

Kondokiko Co., Ltd.



Aiming to perform base manufacturing for offshore wind power generation projects, leveraging its superior design and processing technologies in producing high-rise towers over 100 m in height

Category Wind Turbine Manufacturing > Large Plate Rolling



A master of large plate rolling that enables bending work at 100-mm thicknesses

Kondokiko specializes in large plate rolling, producing chimneys and steel towers for power plants, storage tank equipment for chemical plants, tanks, silos, ducts, and more. The company has extensive experience with high-rise towers, including manufacturing 150- to 200-m chimneys. With its introduction of CAD/CAM systems, Kondokiko has established an integrated production system from design and production to delivery of a range of plant equipment. In its manufacturing, the company has established NC processing for processes up through large-scale cutting, scribing, groove-cutting, bending, and welding.

The company maintains facilities and equipment specialized for large plate rolling, and with the

combined use of a 600-t bending roller and a 1,000-t press is capable of performing bending work at 100-mm thicknesses. Additionally, its overhead cranes have lifting capacities of 20 to 30 t, with support for up to 40-60 t, plus impressive lifting heights of 12-15 meters, allowing them to move large objects freely. **The main factory and second and third factories are all located adjacent to a public wharf, just 100 m away. With the ability to assemble and stock products at the port, Kondokiko also boasts the advantage of good handling support with direct connections to marine transport.**

- Production size/weight: Capable of delivering large-diameter products (middle thicknesses up to 100 mm) weighing up to 60 t/block (either round or angular)
- Certifications: ISO 9001, ISO 14001, ISO 27001

Adoption Record

Manufacturing environmental equipment for thermal power plants: Desulfurization ducts



Kondokiko manufactures desulfurization ducts for flue gas desulfurization equipment used to remove sulfur oxides (SOx) and purifying the flue gas of boilers at facilities such as coal-fired thermal power plants. As a new business, Kondokiko is also focusing on the manufacture of large scrubbers and other equipment using special steel materials, including Hastelloy.

Achieving large-scale plate rolling with maximum block weights of 95 t



Kondokiko has manufactured two chimneys for use in high-efficiency coal-fired power generation plants. Before delivery, a structural outer cylinder and an inner duct (inner cylinder) to let combustion exhaust gases through are produced separately, with the inner duct then inserted into the outer cylinder. The outer casing and inner casing measure $\phi 7400$ and $\phi 10,000$ respectively; the inner casing, $\phi 6800$. The chimney's height is 150 m. The inner tube is made of NS5C270 material enabling long-term, maintenance-free operation.

Main Equipment and Machinery

- 600t Bending Roller: (3,500mm width) Plate thickness 52-55mm / 1 unit
- 270t Bending Roller: (3,500mm width) Plate thickness 36mm / 1 unit
- 1,000t Press Machine: (2,500-3,000mm width) Plate thickness 75mm, (1,000mm width) Plate thickness 145mm / 1 unit each
- NC Plasma & Gas Cutting Machine: Effective cutting area 3,500mm x 16,000mm / 1 unit
- NC Laser Cutting Machine: Effective cutting area 4,600mm x 16,000mm / 1 unit
- CNC Large Band Saw: Maximum 900mm / 1 unit

Company Information

Business: Design and manufacturing of large towers, tanks, and ducts for various industrial facilities; fabrication of high-rise chimneys (over 80m)
 Location: 1-5-54 Kuroshima Niihama, Ehime Prefecture, 792-0892
 Established: November 1974 Capital: 58.2 million yen Employees: 30 (as of November 2024)
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