

# FM **PENTIUM**<sup>™</sup> RANGE



Wash one grade of sand  
and one aggregate on a  
single chassis with the  
FM Pentium<sup>™</sup>

AGGREGATES



RECYCLING



INDUSTRIAL SANDS



MINING



The FM Pentium™ range is a static sand and aggregate washing unit. On a single chassis it can produce one sand and one aggregate. The FM Pentium takes the success of the Fines Master range and builds upon it with its increased production and versatility. The range combines a collection tank, centrifugal slurry pump, hydrocyclone(s) and a dewatering screen. With a feed rate of up to 150tph of pre-screened material the FM Pentium has the ability to produce up to 120tph washed sand.

✓ Two washed products from one machine

✓ Compact footprint with quick installation

✓ Easily integrated into Terex Washing Systems Aquaclear Water Treatment range

- Full-width bottom deck for maximum screening performance
- Linear motion, high frequency dewatering screen delivering superior moisture reduction
- Marshmallow vibration isolation screen mountings

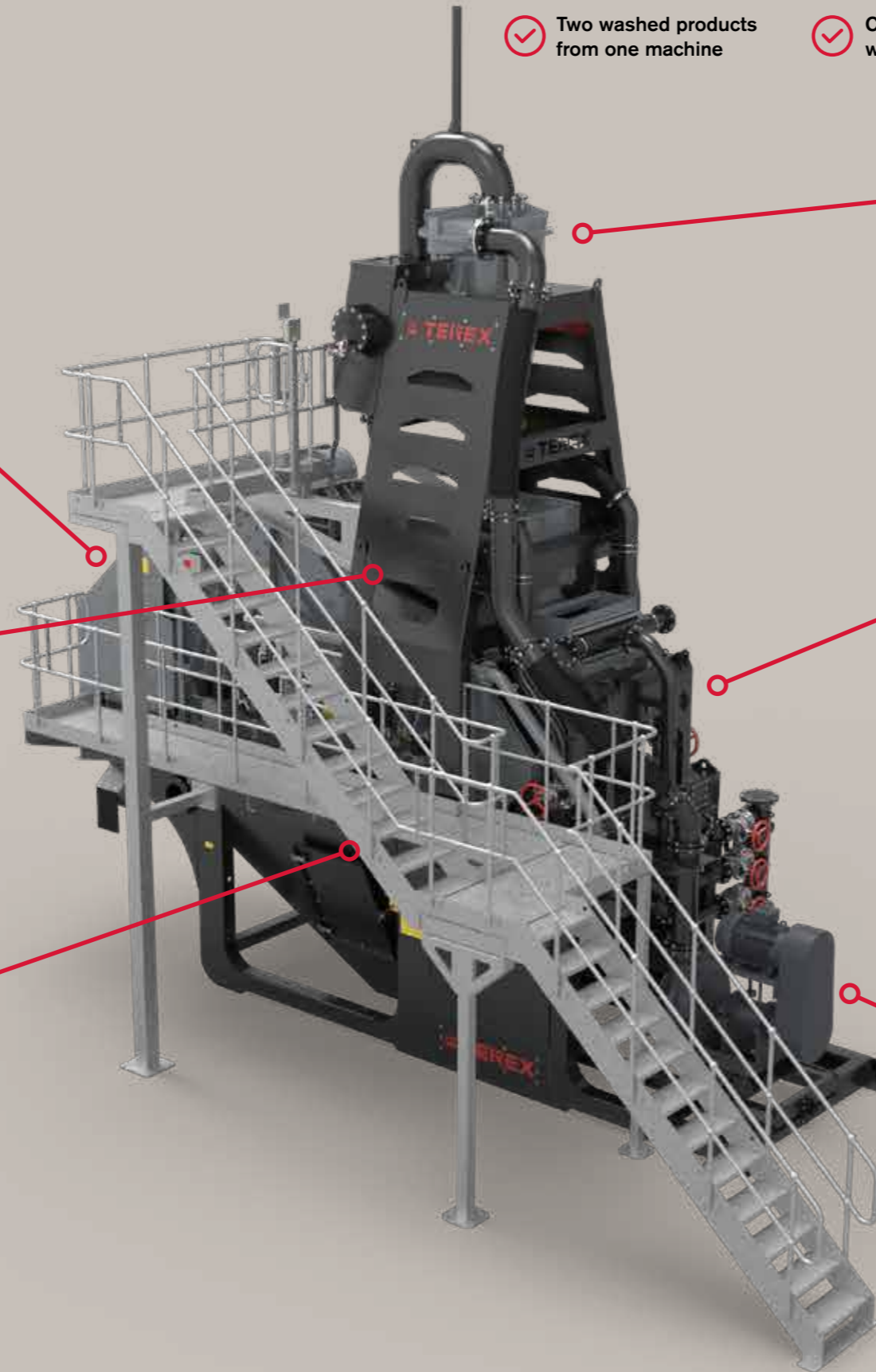
- Full-width modular polyurethane dewatering media for quick change outs
- Polyurethane side modules for increased screen protection
- Low friction discharge chutes with angle adjustments

