

Our Technologies, Your Tomorrow

Introducing MHI Group solutions to global issues achieved through diligent research and persistent strengthening of its technological capabilities.

GLOBAL CHALLENGE

From Europe

As automotive environmental regulations become more stringent in Europe, MHI's turbochargers are being adopted to make diesels compliant.

Topic Complying with environmental regulations



Solution Turbocharger

The world's most efficient turbocharger meets Europe's demanding environmental rules

Automakers face new challenges in the European market as environmental regulations become increasingly strict, particularly fuel consumption standards. In Europe, where diesel engines predominate, turbochargers are seen as the key to environmental compliance as they help reduce emissions by controlling air volume in the engine and allow smaller engines to be used with no loss of performance. MHI has developed the world's most efficient turbocharger by leveraging its expertise in high-speed rotating machinery to continually upgrade performance and quality. This year, MHI's turbocharger production is expected to set a new record as the company aims for ten million unit sales by 2017. While the majority of turbocharged engines have been diesel and will continue to be a key part of this growth, automakers are increasingly equipping gasoline powertrains with turbochargers.

MHI will contribute to environmental progress by expanding turbocharger production sites close to its automaker customers around the world, by accelerating new product development, and by entering into new technology domains.



The global market for turbochargers is expected to grow by 50% over the next four years – with half that market growth coming from Europe.

FEATURED DOMAIN



Machinery, Equipment & Infrastructure

Offering wide range of products/services from mass and medium-lot products to plants, we play key roles in infrastructure development of countries around the world, connecting people to people and business to business

NEWS TRENDING



MHI and Hyflux contract signing for Tuas 6th waste to energy plant

Turning Singapore's Waste to Energy

Singapore will soon have even greater waste-to-energy (WtE) capacity thanks to a new plant to be built and managed by the MHI Group and Hyflux Ltd. (a leading Singapore water treatment and supply specialist). The new incinerator at Tuas will be able to turn 3,600 tons/day of garbage into 120 MW of power. Once construction is completed in the first half of 2019, the partners will manage, operate and maintain the plant for 25 years. With three such WtE plants already built in Singapore, including the Tuas South WtE in operation since 2000 and ranked among the world's largest in processing capacity of 4,320 tons/day, the new facility will greatly serve to further promote the MHI Group as the leading player in the region. With this latest project the MHI Group hopes to establish a successful model for public-private partnership projects in Southeast Asia and make a significant contribution to global environmental progress.



Large-scale centrifugal chiller, AART-270I each with 2,500 refrigeration tons ton capacity

Cooling Saudi Arabia's air

Visitors and residents of Medina, Saudi Arabia, will soon enjoy more comfortable air temperature thanks to the installation of 80 large-scale centrifugal chillers, made by MHI, in the district cooling plant that serves an urban development project in the desert city. With total refrigeration capacity of nearly 200,000 tons, these centrifugal chillers will be responsible for supplying chilled water to an area spanning about 1.6 million square meters. MHI won the contract on the strength of its chillers' reputation for high-level refrigeration efficiency and environmental performance. Delivery of these AART-270I centrifugal chillers began in the fall of 2015.



EVOL 4FGR-100 Flexo folder gluer

Cladding the world in cardboard

EVOL, corrugated box making machine manufactured by Mitsubishi Heavy Industries Printing & Packaging Machinery, Ltd. (MHI-PPM), is making a name for itself around the world. Used to produce cardboard boxes, EVOL's superior productivity and quality led to a recent order for dozens of units from a leading packaging manufacturer in the U.S. This came on the heels of recent orders from Asia and Europe.

In addition to the Machinery, Equipment & Infrastructure domain featured in this issue, the business and products of all MHI domains serve an active role throughout the world.

Energy & Environment



Provides optimal solutions beneficial to society in the thermal, nuclear and renewable energy fields, environmental water and flue gas treatment and industrial infrastructure, including chemical plants MHI offers

Commercial Aviation & Transportation Systems



Delivers reliable and advanced land, sea and air transportation systems for transportation and logistics infrastructures, such as civilian aircraft, commercial ships and transit networks

Integrated Defense & Space Systems



Contributes to safety and security with integrated defense systems and space-related services for land, sea, air and space, e.g., defense aircraft and launch vehicles