



Application

For washing and screening of iron ore, aggregates, river gravels, manufactured sand, etc., for removal of silt, excessive fine materials, other impurities and to improve quality of product. Feed to Screening Plant from Mobile Belt Feeder Unit, Model WF1200

Salient Features

- Horizontal Screen 1500 x 4900 mm – 2 Deck with 3 Shaft design.
- Screen Drive (30 KW) Motor, 3-Speed Operation flexibility.
- Horizontal Screen with variable settings of amplitude and throw angle to suit different material requirements.
- Low height Plant design with Horizontal Screen installation.]
- Washing System on both decks with controlled water flow system and high efficiency spray nozzles for washing of material on Top Deck and Bottom Deck.
- Water spray system and piping details suitable for 1,35,000 lph at 40 psi.
- Washed material from Top Deck and Bottom Deck fed to Stand Alone product Belt Conveyors.
- Additional water supply in under screen Hopper to assist in flow of fines material to Screw Washer.
- Inclined Fine Material Washer mounted on chassis under Horizontal Screen.
- Fine Material Washer, 915 mm dia., 7600 mm long at 18° inclination with wear resistant bolted and replaceable liners on screw flights.
- Large 3-Stage Gear Box and outboard lower bearings assembly ensures long operation life and easy maintenance of Screw Washer.
- Additional Water supply System in Screw Washer to control adequate material current speeds and turbulence, mixing of clay content and impurities in overflow water and for removal of micron size particles from system.

Mobile Washing Plant

Operating Principle

Feed material enters the feed box and is distributed into the washer's settling pool. Internal and external baffles control the feed velocity and limit water current speeds and turbulence, enabling the washers to retain fines. Lighter products such as silt, excessively fine material, and other deleterious materials do not have time to settle and are carried away with the water over the long, adjustable side and end weirs.

The settled material is augured up the washers by the spiral flights. Additional cleaning takes place by the abrading action of the material fractions. Excess water is drained back to the pooling area as the material is conveyed up and out the upper end of the trough.

Features

- Extreme Duty Gear Box
- Heavy Walled Auger Shaft
- Rising Current System
- Cast Wear shoes on flights
- Adjustable Weirs for water overflow
- Feed size up to 10 mm
- Capacity up to 100 TPH in Fine Material Washer

Specifications

Horizontal Screen	1500 x 4900 mm
Screw Motor Rating	30 KW, 1500 rpm
Number of Decks	Two
Water Spray System	Spray Nozzles on both Decks Auxiliary Water Feed System in Under Screen Discharge Hopper
Screw Washer	Single Heavy Duty Screw 915 mm x 7600 mm long with Cast Shoes, Heavy Duty Gear Box Drive, Adjustable Side and End Weirs
Chassis Frame	Heavy Duty Chassis with Double Axle walkways and ladders on both sides. Electrical Panel and Cables for all Drives and Safety Controls.
Capacity	200 – 250 TPH Plant capacity with 100 TPH of Fines Screw Washer capacity.
Screw Speed	21 rpm
Total Installed Load	41 KW



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