- Fully galvanised walkways allowing comprehensive access to the plant
- Raised chassis design for machine wash down

- Linatex rubber-lined high efficiency hydrocyclones provides maximum silt and clay (minus 63µm) removal from the final product
- Replaceable drop in liners
- Available with standard hydrocyclones or selected models can have HK separators

- All slurry pipework is rubber lined for maximum wear life
- Available wired to isolators or with an optional control panel
- with option to upgrade for controlling up to 2 stockpile conveyors
- E-stops located all around the plant for safe operation

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





### APPLICATIONS

The FM Pentium™ range can produce up to two sands or one sand & one aggregate 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
- Manufactured sands



### COMPONENTS

The FM Pentium™ range share the following features:

#### CYCLONE

- Application specific sizes depending on product requirements
- Lined with Linatex rubber
- Fully lined underflow collection box
- Pressure flange with gauge and protector



#### CENTRIFUGAL PUMPS

- Sized to suit your needs, with numerous combinations of pump and motors
- Abrasion resistant Linatex rubber liners
- Moulded Linatex rubber propellers
- Pump drain for cold climate applications
- Excellent serviceability



#### OPTIONS:

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

- Electrical control panels with starters for product conveyors
- Dewatering screen spray bars
- Upgrade to C Type and HK separators

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



## CHASSIS

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



## ACCESS

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

## DEWATERING SCREEN

- Exceptional dewatering performance
- Standard 12x5 screen
- 2 x vibratory motors
- Polyurethane modules and side protection
- Polyurethane low friction chute liners
- Marshmallow screen mounts for smoother running



