



Chem Grout CG-500/031 High Capacity Geotech Series

Rockbolting

CASE STUDY

Background

Tahmoor Coal Mine was seeking a grouting solution for a structural reinforcement project to support expansion of the mine's underground operations. Mining activity was planned to commence underneath a functioning railway line and culvert. Ground reinforcement, including hundreds of rock bolts, and structural reinforcement of the culvert were necessary to ensure the safety of mining operations and the infrastructure above.

CGS Solution

The ChemGrout CG-500/031 Geotech Series was selected for the project, and represented an incredibly reliable solution for a project with a high-volume requirement.

The CG-500/031 includes two 265 litre mix tanks that produce a thoroughly mixed grout product quickly and efficiently, while allowing continuous feeding into the hopper and non-stop pumping. The reversible mix paddles deliver a superior grout mix quickly with minimal bleed, ensuring perfect strength characteristics required for bonding. Each mixing tank is equipped with baffles and a bag breaker. A 57 litre holding hopper, covered with a protective grate, feeds a rugged single-acting, positive displacement 3" piston pump. The grout plant can produce 76 litres per minute @ 261psi (18 bar).

Positioned 55m above the culvert injection points, the plant was able to pump neat cement through 1 ¼" grout hoses. Each rock bolt hole required 55 litres of grout pumped into the strata through grout tubes and ventilated through a steel hollow bar. The variable speed pump allowed the operator to gradually increase grout delivery as required, prevented line blockages and minimised potential wastage of material. The mixing efficiency and continuous batching reduced the overall labour requirement on the project, resulting in significant cost savings.

The CG-500/031 Geotech Series is the perfect grout plant for ground stabilisation projects, including rock bolting. Contact CGS Equipment today to discuss how the Chem Grout range can help your business deliver bigger, better projects with confidence.

