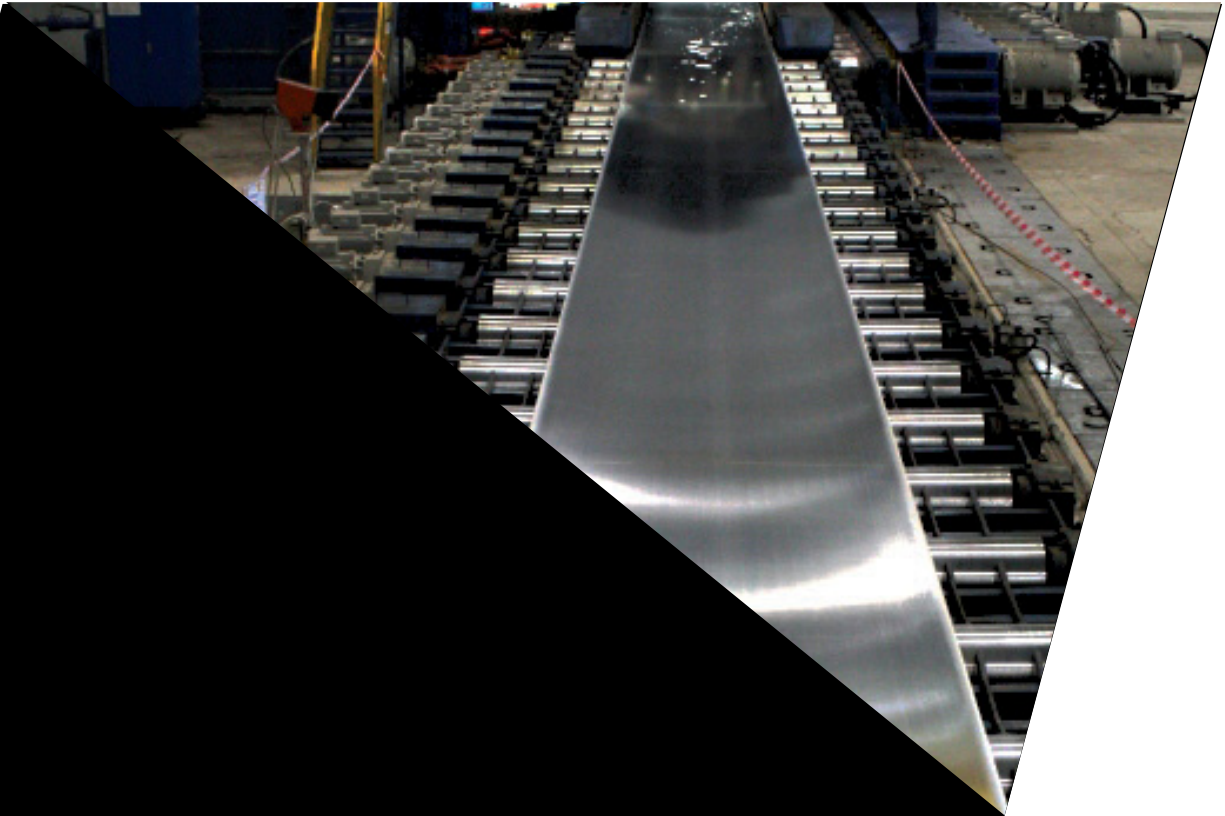


TMEiC

We drive industry

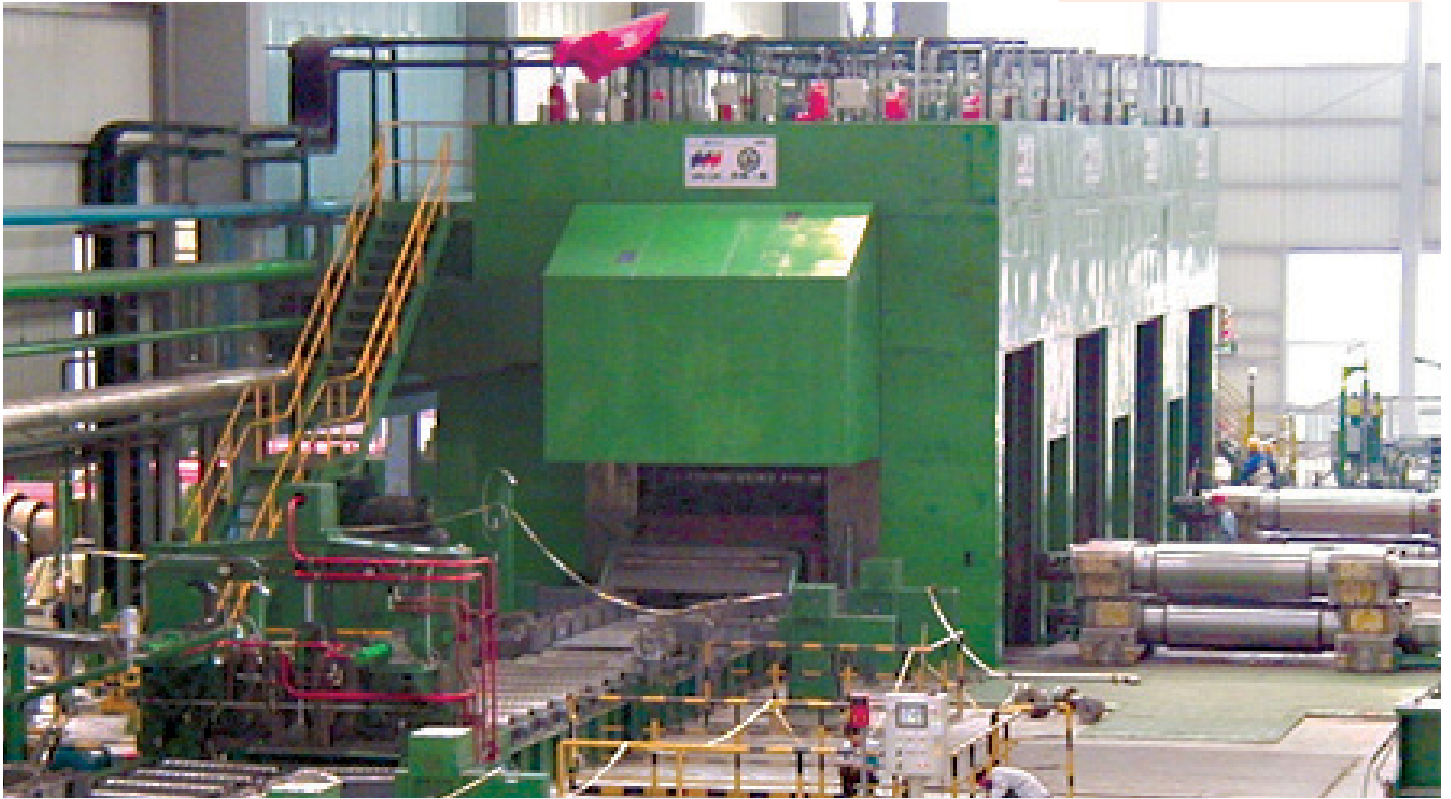


Company Profile

TMEiC

We drive industry





Aluminum Finishing Mill

TMEIC Corporate Profile

TMEIC is a leading global industrial system integrator, providing cutting-edge technologies, products and automation systems for a wide range of industrial applications including:

- The Metals industry
- Material Handling
- The Oil and Gas industry
- Mining and Cement
- Large Scale Utility Solar Power, and Utilities

TMEIC was formed in 2003 through a powerful alignment of global leaders: **Toshiba, Mitsubishi-Electric** and **GE**. TMEIC has earned a reputation since that time by supporting the legacy control systems of its parents and providing reliable, state-of-the art industrial products and system solutions for new mills. Advanced technology, excellence in engineering, and years of accumulated experience are at the heart of TMEIC's success as a world-class systems supplier.

In **Metals**, TMEIC uses capabilities built on 60 years of rolling mill experience supplying comprehensive, high-performance control solutions. TMEIC is recognized as the leading global supplier of level 2 and process model automation systems. Our range of automation capabilities includes the ability to supply complete systems using Motors, Drives, Level 1 control consisting of programmable controllers, I/O, and HMI's, Level 2 and networks, process models and instrumentation. Projects range from small upgrades to resolve obsolescence issues to complete major upgrades of mill capabilities to meet current market needs.



