

High-precision 5-axis machining of titanium and other difficult-to-machine materials

■ High-precision 5-axis machining with one-chuck finish

A high-precision fine machining 5-axis machining center for titanium, which is a difficult-to-machine material section introduces sample processing. **FUTA-Q skill (SKILL)** familiar with the facility Using six-sided products, one-chuck machining to back deformed holes.

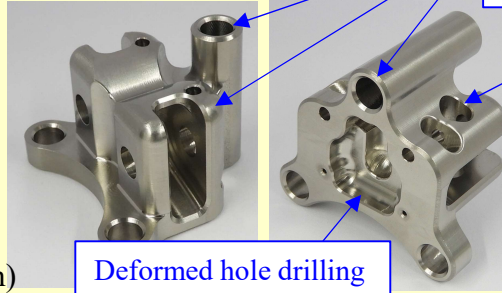


In addition to high-precision processing, the entire exterior surface is beautifully finished to a surface roughness of 0.8 μ m.

High-precision 5-axis machining is also possible from 3D CAD and CAM data to the machining machine.

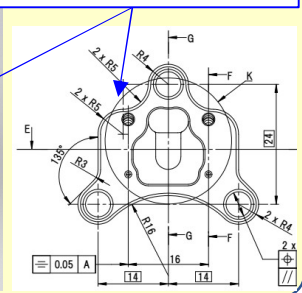
■ Characteristics of sample processed products

Material: Pure titanium (Class 2)
 High corrosion resistance,
 low thermal conductivity,
 Difficult-to-cut materials
 Size: 32×28×25mm
 Hole diameter : $\Phi 5 \times 5$, $\Phi 0.8 \times 2$,
 $\Phi 2 \times 2$ (5° tilt)
 Surface roughness: Ra0.8 (0.8 μ m)



R Shape processing

Diagonal 5° hole drilling



Deformed hole drilling

■ Specifications of high-precision micro-machining 5-axis machining center

- Equipped with thermal separation system (drastically reduces heat impact on processed products)
- XYZ high-precision 3-axis positioning + 2-axis indexing table
- High-speed spindle speed: 30,000rpm
- Machining jig replacement accuracy: 1 μ m (actual value)
- Number of tool sets: 40



■ Decision to construct the new Yagi plant!

- Scheduled to be completed in August 2020
- Structure: Reinforced concrete 2-story
- Total floor area: 2632 m² (796 tsubo)
- We will respond to increased production of existing products and new products.
- We will respond to customer demands such as unit assembly.



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