

Grade 5 Titanium Ring

Material: Titanium alloy

Standards: ASME SB381, ASTM B381, GB/T 16598, AMS 4920B, AMS 4928

Origin: Baoji, China

Outer diameter: 200mm-4000mm

Inner diameter: 100mm-900mm

Cross-section height: 35mm-250mm

Wall thickness: 40mm-400mm

Why Choose Our Gr5 Titanium Rings for Aerospace & Medical Applications

As one of our most popular forged products, Grade 5 Titanium Rings provide high strength, corrosion resistance, and heat stability up to 400°C. These rings are essential for aerospace components, and thanks to titanium's biocompatibility, they are also widely used in medical implants and surgical devices.

Gr5 Titanium Ring Specifications & Dimensions

Property	Specification
Material Grade	Grade 5 (Ti-6Al-4V)
Chemical Composition	Titanium (Ti), Aluminum (Al) ~6%, Vanadium (V) ~4%
Density	~4.43 g/cm³
Surface Treatment	Machining, Anodizing, Sandblasting
Supply Condition	Hot-Worked (R), Annealed (M)
Delivery Time	15–30 working days (custom orders)
Applications	Aerospace, Marine Engineering, Chemical Industry, Medical Devices, Jewelry Rings
Processing	Precision Forging, Heat Treatment, Machining
Quality Assurance	ISO9001 & AS9100 Certified; Third-Party Testing Reports Available
Free Samples	Available for quality evaluation before ordering

Mechanical Properties of Grade 5 Titanium Rings (Ti-6Al-4V)

Property	Minimum Requirement
Tensile Strength	≥ 895 MPa
Yield Strength (0.2%)	≥ 828 MPa
Elongation	≥ 10%
Reduction of Area	≥ 25%

Note: Actual mechanical performance may vary depending on forging process, heat treatment, and ring dimensions. Please refer to the final inspection report for precise values.

Quality Control for Titanium Rings – ISO9001 & AS9100 Certified

Every titanium ring undergoes comprehensive quality inspections to guarantee reliability and performance:

Dimensional Accuracy – Ensuring all critical dimensions and tolerances meet your requirements

Surface Quality Inspection – Checking for defects and machining quality

Chemical Composition Verification – Ensuring compliance with Grade 5 (Ti-6Al-4V) standards

Mechanical Performance Testing – Verifying tensile strength, yield strength, and elongation

Contact Baoji Zecheng Metal – Custom Grade 5 Titanium Rings

With advanced forging technology and strict quality control, Baoji Zecheng Metal Materials Co., Ltd. delivers high-performance, dimensionally precise, and reliable Grade 5 Titanium Rings.

You can request:

Custom solutions tailored to your project

Technical support for material selection and applications

Free samples for quality evaluation

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Baoji Zecheng Metal Materials Co., Ltd.