

**MARK II**  
*Technical Specification*



**INTRODUCING THE  
MARK II RINSER  
TECHNICAL SPECIFICATION**



All specifications subject to change without prior notice.

## **MARK II**

### **Technical Specification**

The Powerscreen Mark 2 is a mobile screening plant and can maintain a maximum throughput of up to 250 Tons (280 US Tons) per hour.

The machine consists of a feeder (this can be either beltfeeder or trayfeeder), a main conveyor and a two deck screen unit.

#### **Features**

• Towing/working length :-	16.6 m	(54'6")
• Width :-	2.5 m	(8'2")
• Working Height :-	5.6 m	(18' 5")
• Grid Area :-	1.6 m x 3.0 m	(5' 3" x 10')
• Approx. Weight :-	8,900 kg	(9.81 lbs)
• Hopper Capacity Beltfeeder:-	5.3 m <sup>3</sup>	(6.95 yd <sup>3</sup> )
• Hopper Capacity Trayfeeder:-	4.9 m <sup>3</sup>	(6.4 yd <sup>3</sup> )
• (including grid):-		
• Hydraulic System Capacity :-	182 litres	(40 gals)
• Diesel Tank Capacity :-	73 litres	(16 gals)
• Engine Size :- Standard	27.5kW (37 Hp)	
Shredder	37kW (50 Hp)	

#### **Advantages**

- High capacity, up to 150-200 TPH, (depending on mesh sizes and material type).
- Maximum mobility with fifth wheel, jacking legs, road wheels, brakes.
- Optional remote control tipping grid.

#### **Applications**

- Sand and gravel
- Topsoil
- Coal
- Crushed stone
- Recycling

#### **Options**

- Hydraulic tipping grid
- Hopper Extensions
- Adjustable hopper door
- Shredder
- 3 Deck Rinser

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#### ***Hopper & Grid:***



- Adjustable angle tipping grid with integral loading, wing plates and self cleaning grid bars.
- Grid opening 1.6 m x 3.0 m (5' 3" x 10')
- Grid aperture: 102mm (4") or 150mm (6")
- Hopper Capacity Trayfeeder:- 4.9 m<sup>3</sup> (6.4 yd<sup>3</sup>) including grid
- The hopper may be fitted with a manually tipped reject grid which is normally set at 100 mm (4" ) aperture.

#### ***Shredder:***

- Optional, single shaft, flail type shredder designed for use in top soil applications.

#### ***Feed Conveyor:***



- A reciprocating tray feed model complete with towbar . The feeder tray is driven via a chain /sprocket arrangement from the main conveyor bottom drum - this synchronises reciprocating action with main conveyor belt speed.

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- Conveyor Belt :- 2 ply x 650 mm (25.5") wide
- Drums outside diameter :- 273 mm (10.75")
- Drum centres :- 2.8 m (9.3")
- Max Feeder Conveyor Belt Speed:- 20 m/min (empty)
- Drum speed variation 0-24 rpm

### **Main Conveyor:**



- 650mm (26") wide conveyor with 30° roller to prevent spillage
- Conveyor Belt :- 2 ply x 650 mm (25.5") wide
- Drums outside diameter :- 273 mm (10.75")
- Drum centres :- 12 m (40')
- Drum speed            -empty -            125 RPM  
                                  -full-                115 RPM
- Conveyor Belt speed -empty-            107 m/min (351ft/min)  
                                  -full-                100 m/min (328 ft/min)

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#### **Standard Powerunit & Hydraulics:**



- Standard Diesel engine: developing 41kw (55Hp) at 2200rpm
- Flywheel pump1: 70cc/rev each circuit
- Feeder Motor: 315 cc/rev
- Main conveyor Motor: 400 cc/rev
- Screen Motor: 146 cc/rev
- Single shaft shredder 146 cc/rev
- 

**All pumps are cast iron. Flywheel pumps have clockwise rotation**

*A & B PTO pumps have anticlockwise rotation*

#### **Tank Capacities:**

- Hydraulic tank: 182 litres (40 gals)
- Diesel tank: 73 litres (16 gals)

