Mitsubishi Heavy Industries (MHI) Group is one of the world’s leading industrial groups, spanning energy, smart infrastructure, industrial machinery, aerospace, and defense. MHI Group combines cutting-edge technology with deep experience to deliver innovative, integrated solutions that help to realize a carbon neutral world, improve the quality of life and ensure a safer world.

**OUR PRINCIPLES**

- We deliver reliable and innovative solutions that make a lasting difference to customers and communities worldwide.
- We act with integrity and fairness, always respecting others.
- We constantly strive for excellence in our operations and technology, building on a wide global outlook and deep local insights.

**TAGLINE**

**MOVE THE WORLD FORWARD**

Our tagline embodies our commitment to move the world forward together with customers, partners, and society.

**MISSION NET ZERO**

Mitsubishi Heavy Industries Group will contribute to the realization of net zero for society as a whole.
With a perspective gained from 130 years of history and tradition on land, at sea, in the sky and in space, we address social issues and take on challenges for the future.

1880 – 1945
Building a Transportation Infrastructure from Roots in Shipbuilding

MHI’s monozukuri began with the lease of Nagasaki Shipyard from the Ministry of Industry. Even as the company built Japan’s first steel steamship and battleships, it applied the technology and knowledge cultivated in these endeavors to begin production of automobiles and aircraft, thereby expanding its range of business as a comprehensive manufacturer of transportation equipment. As global tensions rise, the company entered into an age in which its technologies—more advanced than those of most countries at that time—would be diverted to military use.

1946 – 1963
Supporting Post-war Recovery with Consumer Products

After the war, in accordance with national policy, MHI shifted its emphasis from military hardware to the development and manufacture of scooters, air conditioners, and many other types of consumer products. In 1950, in line with the GHQ’s policy of dissolving large industrial groups (zaibatsu), MHI was divided into three independent companies. As a result, the scale of products grew more diverse, and the three companies fell into competition. However, this technology race would form the foundation for the leading company in heavy industry.

1964 – 1990
Merging of Three Heavy Industry Companies Leads to Large-scale Development

In 1964, the same year Tokyo hosted the Summer Olympics, the three principal heavy industry companies reunited, creating today’s form of MHI Group. Its products expanded to encompass the fields of land, sea, and air, and included oil-drilling rigs, power plants, tankers and bridges. In addition, the successful lift-off of the H-I launch vehicle occurred during this period, and the Group’s participation in full-fl edged space development began.

1991 –
Supporting a Sustainable Society as a Comprehensive Infrastructure Company

MHI Group has always sought high efficiency, and as the trend toward global environmental conservation gains momentum and the concept of ecology becomes commonplace, the company’s gas turbine, eco-ship and other technologies and product fields are expanding on a global scale. The Group is working to develop technologies and products that help make society more sustainable while raising its profile worldwide as a comprehensive infrastructure company.

SPACE:

SKY:

LAND:

SEA:

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ENERGY SYSTEMS

2. Steam Power Plant/JERA Co., Inc. Hitachinaka Thermal Power Station No. 1, No. 2 (Japan)
4. Flue Gas Desulfurization Plant/Kozienice Power Plant (Poland)

Aero-derivative Gas Turbine FT8® MOBILEPAC®

LP Steam Turbine Rotor with 54-Inch Blades for Nuclear Power Plant

1,028 MVA Turbine Generator

Hydrogen Gas Turbine

Control Systems and Upgrades

Organic Rankine Cycle (ORC) Power System

MET Turbocharger

Auxiliary Boiler

Fin Stabilizers

Steering Gear

V2500 Series (Turbofan)

Trent Series (Turbofan)

PW1000G Series (Turbofan)

MRO: Maintenance, Repair and Overhaul

TS1 (Turboshaft) Engine, Output Power: 884 SHP [Observation Helicopter OH-1]

Cracked Gas Compressors and Steam Turbines for Ethylene Plant

Main Gas Compressor Trains for FPSO

Product Gas Compressors and Steam Turbines for PDH Plant

Rotor of Steam Turbines

NUCLEAR ENERGY SYSTEMS

1. Pressurized Water Reactor (PWR)/Kansai Electric Power Co., Inc. Takahama Nuclear Power Station Nos. 1-4 (Japan)
2. Rokkasyo Reprocessing Plant
3. Advanced Light Water Reactor “SRZ-1200”
4. Small Reactors (Multi-purpose Power Source)
5. Fast Reactor (Power Generation Reactor)
6. High Temperature Gas-Cooled Reactor (for Hydrogen Production)
7. International Thermonuclear Experimental Reactor (Nuclear Fusion Reactor)
8. Reactor Vessel
9. Steam Generator
10. Reactor Internals
11. Reactor Coolant Pump
12. Fuel

