**Brief History**

- **1969**
  - Mitsubishi Power’s Takasago Works was formed as a result.
  - Mitsubishi Heavy Industries, Ltd., a company engaged in the manufacturing of gas turbines and other related products, established its Takasago Machinery Works.
- **1986**
  - Established the Technical Skill Education Center at the Takasago Machinery Works.
- **1992**
  - Developed the 1,250°C class gas turbine (MF-111).
  - Built a gas turbine combined cycle power plant for verification testing.
- **1997**
  - Manufactured the first set of nuclear turbines.
  - Developed the 1,500°C class gas turbine (M501G).
- **1999**
  - Began demonstrating the operation of a 1,500°C class gas turbine (M501G).
- **2001**
  - Built a gas turbine combined cycle power plant for verification testing.
  - Produced the first gas turbine.
  - Launched full load verification test of the world’s first steam cooled gas turbine.
  - Shin Mitsubishi Heavy Industries’ Kobe Shipyard & Machinery Works started operations for exclusive turbine production.
- **2004**
  - Built a gas turbine combined cycle power plant at the Kawasaki Thermal Power Plant of Tokyo Electric Power Co., Inc.
  - Launched validation of M501JAC gas turbine with turbine inlet temperature 1,600°C class J-series gas turbine.
  - Renamed Mitsubishi Power, Ltd.
- **2007**
  - Began commercial operation of the M701G2 gas turbine combined cycle plant at the Kimitsu Cooperative Thermal Power Plant.
  - Established the Technical Skill Education Center at the Takasago Machinery Works.
  - Developed a turbine inlet temperature 1,600°C class J-series gas turbine.
- **2009**
  - Ship its 500th gas turbine.
- **2011**
  - Began commercial operation of the M701G2 gas turbine combined cycle plant at the Kawasaki Thermal Power Plant of Tokyo Electric Power Co., Inc.
- **2014**
  - Renamed Mitsubishi Hitachi Power Systems, Ltd., a joint venture company formed by Mitsubishi Heavy Industries and Hitachi integrating thermal power generation systems and other related businesses, established. Mitsubishi Hitachi Power Systems’ Takasago Works was formed as a result.
- **2016**
  - Launched validation of M501JAC gas turbine with turbine inlet temperature 1,600°C class J-series gas turbine.
  - Eggs EGAT Diamond Service Co., Ltd. built a gas turbine high temperature parts repair plant in Thailand.
- **2020**
  - MPSA built the Savannah Machinery Works, a U.S. facility that manufactures gas turbines.
  - TAKASAGO MACHINERY WORKS
  - 2-1-1 Shinhama, Arai-cho, Takasago-shi, Hyogo 676-8686, Japan  Phone: +81-79-445-6125

**TAKASAGO SINCE 1962**

Takasago Machinery Works aims for decarbonized society through advanced technology

- Committed to the development of advanced gas turbines and other related products to contribute to the decarbonization of society.
- Takasago Machinery Works has started aiming to help achieve a decarbonized society through advanced technology.
- Today, Takasago Machinery Works manufactures a variety of solutions, including high performance gas turbines, steam turbines, and other related products.

**TAKASAGO MACHINERY WORKS**

- Area
  - 1,306,811.4 m² (14,087,622 sq ft)
  - 307.7 ha (763.0 acres)
- Annual Production Capacity
  - Gas Turbine
    - 36 units
  - Steam Turbine
    - 3 to 6 units
  - Gas Turbine
    - 3 to 6 units
- International Certifications
  - ISO 9001 Quality Management System
  - ISO 14001 Environmental Management System
  - BS OHSAS 18001 Health and Safety Management System
  - API 6CD Standard for Natural Gas Turbines
  - ASME, CE, PED, CB, TUV, etc.

**Mitsubishi Tower, a power station in the United States**

- Mitsubishi Heavy Industries, Ltd.

**Map**

- TAKASAGO MACHINERY WORKS
- 2-1-1 Shinhama, Arai-cho, Takasago-shi, Hyogo 676-8666, Japan

**Contact Information**

- Phone: +81-79-445-6125
Hydrogen Park Takasago

Hydrogen Park Takasago, a hydrogen power demonstration facility, has been established on the premises of Takasago Machinery Works in order to address the emergent need for energy decarbonization. By promoting the development of hydrogen gas turbines and hydrogen production facilities, Takasago Machinery Works is working to create a carbon-neutral society and hydrogen production technology.

The Mitsubishi Power protocol for long-term product validation—demonstrated in the original T-Point at Takasago Machinery Works in 1997—is being applied to the world’s largest turbine testing facility. In addition, TOMONI HUB (Analytics and Performance Center) goes beyond traditional remote monitoring to offer global fleet-wide centralized resources for advanced operation and maintenance through diagnosis through real-time operational data analysis around the world 24 hours a day.

Strengths of Takasago Machinery Works

Mitsubishi Power’s Takasago Machinery Works conducts R&D, design, manufacturing, and validation of power solutions and steam turbines. Its production systems are efficient and include materials and processes that are validated via the world’s largest turbine testing facility. Additionally, TOMONI HUB (Analytics and Performance Center) goes beyond traditional remote monitoring to provide a global fleet-wide centralized resource for advanced operation and maintenance.

Validation

Total validation before actual machine deployment is critical to longer-term customer satisfaction and ensuring a successful power generation facility. To achieve those objectives, Mitsubishi Power has constructed a dedicated facility for the in-line process validation of combined cycle power plants. This facility is the world’s largest turbine testing facility. “T-Point 2” with its gas turbines and the state-of-the-art 1,650°C 280 MW class combined cycle system, is the first in the world to produce power using hydrogen and validate the energy and carbon emissions. Today, we plan to lead the way for a hydrogen-based society.

Manufacturing

Japanese design standards and quality control are ideal for production in line with the company’s goals for the hydrogen age. Sophisticated machinery management and factory operating procedures are validated via the world’s largest turbine testing facility. Additionally, TOMONI HUB (Analytics and Performance Center) goes beyond traditional remote monitoring to offer global fleet-wide centralized resources for advanced operation and maintenance through diagnosis through real-time operational data analysis around the world 24 hours a day.

Technical development that makes full use of the company’s in-house validation resources ensures that power plants of the future will be ready for deployment.

Hydrogen Park Takasago

Takasago Machinery Works

Main Office
No. 1 Blade Shop (Compressor Blade)
No. 2 Blade Shop (Compressor Blade)
No. 3 Blade Shop (Compressor Blade)
No. 4 Blade Shop (Compressor Blade)
No. 5 Blade Shop (Compressor Blade)
No. 6 Blade Shop (Gas Turbine Blade)
No. 7 Blade Shop (Gas Turbine Blade)
No. 8 Blade Shop (Gas Turbine Blade)
No. 9 Blade Shop (Gas Turbine Blade)
No. 10 Blade Shop (Gas Turbine Blade)
Turbine Rotor Shop
Combustion Shop (Transition Piece)
Combustion Shop (Fuel Nozzle & Basket)
Turbine Rotor Shop
Combustion Shop (Transition Piece)
Combustion Shop (Fuel Nozzle & Basket)
Hot Parts Repair Shop
Compressor Shop
Gas Turbine Component Testing Facility
Takasago Machinery Works
Takasago Machinery Works
Hydrogen Park Takasago
Takasago Machinery Works