Hitachi Works was founded in 1930 as an electrical equipment repair and manufacturing facility. After nearly a century of developing sophisticated technologies, precision manufacturing and cutting-edge facilities, it has remained a microcosm of industrial pioneering and continues to push the envelope with societal enrichment as its primary objective.

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System

Annual Production Capacity

- Steam Turbines: 7,500 MW
- Gas Turbines: 1,200 MW
- Turbine Generator: 15,000 MVA

Brief History

1910 - Started machine manufacturing and repairing as an independent annex to Hitachi Mine, Kuhara Mining Co., Ltd.
1912 - Started marketing products as Hitachi Seisakusho Kuhara Mining Co., Ltd.
1918 - 1,000 kVA Steam Turbine Generator completed.
1920 - Incorporated as Hitachi, Ltd. with ¥10 million paid-in capital.
1930 - Kaigan Factory established.
1933 - 2.8 MW Land Steam Turbine completed.
1945 - Kaigan Factory destroyed.
1956 - The electrical machinery repair shop was named the Initial Workshop and restored in the Kaigan Factory.
1962 - The first Nuclear Turbine (138.6 MW) completed.
1964 - The first H-25 Type Gas Turbine (25 MW class) completed.
1970s - Started development of supercritical steam turbine power generation systems.
1980s - Developed and commercialized the world’s first high-temperature supercritical steam turbine.
1990s - Developed the world’s first high-performance high-temperature supercritical steam turbine.
2000s - Developed and commercialized the world’s first 800 MW class supercritical steam turbine.
2010s - Developed and commercialized the world’s first 1,000 MW class supercritical steam turbine.
2020s - Developed and commercialized the world’s first 1,200 MW class supercritical steam turbine.

HITACHI SINCE 1930

Powering the Energy Needs of Tomorrow

Hitachi Works today continues to support the growth of the electric power industry by providing advanced technologies, products, and services for a sustainable and reliable energy supply.

Industrial Certifications

- ISO 9001:2015 Quality Management System
- ISO 14001:2015 Environmental Management System

Hitachi works in a 434,000 m² area.

- Steam Turbines: 1,400 MW
- Gas Turbines: 1,200 MW
- Turbine Generator: 15,000 MVA

Installation of World’s Largest High Speed Balance (HSB) Turbine Generator

- Mitsubishi Power, Ltd.

Mitsubishi Power, Ltd.

power.mhi.com
HITACHI WORKS

Main Products

- H-100 Gas Turbine
- Hydro Pump-Turbine (Commissioned product by Hitachi Mitsubishi Hydro corporation)
- Nuclear Power Steam Turbine Generator
- Thermal Power Steam Turbine Generator
- H-25 Gas Turbine

Main Production Facilities

- Main Gate
- Main Office
- Long Blade Welding Shop for Steam Turbines
- First Combustor Shop for Gas Turbines
- Second Combustor Shop for Gas Turbines
- Large and Mid-Sized Fabrication and Welding Shop
- Gas Turbine Hot Parts Coating Shop
- Mid-Sized Component Shop for Steam Turbines
- CNC Large Rotor Lathe
- CNC Large Portal Boring and Milling Machine
- CNC Horizontal Boring and Milling Machine (Spindle Diameter: 200)
- High Speed 5 Axes Machining Center for Steam Turbine Blades
- Side-Entry Processing Machine for Turbine Rotor
- 6,000-ton Hydraulic Press

Our company has original material technologies for metal additive manufacturing, which enables us to provide the alloys with optimized mechanical properties for different purposes.

AM : Additive Manufacturing

Additive Manufacturing Shop (AM-Zone®)

Outline

- Steam Turbine Blade and Vane, Mid-Sized Component Shop
- Gas Turbine Stationary Blade and Vane Shop
- Gas Turbine Finishing Blade Shop
- Steam Combining Blade Shop
- Atmospheric Gas Shaping Shop
- Large Component Assembly Shop
- First Large Component Machining and Assembly Shop for Turbine
- Second Large Component Machining and Assembly Shop for Turbine
- HAM on High Speed Balancing (HSM)
- Related Component Finishing Shop
- Steam Turbine Finishing Machining and Assembly Shop
- Mid-Sized Component Machining Shop
- Steam Turbine Finishing Machining and Assembly Shop
- Additive Manufacturing Shop (AM-Zone®)
- First Large Component Machining and Assembly Shop for Turbine
- Second Large Component Machining and Assembly Shop for Turbine
- Generator Core Stamping Shop
- Large Component Assembly Shop
- Machining Shop for Generator Components
- Generator Coil Shop

Gas atomization equipment
3D printer (powder bed fusion)

Our equipment include master ingot melting, gas atomization, various types of metal AM equipment, machining equipment, and 3D dimensional measuring equipment.