



Roc-Master®

Manufacturer & Supply Company



ROC (LAD)

ROC (OTE)

ROC (FAB)

ROC (LOK)

ROC (SUBSEA)

Total Piping Solutions

Roc-Master Profile

Roc-Master is a leading global supplier of corrosion-resistant alloy pipelines, prefabricated pipe spools, subsea pipeline connectors, high alloy & high-pressure pipe fittings, and all types of corrosion-resistant coated fasteners. We provide our customers with integrated clad piping solutions that combine our products and services into a single package supply, which has been applied to the fabrication of pipeline and process modules that involves prefabrication and field welding services in Oil and Gas, FPSO, Offshore Platform with design and engineering requirement.

Kunshan facility has been the starting point of supply to significant weld overlay cladding & prefabrication projects since 2017. A weld overlay cladding workshop and a separate SS prefabrication workshop are set up according to material type to avoid iron contamination.

Xuancheng facility was founded in 2021 with a workshop of weld overlay cladding, clad pipe prefabrication and an external anti-corrosion painting workshop. The facility is 3 kilometers away from a Ferry Terminal of 3000-ton capacity that connects to the Yangtze River.

Roc-Master group has more than 400 employees. With over 500,000 dia-inch annual welding capacity and innovative engineering solutions, we can deliver highly cost-effective prefabricated pipe spools with external coating for module construction. Such services of complex prefabrication, site welding & installation have already been established and recognized by global companies in Oil & Gas and FPSO industry, such as MODEC, SBM, CPP, Keppel, HHI, CIMC, and more.



Technical Capability

Detailed design is performed with EP3D software based on files and demo models received in IDF or PCF format. Being familiar with customers' specifications, our technical engineers also have a solid knowledge of Classification Society specifications and all related standards, which enables the appropriate pipe segment with less than 20% of the site joints-reducing the site welding joints, which significantly improves installation efficiency and minimizes production and quality risks.

Roc-Master has held the ABS design certificate for more than five years and can design non-standard process piping products with operation environments of high temperature, high pressure, low temperature, and high yield, as well as other working conditions. Our engineers can perform Calculation and Finite Element Analysis (FEA) based on knowledge of ASME standards, piping specifications and understanding of product applications. With intelligent and innovative thinking, they are also good at finding solutions from the user experience perspective to ensure rational design and application.

Roc-Master has more than 40 engineers in design, R&D, piping, material, welding, structure, heat treatment, electrical instrumentation, coating, NDT, and other fields. The cladding and spool prefabrication facilities are certified by ISO 9001, ISO 14001, ISO 45001, ISO 3834, and more. Also, hold product certificates such as API 5LD, API 6A, API 6D, BV, DNV, and more. Comprehensive engineering capabilities, a complete quality management system, solid technical knowledge, and years of project execution experience help Roc-Master earn a reputation in this industry.

Roc-Master has accumulated more than 480 WPS/PQR of cladding and butt-welding with a material type of Inconel 625, 825, DSS, SDSS, and other CRA materials, which have been certified by the Classification Society.

A team of senior NDT engineers (Level-II, Level-III, or NDT specialist) initiate NDT evaluation and proposals at the early project stage. UT/PAUT blocks are prepared to facilitate the NDT inspections when X-ray/Gamma rays can't be applied.

Roc-Master provides solutions for pipe support, penetration devices, anti-corrosion coatings, neoprene coating, FBE coating, and lifting design. External paint service is provided according to project coating specifications and NACE standards, which reduces the workload of field painting. High-quality marine bio-corrosion resistant neoprene coating service, industrialized neoprene coating service and field neoprene coating repair service help our customers to save time on field painting.



Roc-Master Prefabricated Spools & Service

- Clad Pipe, Clad Bend, Clad Flange, Clad Fitting, Clad Clamp Hub Connector, Fastener, and Gasket
- SS/DSS/SDSS/CRA steel Pipe, Bend, Flange, Fitting, Clamp Hub Connector, Fastener, and Gasket
- FEA and calculation
- Design for process pipeline
- Detailed design and installation of pipe support
- CRA Weld overlay cladding & DSS Prefabrication
- Anti-corrosion external painting for spools
- Field welding service
- Field installation service



Equipment and Capacity of Prefabrication

Kunshan facility has a weld overlay clad workshop of 18,000 m², a clad piping prefabrication workshop of 3,000 m², and a separate SS prefabrication workshop of 2,400 m², including two sets of 5T crane, one set of 10T crane and three sets of 16T crane.

Xuancheng facility has a clad piping prefabrication workshop covering 8,400 m² and a painting workshop of 3,000 m². The facility has four sets of 5T crane and two sets of 10T crane. The plant has easy road, river, and sea transportation access.

Seven automatic butt-welding and eighteen PWHT equipment are available for CRA clad pipeline. Sixty certified alloy welders. Four sets of SS automatic butt-welding equipment and thirty-six certified Stainless Steel welders are available.

Roc-Master owns a professional team of engineers, welders, and operators experienced with module prefabrication and can monitor each workflow step from engineering, purchasing, manufacturing, inspection & testing to the final delivered spool on site.

In-house prefabrication enables the on-time delivery of the module with reliable quality and less safety risk for construction.

Manufacturing Control

Roc-Master has many experienced management talents for welding and prefabrication. Intelligent software such as EP3D is used for engineering and weld joint tracking. Manufacturing steps are fully tracked and monitored with the help of the ERP system, from raw material and incoming material inspection, machining, assembling, welding, NDT, inspection and test, pickling, and external painting to final packing and shipping.

High-quality spools are delivered thanks to our professional management team, who continue to improve and satisfy our customers.

HSE Management

“Zero accidents, zero pollution, zero occupational diseases” is the HSE objective that we’ve always adhered to. Accidents and injuries can be minimized and avoided with standardized on-site operation management based on understanding the operational environment and the result of risk assessment.

Quality Management

Project specifications and requirements are evaluated and fully interpreted at an early stage. Roc-Master inspectors will control the quality according to the ITP intervention point, foresee quality risks and measure improvement by monitoring and analyzing real-time data.

The one-time RT pass rate is $\geq 99\%$. Authorized personnel can obtain the inspection report from the ERP system; Our system can provide data access to third-party or clients to understand the actual manufacturing and quality status. Remote video inspection services can be available upon the customer's request.

Documentation Management

Project documentation management is essential throughout the entire project execution. It plays a crucial role in standardizing behavior, exchanging information, controlling document revisions, and providing the project manager with criteria to understand the progress and supporting evidence for problem-solving. It enables centralized management of procedures, drawings, MTC, WTR quality track record, RT/PAUT digital reports, inspection and testing reports, and other documents by standardizing file classification and archiving, labeling, and other document control methods.

Technical and quality documents are prepared according to specifications and standards and will be modified till final approval upon the customer's comments. We will deliver final documentation and products timely with high quality.

Advantages of Field-Welding Service

Roc-Master engineers are experienced in guiding on-site commissioning and can effectively resolve installation issues by adjusting the installation plans according to actual module construction progress. Fast and efficient technical support is the value we provide to our customers by ensuring safe production and successful delivery of high-quality spools.

We have experienced and qualified welders for nickel alloy welding, certified by ABS, BV, DNV and more. Customers appreciate and recognize them for their outstanding welding skills and efficiency. Using our experienced welders for field welding can significantly improve the welding efficiency by anticipating WPS/PQR and welder qualification test, which is time and cost-saving for installation.



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