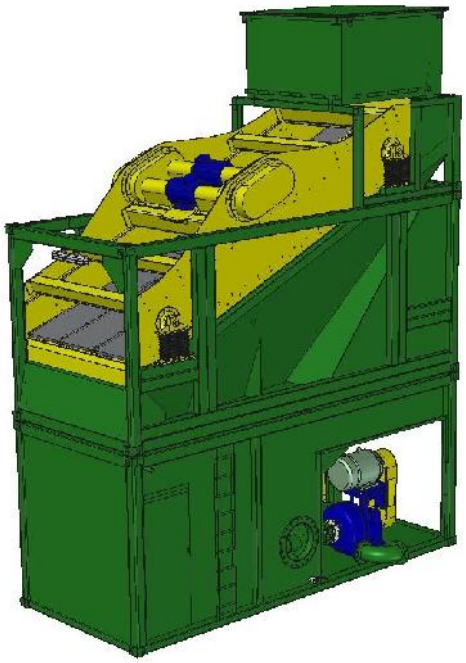
PIGOTT SHAFT DRILLING LIMITED
tel: +44 1772 690076
fax: +44 1772 690840
email: info@psdmud.co.uk

Specialist equipment to separate solids from liquids worldwide

www.solidsseparation.com

SD2400DP PRIMARY SHAKER



The SD2400DP Primary Shaker is a high capacity, steeply declined, single deck, linear motion shaker with up to 4 No. Metso MM200 centrifugal discharge pumps. The unit is used for the primary separation of gravels, coarse particles or clay balls. The SD2400DP consists of a shaker module mounted on top of a 20' container sized pump tank module plus up to two free-standing discharge pumps.

The steeply declined deck shaker is mounted within a heavy duty hollow section steel frame fitted with a large hopper which directs the underflow to the pump tank below. Fluid feed to the shaker is by means of a high level, rubber lined, large capacity header box mounted above the rear of the shaker such that most of the energy of the fluid flow is dissipated within the header box before the fluid 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 uses 15 No. heavy duty screen panels which are normally equipped with some polyurethane screens and some stainless steel wedge wire screens. The deck area is approximately 12.18m^2 being 2.03m wide by 6.0 metres long. Separated solids are discharged off the front of the shaker in to a collection bin which directs them outside the end face of the pump tank. The shaker is powered by 2 No. 7.5kW 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 HM200 centrifugal pumps each with overhead mounted 55kW motors and star-delta starting. Additional external Metso MM200 centrifugal pumps with 55kW motor and star-delta starting can be supplied with the unit. These pumps are used to discharge the screened fluid from the SD2400DP to downstream equipment for finer cleaning. The electric panels and controls are mounted within a walk-in, lockable, compartment in the pump tank.

The pump tank is also equipped with 2 No. large diameter pipe connections to link the tank of the SD2400DP to the tanks of adjacent units. When the pumping rate from the unit to the downstream desanders is greater than the dirty fluid feed rate to the SD2400DP these pipes allow fluid to flow back from the desanders to the SD2400DP pump tank, thereby balancing the fluid levels in the machines.

TECHNICAL DATA

Transport:	As one standard type 1CC 20' container, plus shaker module, feed box and free-standing pumps.
Shaker module:	**Transport weight:** 10 tonnes. **Transport size:** 6058x2690x3341mm high, with ISO corner castings. **Shaker:** Declined single deck linear motion shaker with 2 No. 7.5kW 6-pole motors.
Pump tank module:	**Transport weight:** 10 tonnes. **Transport size:** 6058x2438x2591mm high, with ISO corner castings. **Discharge pumps:** 2 No. integral Metso MM200 each with 55kW motor. additional free-standing Metso MM200 pumps each with 55kW motor
Operating size:	7058x2438x7700mm high.
Operating weight:	30 tonnes.
Power:	380-415V, 50Hz, 3-phase & earth. Total power requirement is 191kW.
Running current:	approximately 265A per phase.
Starting current:	approximately 550A per phase.
Fluid throughput:	Flowrates of up to 2400m^3/hr with low viscosity fluids, appropriate screens and additional pumps.