
TMEIC Realizes Batch Delivery of Motor and Drive System, Automation and Model Solution for Ternium Mexico's New Hot Strip Mill
—Contributing to a Stable Increase in Production of High-Performance Steel Including Automotive Steel and Steel for High-Strength Line Pipes—

Toshiba Mitsubishi-Electric Industrial Systems Corporation (hereinafter, "TMEIC"; President & CEO Masahiko Yamawaki) delivered its latest motor and drive system along with automation and model solution system for a new hot strip mill at a plant of Ternium Mexico S.A. de C.V. (hereinafter, "Ternium Mexico") in Pesqueria, Mexico. The new systems delivered at this time will lead to improved productivity and product quality.

Ternium Mexico takes a central role in the steel business under the umbrella of the Techint Group based in Argentina, which is handling industries such as steel, petroleum, gas, and construction. The new plant, based in Pesqueria, is one of the Company's primary plants in Mexico. In addition to ordinary steel, the hot strip mill was introduced to increase the production of various steel grades, such as steel materials for automotive structures and steel materials for high-strength line pipes for LNG transportation.

To respond to an increase in production of various types of steel, TMEIC supplied its state-of-the-art motor and drive system along with its automation and model solution system, both of which have been developed based on the Company's extensive knowledge and engineering capabilities. The characteristics of the currently delivered products and systems are as follows.

- 1) Employs the TMdrive series, an integrated drive system that realizes a high input power factor, mitigation of harmonics and high efficiency, and optimally structures converters, the motor control center, and other relevant equipment for motor and drive systems.
- 2) Utilizes the most advanced automation system to deliver high-precision product thickness, board width, temperature, material quality, and stable operation.
- 3) Applies the latest Material Properties Prediction System (MPPS) to boost product quality and yield.

After the purchase order of products and systems for the plant's facilities, TMEIC completed delivery and onsite startup operation, with operations thereafter commencing from May 2021 following the completion of other construction. The plant has since been carrying out stable operations and expanding production volume, whereby annual production is expected to increase to over 4 million tons.

Comments from Executive Officer and Vice President Kazuhiko Uekusa, Industrial Automation & Drive Systems Division

“TMEIC has a proven track record of delivering hot strip mills for a number of steel plants in Latin America, including Ternium Mexico, and has supplied optimal rolling control in response to the production plans of each plant for our customers. We are very honored that TMEIC’s automation technology and know-how have currently contributed to realizing the client’s management policy of a stable increase in production and boosting the productivity of various steel grades, including high-performance steel. We will continue to harness and fully provide our technological capabilities as well as contribute to increasing efficiency and high performance.”



Newly established hot strip mill



Motors delivered by TMEiC



Drive system delivered by TMEiC

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In order to respond to the needs of manufacturing sites that serve as a foundation for supporting society, TMEiC always sets its eyes on the future of industry, society, and the environment as an industrial systems integrator striking a balance between the development of society and a beautiful global environment. TMEiC will contribute to manufacturing and environmental management through leading-edge technologies based on its core technologies of rotating machinery, power electronics, and engineering.