Main Mill Motor

TMEIC has over 50 years of **Crane** automation experience with over 2,200 installations worldwide. TMEIC pioneered the automation of stacking cranes in shipping container terminals, all computer controlled, providing customers with the maximum crane productivity.

Every step of the way, from the wellhead to the finished fuel products, TMEIC is playing an essential role in the **Oil and Gas industry**. In oil and gas pipelines, offshore platforms, and liquefied natural gas plants, TMEIC provides reliable, high-power, high-speed motors and drives resulting in energy savings and high efficiency.

In the **Mining industry**, TMEIC has served hundreds of applications in processing ore, minerals, rocks, and coal worldwide. Maximum uptime and long-term reliability are critical to all applications in surface and underground mining, including ball and SAG mills, conveyors, crushers, separators, feeders, weigh stations, pumps, mine hoists, and many more.

TMEIC is a pioneer in power electronics for Photovoltaic Inverter Systems, with more than 25 years of research and experience invested. Our Solar Ware PV stations provide cost effective solutions for large scale utility PV plants, and include advanced grid integration features designed to meet the most stringent industry standards.

TMEIC offers world class **Motors** and **Drive** systems, and is known for exceptional quality, state-of-the-art power electronics, and advanced motor technology. Driven by our customers' continuous need for increased productivity, sustained reliability, and reduced lifecycle costs, TMEIC employs cutting-edge technology in design, supported by state-of-the-art manufacturing capability to offer the world's most advanced motors and generators. With more than 100 years of motor experience, TMEIC consistently tackles tough applications around the globe with designs delivering quality, performance, and efficient operation. TMEIC offers an impressive line-up that includes large Induction Motors up to 18,000 kW, and large Synchronous Motors up to 80,000 kW.



First Coil from Mill

With over 30 years of variable speed drives experience, TMEIC offers:

- An extensive offering of high performance coordinated system drives
- Reliable general purpose Medium Voltage drives up to 16,000 kW
- Low voltage drives
- High power XL drives designed for high efficiency and power-friendly operation in a broad range of industrial applications up to 120 MVA

With concerns about natural resource conservation and improvement of the environment, we are expanding our energy savings and alternative energy technologies to meet this growing need. For example, we have a Waste Heat Recovery system using an electrical generator powered by hot furnace exhaust gas, and an energy saving system for Gantry cranes using a special diesel engine speed regulator. And our Solar Ware PV Inverter lineup is designed to provide maximum efficiency in turning sunlight into megawatts of clean renewable energy.

With **engineering, sales, and service** offices on every continent, TMEIC provides the strength of a truly global company but with the personal service and support of a local supplier. TMEIC headquarters are located in Tokyo, Japan, with regional headquarters in Virginia, London, Beijing, Hyderabad and Singapore. The heart of our U.S. operations is in Roanoke, Virginia with over 300 employees, of which 90% are degreed engineers. We pride ourselves on having the best and brightest application experts in the world.



TMdrive-70e2 Drive

Excellence in project execution is the focus of TMEiC's quality. By combining strong project management with our Project Life Cycle Process, the TMEiC team attains a level of overall performance and attitude that meets or exceeds our clients' expectations. Experienced engineering and dedicated customer service coupled with the latest business systems ensures smooth project execution and on-time delivery of complete solutions to our customers' needs.

It is easy to see why TMEiC has earned a global reputation for advanced industrial automation systems and unparalleled long-range value for global industry. TMEiC offers:

- Focus on development of highly reliable core technologies for heavy industry
- Broad selection of reliable variable frequency drives
- Rugged electric motors for all industrial applications
- Advanced control and automation systems
- Green Energy technology
- Over **2,500 engineers** worldwide with extensive metals industry application experience
- A commitment to *deliver customer success, every project, every time.*

