

Data Sheet: Super Recirculating Jet Mixer

Description

The super recirculating jet mixer is a continuous high speed grout mixer for use with high strength construction and back-filler grouts i.e. MasterFlow 9600 / 9650 and 9800.

FoundOcean's SRJM mixer produces grout in a continuous process. This is achieved by recirculating the grout around a loop through a mixing pump, jet and mixing tank. Cement and water are added at a controlled rate and the mixed grout is continuously removed to a holding tank from which it is pumped to the structure. The quality of the grout is constantly monitored by means of a densitometer.

The surge tank unit is fitted on top of the mixer and is continuously filled from a pressurised cement storage tank. An adjustable rotary feeder supplies cement to the mixing system at an adjustable rate.

Other accessories include dust control unit and all relevant control panels.

All of the equipment is mounted in an offshore lifting frame and is fitted with a certified sling set.



Assembled – Mixer and Surge Tank

Grouting Capability:

- Minimum output 14 m³h⁻¹.
- Density up to 2.3 S.G.

Typical Dimensions:

- Mixer 3660 x 2120 x 2010
- Surge tank 2730 x 2120 x 4140

Typical Weight:

- Mixer 8,000kg gross
- Surge tank 5,000kg gross

Equipment Requirements:

Power :

- 440 Volt at 50/60Hz 3-phase with earth, 125 Amps (max on start-up)
- Max running 100 Amps

Water:

- Taken from freshwater supply
- Minimum 8 bar (80 psi) with 0.5m³ per minute

Air:

- Taken from common supply Nominally 8 bar (116 psi) with 2m³ per minute

Data Sheet: Progressive Cavity Grout Pump

Description

Identical grout pumps, each consisting of a 55kW electric motor, geared units and a progressive cavity pump.


The system is controlled by an inverter allowing full adjustment of the flow rate.

All equipment is mounted in a DNV2.7-1 approved offshore lifting frame; each pump comes complete with a dedicated lifting set.




<p><u>Grouting</u></p> <ul style="list-style-type: none"> • Minimum output; <ul style="list-style-type: none"> ○ Construction grouts 15 m³h⁻¹ ○ Non-aggregate OPC grouts 25 m³h⁻¹ ○ Low-density neat OPC grouts > 30 m³h⁻¹ • Pumping pressure 24bar 	<p><u>Typical Dimensions:</u></p> <ul style="list-style-type: none"> • 4500 x 1100 x 2100 <p><u>Typical Weight:</u></p> <ul style="list-style-type: none"> • 4,500 kg gross <p><u>Power Requirements:</u></p> <ul style="list-style-type: none"> • 440 Volt at 50/60Hz 3-phase with earth • 60 Amps (max on start-up) • 35 Amps (max running)
---	---

Data Sheet: Hose Storage Reel

<p><u>Description</u></p> <p>Hose reel used for transporting and storing grout/air/water hoses normally of either 2inch or 1-1/2inch diameter, although other sizes are possible. Up to 800m of hose can be stored on the reel at one time.</p> <p>The reel is fitted with a pneumatic motor and gearbox which is connected to a radially mounted chain drive on the reel. This system allows the hose reel to pull hose on to the drum. It is mounted in an offshore lifting frame and is fitted with a certified sling set.</p> <p>The reel may be transported and/or stored in standard shipping containers.</p>	 <p style="text-align: center;"><i>Hose storage reel prior to hose being attached.</i></p> <p><u>Typical Dimensions:</u></p> <ul style="list-style-type: none"> • 2450 x 2220 x 2275 <p><u>Typical Weight:</u></p> <ul style="list-style-type: none"> • 5,000 kg gross <p><u>Air Requirements:</u></p> <ul style="list-style-type: none"> • Taken from common supply
--	--

Data Sheet: Workshop Container

<p><u>Description</u></p> <p>The workshop containers are based on standard 20 foot containers and are used as a general workshop. Each container is fitted with a certified sling set.</p>	
<p><u>Dimensions:</u></p> <ul style="list-style-type: none"> • 6100 x 2440 x 2600 for 20' Workshop <p><u>Weight:</u></p> <ul style="list-style-type: none"> • 6,000 kg max gross for Workshop 	<p><u>Power Requirements</u></p> <ul style="list-style-type: none"> • 380-460volt 50/60Hz, 3 phase and earth • Approximately 18m (60 ft) mains power cable supplied