

Titanium Ring

Baoji Zecheng Metal Materials Co., Ltd. is one of the leading manufacturers of high-quality titanium rings in China.

Lead Time: In-stock items: shipped within 2 weeks

Custom products: 15 – 30 days, depending on size and quantity

Payment Terms: 30% advance payment, 70% balance before shipment

Shipping Methods: Sea freight, air freight, and express (DHL, FedEx, UPS)

Packaging: Wooden cases with foam padding, moisture-proof and shock-resistant, suitable for sea and long-distance transport. Customized packaging available.

Titanium Ring Manufacturer & Supplier

Our company produces a wide range of titanium rings, including GR1, GR2, GR3, GR4, GR5, GR7, GR12, etc., with various specifications, outer diameters ranging from 200mm to 1500mm, and inner diameters and heights also provide a variety of options. We strictly follow GB/T 16598, ASME SB381, ASTM B381, and other implementation standards.

Titanium Ring Applications & Industry Uses

The application fields of titanium rings are very wide, including but not limited to:

Aerospace: used to manufacture structural components of aircraft and rockets, such as fasteners, landing gear components, etc.

Medical devices: used in high-end medical devices such as artificial joints, orthopedic implants, heart valves, etc.

Chemical industry: used to manufacture corrosion-resistant reactors, heat exchangers, and pump valve components.

Marine engineering: used to manufacture corrosion-resistant structural components of ships and offshore platforms.

3. Product specifications and parameters

The titanium rings we provide have various specifications and can be customized according to customer requirements. The following are common parameters:

Material	Pure titanium, titanium alloy				
Grade	GR1、GR2、GR3、GR4、GR5、GR7、GR11、GR9、GR12、GR16、GR17、GR23、GR26、GR27、GR29				
Surface treatment	Polishing, chamfering, brightening, sandblasting, anodizing, coating, etc.				
Size	Outer diameter: 200mm-4000mm Inner diameter: 100mm-900mm Cross-section height: 35mm-250mm Wall thickness: 40mm-400mm				
Condition	Hot working state (R), annealed state (M)				
Production process	Forging, die forging, rotary forging, precision forging and welding				

4. Tensile properties

Grade	Tensile Strength		Yield Strength at 0.2% Offset		Elongation in 4D	Reduction of Area
	ksi	Mpa	ksi	Mpa	%	%

Grade 1	35	240	20	138	24	30
Grade 2	50	345	40	275	20	30
Grade 3	65	450	55	380	18	30
Grade 4	80	550	70	483	15	25
Grade 5	130	895	120	828	10	25
Grade 7	50	345	40	275	20	30
Grade 12	70	483	50	345	18	25

5 Manufacturing process

The manufacturing process of titanium rings strictly follows high-standard industrial production processes, including:

Smelting: VAR or EBM technology is used.

Forging: Precision forging technology is used to make blanks of the required shape.

Machining: CNC machine tools are used for precise turning, milling, and drilling.

Surface treatment: Polishing, anodizing, sandblasting, and other surface treatments can be performed to meet specific usage requirements.

6. Quality Certification

Our company promises that the titanium rings we provide comply with the ISO9001 international quality management system, and all products are accompanied by certification documents issued by a third-party testing agency.

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