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#### **Road Transport:**



- Wheels: 7.50 x 16 x 16 ply
- Lateral Protection: Optional extra.
- Lights: Optional extra.
- Hydraulic jacking legs to decrease set-up time
- 5th wheel kingpin

#### **10x5 & 12x5 Rinser Screenunit**



- 8' x 4' (2.4 x 1.2m) double deck, 4 bearing, free floating screen box
- 8' x 4' (2.4 x 1.2m) triple deck, 4 bearing, free floating screen box (Optional)
- Side tension mesh.
- 5 top deck & 5 bottom deck spray bars.
- Wash box c/w spray bar
- 100mm (4") water feed pipe
- Part rinser

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#### **Catch box :**



One grade or two grades of sand can be produced.  
Fixed division plate  
2 8" outlet  
Single or Double grade catch box with option rubber lining

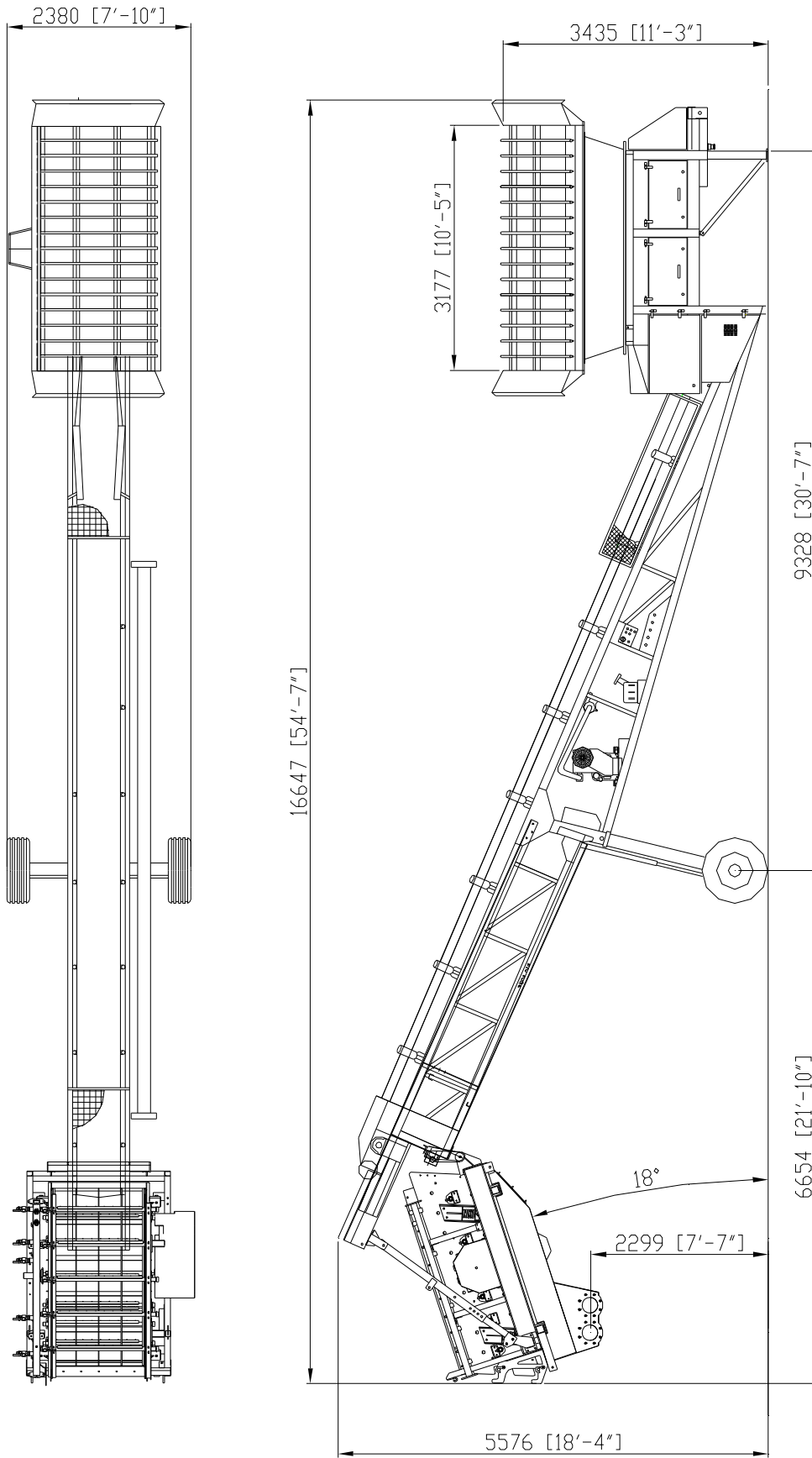
#### **Wash box:**



5 nozzle spray bar.  
Feed Conveyor Belt Scraper  
Steel wear Plate

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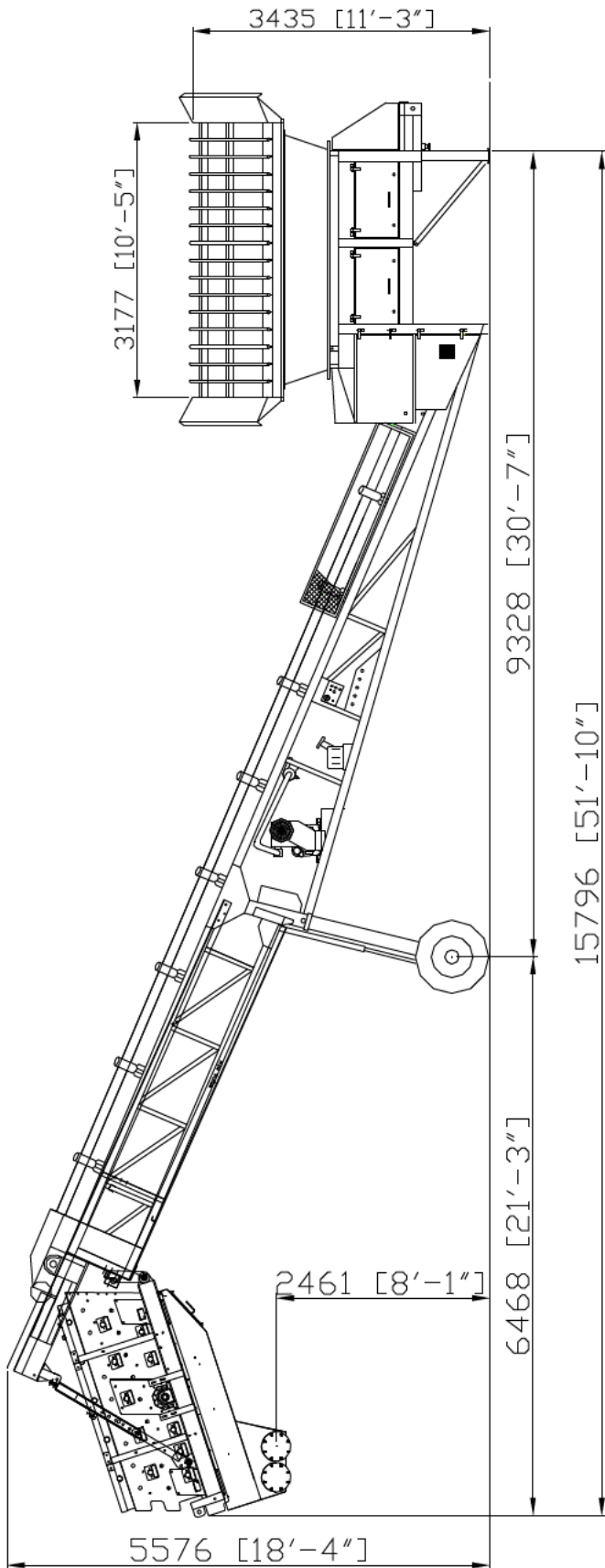
**MARK2 2 DECK WORKING**

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# MARK II

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MARK2 3 DECK WORKING

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