

***FINESMASTER 120 COMPACT TWO PRODUCT
Technical Specification***



**INTRODUCING THE
FINESMASTER 120 COMPACT
TWO PRODUCT
TECHNICAL SPECIFICATION**



All specifications subject to change without prior notice.

FINESMASTER 120 COMPACT TWO PRODUCT

Technical Specification

The Powerscreen Finesmaster 120 compact is a static sand recovery unit. It brings together on one chassis, two centrifugal slurry pumps, two hydrocyclones, a collection tank and a split 12x5 dewatering screen.

It can produce two grades of sand and is designed to work in conjunction with the Powerscreen Washing range.

Features

- Underflow rubber lined slurry pumps.
- Two rubber lined hydrocyclone's which classifies at approximately 75 µm (200 mesh).
- Self regulating cyclone tank complete with built in float system and Anti-turbulence sections.
- High frequency split 12x5 dewatering screen fitted with polyurethane modular mats

Advantages

- Maximum recovery of all material above 75 µm (200 mesh).
- Removes silt, slimes and clays below 75 µm (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
- Walkway and access ladder
- Quick assembly time
- Breaks down into one 40' (12m) container

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.

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Technical dimensions



- Length 7.58 m (24'10")
- Width(Incl Walkway) 3.68 m (12'1")
- Height 6.57 m (21'7")

- Feed height 1.95 m (6'5")
- Product discharge height 1.91 m (6'3")
- Waste water discharge height 4.11 m (13'5")
- Overflow Discharge Height 1.68 m (5'6")

- Total weight(Empty) 15000 kg (33000 lb)
- Total weight(Working) 28300 kg (62390 lb)

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Cyclones



- One 24" (610mm) Hydrocyclone (Course)
- One 15" (380mm) Hydrocyclone (Fine)
- Spigot discharge
- All wear areas rubber lined
- Underflow collection box
- Pressure flange with pressure gauge and protector
- 150mm (6") rubber lined slurry delivery hose (Course cyclone)
- 125mm (5") rubber lined slurry delivery hose (Fine cyclone)



Extended fines cyclone for maximum fines retention



Rubber lined spigot



Movable chute to allocate fine material to the coarse product



Specialized rubber lined sealed slurry transfer pipe complete with heavy duty clamps

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Centrifugal Pumps



Fines cyclone

- Size 150/125mm (Heavy duty rubber lined)
- Motor 15kw (20hp) (IP55 enclosure)
- Abrasion resistant liners
- Molded rubber impeller
- Excellent serviceability

Course cyclone

- Size 200/150mm (Heavy duty rubber lined)
- Motor 18.5kw (24hp) (IP55 enclosure)
- Abrasion resistant liners
- Molded rubber impeller
- Excellent serviceability



Pump drain for cold climate applications



Easy access for ease of maintenance



Fully rubber lined for increased wear life

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Chassis



- Self regulating cyclone tank complete with built in float system
- Build in Anti-turbulence sections
- Split two product tank
- Heavy duty steel construction
- Easy access to all serviceable areas
- Walkway with steps and handrails



Rubber lined Anti-turbulence inlet



Integrated Tank Drains for ease of Maintenance



Float system for self regulation of tank water level



Fines side excess silt overflow weir



Walkway, steps and handrails included standard with all machines

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Dewatering Screen



- Size 3.8m x 1.5m (12' x 5')
- Vibratory Motors 4kw (5.5hp)(2off) 960 rpm
- Screen Aperture 0.3mm feed side & 0.5mm discharge side
- Exceptional dewatering performance
- Modular screen decks
- Side protection liners
- Marsh mellow screen mounts for smoother running
- Lined discharge chute
- Rubber lined division plate



