

Miyata Tekkou Co., Ltd.



Achieving low-cost, quick-delivery manufacturing with advanced technological capabilities in plate rolling and machining to manufacture large machinery and equipment, along with nationally leading facilities

Category Fixed Foundation Manufacturing > Large Plate Rolling & Machining



Large-scale plate rolling and machining to support ironmaking and papermaking production lines

Equipped with technical expertise and facilities specialized for large machinery manufacturing, Miyata Tekkou is able to accept and produce custom orders for large industrial machinery, including papermaking and ironmaking production machinery, transport machines, and more. The company has established an integrated production system in its 5,500-m² plant covering stages from plate rolling, welding, and machining to painting, assembly, and test operations, enabling it to offer low-cost, quick-delivery service. In machining, the company has two of the largest five-face milling machines in Japan, as well as a full line of machine tools capable of producing components of all sizes, from large to small.

The capacity of Miyata Tekkou's equipment and facilities coupled with the technical skills of its operators enable it to produce high-quality products regardless of their size. Also, in lining processes, which involve bonding iron with thin 1.5-mm sheets of stainless steel, the company's practice of using stainless steel only for surface layers enables cost reduction. Miyata Tekkou's machining, in which welding is carried out by skilled, experienced craftsmen, is highly appraised for the beautiful, high-precision finishes achieved in it. This is expected to be of use in offshore wind power generation projects, where rust resistance is required.

- Possible production sizes: 10-m heights, 13-m widths, approx. 60-m lengths
- Crane lifting capacity: 40-t x 3 (one each for plate rolling, welding, and assembly) • Materials: Iron, stainless steel, aluminum

Adoption Record

Mechanical equipment for ironmaking companies' steel production lines



Miyata Tekkou manufactures mechanical equipment required for ironmaking companies' steel production lines, including upenders/downenders for reorienting hot coils, deformed steel bar rolling machines used to produce rebar for use in civil engineering and construction, and electrogalvanizing (EGL) lines that perform continuous electroplating. The company's advanced technologies specialized for manufacturing large machinery, along with its extensive related experience, have earned it great trust from major heavy industries and ironmaking companies as well.

Mechanical equipment indispensable for papermaking companies' production lines



Miyata Tekkou supplies papermaking companies with mechanical equipment used in operating their production lines for household paper products, sheets of paper, and corrugated cardboard. These include press parts used for removing moisture from freshly made paper, winders/unwinders used to cut and unwind paper rolls in the direction of their unwinding width, and the X-10: the world's widest unit used to enhance paper strength.

Main Equipment and Machinery

- Plano miller (Maximum Size): Table 3500 x 8000, Processing Size H2300 x W4100 x L8000 (N/C type five-axis machining center) / 5 units
- Horizontal Boring Mill (Floor Type): Quill diameter ϕ 170, Horizontal travel 12000, Vertical travel 3500, Vertical clearance 1700 (N/C type five-axis machining center) / 1 unit
- Turning Machine: Table diameter 2500, Side vertical travel 1800, Cutting diameter 3500, Height 2400 / 1 unit
- Cranes: 40t / 3 units, 30t / 3 units, 20t / 2 units, 10t / 4 units, 2.8t / 2 units

Company Information

Business: Design, manufacturing, assembly, and installation of general industrial machinery (for steel manufacturing, papermaking, transportation, textiles, etc.), processing of metal parts (including manufacturing, welding, surface treatment, etc.)
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