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Specialist equipment to separate solids from liquids worldwide

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SU300DP DESILTER

The SU300DP is a high-performance, high-capacity, single-stage compact desilter with an integral discharge pump. It is designed for the efficient removal of fine solids, helping to extend the life of drilling fluids, and can work online, downstream of desanding equipment, or offline, to further clean pre-screened fluid. The SU300DP and can be used in a wide variety of applications in the civil engineering industry, including but not limited to, HDD, diaphragm walling, tunnelling and piling. Featuring 12 No. long-bodied desilting hydrocyclones, coupled with the high performance PSD300 double-deck shaker, the SU300DP can handle flowrates of up to 300m³/hr, and will separate sands and some silts. The double-deck high-speed linear motion shaker is fitted with pre-tensioned woven stainless steel wire screens, which are quickly interchangeable. The top deck is dressed with coarser aperture screens, serving to extend the life of the bottom deck screens which are available in a variety of aperture sizes to suit a broad range of ground conditions.

TECHNICAL DATA

Maximum fluid throughput capacity:	300m³/hr (of slurry having a Marsh Funnel viscosity of less than 70 seconds per U.S. Quart).
Maximum solids removal rate:	25t/hr
Separation:	12 No. 5" diameter long-bodied desilting hydrocyclones, with the underflow partially dewatered by the shaker, for the separation of medium/fine sand and some silt.
Shaker:	High capacity, high speed, linear motion, partially inclined, double deck PSD300 shaker, mounted on isolation springs. Quickly interchangeable screens with pneumatic clamping system.
Shaker top deck screens:	4 No. pre-tensioned woven stainless steel wire screens, API 60. Total screen area: 2.21m² (1.3m wide by 1.7m long)
Shaker bottom deck screens:	4 No. interchangeable pre-tensioned woven stainless steel wire screens (API 100, API 140 or API 170 options available to suit prevailing ground conditions). Total screen area: 2.21m² (1.3m wide by 1.7m 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 18 tonnes.
Operating size:	3500mm (L) x 2500mm (W) x 5200mm (H), plus staircase if required.
Access to shaker module:	Via external staircase.
Power:	95kW installed power running at 380-415V, 50Hz, 3 phase and earth (no neutral required).
Estimated running current:	112A per phase.
Estimated starting current:	282A per phase.
5" hydrocyclone feed pump:	Metso MM200 centrifugal, with overhead mounted star/delta started 55kW motor.
Discharge pump:	Metso MM200 centrifugal, with overhead mounted, inverter controlled, 30kW motor.
Shaker motors:	2 No. 4kW motors with inverter control.
Compressor:	1.1kW with 50L receiver and direct-on-line starting.
Noise emission:	70 dB at 5m.

Specification subject to change without notice. E&OE.