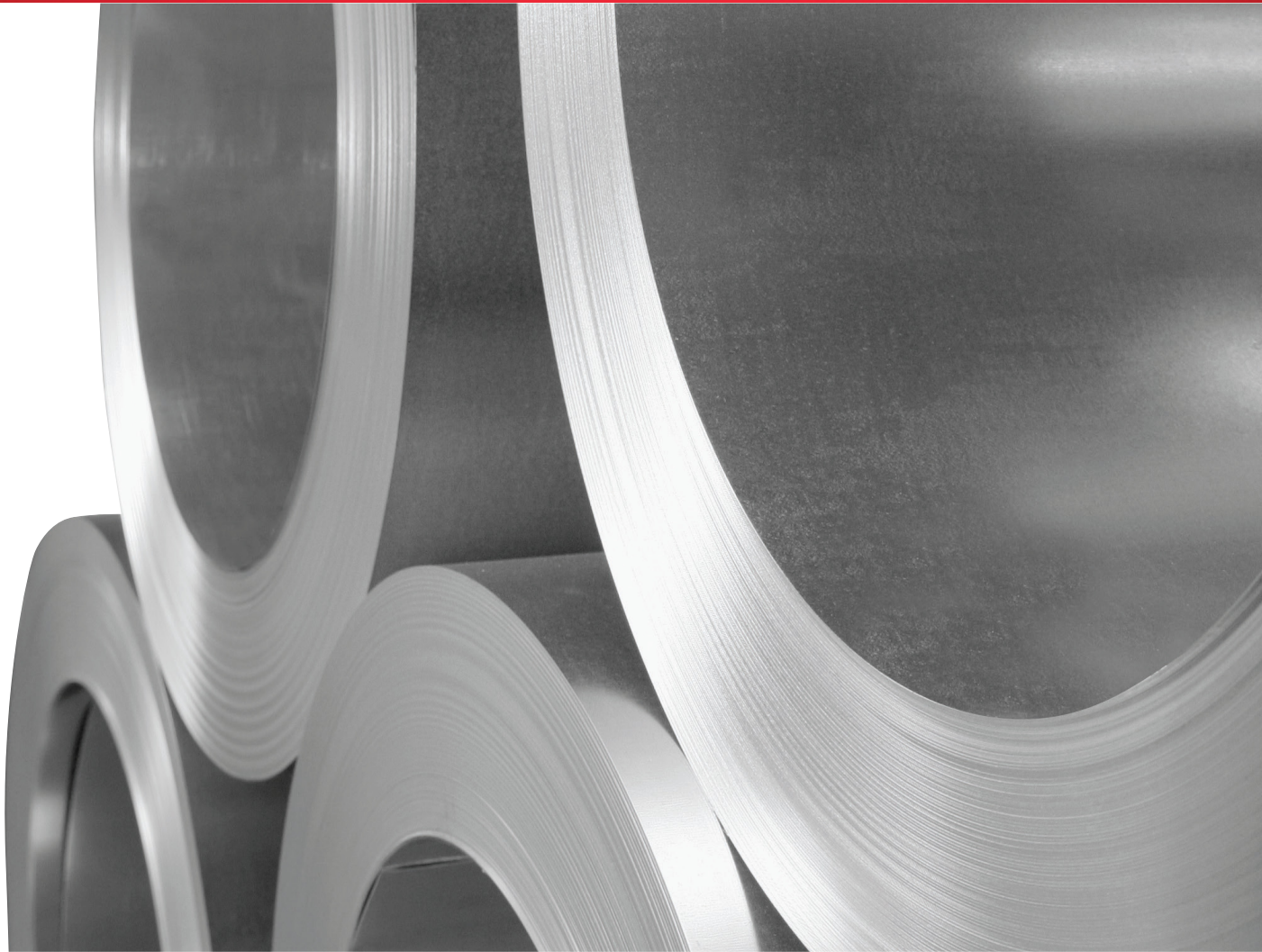
TMEiC, we drive industry

15 ALUMINUM MILLS AUTOMATED IN THE PAST 10 YEARS.

TMEIC delivers. In fact, we've been a leading force in the metals industry for more than 50 years, and have been the preferred partner for most of the recent aluminum mills in the world.

TMEIC's Advanced Process Automation Control System features fast and effective level 1 controls and integrated level 2 models for aluminum mills.

- Automatic Gage Control
- Eccentricity Compensation
- Flatness Control
- Micro tracking



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