



Talk to Our Expert
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Custom Colloidal



This is an example showing the custom capabilities available from ChemGrout. The fully automated CG690/ES was designed for the Cachi Hydroelectric Dam Project in Costa Rica. Drawing on over 50 years of experience, this unique design provides high shear colloidal mixing, high material outputs, and extremely accurate mix ratios.

This high mix ratio accuracy is achieved by isolating the load cells off the frame and avoiding false readings due to vibration. It is exclusive features like this, along with the ability to collaborate with multi-disciplined project engineers, that continues to make ChemGrout the place to go for custom grouting equipment.



CG690ES Features:

- **Cement Dosifier** - 700 lbs/min
- **Cement Holding Hopper** – 3000lb capacity
- **Colloidal Mix Tank** – 17cf (480 liters)
- **High Shear Mixing** – 1800 rpm
- **Two Agitator Tanks** – 128 gallon capacity
- **Two High Pressure Plunger Pumps** – 53gpm, 800 psi each
- **Additive Dosifier** – measures admixtures
- **Automatic Dosification System** – PLC controls batch system
- **Data Registration System** – Includes two magnetic flow meters
 - Two pressure transducers
 - Datalogger controls flow/pressure meters



CG-620 Colloidal Mixer

The CG-620 is a stand-alone colloidal mixer, usually used with other ChemGrout agitating/pumping equipment, such as the CG-500 grout plant. These skid mounted units all feature the ChemGrout "TurboMix" colloidal mixing pump, and are available in three convenient sizes, from 8 cubic feet, suitable for applications where space is at a premium, to 13 cubic feet for general applications, through 17 cubic feet for high volume applications.

CG-630 Colloidal Mixer/Agitator

The CG-630 is a combination colloidal mixer teamed with an appropriately sized agitating reservoir tank, both mounted on a common skid frame. These units feature the same ChemGrout "TurboMix" mixing pumps described above, and are available in the same mixer sizes as the CG-620. The vertical shaft paddle agitators are sized to accept the product of the mixers, and are configured to supply grout to a variety of different pumping units.

Specifications

COLLOIDAL MIXER 620

Mixing Tank	Mixing Pump
620 8 c.f.	2 x 3 x 6
620 13 c.f.	2 x 3 x 6
620 17 c.f.	2 x 3 x 12

COLLOIDAL MIXER 630

Mixing Tank	Mixing Pump	Holding Tank
630 8 c.f.	2 x 3 x 6	10 c.f.
630 13 c.f.	2 x 3 x 6	13 c.f.
630 17 c.f.	2 x 3 x 12	17 c.f.

DRIVE POWER	620	630	
Air*	185	250	(cfm, 100 psi)
Hydraulic	12/17	12/17	(gpm, 2000 psi)
Electro/Hydraulic/3-Phase			15/20 HP

Contact factory for specifics on Gasoline or Diesel power options.

*Not available for 17c.f. units.

PHYSICAL SPECIFICATIONS

Dimensions (620)	56"- 69"L x 42"W x 50"H
Weight (620)	~1050 pounds
Dimensions (630)	72"- 92"L x 48"W x 48"H
Weight (630)	~950 pounds