# TWO WASHED PRODUCTS FROM ONE MACHINE

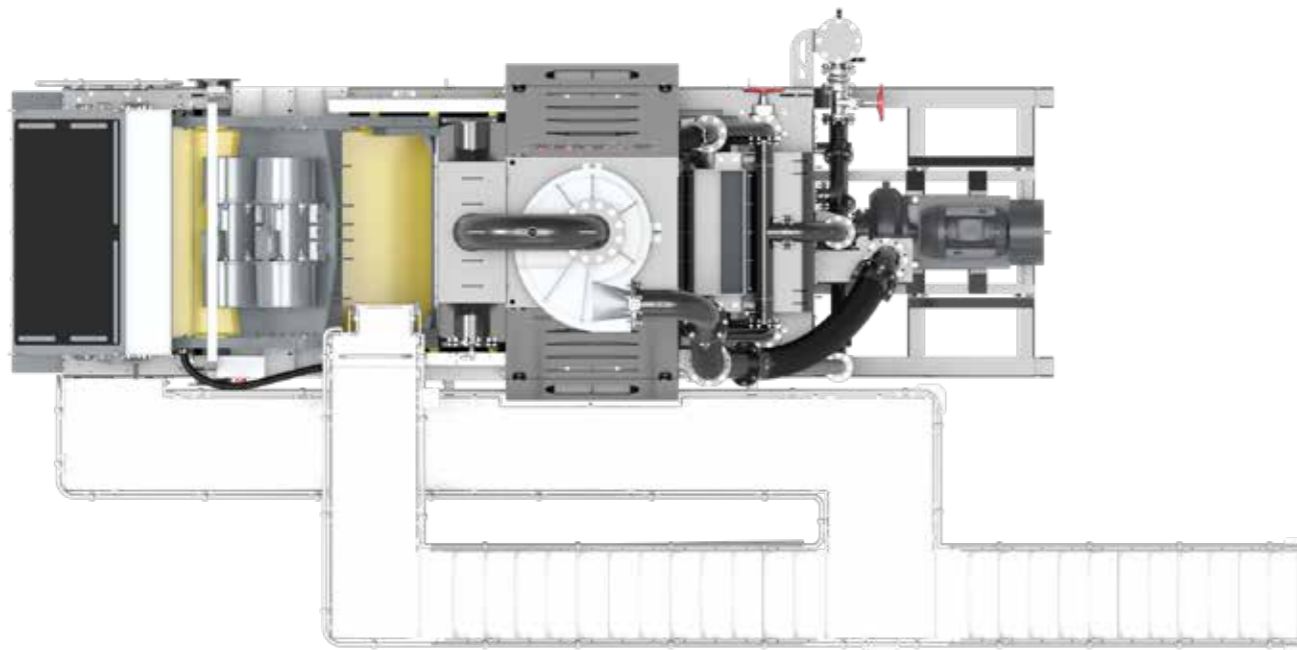


# FM PENTIUM™ RANGE

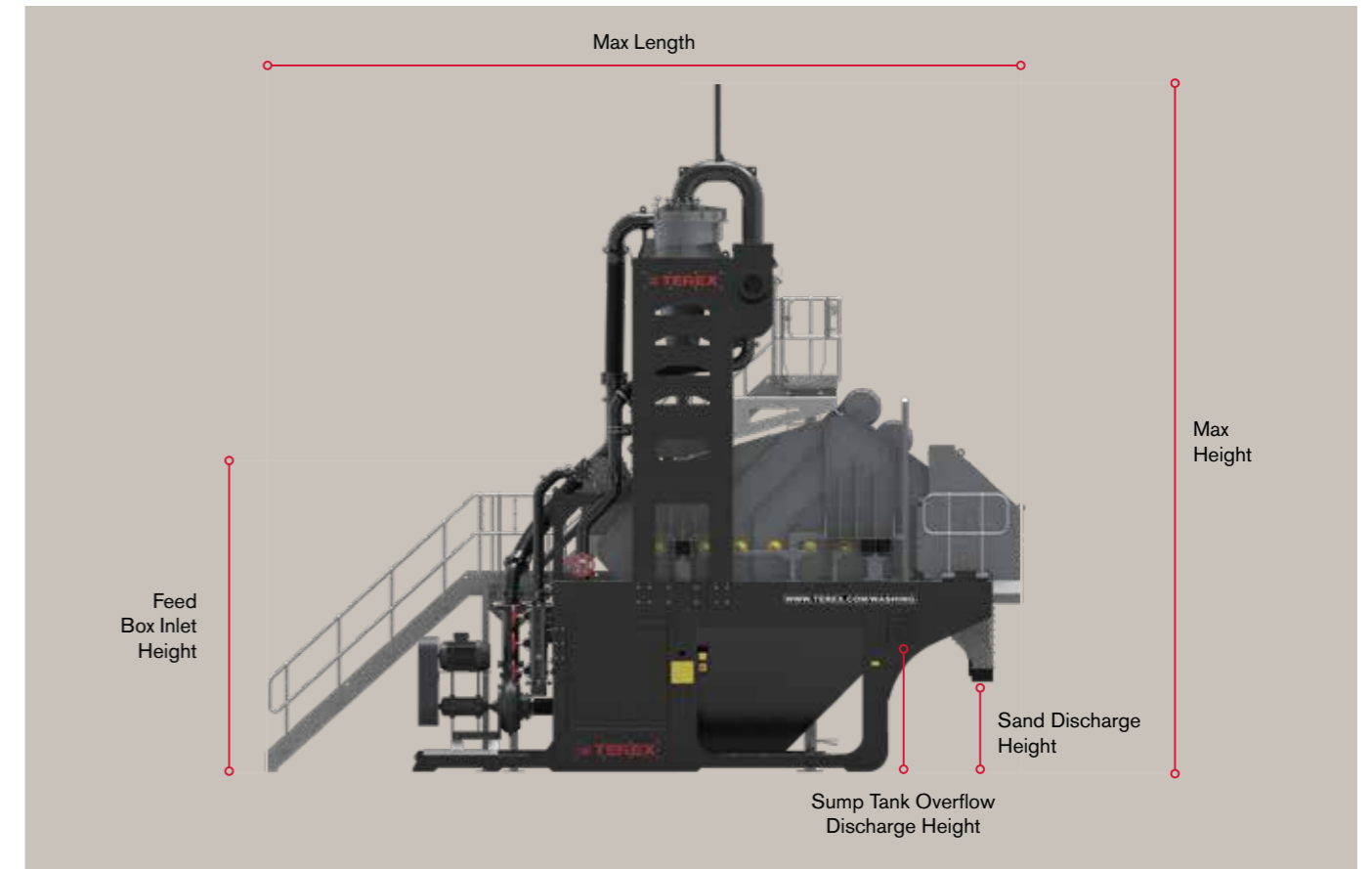
## TECHNICAL SPECIFICATION

Machine Model	FM Pentium
Feed rate	150tph*
Typical water consumption (m³/hr)	100-280m³/hr (Depending on cyclone selection)
Dewatering Screen (m [ft])	3.7 x 1.5 [12 x 5]
Sizing screen (m [ft])	3.7 x 1.5 [12 x 5]
Screen motors	2 x 10kW
Hydrocyclone (mm)	500 or 660
Pumps	200/150 or 250/200 pump option
Total Power (kW [hp])	Varying from 50 - 65kW depending on machine configuration

\*Feed rate and sand production depend on PSD of feed material



## DIMENSIONS WORKING



Machine Model	FM Pentium
Max Height	8.9 (29' 1")
Max Length	9.8 (32')
Max Width	4.8 (15' 11")
Feed Box Inlet Height	4 (13' 3')
Sump Tank Overflow Discharge Height	1.8 (5' 11")
Sand Discharge Height	1.2 (3' 9")
Total weight (kg) (empty)	20250

Units: Metric [Imperial].

## TRANSPORT

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

Machine Model	FM PENTIUM™
Container requirement	1 x 40ft High Cube & 1 x 40ft Standard



# FM PENTIUM™ RANGE







**WASHING AS IT SHOULD BE**



CHECK OUT TEREX WASHING SYSTEMS  
VIDEOS ON YOUTUBE:  
[www.youtube.com/terexwashingsystems](http://www.youtube.com/terexwashingsystems)



## **TEREX WASHING SYSTEMS**

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