



Akatsuki Tech Co Ltd

R&D / Mass-Production of Ultra-High-Precision for
Optical, Fluidic or Mechanical Core Parts



Glass Micro-Chips for MEMS

各類微小流路(生物芯片)等

- DNA diagnosis 核酸診斷用
- **Electrophoresis** 電泳等
- **Bacteria's counters** 細菌計數等
- Channel Size: **流路最小尺寸 5 μm**

Accuracy 精度: **0.1 μm** 保証



Flow-Cells of Optical / Imaging Particle Counters

光学式/影像式微粒子計數儀用流動池

- Liquid Particle Counters (**Flow Cytometry** of Blood Cell or Urinal Cell etc.)
血球 / 尿有形 / 細菌計數分析儀用

- Solid Particle Counters (for Water, Air or other fluids) 超純水 / 空氣中等微粒子計數等

- Channel size: **流路最小尺寸 5 μm**~

Accuracy 精度: **0.1 μm** 保証



Special Glass-made Optical Cells

特殊**玻璃超高精度**光学部品

- **Glass Materials:** Sapphire, Quartz, Pyrex etc.

材質: 光学藍寶石、超純度石英、PYREX 等

- UHV Cell 超高真空腔: $\sim 10^{-11}$ PaM³/Sec

- Special Cells: 保証精度 $\sim 0.1 \mu m$



Glass Molded Cuvette Cells

各類成型玻璃比色皿

- **Biochemical Spectrum** instrument
生化分析用

- Size: **1~20 mm**

Common type: **4x5, 5x5, 4.9x6 mm**

Made in Japan

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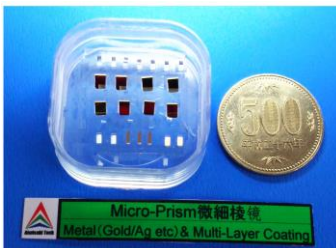
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Optical Lenses 微小～大型光学透鏡

- **Material:** Sapphire, Quartz, Optical Glass, Crystal 藍寶石、石英、各類光学玻璃
- **Shape:** Spherical or Aspherical 球面 / 非球面
- **Size:** $\phi 0.30$ (内視鏡用)～ $\phi 500$ mm(Collimator用)



Optical Precision Prisms 光学稜鏡

- **Material:** Sapphire, Quartz, Optical Glasses, Crystal (CaF₂) 藍寶石、石英、光学玻璃各類, CaF₂ 等晶体
- **Size:** 1～500mm 超微細稜鏡～大型高精度平面



Glass Ultra-Precision special plates

超高精度基準平面等

- **Angle Accuracy 角度精度:** >0.1Sec 秒
- **N 光圈: The highest Level in the world**
世界最高 $\lambda/100$ (< $\phi 90$ mm), $\lambda/60$ (< $\phi 150$ mm),
 $\lambda/20$ (< $\phi 300$ mm)
- **Ra 粗糙度 < 2 Å (RMS)**



- **Ultra-High Vacuum Sapphire Cells**
藍寶石超真空部品
- **Hole-drilling**
钻孔》 $\phi 0.3$ mm,
Tolerance 公差 ± 0.001 mm
- **Other Special Glass-Part**
其他特殊部件



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