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Specialist equipment to separate solids from liquids worldwide

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SS150DP DESANDER

The SS150DP is a compact high-performance desander with integral discharge pump, for use as a primary mud cleaner for civil engineering applications, including but not limited to piling & directional drilling. Featuring a heavy-duty double-deck shaker with scalping screens, and 2 No. 10" hyrdocyclones, the SS150DP will process flow rates of up to 150m³/hr and will separate coarse and medium sized sands. The SS150DP is designed to work alongside one of PSD's high-performance desilters such as an SU8DP.

TECHNICAL DATA

Maximum fluid throughput capacity:	150m³/hr (of slurry having a Marsh Funnel viscosity of less than 70 seconds per U.S. Quart).
Maximum solids removal rate:	25t/hr
Separation stage 1:	Dirty fluid is fed onto the bottom deck scalping screen of the shaker, for the separation of gravels, large pieces of timber and cohesive clay balls etc.
Separation stage 2:	2 No. 10" diameter desanding hydrocylones, with the underflow partially dewatered by the top deck of the shaker, for the separation of fine gravels and coarse/medium sands.
Shaker:	Linear motion, partially inclined, double deck shaker with scalping screen and flood screen. Adjustable solids discharge weirs for controlling the flow of solids. Mounted on isolation springs.
Shaker bottom deck screens:	1 No. In-flow 6mm aperture stainless steel wedge wire screen & 2 No. 8.2x8.2mm aperture polyurethane screens. Total screen area: 1.62m² (0.9m wide by 1.8m long)
Shaker top deck screens:	3 No. 0.3x12mm slotted aperture polyurethane or 3 No. steel framed 300µ stainless steel, cross flow, wedge wire. Total screen area: 1.62m² (0.9m wide by 1.8m long)
Transport size:	1 No. unit 6058x2438x2591mm (1CC container size), complete with ISO corner castings.
Weight (dry):	11 tonnes total comprising: pump tank at 6 tonnes, shaker module at 5 tonnes.
Operating weight (wet):	Up to 17 tonnes.
Operating size:	3500mm (L) x 2500mm (W) x 5200mm (H), plus staircase if required.
Access to shaker module:	Via external staircase.
Power:	66kW installed power running at 380-415V, 50Hz, 3 phase and earth (no neutral required).
Estimated running current:	87A per phase.
Estimated starting current:	174A per phase.
10" hydrocyclone feed pump:	Metso HM150 centrifugal, with overhead mounted star/delta started 30kW motor.
Discharge pump:	Metso HM150 centrifugal, with overhead mounted, inverter controlled, 30kW motor.
Shaker motors:	2 No. 2.5kW motors with direct-on-line starting.
Noise emission:	72 dB at 5m.

Specification subject to change without notice. E&OE.