

TITANIUM MANUFACTURING MASTER PRODUCT CATALOG

SECTION 1: Fasteners & Standard Parts

1.1 Bolts & Screws

Product Name	Standard	Material	Size Range	Features
Hexagon Head Bolts	DIN 933	Gr2 / Gr5	M1.6 - M52	CNC Machined, Thread Rolled
Socket Head Cap Screws	DIN 912	Gr5	M1.6 - M30	High-torque, Aerospace Grade
Torx Pan Head Screws	ISO 7380	Gr5	M3 - M14	Torx Socket / Button Head
Countersunk Head Screws	DIN 7991	Gr5	M3 - M24	Flush surface mounting
12-Point Flange Bolts	ASME B18.2.5M	Gr5	M5 - M36	High-torque, Racing spec
Drilled Hex Flange Bolts	ISO 4162 / DIN 6921	Gr5	M5 - M16	Pre-drilled for Safety Wire
Flat Head Self-tapping	Custom	Gr2 / Gr5	M1.4 - M20	Rapid assembly, CNC Threaded
Flat Point Set Screws	DIN 913	Gr2 / Gr5	M1.4 - M24	Internal fastening

1.2 Nuts & Locking Systems

Product Name	Standard	Material	Size Range	Features
Standard Hexagon Nuts	DIN 934	Gr5	M5 - M14	Universal Utility
All-Metal Lock Nuts	DIN 934	Gr2 / Gr5	M5 - M20	Pre-drilled Torque, High Torque

All-Metal Lock Nuts	DIN 6927	Gr5	M5 - M20	Prevailing Torque, High-Temp
Nylon Insert Lock Nuts	DIN 985	Gr2 / Gr5	M5 - M20	Anti-Vibration, Non-Metallic
Hexagon Flange Nuts	DIN 6923	Gr2 / Gr5	M5 - M20	Built-in Washer, Load Distributing
12-Point Flange Nuts	Metric	Gr5	M5 - M36	High-Torque Racing

SECTION 2: Motorsports & Racing Series

2.1 Dirt Bike Foot Pegs & Controls

- 3D Printed Foot Pegs: Gr5 Titanium, SLM Technology, Fits KTM/Kawasaki/Suzuki/Yamaha.
- Pro-Series Offset Foot Pegs: Gr5 Titanium, CNC Milling + Heavy-Duty Welding.
- Foot Peg Pins: Precision CNC Milling, High-shear strength.
- Clutch Levers: Ergonomic Racing Design, High strength-to-weight ratio.
- Brake Tips: Gr5 Titanium, CNC Machined with Anti-slip teeth.
- Rotating Bar Clamp: Precision CNC Machined for Brake & Clutch mounts.

2.2 Drivetrain & Chassis

- Motorcycle Chain: Gr5 Ti-6Al-4V, 1032g per 120 links.
- Titanium Spokes: Gr5 Titanium, CNC Machining + Thread Rolling.
- Spoke Nipples: Titanium/Alu/Copper, Sizes 8G to 15G.
- Titanium Kickstand: High-Precision CNC Turning, 45% weight saving.
- Torsion Stop: Gr5 Titanium, Fits Sprint Car / KTM Models.
- Handlebar End Plugs: CNC Turned & Milled, High-tolerance sliders.

SECTION 3: Industrial, Marine & Subsea

3.1 Subsea Engineering (10,000m Depth)

- Subsea Battery Housings: Gr5 Titanium, CNC Machined, 10,000m Depth Rating.
- Deep-Sea Camera Housings: Gr5 Titanium, 4-Axis Machining.
- Detector Shells: Custom CNC Precision Titanium Parts.

3.2 Industrial Pipe Fittings

- Mandrel Bend Elbows: 45°/90°/180°, DN15-1200, ASME B16.9 Standard.

- Mandrel Bend Tube: OD 19mm - 127mm, Wall thickness 1.0 - 2.0mm.
- Straight Tee Pipe: OD 0.75" - 8.0", ASTM B363 Standard.
- Tube Sheet: For Heat Exchangers, Ø200mm - Ø4000mm, Tolerance ±0.05mm.
- Perforated Sheet: Gr2 / Gr7, Thickness 0.5mm - 10.0mm, Corrosion Resistant.
- Lifting Eye Bolts: M8 - M100, Gr5 Titanium, Heavy Duty.

3.3 Exhaust Fabrication

- Titanium Pie Cuts: Gr2 Titanium, 1.5" - 6", Laser cut for welding.
- Exhaust Flange: 0.500" Thickness, Warp-free Grade 2 Titanium.

SECTION 4: Medical & Dental CAD-CAM

- Dental Discs (Round): Dia 98mm x 10-25mm, Gr2/Gr5 ELI/Gr23.
- Dental Square Discs: 140 x 150mm, Gr2/Gr5 ELI/Gr23.
- Medical Micro Screws: M1.4/M1.6/M2.0, Gr5 ELI, ISO 13485 Compliance.

SECTION 5: PVD Sputtering Targets

- Titanium Targets: Rotary/Tube, Planar/Plate, Circle type.
- Materials: Gr1, Gr2, Gr5, Ti-Al, Ti-Cr, Ti-Ni, Ti-Si, Ti-Zr.
- Applications: Glass coating, LCD displays, Decorative PVD coating.

SECTION 6: Lifestyle, Hobby & Custom Tech

6.1 RC Hobby & Cycling


- RC Turnbuckles: M3 - M5, Fits XRAY/Team Associated.
- RC Ball Studs: 5.5 x (4-12)mm, High-precision Gr5 Titanium.
- Bicycle Frame: Custom Gr.9 (Ti-3Al-2.5V) All-Road / Road Bike.
- Bicycle Fork: Custom Gr.9 Titanium, Forging + Machining.

6.2 Outdoor & Specialized Tools

- Tent Stakes: 6.5g Ultra-lightweight, 3.0 x 165mm.
- Bait Spoon: Gr5/Gr2 Titanium, Forged for Angling use.
- Custom Wrench: Gr5 Titanium, Torx/L-shape, Non-magnetic.
- Valve Stem Caps: Universal fitment, CNC Machined Gr5.

GLOBAL COMMERCIAL SUMMARY

- **Quality Standards:** ISO 9001:2015, AS9100, FDA (Medical), ASME/ASTM (Industrial)
 - **Customization:** Full OEM/ODM (Logo, Color, Dimensions, Packaging).
 - **Logistics:** 30% Deposit / 70% Balance. Lead time 1-30 days (Standard to Custom).
-

 **Contact Our Engineering Team** Ready to upgrade your project with titanium? [[Request a Quote](#)] | [[Download Technical Catalog](#)] | [[Speak to a Specialist](#)]