

SB120 DESANDER

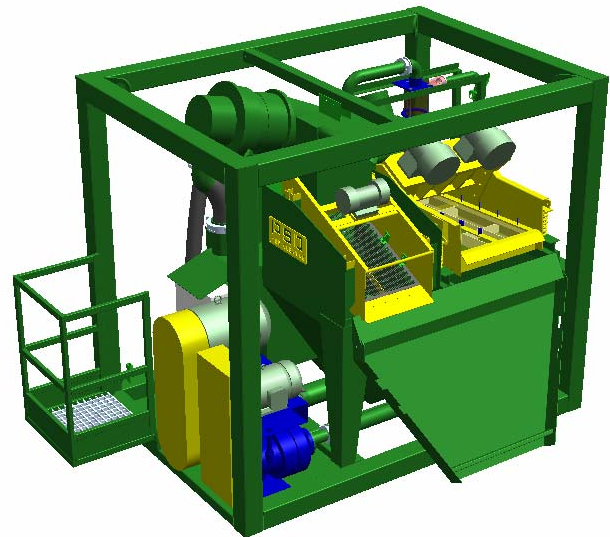
The SB120 is a compact desander designed for the separation of solids from fluids such as the cleaning of light bentonite mud used in the civil engineering, bored piling, diaphragm walling and slurry shield tunnelling industries. The machine is mounted within a heavy duty hollow section steel frame with 4 point lifting lugs.

The SB120 has a throughput capacity of up to 120m³/hr with low viscosity muds (40 secs. Marsh Cone) containing less than 10% by volume of solids.

The machine has an orbital motion primary shaker fitted with a coarse wedgewire screen. This is used for the removal of gravels, timber, roots and coarse sands. After primary screening the mud is pumped by a Metso HM100 pump to a single HL 400/20° hydrocyclone, where the main cleaning takes place. The underflow from the large hydrocyclone is discharged onto a linear motion dewatering shaker dressed with slotted screens. This shaker can handle up to 20 tonnes per hour of solids, depending upon grain size and screen aperture.

The shaker underflow is pumped by a Metso HM75 pump to a 5" hydrocyclone for further cleaning. The underflow from the small hydrocyclone also discharges onto the dewatering shaker. The overflow from both hydrocyclones is passed to a header tank where some is recycled and from where the cleaned mud is discharged for re-use.

The dewatered solids from both shakers discharge onto a chute at the front of the machine. The unit is normally operated on top of a tank, but can also be trailer mounted or operated on the ground if required.



TECHNICAL DATA

Size for transport:	3.0 x 2.1 x 2.6 metres high.
Dry weight:	5 tonnes.
Wet weight:	8 tonnes.
Fluid throughput:	120m ³ /hr
Solids removal rate:	Up to 20 tonnes per hour.
Primary shaker:	0.1kW, direct on line starting.
HM100 pump:	22kW, star-delta starting.
Dewatering shaker:	2.4kW, direct on line starting.
HM75 pump:	5.5kW, direct on line starting.
Mud inlet:	4" female Bauer near front of machine.
Mud outlet:	6" flange at rear of machine.
Power requirements:	380 to 415 volts, 50 Hz, 3 phase and earth. Starting current of 150 amps. Running current of 61 amps. Normally an 85 KVA generator would be suitable. A 15 metre long mains power cable is supplied with the unit.