

MSC Hydrascrew 100



Specifications

Sand Screw Classifier



MSC Hydrascrew 100



Description

The Hydrascrew 100 has three related functions: washing, dewatering, and classification.

- **Washing is the primary function** and is accomplished by the continuous rotation of the conveyor shaft and the velocity of the overflowing waste water acting on the feed material. The rotating shaft causes the feed material to roll and tumble, which in turn provides particle on particle attrition. This action allows deleterious coatings to be removed from the sand product and discharged with the overflowing waste water.
- **De-watering is the secondary function** and is achieved by conveying the product up an inclined tub to allow the free water to drain from the material. This is accomplished with the use of a close-clearance curved plate on one side of the conveyor shaft and a drainage trough on the other side. Water is allowed to drain from the product as spiralled shaft augers material up the inclined curved plate. This process results in a drier final product that allows for more saleable product and less water!!
- **Classification is the third function** and is achieved by adjusting the volume of water over the adjustable-height weirs. For maximum material retention, the washer's three adjustable weirs are set level to provide a low overflow velocity. For coarser mesh hydraulic splits, the adjustable-height weirs are offset to provide a higher overflow velocity.

Specifications

Screw diameter	915mm
Tub length	7,585mm
Maximum material size	10mm
Maximum capacity	Up to 100 TPH
Screw speed (Electric drive)	21 RPM
Screw speed (Hydraulic drive)	0 - 21 RPM
Water required	160 – 1300 LPM

Gear Reducer

Make	Gator
Type	Oil bath lubrication
Gears	Heavy-duty design with heat-treated helical gears
Bearings	High quality taper roller bearings
Reduction ratio	Triple reduction gearing allows 68 - 1

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Screw Shaft

Type	Extra thick one piece shaft tubing
Flights	Helical spiral segments
Wear shoes	Replaceable Ni-Hard wear shoes standard
Tail bearing	Spherical-roller rear grease bearing
Tail shaft	Replaceable retaining ring and shaft

Power Options

Electric drive	11Kw - 3 phase motor
Hydraulic drive (Variable speed)	Casappa 28R 0-76 LPM 2500PSI

Dimensions & Weights

Length (Working & Transport)	9.00 metres
Width (Working & Transport)	2.90 metres
Height (Working & Transport)	3.10 metres
Weight	6,750 kg

Inlet & Outlet Connections

Main water inlet – 4” BSP female
Optional water inlet at discharge end – 2” BSP female
Weir outlet – 180mm NB

Options

Mine spec guarding
Specific paint colour
Static version for fixed installation
Diesel/hydraulic power pack

Contact:

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