

CBS200 CLAYBALL SEPARATOR

The CBS200 is designed for the separation of clayballs, gravels, timber and other large solids from the circulation fluids used by diaphragm walling, slurry shield tunnelling or pipejacking machines. The CBS200 will handle a flow rate of up to 200 cubic metres per hour of low viscosity muds and will separate up to 20 cubic metres per hour of suitably sized solids.

The machine consists of one module, but can be used in conjunction with a hopper tank. In this case, the two modules would join together for transport to form a unit that is the same size as a standard 20 foot, type 1CC, freight container. This is complete with twistlock corners, allowing it to be moved and shipped as a container. Together the CSB200 and Hopper Tank weigh 8 tonnes.

The conveyor module has a heavy duty steel hollow section frame measuring 2600x2438x2591mm high. This houses a variable speed conveying machine complete with fluid underflow collection tank, a high volume solids drying fan, mud feed pipework, a fold-down work platform and lighting. The conveyor is equipped with a stainless steel belt with 7mm apertures.

For operation the conveyor module is placed on top of a tank with the fold-down platform extended and with the discharge from the conveyor being at the front so that the solids fall down the face of the tank module. The working footprint required for operation of the machine is 4.0x4.0m, inclusive of feed pipework at the rear, the front access platform and side access to the pump tank module. If required the conveyor module can be used on top of any suitably sized tank with an independent fluid discharge pump.

TECHNICAL DATA

Fluid throughput capacity of up to 200 cubic metres per hour of low viscosity mud. Mud feed to the unit is at the rear through 6" pipework.

Solids removal of up to 20 cubic metres per hour of solids larger than 7mm. The discharge is from the front of the machine, down the face of the tank.

Transport size, 2600x2438x2591mm high, or 6058x2438x2591mm high if transported with Hopper Tank. The units are complete with twistlock fasteners, combined weight 8 tonnes. The machine with Hopper Tank can be transported as a 20 foot type 1CC freight container.

Operating size 3500x2500x5200mm high. Conveyor module weighs 4 tonnes, tank module weighs 4 tonnes. The total working weight including fluids is approximately 20 tonnes.

Power, 415 volts, 50 Hz, 3 phase and earth. No neutral is required. Starting current for the conveyor is 18 amps and for the drying fan is 24 amps. Full running current for the conveyor module is 6 amps. A 15 KVA generator would normally be sufficient to operate the conveyor module.

