Outline

Main Products

Machinery

Boiler Shop

Main Office

Module Center

Turbine Shop

Electronics Shop

SOFC Shop

NAGASAKI WORKS

Main Production Facilities

Akunoura Area

Koyagi Area

Saiwaimachi Area

Main Products

Steam Turbine

Production Machining High-Tech Assembly Facilities Boilers

Environmental testing facilities, Simulator training center, Computer control systems assembling tester, 350-ton overhead travelling crane (overhang)

Boiler (Header)

Boiler (Superheater & Reheater Tube Shop)

Boiler (Furnace Wall & Economizer Tube Shop)

Continuous heat treatment facilities

Continuous bender

Non-Destructive Tester

6 Mev “LINAC”

Welding machine for large sized pressure vessel, 200-ton overhead travelling crane (overhang)

13,000 (L) × 7,500 (H) mm

Large sized annealing furnace: 7,500 (W) × 5,000 (D) mm

Annealing furnace:

8,000-ton hydraulic press

Turbine governor test facilities

Turbine-rotor large high-speed rotation testing machine

Large gear cutting machine: 7,500 (D) × 2,300 (W) mm

Large NC vertical lathe: 8,500 (D) × 5,000 (H) mm

Large NC lathe: 3,500 (D) × 12,000 (L) mm

8,200 (W) × 45,000 (L) × 4,200 (H) mm

(GANTRY PLANOMATIC):

Large NC combined production milling machine

Fuel cell manufacturing facilities

Global net diagnostic center

Axial Flow Fan with Variable Pitch Rotor Blade Plant Control System

Assembly Facilities

Large fan test facilities (Pipe-Header Shop)

Boiler Shop (Pipe-Header Shop)

Boiler Shop (Boiler Module Shop)

Boiler Shop

Module Center

Electronics Shop

SOFC Shop

Combustion Test Facility

MHPS has a combustion test facility that fea-
tures the world’s largest capacity of four tons of
combustion per hour. The facility was built to achieve more advanced combustion technologies, the core factor in tal-
power plants, particularly in terms of lower emissions of nitrogen oxides (NOx), less unburned combustibles and
tower emissions. The facility also accommodating a wide variety of fuels, including seaweed oil. The equipment is
highly automated and equipped with highly advanced evaluation capability, thereby ensuring safety, particularly in terms of lower emissions of nitrogen oxides (NOx), less unburned combustibles and tower emissions.

The Akunoura Area also has electronics and fuel cell shops that produce state-of-the-art technological products.

The Koyagi Area was founded in 1972. The boiler shop boasts an annual production capacity of 6.1 million kW, with highly automated facilities and equipment to manufacture high performance steam turbines, ranging from those for 1.5 million kW size operations to those for generation power generation and vessels or various industrial purposes.

The Akunoura Area has a long history dating back to its establishment in 1857 as the Nagasaki Yotetsusho Foundry, established by the Tokugawa Shogunate Government.

The Saiwaimachi Area, located northeast of the

Nagasaki River. The Area manufactures machinery products such as valves, pumps, and piping systems. These are manufactured at the Nagasaki Works.

The Akunoura Area also has an area dedicated to the production of large-sized, high-quality and high-performance boilers.

The facility manufactured at the Nagasaki Works.

The turbine shop, with an annual production capacity of 6 million kW, uses highly automated facilities and equipment to manufacture high performance steam turbines, ranging from those for 1 million kW size operations to those for generation power generation and vessels or various industrial purposes.

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