

# CHEMGROUT CG-600 GROUT PUMP PLANT DATA SHEET



The ChemGrout CG-600 Series cement grout pump is a high capacity grout mixing and pumping unit capable of sustained production rates of up to 75L per minute of cementitious grout mix.

High efficiency colloidal mixing is accomplished by means of a close tolerance diffuser type mixing pump, circulating the slurry materials at high speed through an offset cone cycloidal tank. The mixing pump also serves as a transfer pump to discharge mixed materials to the generous agitating tank for storage prior to pumping to the work.

A progressive cavity pump unit pumps the grout from the holding tank to the point of delivery at pressures as required by the job.

The engine chosen for this unit is a Kubota Model D1105EB1 three-cylinder, four cycle diesel engine, capable of producing 25 HP at 3,000 RPM, which is the maximum speed of the engine. The engine provides the power for a hydraulic pump which in turn powers the various pump units.

The advantages for this arrangement are: positive independent control of mixer and pump speeds, the ability to reverse mixer or pump rotations, if necessary, and automatic distribution of available primary power to every function as required.

The grout pump is fitted out with a water meter to measure volumes of water added to the mix. At the outlet point a pressure gauge is fitted to monitor pressures and regulate as required.



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The following gradation specifications will yield a smooth, pumpable mix, and should be used as a guide when purchasing sand for field prepared grout mixes.

<b>Sieve Size</b>	<b>% Passing</b>
<b>#8</b>	<b>100</b>
<b>#16</b>	<b>90-100</b>
<b>#30</b>	<b>55-80</b>
<b>#50</b>	<b>30-55</b>
<b>#100</b>	<b>10-30</b>
<b>#200</b>	<b>0-10</b>

The mixing pump used on this grout plant is specially designed for this application and is an open impeller centrifugal pump capable of displacing volumes of more than 750 L/min.

TECHNICAL DATA	
PRIMARY POWER SOURCE	KUBOTA MODEL D1105EB1 THREE-CYLINDER, FOUR CYCLE DIESEL ENGINE
SECONDARY POWER SOURCE	HYDRAULIC POSITIVE DISPLACEMENT PUMP
MIXING TANK VOLUME	150L
HOLDING TANK VOLUME	350L
MAXIMUM FLOW RATE	75L/MIN
MAXIMUM DELIVERY PRESSURE	300 PSI – 20 BAR