TAKASAGO WORKS

Aims for decarbonized society through advanced technology.

Today, Takasago Works manufactures a variety of solutions, including high performance gas turbines, steam turbines and other industrial products. As climate change becomes more of a concern, we are committed to providing efficient products that help improve energy efficiency and reduce CO2 emissions. We are continually improving our technology and expanding our product offerings to meet the needs of a decarbonized society.

Our gas turbine business has been leading the way in developing highly efficient and reliable gas turbines for power plants and industrial applications. We have manufactured and delivered numerous gas turbines to customers around the world, contributing to the advancement of energy efficiency and environmental protection.

Our steam turbine business has also been a key player in the power generation industry, providing high-quality and reliable steam turbines for various power plants. We are dedicated to meeting the changing needs of our customers and the energy market, and we continue to innovate and expand our product offerings.

In addition to our gas and steam turbines, we also provide a wide range of other products and services, such as turnkey projects and maintenance services. We are committed to providing our customers with the best possible solutions and support to satisfy their needs.

Our production facilities are located in Japan, and we have a global network of sales and service offices. We are proud to be a part of the Mitsubishi Heavy Industries group, which has a long history of innovation and excellence in the energy and industrial sectors.

We believe in the importance of sustainability and are committed to reducing our environmental impact. We continue to develop new technologies and processes to minimize our carbon footprint and contribute to a greener future.

TAKASAGO SINCE 1962

Takasago Works was originally set up in 1962 to serve as a turbine manufacturing plant for large capacity power plants and machinery. Today, Takasago Works represents a world of excellence, winning high performance gas turbines, steam turbines, and other industrial products. As climate change becomes more of a concern, we are committed to providing efficient products that help improve energy efficiency and reduce CO2 emissions. We are continually improving our technology and expanding our product offerings to meet the needs of a decarbonized society.
The Mitsubishi Power production line currently covers a broad range of equipment, from gas turbine power plants to nuclear power generation systems. The company has a long history of innovation, particularly in the field of gas turbines, having pioneered the concept of combined cycle power plants in the 1960s. Over the years, Mitsubishi Power has maintained a commitment to long-term product validation, ensuring that new technologies are thoroughly tested before their introduction into the market.

### Strengths of Takasago Works

Mitsubishi Power’s Takasago Works conducts R&D, design, manufacturing, and validation of power solutions and technologies. Our production systems are in place in a high-quality and reliable environment and are driven by the latest technological advancements. Not only does Takasago Works boast state-of-the-art facilities, but it also has a dedicated team of experts who are committed to achieving top-quality results.

### Main Products

- **Gas Turbine Power Generation Equipment**
- **Nuclear Power Turbine Generation Equipment**

### Examples of Products

- **M501JAC Gas Turbine Rotor**
- **Nuclear Power Steam Turbine**

### Initiatives for a Carbon-Free Society

- Mitsubishi Power’s initiatives to reduce CO2 emissions focus on the use of hydrogen technology. When used as fuel, hydrogen does not emit CO2, making it a promising solution for decarbonizing power systems.

- The company has been developing hydrogen co-firing technology, which is currently being tested at Takasago Works. A large hydrogen gas turbine has been installed to undertake combined cycle power generation. This technology is expected to significantly reduce carbon emissions of thermal power generation. Hydrogen technology therefore has great potential to decarbonize power systems at a global scale.

- Other initiatives include the use of advanced technologies like artificial intelligence and machine learning for predictive maintenance and operational efficiency.

### Validation and Testing Facility

- **T-Point 2** is a new validation facility on the site of the previous T-Point. It will be used for testing and validating the latest gas turbine technologies, ensuring their reliability and efficiency before they are introduced into the market.

- The facility is designed to simulate real-world operating conditions, allowing engineers to test and refine new technologies before their deployment.

### Research and Development

- **R&D** includes technical development that makes full use of today’s most advanced technology. Mitsubishi Power’s Takasago Works is committed to innovation and is constantly developing new products and technologies.

- **Design** is focused on creating products that incorporate state-of-the-art technology, are manufactured with materials of the highest quality, and are validated via the latest technology.

- **Manufacturing** ensures that high-quality products are delivered on time and to the highest standards. The company’s commitment to manufacturing excellence is reflected in the quality of their products, which are known for their reliability and durability.

### Remote Monitoring Center

- Monitoring of the operational status of plants at a global scale is conducted through the **Remote Monitoring Center**. This allows for real-time diagnostics and performance monitoring, ensuring that any issues can be addressed promptly to maintain optimal operations.

- The center is equipped with sophisticated technology to provide detailed insights into the performance of Mitsubishi Power’s products, enabling proactive maintenance and ensuring efficient operations.

### Manufacturing Facility

- **Manufacturing** facilities are designed to produce high-quality products efficiently and cost-effectively. The company’s commitment to manufacturing excellence is evident in the quality of their products, which are known for their reliability and durability.