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**

- Started machine manufacturing and repairing as an independent annex to Hitachi Mine, Kuhara Mining Co., Ltd.
- Started marketing products as Hitachi Seisakusho Kuhara Mining Co., Ltd.
- 1,000 kVA Steam Turbine Generator completed.
- Incorporated as Hitachi, Ltd. with ¥10 million paid-in capital.
- Kaigan Factory established.
- 2.8 MW Land Steam Turbine completed.
- Kaigan Factory destroyed.
- The electrical machinery repair shop was named the Initial Workshop and restored in the Kaigan Factory.
- The first Nuclear Turbine (138.6 MW) completed.
- The first H-25 Type Gas Turbine (25 MW class) completed.

**HITACHI SINCE 1930**

- 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.
- 1933: Kaigan Factory established.
- 1945: 2.8 MW Land Steam Turbine completed.
- 1956: Kaigan Factory destroyed.
- 1972: The electrical machinery repair shop was named the Initial Workshop and restored in the Kaigan Factory.
- 1988: The first Nuclear Turbine (138.6 MW) completed.
- 1993: The first H-25 Type Gas Turbine (25 MW class) completed.

**Powering the Energy Needs of Tomorrow**

- Mitsubishi Power, Ltd. was founded in 1993 as an electrical equipment repair and manufacturing facility. After many years of developing advanced technologies, precision manufacturing and cutting-edge facilities, it has established itself as an international provider with capabilities to meet the needs of its clients with innovative solutions and as its technical expertise.

**Area**

- About 434,000 m²

**International Certifications**

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

**Annual Production Capacity**

- Steam Turbines: 7,500 MW
- Gas Turbines: 1,200 MW
- Turbine Generators: 15,000 MVA
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: \( \Phi 200 \))
- 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.
- The Hitachi Works integrates whole AM production supply chain, which starts from the development and production of metal powder used as a material to metal additive manufacturing, product finishing, and even final inspections.

Outline

Additive Manufacturing Shop (AM-Zone®)

- Gas atomization equipment
- Additive manufacturing article Powder
- 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.

Main Products Outline Main Production Facilities

1. Steam Turbine Blade and Vane, Mid-Sized Component
2. Large and Mid-Sized Steam Turbine and Steam Generator
3. Gas Turbine Stationary Blade and Vane Shop
4. First Combustor Shop for Gas Turbines
5. Large Component Assembly Shop
6. Gas Turbine Rotating Blade Shop
7. Steam Turbine Long Blade Shop
8. Second Combustor Shop for Gas Turbines
9. Large Component Assembly Shop
10. Additive Manufacturing Shop (AM-Zone®)
11. First Large Component Machining and Assembly Shop for Turbines
12. Second Large Component Machining and Assembly Shop for Turbines
13. ANN for High Speed Balancing (HSB)
14. Large Component Control Shop
15. Large Component Machining and Assembly Shop
16. Generator Component Control Shop
17. Medium and Large Component Assembly Shop
18. First Large Component Assembly and Assembly Shop for Turbines
19. Large Component Machining and Assembly Shop
20. Large Component Assembly Shop
21. Additive Manufacturing Shop
22. Steam Turbine Blade and Vane, First Combustor Shop for Gas Turbines
23. Additive Manufacturing Shop (AM-Zone®)
24. Steam Turbine Long Blade Shop
25. Gas Turbine Rotating Blade Shop
26. Steam Turbine Long Blade Shop