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LOGISTICS, THERMAL & DRIVE SYSTEMS

1. Counter Balanced Trucks
2. Small-sized Engine-powered Forklift
3. Large-sized Engine-powered Forklift
4. Storage System
5. Laser-guided AGF
6. Diesel Engine Generator Set, MGS
7. Gas Engine Cogeneration System
8. Gas Engine
9. Marine Diesel Engine
10. Small Diesel Engine
11. Gas Engine
12. Triple Hybrid Stand-alone Power Supply System, EBLOX
13. Turbocharger for Gasoline Engine Integrated with Sheet-metal Exhaust Manifold
14. Variable Geometry (VG) Turbocharger for Diesel Engine
15. Variable Geometry (VG) Turbocharger for Gasoline Engine
16. Residential Air-conditioner
17. Inverter Packaged Air-conditioner
18. Multi-split Type Air-conditioner
19. Air-sourced Heat Pump Chiller, MSV
20. Commercial Use CO₂ for Air-to-Water Heat Pump, Q-ton and Tank
21. Variable Speed Drive Centrifugal Chiller, ETI-Z
22. Plug-in Hybrid Transport Refrigeration Unit, TE30
23. Electric Scroll Compressor
24. Belt-type Scroll Compressor
25. HVAC Module (Heating, Ventilation and Air-conditioning)

MACHINERY SYSTEMS

1. Cultural/Sports Facility (Saitama Super Arena)
2. Full-scale Aero-acoustic Wind Tunnel
3. Mechanical Parking System
4. Industrial Chimney
5. Penstock
6. Car Crash Simulator
7. Aseptic Filler
8. Intelligent Transport System
9. Accelerator
10. Box Making Machine, EVOL
11. Newspaper Offset Press, DIAMONDSTAR
12. Tire Inspection Machine

LOGISTICS, THERMAL & DRIVE SYSTEMS/MACHINERY SYSTEMS

MITSUBISHI LOGISNEXT CO., LTD.
Material Handling Equipment

MITSUBISHI HEAVY INDUSTRIES ENGINE & TURBOCHARGER, LTD.
Engine & Energy

MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.
Air-Conditioning & Refrigeration

MITSUBISHI HEAVY INDUSTRIES MACHINERY SYSTEMS, LTD.
Machinery Systems

MITSUBISHI MAHINDRA AGRICULTURAL MACHINERY CO., LTD.
Agricultural Machinery
INTEGRATED DEFENSE & SPACE SYSTEMS

1. F-2 Fighter  
2. F-15J Jet Fighter  
3. SH-60K Maritime Patrol Helicopter (JMSDF)  
4. Air-to-Air Missile (AAM-5B)  
5. Surface-to-Air Missile System (PATRIOT PAC-3 (MSE))  
6. SM-3 Block 2A Flight Test  
7. Type 12 Surface-to-Ship Missile System (12SSM)  
8. Launch of H-IIA Launch Vehicle  
9. Launch Complex for Japan Aerospace Exploration Agency (JAXA)  
10. HTV-X (Under Development)  
11. LE-9 LOX/LH2 Engine, Thrust: 1471kN (Vacuum) for H3 Launch Vehicle First Stage  
12. Cell Biology Experiment Facility-Left (CBEF-L) for “KIBO” Module on International Space Station (ISS)  
13. Space Propulsion Systems/Monopropellant Thrusters  
14. Type 10 Main Battle Tank  
15. Type 16 Mobile Combat Vehicle  
16. Heavy Wheeled Recovery Vehicle  
17. Forklift with Radiation Shielded Cabin  
18. 6NMU Engine  
19. Frigate, MOGAMI  
20. Submarine, TAIGEI  
21. Ocean Surveillance Ship, AKI  
22. Patrol Vessel, MIYAKO  
23. Torpedo/Unmanned Underwater Vehicle (Fr-Jp Joint Research Project)  
24. Vertical Launching System (VLS MK41)  
25. Excavator (JOGNEC)  
27. Networked Coastal Security System, CoasTitan™  

COMMERCIAL AVIATION SYSTEMS

1. Boeing 787 (MHI: Composite Main Wings)  
2. Boeing 787 Composite Main Wings before Shipping  
3. Boeing 777X (MHI: Aft Fuselage Panels, Tail Fuselage, Passenger Entry Doors & Bulk Cargo Doors)  
4. Boeing 737 (MHI: Inboard Flaps)  
5. Boeing 767 (MHI: Aft Fuselage Panels & Cargo Doors)  
6. Bombardier Challenger 300/350 (MHI: Wings)  
7. Bombardier Global 5000/6000 (MHI: Wings, Center Fuselage & Center Wing)  
8. CRJ  
9. Passenger Steps with Elevator