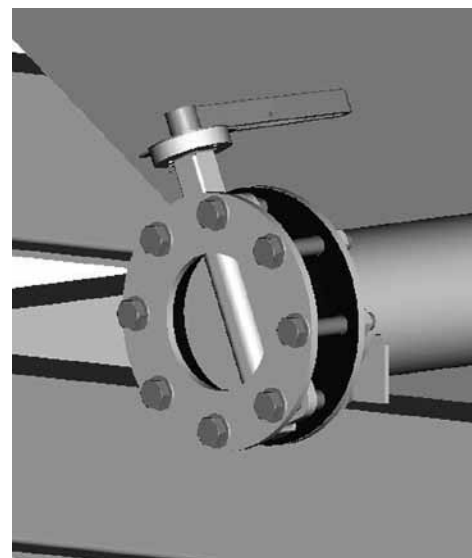
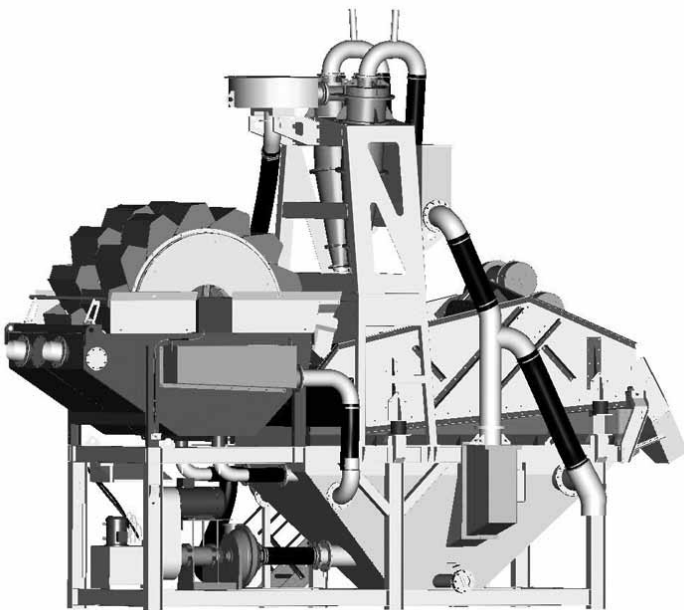
Easy access to serviceable areas

Can be broke down into sections and transported in containers

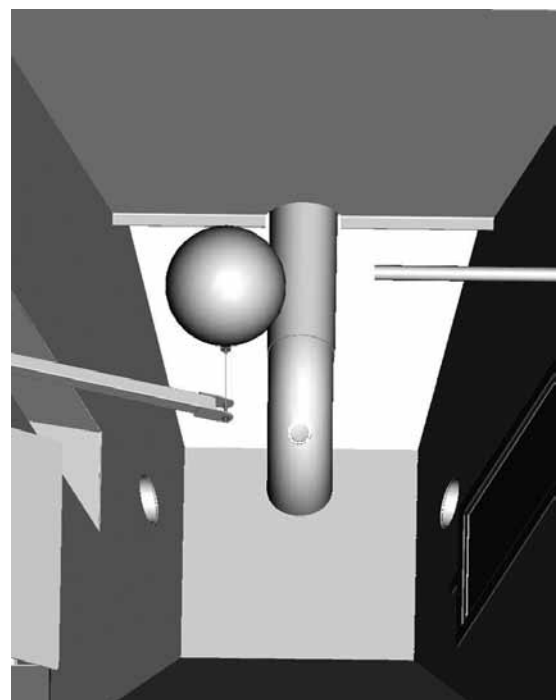
Walkway and steps for ease of maintenance



