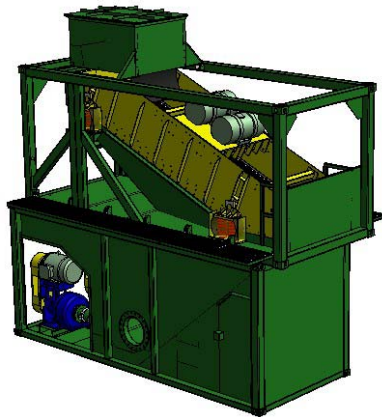


SD1000DP PRIMARY SHAKER

The SD1000DP Primary Shaker is a high capacity, declined, single deck, linear motion shaker with 2 No. discharge pumps, used for the separation of coarse particles or clay balls. The SD1000DP consists of a 20' container sized shaker module, which mounts on top of a 20' container sized pump tank module in use.

The steeply declined deck shaker is mounted within a heavy duty hollow section steel frame which houses a trough for collection of the shaker underflow. Mud feed to the shaker is at a high level, rubber lined, header box mounted above the rear of the shaker deck such that most of the energy of the mud flow is dissipated within the header box and the mud then drops by gravity on to the rearmost part of the shaker screen. The header box would be fitted with a flanged connection to suit the diameter of the client's pipework. The shaker is normally fitted with heavy duty stainless steel wedge wire screens with 8mm x 40mm slotted apertures parallel to the direction of flow. The deck is approximately 6.7m² being 1.4 m wide by 4.8 metres long. Separated solids are discharged off the front of the shaker outside the end face of the pump tank. The shaker is powered by 2 No. 6.2kW electric motors fitted with eccentric weights. The motors have Direct-On-Line starting.



The pump tank module consists of a heavy duty hollow section steel frame which houses a tank into which the shaker underflow falls and 2 No. Metso MM200 centrifugal pumps each with overhead mounted 45kW motors and star-delta starting. These pumps are used to discharge the screened fluid from the SD1000DP to downstream equipment, such as SM500PSDP units for finer cleaning.

The pump tank is also equipped with 2 No. large diameter pipe connections to link the tank of the SD1000DP to the tanks of adjacent units. When the pumping rate from the unit to the downstream desanders is greater than the dirty mud feed rate to the SD1000DP these pipes allow mud to flow back from the desanders to the SD1000DP pump tank, thereby balancing the mud levels in the machines.

TECHNICAL DATA

Transport:	The machine can be transported two standard type 1CC 20' containers.
Shaker module:	Transport weight: 10 tonnes. Transport size: 6058x2438x2591mm high, with ISO corner castings. Shaker: Declined single deck linear motion shaker with 2 No. 6.2kW 6-pole motors. Screens: Normally heavy duty wedgewire with 8mm x 40mm slotted apertures.
Pump tank module:	Transport weight: 8 tonnes. Transport size: 6058x2438x2591mm high, with ISO corner castings. Discharge pump: 2 No. Metso MM200 centrifugal each with 45kW motor.
Operating size:	7058x2438x6150mm high.
Operating weight:	29 tonnes.
Power:	380-415V, 50Hz, 3-phase & earth. Total power requirement is 103kW.
Running current:	approximately 145A per phase.
Starting current:	approximately 290A per phase.
Fluid throughput:	Flowrates of up to 1000m ³ /hr with low viscosity muds and 8mm x 40mm aperture screens.