



Transfer bar cooling system from Primetals Technologies commissioned at Tata Steel Port Talbot hot strip mill



Recently, a transfer bar cooling system supplied by Primetals Technologies was commissioned in the hot strip mill of Tata Steel's Port Talbot integrated steel plant located in South Wales, United Kingdom. The purpose of the cooling system, installed after the roughing mill, is the precise control of the strip temperature before it enters the finishing mill, without having to slow down the roughing mill. This results in an increase of production capacity by approximately 150,000 metric tons of hot strip per year. The system is based on Primetals Technologies' Power Cooling technology. The order to install the transfer bar cooling

system was awarded to Primetals Technologies April 2017.

The Power Cooling technology from Primetals Technologies is especially designed to reach highest cooling rates. This technology can be implemented as intensive cooling between the roughing and the finishing mill area. This leads to improved strip temperature control for increasing productivity.

Tata Steel Port Talbot's hot strip mill has a nominal capacity of about 3.4 million metric tons of steel per year. The Port Talbot site is an integrated blast furnace based steel complex, which produces slabs, hot rolled, cold rolled and galvanized coils. The transfer bar cooling system installed after the roughing mill exit table employs a total of 18 spray headers in its initial configuration, nine top and nine bottom headers, and may be extended with additional headers at a later time. The total length of the transfer bar cooling system is approximately 10 meters. In order to cope with a large variety of steel

grades and process requirements, especially the minimum surface temperature of the bar during cooling, the flow rates of the Power Cooling headers are adjustable over a wide range, so that a lower cooling intensity is also achievable as required for each individual product. Each header is flow-controlled by a separate ball segment valve.

In addition to the transfer bar cooling system itself, Primetals Technologies' scope of supply encompassed the affected roller table, including motors, drives and transformers, an overhead tank, a booster pump station and a cross-spray pump station. Level 1 and level 2 automation as well as the interface to the existing hot strip mill automation system was also provided.

The transfer bar cooling technology was tested for the first time at voestalpine Stahl in Linz, Austria in 2003. The first industrial installation was set up at Thyssen Krupp Bruckhausen in Germany in 2013 according to a press release. ■

TMEIC India Exceeds 100MVA in UPS Orders Received In a Record Time of Two Years

TMEIC Industrial Systems India Pvt. Ltd. (hereinafter, "TMEIC India"), a Group company of Toshiba Mitsubishi-Electric Industrial Systems Corporation (hereinafter, "TMEIC"; President & CEO Masahiko Yamawaki), announced that the company became a highly preferred player in the Indian Uninterruptible Power Supply (UPS) market and exceeded 100 MVA in orders received in a record time of two years. TMEIC has installed its UPS across various

segments such as automotive, data centers, IT, process industries, healthcare, pharmaceuticals and telecommunications. The TMEIC Group has an overall base of over 6,000MVA in UPS installations across the world.

"TMUPS® *, our patented innovative multi-level circuit concept and unique power module technology help our UPS systems to deliver superior performance. The highest efficiency of TMUPS®

combined with its unmatched reliability ensures low cost of ownership and a high return on investment for our customers," says Mr. Anurag Mathur, Head of the TMEIC UPS business for India. "With key product differentiators of TMUPS® and the growing trust of the Indian customers on TMEIC brand, we are aiming to achieve a market share of approximately 15% in the large UPS systems segment in India, by March 2019." ■