



ChemGrout's "TurboMix" Colloidal Mixers

Specially designed tanks and mixing pumps make ChemGrout colloidal mixing efficient and profitable for the owner. Water and solid materials are drawn through the high speed diffuser type pump rotating at speeds of up to 2,000 RPM to prevent flocculation and achieve complete particle wetness. Mixing time is significantly reduced by the high shear action of the colloidal mixing pump, aided by a unique powered bridge breaker device which enhances flow rates through the pump. These high shear colloidal mixers have been shown to increase apparent fluidity of slurry mixes by 20% over paddle mixers, an important advantage for dam, rock and soil grouting where the ability to penetrate tight formations is necessary. For very sensitive applications such as post tension grouting, the highly efficient colloidal mixer makes possible water to cement ratios down to 0.35 by weight, resulting in very high strength grouts with little or no bleed water release.

Materials

- Neat cements – all types
- Ultra/Micro-fine cements
- Bentonite slurries
- Flyash
- Lime dust
- Post tension grouts



CG-600 Colloidal Grout Plant

20 gpm

The CG-600 is a heavy duty, high volume colloidal grout plant favored for heavy construction projects such as dams and tunnels, as well as for precision post tension grouting. This unit features a high speed mixing pump that thoroughly wets each particle and discharges the mixed material into a 13 cubic foot capacity agitating holding tank. A direct coupled progressing cavity pump delivers slurries at a rate of up to 20 GPM and pressures of up to 261 PSI. The unit easily mixes and pumps slurries of portland cement, flyash, bentonite, and lime flour. All controls are conveniently located on the operator platform for easy one man control. Power options are air, hydraulic, electric/hyd or diesel/hyd.

Specifications

PUMPS

Grout Pump	3CL6 progressing cavity
Colloidal Mixing Pump	2 X 3 X 6 diffuser-type centrifugal

PHYSICAL SPECIFICATIONS

Air

Weight	~1550 lbs.
Size	90"L x 60"W x 74"H
Power Required	300 cfm, 100 psi

Hydraulic

Weight	~1550 lbs.
Size	90"L x 60"W x 65"H
Power Required	Dual circuit 12/12 gpm, 2400 psi

Electric/Hydraulic

Weight	~2600 lbs.
Size	90"L x 60"W x 72"H
Power Required	25 HP, several voltages available

Diesel/Hydraulic

Weight	~2650 lbs.
Size	109"L x 60"W x 74"H
Power Required	27 HP, Diesel/electric start