

Technical Review Special Edition: Machinery, Equipment & Infrastructure

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Welcome to the special edition of Mitsubishi Heavy Industries Technical Review featuring our Machinery, Equipment & Infrastructure businesses.

In April 2014, Mitsubishi Heavy Industries (MHI) restructured its operational segments based on specific business domains in order to swiftly achieve a greater global presence, cultivate new business areas, and execute M&A. Our Machinery, Equipment & Infrastructure domain offers wide-ranging products that form the foundation of social and industrial developments. The lineup includes waste processing plants, tunnel boring machines, and multi-story parking structures for social infrastructure, as well as steel machinery and compressors for core industries. Also offered for various industries are engines, turbochargers, refrigerators, machining tools, forklifts, printing and paperwork machinery, food packaging systems, and injection-molding machines. In addition, further corporate restructuring is being pursued to ensure that MHI responds effectively to changing market needs with diverse products. Examples of such developments are particle accelerators, which play a key role in understanding the universe and matter, and thin, high-quality OLED panels.

This special edition highlights ten examples of products and technologies, as well as newly established breakthrough group companies and facilities showcasing recent developments in the fields of social infrastructure and industrial machinery pursued by the Machinery, Equipment & Infrastructure domain.

Featured as part of our environment-related products are two types of resource-recycling waste treatment facilities, one equipped with a hybrid power generator and another with the SMASH (SMart ASH treatment) system, which enables incinerator ash to be reused as a resource for other applications, and also a sewage-sludge incineration power-station.

For the mechanical system business, we feature the first installation of a lift park system over 100 meters high, designed for high-rise structures.

We also introduce two new companies in the industrial machinery business. Primetals Technologies Limited is a new joint venture established by former Mitsubishi-Hitachi Metals Machinery, Inc. and former Siemens VAI Metal Technologies. The company offers comprehensive upstream-to-downstream solutions to clients in the metals industry. The other featured company, Mitsubishi Heavy Industries Mechatronics Systems, Ltd., continues to evolve as it adds more diverse products to its lineup. Also in this field, we describe Mitsubishi Heavy Industries Compressor Corporation's newly opened facility in the hub of the U.S. oil and gas industry and a new mid-sized electric injection molding machine that provides high-precision, real-time integrated control during the molding process.

This edition concludes with examples of new business initiatives that showcase our particle accelerator technology, which has contributed to the development of the world's most advanced accelerator system, and OLED panels ideally suited for office space lighting.

We deeply appreciate your ongoing support and guidance in our pursuit of excellence.