

Sumitomo Heavy Industries Himatex Co., Ltd.



The only professional chain manufacturing company in Japan leveraging all manufacturing methods to produce marine chains: Responding to diverse needs with outstanding technologies and expertise

Category Floating Manufacturing > Chains for Floating Mooring Systems



Refining diverse chain manufacturing techniques, including welding, forging, and casting, a company uniquely positioned in the industry

SHI Himatex is the sole company in Japan equipped to manufacture chains using a full range of manufacturing methods, producing flash-butt welded chains, forged chains, and more. The company chiefly manufactures Solid Stud Type Anchor Chains, thickened long open-type chains, and stud-fitted chains. Solid Stud Type Anchor Chains consist of forged punched links with studs in the center alternated with forged half links. Offering excellent impact resistance, long service lives, and low rates of strength loss, they are widely used for mooring ships such as vessels that frequently cast anchor and for anchoring buoys in strong tidal currents. Thickened long open-type chains

feature an alternating combination of circular forged punched links and forged half links. They are typically used for anchoring buoy moorings because of their high abrasion resistance and resistance to breakage achieved with their thickening. Stud-fitted chains are manufactured by bending round steel bars into C shapes, welding them, and pressing studs into place. This type is suitable for general merchant ships and harbor mooring. SHI Himatex's current manufacturing system is capable of producing chains with diameters of up to $\phi 90$.

- Materials used: SBC690 and SBC490 round steel bars for chains
- Production sizes: Solid Stud Type Anchor Chains, $\phi 20.5$ - $\phi 68$; thickened long open type, $\phi 30$ - $\phi 46$; stud-fitted type, up to $\phi 90$
- Certification: NK (Nippon Kaiji Kyokai)

Adoption Record

Chains for Maritime Self-Defense Force vessels



SHI Himatex is the sole company in Japan contracted to manufacture chains for the Maritime Self-Defense Force's naval vessels. The company's Solid Stud Type Anchor Chains, manufactured fully leveraging forging and welding technologies, are used as anchor chains for destroyers and other vessels, as their studs do not loosen even if twisted and retain their strength for long periods of time.

Mooring chains for Japan Coast Guard navigation beacons



Navigation beacons are indispensable for safe ship navigation, acting as guideposts in the sea. SHI Himatex's chains have been used at over 1,500 sites throughout Japan for mooring such beacons. Thickened long open chains are used in ordinary marine areas, while Solid Stud Type Anchor Chains are used in areas with rapid tides such as the Akashi Strait.

Main Equipment and Machinery

- Cutting Machines: Billet Shear / 1 unit
- Sawing Machine / 3 units
- Forging Heating Furnaces: Heavy Oil Furnace / 3 units
- Hammer: Air / 1 unit
- Presses: Hydraulic, Others / 5 units
- Flash Butt Welding Machines: 2 units
- Tensile Testing Machines: Hydraulic / 2 units
- Heat Treatment Furnace: LPG / 1 unit
- Shot Blasting Machines: Drum, Others / 2 units

Company Information

Business: Development, manufacturing, and sales of rolling rolls, anchor chains, iron chains, various chains, and surface processing products

Location: 5-2 Sobiraki-cho, Niihama, Ehime Prefecture 792-0001

Established: April 1980 Capital: 3.1 billion yen

Employees: 132 (as of April 1, 2024)

Representative: President Takaaki Kido Tel: 0897-32-6484

Offices: Tokyo Sales Group, West Japan Sales Group, Nagoya Sales Group

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URL: https://www.shi.co.jp/hmx/e_index.html