

Sumitomo Heavy Industries Process Equipment Co., Ltd.



Promoting activities for manufacturing base structures for offshore wind turbines:
Introducing large bending rollers to increase processing capacities for ultra-thick steel plates

Category Foundation Manufacturing(Fixed & Floating) > Cylindrical Large Structure Fabrication Welding & Assembly (Foundation Manufacturing Base)



SHI Process Equipment maintains technologies, facilities, and equipment enabling it to manufacture both fixed-bottom and floating type base structures

With its abundant accumulation of manufacturing experience with harbor structures such as jackets and caissons, as well as pressure vessels, the company will leverage the plate rolling and welding technologies it has developed through the manufacture of such steel structures to manufacture the transition pieces and floating structures that serve as base structures for offshore wind generation projects. **Its Saijō Factory has introduced a new large bending roller to increase manufacturing capacity.** In addition to the ability to bend ultra-thick steel

plates, the new roller is equipped with an integrated bending function to bend cylindrical tubes efficiently. Now equipped with two bending rollers, SHI Process Equipment has the ability to manufacture cylindrical tubes of all sizes and thicknesses. In its welding processes, the company has equipment specialized for welding cylindrical structures, enabling it to handle a wide range of steel grades and plate thicknesses with the full range of welding processes at its disposal, as well as to perform advanced nondestructive inspection of welds.

- Materials used: Ordinary steel, high-tensile steel, low-alloy steel, stainless steel
- Size of production: Utilizing in-plant facilities, large steel structures can be produced and shipped out from the company's own wharf

Adoption Record

Production of various massive pieces of infrastructure



SHI Process Equipment maintains huge facilities, including large cranes, an extensive assembly yard, and a wharf equipped to perform batch shipping using offshore cranes, and has built many important pieces of massive domestic infrastructure, including port and harbor flood control structures such as jacketed breakwaters, hybrid caissons, and submerged tunnels.

Pressure vessel manufacturing in accordance with domestic and overseas codes and regulations



SHI Process Equipment manufactures high-quality pressure vessels capable of operating in harsh environments setting material specifications, performing structural design and stress analysis, and integrating advanced production technologies with quality assurance systems.

Main Equipment and Machinery

- Processing Machinery: NC Cutting Machine, Bending Roller, Hydraulic Press
- Welding Machines: Submerged Arc Welder, Semi-Automatic Welder, TIG Welder
- Welding-Related Equipment: Large Positioner, Turning Roller, Manipulator
- Factory Cranes (indoor and outdoor), Multi-Axis Dollies

Company Information

Business: Manufacturing of large steel structures and pressure vessels, design, manufacturing, installation, and repair of chemical/general machinery
 Location: 462-4 Minato Aza Kitashinchi, Saijo, Ehime Prefecture 799-1393
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