

| WAFERING · INGOT SAWING

# ANT-WS Series

## Multi Wire Sawing Machine

Optimized cutting technology (**ingot tilting and rotating**) for maximum **productivity and quality**. We design and manufacture **custom-built equipment** tailored to your material size and shape requirements.



**Diamond · Slurry**  
WIRE TYPE

**Rotary · Tilting · Fixed**  
CUTTING METHOD

**2 · 4 Spindle**  
CONFIGURATION

### KEY FEATURES

- 01** **Large-diameter ingot**  
and ring-type material high-efficiency sawing
- 02** **2 Spindle / 4 Spindle**  
configurations — customized per application
- 03** **Diamond and Slurry Wire**  
compatible — optimized for difficult-to-cut materials

## 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-WS Series · Standard specs · custom design available

Maximum Diameter (mm) : (A)	Ø 200
Length of Workpiece (mm)	300
Table Slicing Direction (U/D)	Down
Wire Type (D/S)	Diamond / Slurry
Ingot Rotation Type (T/R)	Tilting / Rotary
Machine	Wire Running Speed
Main Pitch Roller (mm)	Ø 200 ~ Ø 250
Number of Main Spindles	2 sets
Traverses / Bobbin / Tension	2 sets / 2 sets / 2 sets
In-feed Table	Z Table Stroke
Z In-Feed Rate	0.01 ~ 2,000 mm/min
Quick Traverse Rate	1.0 ~ 10,000 mm/min
Wire — Diameter / Tension	Ø 0.12 ~ Ø 0.25 / 30N ~ 60N
Coolant Tank — Volume / Delivery Rate	200 ~ 300 L / 120 L/min
Coolant / Spindle-Oil Chiller	2,700 ~ 8,400 kcal/h / 2,700 kcal/h
Control Axis / Controller	ACC24E2A (9 axes total) / PC-NC (P-mac)
Machine Dimensions (W x D x H)	Approx. 2,400 x 4,200 x 2,900 mm
Machine Weight	Approx. 12,500 ~ 22,500 kg
Main Power / Power Consumption	3-phase, 220V, 50/60 Hz / 142 kVA (16 SQ)
Air Working Pressure (kg/cm <sup>2</sup> )	5 ± 0.5 (Clean Air)

## 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.

READY TO TALK? | [Request a Quote or Machining Test](#)

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