

# Hagio Machinery Co., Ltd.



Leveraging high-precision welding and machining technologies to manufacture over 200 hermetic containers annually to house power distribution equipment

Category **Electrical Systems** > **Sealed Containers for Power Distribution Equipment**



## Hagio Machinery's strength: Manufacturing hermetic containers to house power distribution equipment used for railways and electric power companies

Hagio Machinery maintains facilities enabling integrated in-house production of everything from plate rolling, welding, and machining, to assembly and trial run operations, as well as outstanding craftsmanship backed by its many years of experience. **Chiefly manufacturing airtight containers for power distribution equipment used by railway and electric power companies, Hagio Machinery maintains a track record of annual delivery exceeding 200 such containers annually. The containers are key components of power distribution systems, requiring airtightness due to being filled with insulating gases.**

Along with applying high-precision welding and machining technologies to improve airtightness,

the company also offers lower-cost options that do not require machining of sealing surfaces. In addition, the company has its own inspection plant, conducting its own helium gas leak tests to ensure the safety of the products it delivers. Hagio Machinery has an integrated plate rolling and machining plant in Niihama City, equipped with four five-face milling machines and other machining tools capable of producing everything from ultra-large to small precision parts. Leveraging its made-to-order and micron-level processing technologies, the company is equipped to offer comprehensive solutions involving accessory mechanical parts for airtight containers as well.

- Materials: SUS (stainless steel), SS400 (rolled steel for general construction) • Production capacity: Approx. 200 units per year
- Production sizes and weights: 1,000 mm x 2,000 m (approx. 600 mm x 1000 mm assumed for offshore wind power generation projects), 100 kg-1.5-t weights • Sheet thicknesses: 6-12 mm

### Adoption Record

#### Development of airtight containers requiring no processing



Achieving success at developing airtight containers with thin welded metal structures that require no processing, Hagio Machinery has established a technique that eliminates the need for machining, allowing craftsmen to apply smooth finishes to gas sealing surfaces manually. Reduced need for machining processes equates to cost savings. Depending on sizes and specifications, options with combinations of machined and unmachined sections can also be supplied.

#### Track record of annual delivery exceeding 200 containers annually railway and electric power companies



Hagio Machinery's customers are largely railway-related companies, but also include a range of others from electric power companies to factories, commercial facilities, and more. The company delivers over 200 airtight containers per year to house these customers' power distribution systems. Hagio Machinery's advanced machining equipment and craftsmanship have earned it a solid reputation for its made-to-order airtight containers.

### Main Equipment and Machinery

- Five-Axis Machining Center (Gantry Type): 5200 x 2500 x 1500 to 2000 / 3 units
- Five-Axis Machining Center (Gantry Type): 4200 x 2150 x 1500 / 1 unit
- φ130 NC Horizontal Boring Mill: 3000 x 2150 x 1500 / 1 unit
- φ110 NC Horizontal Boring Mill: 2000 x 1500 x 1450 / 2 units
- Vertical CNC Lathe: Maximum processing diameter φ920 / 1 unit
- Horizontal Machining Center: Maximum 1100 x 850 x 750 / 2 units

### Company Information

Business: Manufacturing of sealed containers for power distribution and transmission equipment, industrial machinery parts (for steel manufacturing, heavy machinery, and ships)

Location: 1-17 Matsunoki-cho, Niihama, Ehime Prefecture, 792-0868

Established: November 1934 Capital: 25.45 million yen Employees: 47

Representative: President Tatsuhiko Hagio Tel: 0897-32-2700 Offices: Niihama City

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