

# TITANIUM ENGINEERS, INC.

SALES • DEVELOPMENT • PROTOTYPES • MANUFACTURING

Titanium Engineers Inc. is a leading supplier of titanium bar, seamless tubing, and finished components for oilfield and other industrial markets. Our capabilities include the metallurgical expertise to process titanium and select other alloys to meet unique customer specifications.

We specialize in seamless titanium tubing produced by the Rotary Piercing process. We also offer products manufactured by: forging, rolling, and machining using the following ASTM grades of titanium

- **Titanium Grade 2** (UNS# R50400, Commercially Pure Titanium, un-alloyed Titanium)
- **Titanium Grade 5** (UNS# 56400, Titanium 6AL-4V, 6-4)
- **Titanium Grade 7** (UNS# 52400, un-alloyed Titanium with Palladium)
- **Titanium Grade 19** (UNS# 58640, Beta-C™, Titanium 3AL-8V-6Cr-4Zr-4Mo)
- **Titanium Ti 6-6-2** (UNS#R56620, Titanium 6AL-6V-2Sn)
- **Titanium Ti 6-2-4-6** (UNS# 56260, Titanium 6AL-2Sn-4Zr-6Mo)

**Seamless Tubing:** Titanium Engineers produces seamless mechanical tubing using the Rotary Piercing process. The hot-formed tubing is produced to engineered OD and Wall dimensions ensuring complete cleanup during machining. The Pierced tubing exhibits excellent mechanical properties and has surface finish comparable to hot rolled bar.  
Size Range: OD 1.50" to 13.00" Wall .25" to 3.00"



**Cold Pilgering:** Pilgered thin wall tubing provides improved mechanical properties and accurate dimensional tolerances. The Pilgering machine is designed to make large reductions in the tube cross sectional area in a single pass. This cold-swaging process produces excellent surface finish on both the outside and inside diameters of the tube.  
Size Range: OD 1.00" to 10.50" Wall .125" to 2.00"



**Machining:** Precision machining of high strength titanium and other high alloys can be challenging. Our firm has over 17 years experience manufacturing oilfield tools and close tolerance components for a variety of applications.



**Inventory:** We inventory many common round bar sizes and material grades including: Titanium Grade 5, Ti 6-2-4-6 and Beta-C. Also select Stainless and Superduplex alloys. Typical Inventoried Diameters: .50" to 6.00"  
Stocking programs and pre-positioned material for critical delivery requirements can be arranged.

