

Meet  
05

Dongguan City, Guangdong Province, China

**With Ninja-like agility – quick mobility, installation and commissioning!**

There are still many regions in the world with insufficient power supplies, and MEGANINJA, a container-configured gas-powered generation system, is bringing light where once there was darkness. MEGANINJA's strengths are its easy trailer transportation; quick installation; power generation within 24 hours when gas pipes have been pre-installed onsite; and higher generation efficiency and low CO<sub>2</sub> emissions using natural gas as its fuel. China should become a lucrative market for MEGANINJA under the country's new governmental policy of introducing natural gas engine distributed power generation systems with a total output of 50 GW by the year 2020. In line with this policy, MHI established the Gas Engine Distributed Power Generation Engineering Center in Shanghai, and in July 2012, the first MEGANINJA unit was delivered in Dongguan City. In Indonesia and the U.S. strong demand for gas engine distributed power generation is also highly expected. MEGANINJA, a ninja from Japan, will play a remarkably important role in our daily lives and in meeting the urgent power demands arising around the world.



Quick mobility, quick installation, quick commissioning!  
Within 24 hours of arrival onsite MEGANINJA is generating 1,500 kW of power!

The all-in-one 40 ft container equipped with power generating functions.

Meet  
06

Tokyo International (Haneda) Airport

**Welcome aboard! Completely barrier-free passenger boarding bridges!**

On March 30, 2014, coinciding with the opening of the extended section of the International Passenger Terminal of Tokyo International (Haneda) Airport, 16 more barrier-free passenger boarding bridges (PBB) went into service. With the 21 barrier-free PBBs delivered in October 2010 when the terminal first commenced operations, MHI has now supplied a total of 37 units. PBBs connect airport buildings to aircraft and protect arriving and departing passengers from the wind and rain. Conventional PBBs function like a telescope with a series of sliding corridors and required a ramp at each joint section. Even in this present age of universal design, the ramps were considered as structurally unavoidable, especially for passengers in wheelchairs. To solve this inconvenience, Mitsubishi Heavy Industries Transportation Equipment Engineering & Service Co., Ltd., a group company of MHI, radically improved the conventional PBB structure. To ensure a uniform corridor floor height, the company engineers introduced a skid conveyor design often used for distribution conveyors and produced the world's first completely flat, barrier-free corridor floor. Increasingly throughout the world's airports, as the barrier-free PBB is introduced, many more passengers will enjoy stress-free, barrier-free boarding and more comfortable air travel courtesy of MHI.



From the airport terminal building to the aircraft and back again; a smooth barrier-free, stress-free space unfolds before passengers.

A smooth barrier-free flat floor and a wider, safer corridor



No more ups and downs; wheelchairs and strollers roll smoothly along the corridor.

View video clips on MHI's website



# Meet MHI

Life with MHI

Machinery, Equipment & Infrastructure

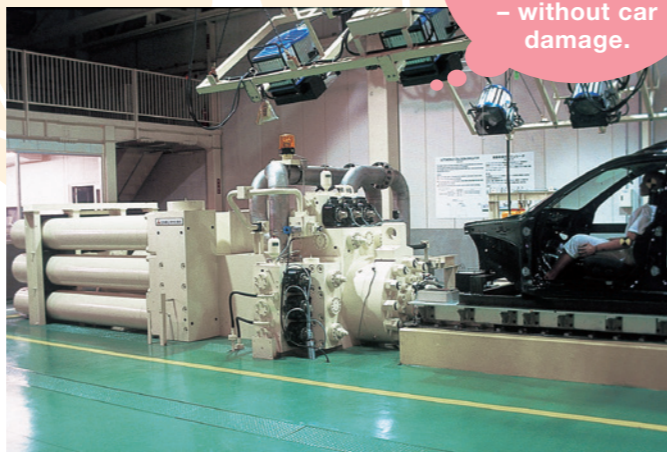
MHI's innovative technologies and outstanding products surround us, expanding across land, sea, air, and even out into space. The company is quietly supporting every aspect of our daily lives – technologies from Japan across the world and far beyond.

Meet  
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Gunma Prefecture and other areas

**A non-destructive car crash test with no car? An innovative simulator for vehicle safety!**

Conventional car crash tests are costly because very expensive cars are actually used and incur real damage, resulting in higher development cost. To offset this, MHI has applied its hydraulic control technology accumulated through research and development of aircraft and testing systems to become the first Japanese manufacturer in this area to develop a non-destructive car crash simulator. This simulator accelerates a test object using a computer-controlled hydraulic system to reproduce driver and passenger behavior in a crash. Without destroying a real car, high-precision data can be collected, resulting in significant savings in the cost and development time of new vehicles and safety components, such as airbags and seat belts. Thanks to MHI, every day, one simulated crash at a time, car journeys are becoming safer for all of us.



A simulator supporting all possible collision regulations, e.g. frontal crash, low-speed rear impact

Simulator for periodic inspections readily compiles car collision data – without car damage.

Meet  
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Countries of the world

**Turbochargers full on and leading the way in the fuel-efficient and low-emission era**

Turbochargers recover engine heat to improve efficiency and power output. They also contribute to lower fuel consumption of cars, a reduction in the amount of toxics in exhaust gas, and the downsizing of engines. Against the background of a worldwide movement to tighten fuel consumption legislation, such as the U.S. Corporate Average Fuel Economy (CAFE) regulations, the demand for turbochargers is rapidly increasing. By making good use of synergy with high-speed rotating machine technology, such as gas turbines and jet engines, MHI is taking the lead in the development

and production of turbochargers. At present, MHI turbochargers are quietly rotating under the sleek hoods of the world's most renowned automobiles, and the company, anticipating increased demand in Europe, America and Asia, is gearing up to establish a production system to manufacture ten million units annually. On the highways of the world, MHI turbochargers are running hard to create an eco-friendly automobile society.

Manufacturers from around the world highly rate MHI performance and quality, and the MHI turbocharger evolution aims to win the world's top share.



MHI turbochargers power a diverse range of vehicles all over the world.