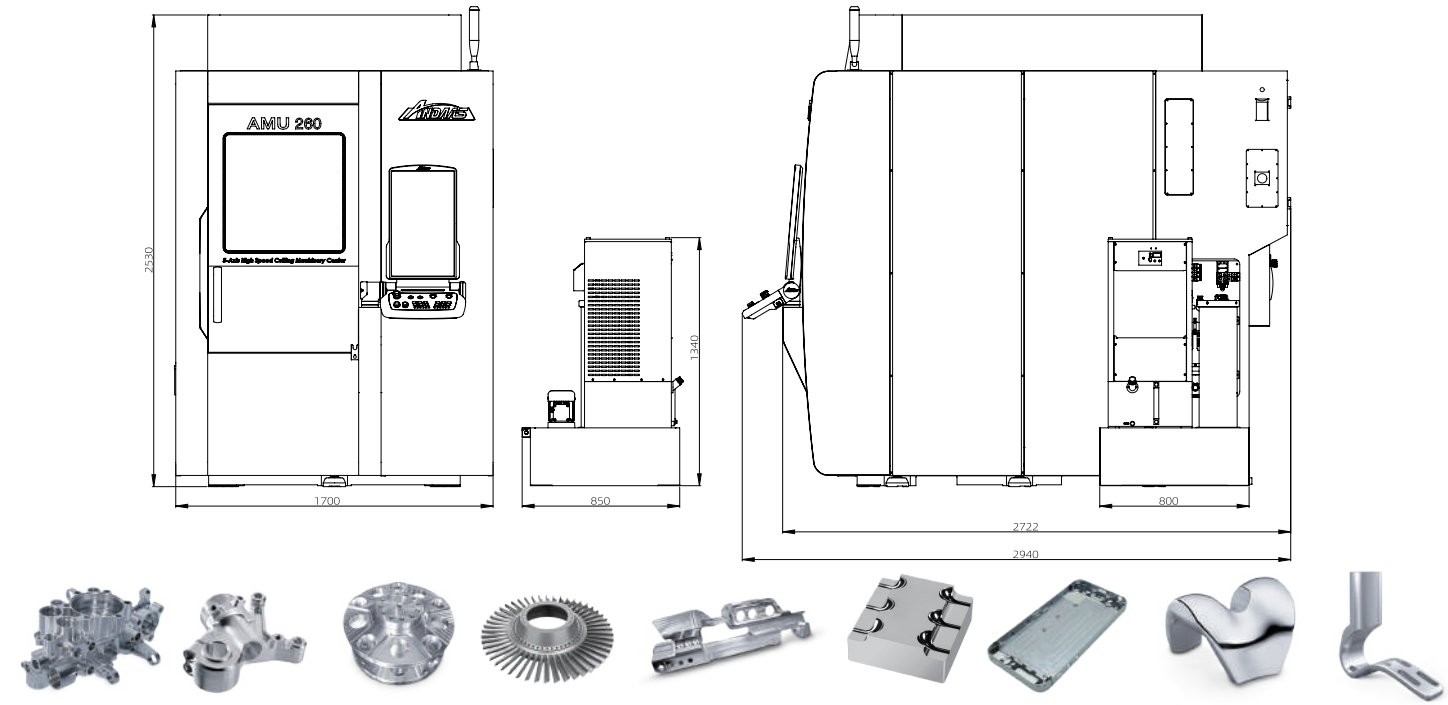


Mechanical specifications

Workbench panel size	260mm diameter
X-axis travel	400 mm
Y-axis travel	500 mm
Z-axis travel	380 mm
A-axis travel	150° (-120° /+30°)
C-axis travel	Continuous 360°
Spindle speed	20000rpm
Fast feed	36 M/min
Cutting feed	36 M/min
Maximum machining range	380 mm diameter X 290 mm (conditional)
Maximum load-bearing capacity of workbench	50 kg
Number of tools in tool magazine	40 tools (optionally expanded to 140 tools)
Linear axial positioning accuracy	±0.004 mm
Rotary axial positioning accuracy	±4 arcsec
Linear axial repeated positioning accuracy	±0.002 mm
Rotary axial repeated positioning accuracy	±2 arcsec
Acceleration	1.2 G
Footprint	1,700 mm x 2,750 mm
Mechanical weight	6,500 kg

