

CI Tooling System

ALPS TOOL

Quick Change System

with **AQ²** Polygon Taper

Jointly developed by 3 companies

ALPS TOOL

Member IMC Group
NTK
CUTTING TOOLS

CITIZEN

Optimized for small Swiss-type Automatic Lathe with clamp units, adapters and machine tools.

AC3 3-Position Hybrid Unit

Quick Change×3
Square Shank×2



AQ² 3-Position Hybrid Unit

Quick Change×3
Square Shank×3



AQ² 5-row tool post for turning



Maximum grip diameter 10 mm

AQ² Collet Adapter

CI
CI Tooling System

ALPS TOOL

NTK
CUTTING TOOLS

CITIZEN



ALPS TOOL

AQ² Collet Adapter

AR Collet Chuck

- 16° Taper Collet (DIN6499/ISO15488 compliant)
- Grade AAA 3 μ m, Grade AA 5 μ m, Grade A 8 μ m

Passed strict inspections

CI Tooling System

with AQ² Polygon Taper

ALPS TOOL

That's the way!

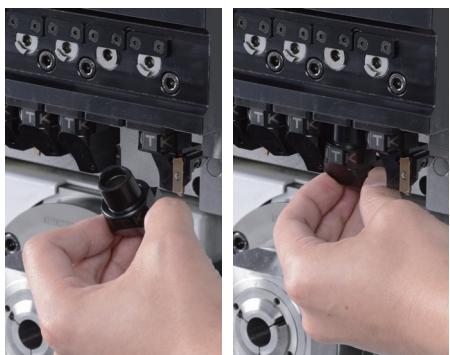
www.alpstool.com

* Prototype evaluation result

Quick change system with polygon tapered shank.

The unique coupling structure significantly reduces setup time and tool change time, ensures repeatability of the cutting edge position, and provides rigidity during machining.

Easy to handle and operate



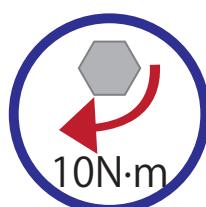
Check the phase of the head

Insert the head

Equipped with
Temporary Holding Function

It won't fall even if you let go of it,
so you can work with one hand.

Tighten with a torque wrench

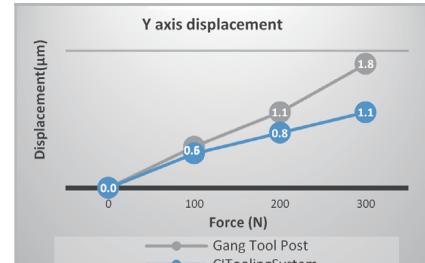
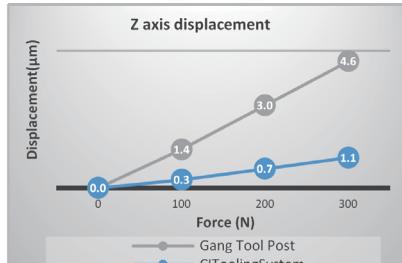
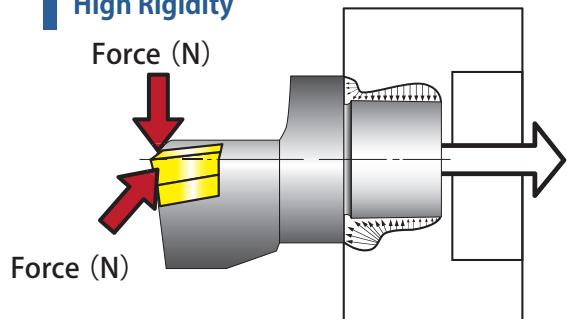


Tightening Torque



Replace completed

High Rigidity



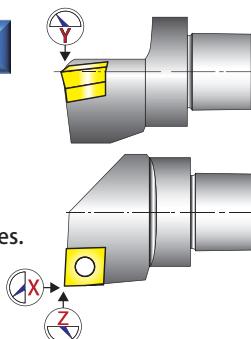
Efficient tool change

Repeatability $\pm 2 \mu\text{m}$

X-axis(Radial direction)
Y-axis(Center height direction)
Z-axis (Length direction)

Repeatability of $\pm 2 \mu\text{m}$ on all three axes.

Replaces square shank tools
with Quick Change



Supported Machine Tools

Starting with Citizen Machinery $\Phi 20$ model.



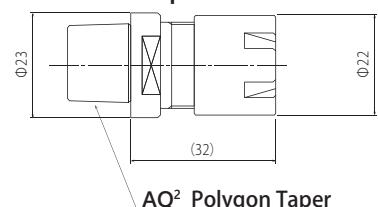
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Dimensions

ex.Collect Adapter AR16



AQ² Polygon Taper

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