

For over 70 years, Koyo High Precision has earned the trust of high-tech organizations by supplying customer specific high-precision machined metal parts.

Industries served include:

- ✓ Medical Equipment
- Semiconductor Manufacturing Equipment
- ✓ Industrial Equipment
 - Automobile and Motorcycles



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Million Production Capability per Month

- We accept small-volume orders, even one piece while still providing mass production of High-Precision Components to over 1,000,000 units per month
- Manufacturing capabilities include 30 machining centers with over 200 CNC machines that provide a production capacity in excess of 1,000,000 pieces per month



- Stainless
- Brass
- Aluminum
- Tungsten (W)
- MAT21

- Molybdenum (Mo)
- Tantalum (Ta)
- Niobium (Nb)
- Hastelloy

- Inconel
- Permallov

Difficult-to-Cut Materials

- Alloy 42
- Kovar

- Nickel
- Silver
- Copper
- Platinum
 ...and many more

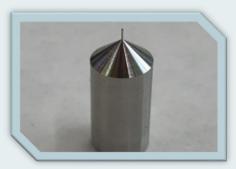


High-Precision Machining

- ±0.003mm (±0.00011") tolerances on Tungsten
- Nozzle with outer diameter 0.2mm (0.0079") and inner diameter 0.15mm (0.006") on Pt
- Through hole φ0.2mm (0.0079") length 40mm (1.57") on Hastelloy

Examples of Koyo's Machined Parts (Unit: mm)

Optical



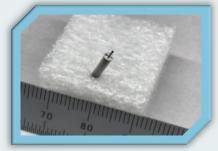
Platinum Microfabrication

Application: Material: Tolerance: Nozzles for glass lens refining equipment (camera lenses for facial recognition system) 90% Pt, 10% Au Tip shaft $\phi 0.2$ (+0.03/0) Tip hole $\phi 0.15$ (0/-0.03)



Pure Tungsten Precision MachiningApplication:Lamps for movie theatersMaterial:Pure TungstenTolerance:Inner $\phi \pm 0.003$

Medical Equipment







Molybdenum Pipe Machining

Application:Debridement wound instrumentMaterial:MolybdenumTolerance:Outer ϕ 0.45 (+0.03/0)

Pure Tungsten Ultra-Thin Machining

Application: Material: Tolerance: Endoscope – precision component to determine accurate instrument location Pure Tungsten Outer ϕ 8.6 (+0.03/0) Inner ϕ 8.5 (0/-0.03)

Measurement Instrumentation



Honed Part Application: Material: Tolerance:

Component of a digital contact sensor SUS440C Heat-treated HRC60 Outer ϕ 7±0.003 Inner ϕ 5±0.002

Semiconductor Manufacturing Equipment



Hastelloy Valve MachiningApplication:Valves for mass flow limitersMaterial:HastelloyTolerance:±0.05 overall



Koyo High Precision Co., Ltd. 1111 N. Plaza Drive, Suite 755, Schaumburg, IL 60173 USA 847-593-7000 http://koyofirst.jp/index_e.html e-mail: support@koyofirst.jp

ISO 9001 and 14001 Certified Company