Standard Accessories
<ul style="list-style-type: none">▪ DDR cradle-type dual-axis rotating workbench / water-cooled▪ Automatic tool changing system - with 40 tools▪ Controller system: NUM Flexium Plus 68<ul style="list-style-type: none">- 23.8" touch LCD- Partial HSC high-speed and high-accuracy function- RTCP function▪ Intelligent assistance system for ICS▪ Internal visual monitoring system▪ Contact tool setter▪ Fully-enclosed outer shell sheet metal▪ Central cooling system▪ Three-axis hollow cooling screw▪ Servo hydraulic system▪ Central lubrication system▪ Auxiliary water tank▪ Precision filtration system for cutting fluid▪ Chip collection box▪ Water pump▪ Air conditioning for electrical cabinet▪ Work light▪ Three-layer warning light▪ Foundation screws and pads▪ Toolbox▪ Mechanical components with fixed one-year warranty▪ Controller with fixed two-year warranty
Optional Accessories
<ul style="list-style-type: none">▪ Electric spindle / 30000 RPM / HSK-A50▪ Three-axis optical ruler / with HEIDENHAIN resolution at 0.01 μm▪ Visual tool setter▪ High-capacity tool magazine / with 100 tools▪ Oil-water separator▪ Oil mist recovery device▪ Automatic door▪ Chain plate type chip conveyor▪ Chip trolley▪ High-accuracy contact CNC probe▪ Centering precision vices▪ Bottom plates for centering precision vices



AMU260

5-Axis High Speed Cutting Machining Center

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5-Axis High Speed Cutting Machining Center



PRIMERO MACHINE TOOLS CORP.



AMU 260 *An Intelligent CNC Oriented to On-Site Applications*

As a shining star the modern manufacturing industry, the AMU series vertical 5-axis high-speed machining center brings unprecedented machining experience to our customers with its six outstanding competitive advantages, which are high efficiency, intelligence, Internet of Things, compactness, high precision, and high acceleration.

High Rigidity, High Response High Speed, High Accuracy

23.8" Multi-Touch Control Panel

- The 23.8" high-resolution display provides practicability and comfortable operation;
- The combination of NC+PC and ICS allows for fast and easy access to parameters and user data;
- The larger storage space is up to 1 TB;
- Program selections are expanded to hard drives, USB drives, and networks;
- The mechanical machining simulation function monitors the machining status in real time;
- Its intuitive interaction capability enables the more detailed display of both task order information and program information.

Direct Drive Tool Magazine

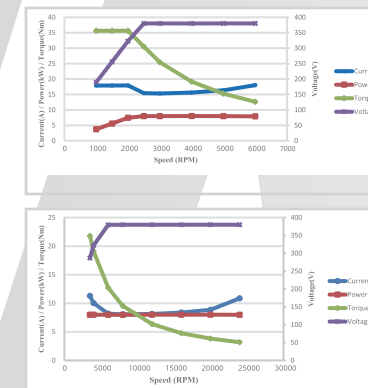
- The 40-tool magazine is combined with processes for efficient machining;
- Intelligent tool selection decreases tool change time;
- The compact design reduces repair rates.

20000-RPM High-Rigidity Spindle

- The inner diameter of the bearing has been increased from 40 mm to 60 mm. A high-accuracy ceramic ball bearing is used to improve rigidity;
- Dual cooling is applied to the spindle to effectively ensure thermal elongation;
- The locking area has been expanded from a diameter of 135 mm to 216 mm, which ensures high-stability machining;
- High-rigidity BBT30 taper holes favor low-speed heavy cutting.

Water-Cooled High-Speed Motor with High and Low Gears

- The technology based water-cooled motor with high and low gears allows for automatic shifting and variable-speed machining;
- The 8KW/35.6Nm high-power motor facilitates low-speed heavy cutting;
- The motor can automatically switch from the low-speed gear to the high-speed gear to enable wide-area high-speed machining with high precision;
- The built-in motor-driven mechanical spindle is ideal for high-accuracy machining.



Structure Determines Accuracy

- The double-column frame structure from an innovative design establishes a benchmark for high rigidity;
- The body combined with the base through three supporting points presents an advanced and innovative high-rigidity structure;
- High-rigidity roller guide rails ensure stable machining and production;
- Thanks to high accuracy and high reliability, the acceleration is greater than **1.2G**.

Direct Drive Motor Technology

- No backlash is present;
- The tilt axis provides a torque up to 1050 Nm, which ensures excellent acceleration performance;
- Both high-speed rotation and high-accuracy indexing are achievable;
- Product service life is prolonged with less maintenance required.

Multi-Functional Intelligent Stereoscopic Warehouse

- A built-in 10kg six-joint robot and an intelligent warehouse are available;
- The warehouse can be expanded to accommodate 140 tools, thus accomplishing high-efficiency machining.

Three-Axis Hollow Screw Cooling System

- Hollow screws are cooled to improve machining accuracy and stability;
- The servo motor is cooled to insulate heat conduction;
- Bearings are cooled to raise positioning accuracy.