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Specialist equipment to separate solids from liquids worldwide

www.solidsseparation.com

SOLIDSMASTER® 250DP DESANDER

The SM250DP 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, diaphragm walling, directional drilling and pipejacking. Featuring a heavy-duty double-deck shaker with scalping screens, and 3 No. 10" hyrdocyclones, the SM250DP will process flow rates of up to 250m³/hr and will separate coarse and medium sized sands. The SM250DP is designed to work alongside one of PSD's high-performance desilters such as an SU300DP.

TECHNICAL DATA

Maximum fluid throughput capacity:	Up to 250m³/hr (of slurry having a Marsh Funnel viscosity of less than 70 seconds per U.S. Quart).
Maximum solids removal rate:	Up to 30t/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:	3 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:	3 No. 8.2x8.2mm aperture polyurethane screens. Total screen area: 2.16m² (1.2m wide by 1.8m long)
Shaker top deck screens:	3 No. steel framed 500µm stainless steel, cross flow, wedge wire. Total screen area: 2.16m² (1.2m wide by 1.8m long)
Transport size:	1 No. unit 6058x2438x2591mm (1CC container size), complete with ISO corner castings.
Weight (dry):	13 tonnes total comprising: pump tank at 7 tonnes, shaker module at 6 tonnes.
Operating weight (wet):	Up to 22 tonnes.
Operating size:	3500mm (L) x 2500mm (W) x 5200mm (H).
Access to shaker module:	Via external staircase.
Power:	81kW installed power running at 380-415V, 50Hz, 3 phase and earth (no neutral required).
Estimated running current:	102A per phase.
Estimated starting current:	226A per phase.
10" hydrocyclone feed pump:	Metso MM200 centrifugal, with overhead mounted star/delta started 45kW motor.
Discharge pump:	Metso MM200 centrifugal, with overhead mounted, inverter controlled, 30kW motor.
Shaker motors:	2 No. 4.5kW motors with direct-on-line starting.
Noise emission:	72 dB at 5m.

Specification subject to change without notice. E&OE.