



Chem Grout CG-500 High Pressure Series

Pipe jacking & annular grouting

CASE STUDY

Background

Major civil contractor, John Holland, was awarded a contract to construct approximately 18 kilometres of DN1600 main sewerage pipelines as part a development within a Melbourne growth corridor. Grouting was required for void filling and to secure the sewage pipelines in situ.

A key requirement was the ability to pump grout significant distances along the length of the pipework via injection ports and precise control over the output delivery volume.

CGS Solution

The ChemGrout CG-500 was selected as the most appropriate grout plant for the project, due to its ability to pump long distances and precise volume control.

The CG-500HP series is a skid-mounted, high-pressure grout plant. The plant features two 265L mixing tanks, a 80L holding hopper and a high-pressure plunger grout pump.

The unique double mix tank design permits continuous mixing and pumping as each mix tank alternates feeding the pump. Each mixer is equipped with baffles, bag breakers and variable speed high-efficiency paddles that provide rapid mixing. The tank outlets are large slide gates that allow viscous grouting materials to flow quickly into the removable holding hopper.

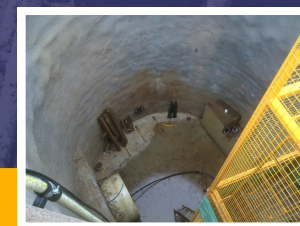
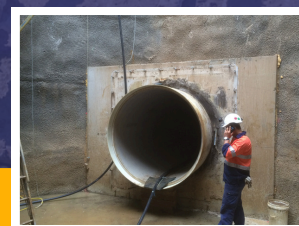
The holding hopper is connected directly to a positive displacement, double-acting 3X8 plunger pump that delivers up to 91L per minute, 1,000 PSI. The pump is also available with 2X8 plunger kits that offer a higher discharge pressure of 2,000 PSI with a slightly lower flow rate. The plunger pump is designed for simple conversion between the pressure outputs by purchasing plunger group conversion kits.

The pump has patented fasteners that dramatically reduce disassembly time for cleaning and maintenance.

Operator controls are centrally located for efficient production.

The variable Hydraulic splitter valve was crucial to the project's success, allowing operators to control the pump speed and fine-tune the most suitable pump speed.

Contact CGS Equipment today to discuss how the Chem Grout range can help your business deliver bigger, better projects with confidence.



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