Walkway and steps for ease of maintenance



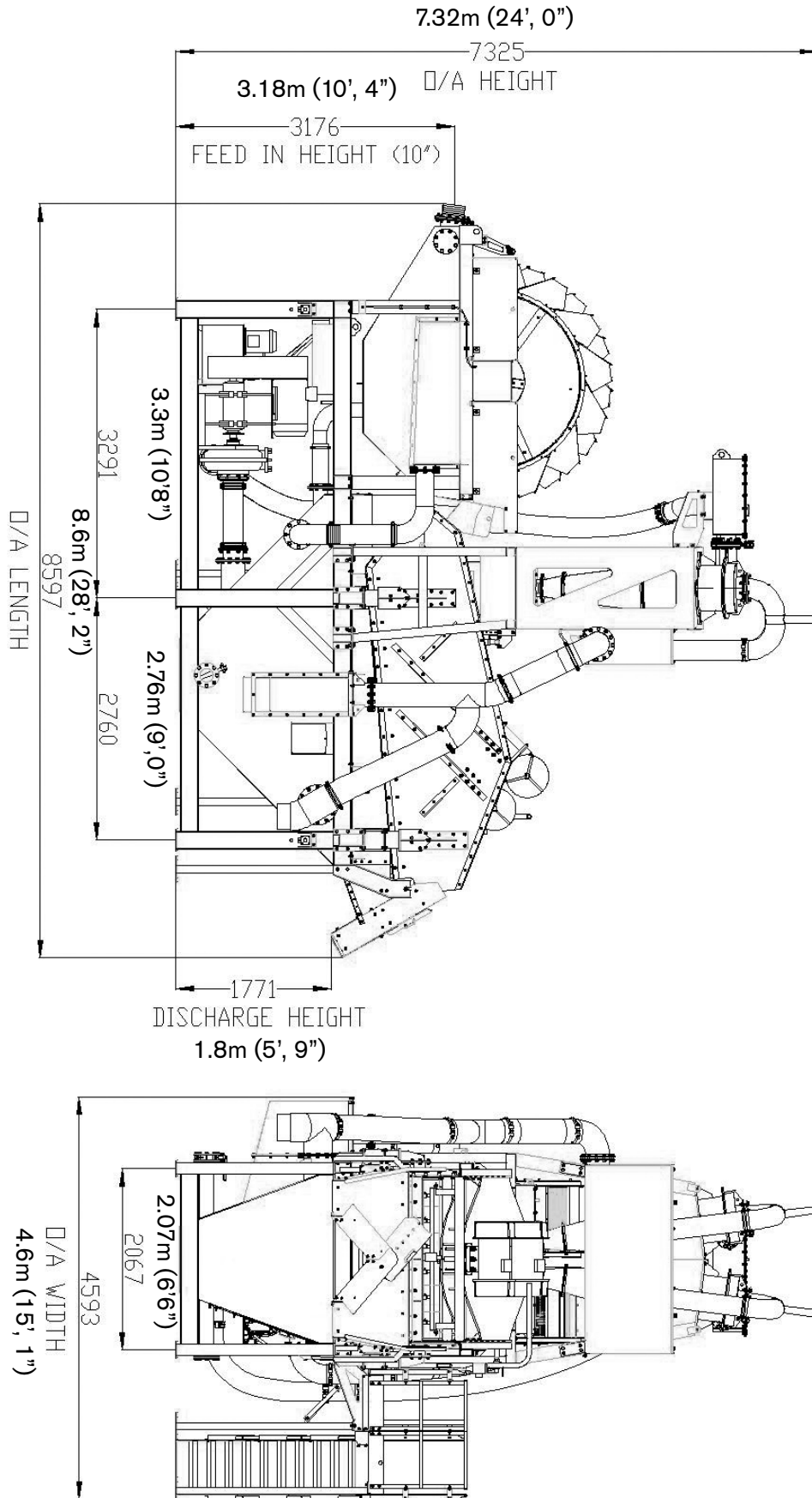
Integrated tank drains for ease of maintenance



Float system for self regulation of tank water level

# DIMENSIONS

## FM 200 BW - WORKING DIMENSIONS



## TEREX WASHING SYSTEMS CONTACT DETAILS

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