

Paddle Assisted Colloidal Grout Mixers

This important addition to the Colcrete range of Colloidal Grout Mixers allows a combination of both Colloidal and paddle mixing to occur simultaneously or separately as required. For example it is possible to use both mixing methods simultaneously to achieve a rapid mixing of a base mix, followed by only paddle mixing a further product, which may be more delicate. Also on completion of the mixing process, the Colloidal mixing unit can be turned off to save wasting power or generating unwanted heat, whilst keeping the product agitated using the paddles. This allows batches of grout to be stored in the mixing vessel until it is required for example to fill a grout car for a tunnelling application. Restarting the Colloidal unit allows rapid discharge of the mixed material at pressures up to 2 bars and flows up to 700 litres per minute for each mixer unit.

The unique mixing action allows rapid mixing of grouts containing sand, up to a sand/cement ratio of 4:1 and neat cement grouts with water/cement ratios as low as 0.36:1 without additives, or lower with plasticisers or superplasticisers. The mixers are also very efficient at mixing bentonite and other clay products as the process accelerates hydration and makes a more stable product.

The range of mixers as detailed below cater for outputs from 8 to 25 cubic metres per hour as batch mixers, dependent upon mix design and material feed rates. The larger mixers may be fitted with weighing facilities which, in conjunction with automatic control, allow materials to be accurately batched in by weight.

Model	Max. Output (M3/HR)	Batch capacity (Litres)	Colloidal Electric (KW)	Paddle Electric (KW)
Colmixer CP6000	20 - 25	6000	2X22	11
Colmixer CP4000	17- 22	4000	2X22	7.5
Colmixer CP3000	15 - 20	3000	2X22	5.5
Colmixer CP2000	15 - 20	2000	2x22	5.5
Colmixer CP1500	9 - 11	1500	22	4
Colmixer CP1000	8 - 10	1000	22	3



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