

Dry polymer flocculant batching plant for the mining industry



OBJECTIVES

- To supply a complete skid mounted dry polymer batching rig.
- To include dry polymer metering, mixing, agitating vessel and aging tank.
- To be pre-commissioned at CTE but wired to the mine's power supply on site by CTE staff.
- To be low maintenance and easy to use.
- To be of robust, low maintenance construction.
- To be completed on a tight budget.
- Job turnaround was 6 weeks from start to delivery.

INTRODUCTION

Control and Thermal was approached to design and construct a dry polymer batching plant for an outback minesite.

The client needed the project ASAP. They had a fixed budget and were yet to decide if they wanted to take the plunge on a larger improved system.

Control and Thermal quickly developed up a split rig design to suit the client's budget and timeframe.

The rig was split in two for ease of transport. One half housed the batching and agitating tank with raised platform access for loading of the dry polymer feed hopper. The other housed the aging tank and flocculant delivery pumps.

Stainless steel and corrosion proof coatings were widely incorporated into the rig's construction on a galvanised steel frame.

The rig was fully tested, trialed and pre-commissioned prior to transport to site.

The two halves of the rig were reassembled on site and 'wired up' by CTE to commence operation.

The final dimensions of the assembled rig measured some 8m x 3m x 2.4m high

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