

Marine Titanium Bolts

Our marine titanium bolts are engineered for superior performance in oceanic conditions. Manufactured from premium-grade titanium materials, these fasteners are crafted using stringent manufacturing processes and quality control measures to ensure reliability and performance in maritime applications.

Whether for offshore oil platforms, shipbuilding, marine wind energy facilities, or underwater tunnels, titanium bolts provide essential support and stability, safeguarding your marine engineering projects.

- Detailed Technical Specifications:
- Nominal Diameter (mm): M6-M30
- Pitch (mm): 1.0-3.5
- Length Range: 20mm – 300mm (Customizable upon request)
- Color Options: Standard titanium color, deep blue, gold, rainbow, black
- Standards:

International Standards: ISO 4014, ISO 4016, ISO 4762

US Standards: ANSI/ASME B18.2.1, ASME B18.3, ANSI/ASME B18.5

- Head Types: Hex head, round head, countersunk (Customizable to your requirements)
- Applications: Offshore oil & gas platforms, ships & marine vessels, luxury yachts, underwater infrastructure

Choosing the Right Titanium Bolt for Your Application:

Selecting the correct titanium bolt is crucial for ensuring structural integrity and long-term performance. Here's how to make the right choice:

1. Evaluate Environmental Conditions:

Assess the corrosiveness of the application environment, including salinity, temperature, and chemical exposure.

2. Assess Strength Requirements:

Consider the load and stress demands of your application. Ensure the selected bolt can withstand the required loads without failure.

3. Select the Appropriate Grade:

Grade	Tensile Strength (min)	Yield Strength (min)	Typical Applications	Key Features
Grade 2	345 MPa	275 MPa	General marine applications	Excellent corrosion resistance, good weldability
Grade 5	895 MPa	858 MPa	High-performance marine applications	High strength-to-weight ratio, excellent corrosion resistance
Grade 7	345 MPa	275 MPa	Extreme corrosive environments	Enhanced corrosion resistance, particularly for crevice corrosion
Grade 12	483 MPa	345 MPa	Chemical processing environments	Superior overall corrosion resistance

Grade 2: Ideal for low-stress applications with excellent corrosion resistance.

Grade 5: Best suited for high-stress applications such as critical structural components.

Grade 7/12: Suitable for extreme corrosion environments.

4. Consider Special Requirements:

Such as non-magnetic properties, high-temperature resistance, or biocompatibility.

5. Choose a Trusted Supplier:

Ensure that the supplier or manufacturer is reputable and complies with industry standards.

Quality Assurance & Certification:

At our company, we adhere to stringent quality assurance measures to ensure that every marine titanium bolt meets the highest standards:

Material Traceability: Complete traceability records for every batch of materials used.

Dimensional Inspection: 100% dimensional inspection to meet tolerance standards.

Mechanical Testing: Random sampling for tensile strength and hardness testing.

Surface Quality: Visual inspections and coating thickness measurement.