

## SUPERCLEAN 160

The SUPERCLEAN 160 is a very versatile mud cleaning machine that can be used in a wide variety of applications in the civil engineering, diaphragm walling, tunnelling and drilling industries. The machine will handle a flowrate of up to 160m<sup>3</sup>/hr of mud having a Marsh Funnel viscosity of less than 100 seconds per U.S. Quart. The primary shaker will separate up to 20 tonnes/hr of suitably sized solids and the secondary hydrocyclone underflow de-watering shaker will handle up to 18 tonnes/hr of suitable solids with the appropriate screens fitted to the shaker.

The SUPERCLEAN 160 mud cleaner has a 20 foot container sized heavy duty hollow section frame, clad with marine quality plywood sheets on three sides and the roof. A tarpaulin is fitted to the front in order to provide weather protection to the equipment and operator. Mounted inside the frame is a double deck, orbital motion, primary shaker with underflow mud storage tank together with a Svedala 150x150E centrifugal hydrocyclone feed pump with 45kW overhead electric motor, 8 No. high performance, long bodied, 5" hydrocyclones, a VSM 100 high speed linear motion de-watering shaker with underflow collection tank, electrical control equipment, work and access platforms and a small stores compartment containing a 3 phase rotary air compressor. A 15m long power cable, a 6" diameter mud riser pipe and 4m access ladder are supplied with the unit.

In use, the SUPERCLEAN 160 is mounted above a 20 foot container sized mud storage tank. The feed riser pipe is fitted to the rear of the SUPERCLEAN 160 so that dirty mud discharges on to the top deck of the primary shaker. During operation, the separated solids are discharged from the two shakers along the front 6m face of the plant. The cleaned mud flows under gravity, from the header box near to the centre of the machine, into the mud tank below.



Alterations to the performance of the SUPERCLEAN 160 can be made by fitting various aperture screens to the primary shaker, fitting hydrocyclone spigots of different diameter to control the wetness and particle size of the hydrocyclone underflow and by fitting screen panels of various mesh size to the de-watering shaker to control the size and dryness of the discharged solids. The SUPERCLEAN 160 can thus be 'tuned' to work in a variety of ways from high capacity coarse solids separation through to very fine de-sanding and de-silting applications.

### TECHNICAL DATA

<b>Fluid throughput capacity:</b>	up to 160m <sup>3</sup> /hr of mud having a Marsh Funnel viscosity of less than 100 seconds per U.S. Quart.
<b>Solids removal rate:</b>	up to 20 tonnes/hr on the primary shaker and up to 18 tonnes/hr on the secondary shaker.
<b>Transport size:</b>	6058x2438x2591mm high, complete with twistlock castings
<b>Weight:</b>	9 tonnes. The machine can be transported as a standard type 1CC container.
<b>Operating size:</b>	6058x3000x5200mm high when mounted on a type 1CC container sized tank.
<b>Power:</b>	415V, 50Hz, 3 phase and earth no neutral is required.
<b>Running current:</b>	70A.
<b>Generator:</b>	Normally a 100KVA generator would be required to run this machine.
<b>Hydrocyclone feed pump:</b>	Svedala 150x150 centrifugal with 45kW motor with star-delta starting.
<b>Primary shaker:</b>	1 No. 4kW motor with direct-on-line starting.
<b>Secondary shaker:</b>	2 No. 2kW motors with direct-on-line starting.
<b>Compressor:</b>	3kW motor with direct-on-line starting.
<b>Lighting &amp; small tools:</b>	1 No. 220V, 3kW, single phase transformer for lighting and small tools.
<b>Noise emission:</b>	75 dB at 6m.