Adjustable division plate with modular screen decks and side protection liners



Sloped back panel for maximum water removal



Integrated rubber lined dual chute with blending facility

Low Noise vibrating motor

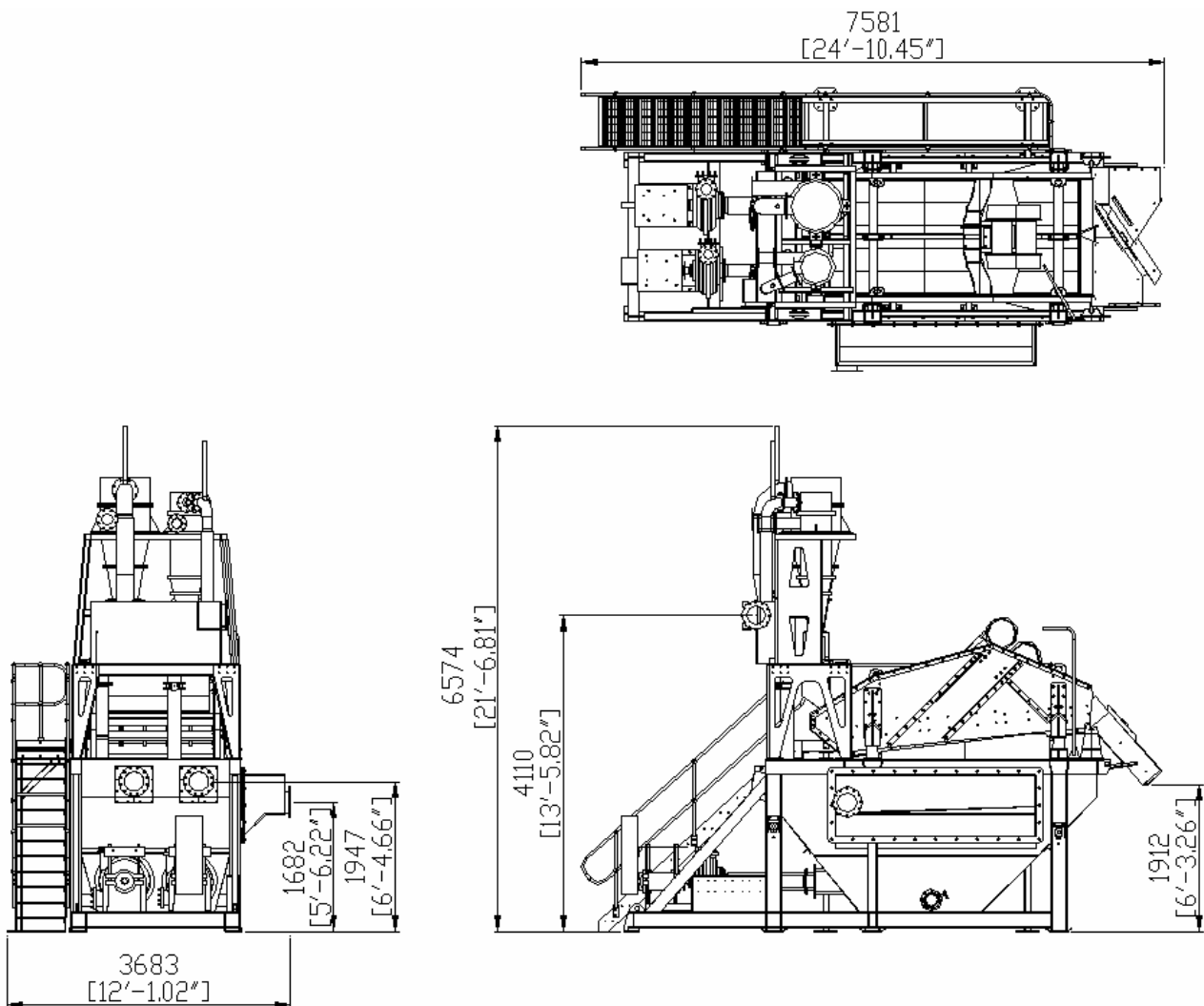


High efficiency rubber screen mount for minimal vibration

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FINESMASTER 120 COMPACT TWO PRODUCT – WORKING DIMENSIONS

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