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PSD

Specialist equipment to separate solids from liquids worldwide

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MILCHEM SHAKER

The MILCHEM RVS is a single deck, declined bed, orbital motion shaker, used for the primary separation of coarse solids or clay balls. The shaker is fitted with 4 No. hook strip stainless steel woven wire mesh screens. Each screen is 1200x600mm resulting in a screening area of 2400mm long by 1200mm wide. The shaker is normally mounted above a mud storage tank but may be used above an open frame if a suitable pump and pipework is provided for the removal of the screened mud.

The shaker is powered by a single 4kW, 4 pole motor fitted with eccentric weights and has Direct-On-Line starting. Electric power should be 380 to 415V, 50Hz, 3-phase and earth. Full load current is 9A and starting current is 54A. Normally a 20KVA generator would be suitable.

The shaker is mounted on a heavy duty square hollow section frame into which is built a tapered underflow chute that is used to direct the screened fluids towards a centrally located outlet. There is a mud feed header box sited at the rear of the shaker and the unit has a fold-down access platform on each side of the main frame.

Hook strip screens of various mesh sizes can be used, these range from 2 mesh to 60 mesh but the most common sizes for primary screening are 4 mesh to 12 mesh. Screens of different mesh sizes can be used in combination if required. Flowrates of up to 240m^3/hr can be handled with the coarser screens and with low viscosity muds. Solids handling capacity is up to 50 tonnes/hour for gravels. Capacities are reduced with finer mesh screens and with higher viscosity muds.

TECHNICAL DATA:

Shaker:	1 No. declined deck made up from 4 No. 2' x 4' wide panels resulting in a screening area of 8' long by 4' wide (2.4 metres by 1.2 metres wide). Hook strip screens with mesh sizes from 2 mesh to 60 mesh.
Motor:	1 No. 4kW, 4 pole motor with Direct-On-Line starting. The motor is mounted on above the deck.
Power:	380 to 415V, 50Hz, 3-phase & earth.
Running current:	9A per phase.
Staring current:	54A
Generator:	Normally a 20 KVA generator would be suitable.
Transport size:	2900x2090x2000mm high.
Operating size:	2900x3000x2000mm high with platforms lowered.
Weight:	4 tonnes.
Process capacity:	Up to 240m^3/hr with low viscosity fluids and coarse mesh screens.
Solids removal rate:	Up to 50 tonnes/hr of gravels or large solids.
Mud feed:	At rear of header box through 6" Victaulic shouldered pipe with adapter as required
Solids discharge:	At the front of the machine on to the ground or into client's skip.
Fluids discharge:	Fluid outlet through 900x400 mm low level exit or 6" Victaulic shouldered pipe outlet.
Noise emissions:	68dB at 5m.