



Cutting-Edge Simulation Improves Industrial Processes



ArcelorMittal

www.arcelormittal.com

ArcelorMittal S.A. is a multinational steel manufacturing corporation headquartered in Avenue de la Liberté, Luxembourg. It was formed in 2006 from the takeover and merger of Arcelor by Mittal Steel. ArcelorMittal is the world's largest steel producer, with an annual crude steel production of 93.6 million tones as of 2012.

ArcelorMittal needed help to optimize blast furnace fuel utilization and campaign life; increase energy efficiency of the billet reheat furnace; and improve uniformity of strip heating. In each case CFD simulation provided valuable insight into the complex heat transfer and fluid flow phenomenon occurring in these processes, leading to significant process improvements. ArcelorMittal also discovered process development time could be shrunk in half or more by using such technologies. The company found that advanced simulation and 3D VR avoided costly mistakes, such as an improperly designed furnace being built for manufacturing carbon anodes. Construction was halted until the redesign was finalized.

Simulation and Forecasting Technology role

Reduce process development time, 3D VR

Sector Metals

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