

| SEMICONDUCTOR · GRINDING

# ANT-GCT 500B/600B

## High-Performance Grinding Center

A 4-axis CNC combined machine equipped with a **high-resolution turntable** featuring FANUC built-in motor. Handles both **cutting and grinding operations** in a single setup — ID, OD, and profile machining with seamless curve-to-line transitions. Includes **custom tool development** support.



Ø 0.2 ~ Ø 100 mm

TOOL RANGE

4-Axis CNC

COMBINED MACHINING

Ø 600 Table

LARGE WORK AREA

### KEY FEATURES

- 01 **B-Axis FANUC Dis Motor**  
built-in turntable — high-resolution drive
- 02 **Cutting and grinding**  
in one **combined machine** (ID / OD / profile)
- 03 **Index function + Rotary function**  
(dedicated Macro Program)
- 04 **Curve-to-line machining**  
transition — excellent connected processing
- 05 **Custom dedicated tool development support per product**

## COMPATIBLE MATERIALS

Si (Silicon)	SiC (Silicon Carbide)	SiO <sub>2</sub> (Quartz)
AlN	Alumina	Sapphire
Graphite	Green Ceramic	Rare Earth Permanent Magnet

## TECHNICAL SPECIFICATIONS — ANT-GCT 500B/600B · Standard specs · custom design available

<b>PROCESSING RANGE</b>	
Workpiece Diameter	Ø 500 mm
<b>STROKE</b>	
X-Axis	830 mm (incl. tool change feed)
Y-Axis	550 mm
Z-Axis	250 mm
<b>FEED RATE OVERRIDE</b>	
X · Y · Z-Axis	0 ~ 10 m/min
B-Axis	0 ~ 20 RPM
<b>TABLE</b>	
B-Axis Diameter	Ø 540 mm (configurable)
Live Load (B-Axis)	Max 200 kg
<b>PRECISION</b>	
X / Y / Z-Axis	± 0.005 mm
B-Axis	± 5" (arc-second)
Resolution X · Y · Z	0.001 mm
<b>SPINDLE &amp; DRIVE</b>	
Spindle	12,000 RPM (Ø 100), 24,000 RPM (Option)
Spindle Drive	High-Frequency · HSK-E40
Clamp Type	Vacuum
X · Y · Z-Axis Drive	Ball Screw + Servo Motor
B-Axis Drive	Built-In Servo Motor
<b>CONTROLLER &amp; POWER</b>	
Controller	FANUC Oi-MF-Plus · Motion (Option)
Main Power	220 V / 60 (50) Hz (Down T/R)

## ABOUT SAEHAN NANOTECH

### Precision machining equipment for hard & brittle materials — built in Korea, delivered worldwide

Korean manufacturer of precision machining equipment for hard & brittle materials, serving the **semiconductor, display, defense, rare earth permanent magnet, and battery** industries. Manufactured in **Changwon, Korea**, exported to **USA, China, Vietnam, and Malaysia**. Full lifecycle support — from independent R&D and custom design through installation, training, and after-sales service.

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