

High Quality Cement Production in a Vertical Roller Mill

Productivity and Technology

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20 – 30 Minutes

ABSTRACT:

In 2012 Wagner's took the decision to expand its production capacity by employing world's best practice and installing both a Vertical Roller Mill for cement and a Continuous Blending System at its Pinkenba site in Queensland. The expansion was completed in early 2014, and the new facility has led to significant productivity improvements and cost savings as well as further enhancing our ability to meet our customer's needs.

Specifically the new Vertical Roller Mill has enabled Wagners to:

- Reduce operating cost of the site, through reduced electrical energy consumption and labour productivity improvements,
- Reduce environmental impact, through the reuse of rain water and use of recycled oil as a fuel source for drying.
- Produce a more consistent cement product, through improved process control and particle size distribution control over the ball mill.
- Produce a higher quality slag and higher quality slag blended cements through the enhanced grinding efficiency of the vertical mill.
- Produce commercial quantities of slag of high quality for use in the Environmentally Award Winning Earthy Friendly Concrete (EFC). This product was extensively used in the development of the Brisbane West (Wellcamp) Airport constructed by Wagners.

Additionally the new blending system has enabled Wagners to produce a wide range of different





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Triple Blended Cements (incorporating Cement, Lime, Slag and / or Flyash) on demand.

This system enhances our ability to meet our customers' needs by giving them the flexibility to tailor their own cement blends and also improves our productivity by automatically blending these cements in small quantities.

The final stage of the Pinkenba site development will encompass the construction of a Private Wharf with state of the art unloading system feeding directly into a new clinker storage facility.



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