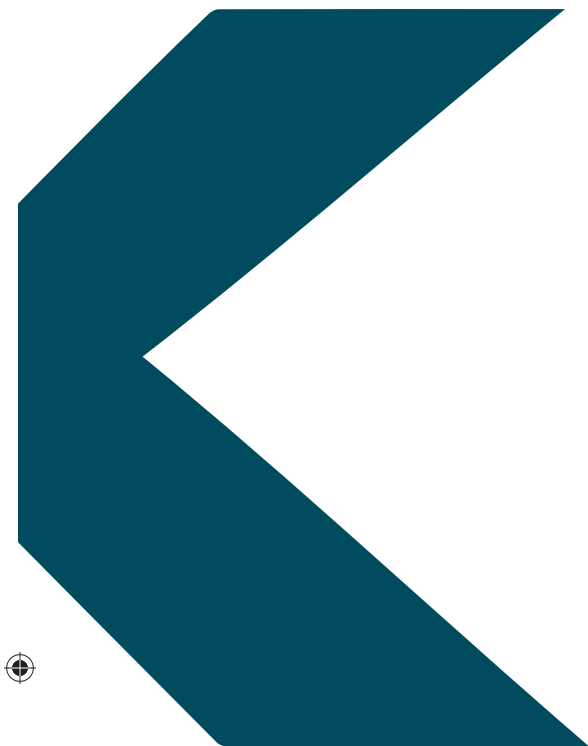




From ancient craft
to modern precision

CNC CENTERS AND BRIDGE SAWS

AVA 25

STONE CNC CENTER - 3 AXIS



OVERVIEW

Specially designed for versatility and productivity, the KPNC Ava25 can significantly expand the manufacturing capacity of both small workshops and large-scale stone fabrication facilities. The KPNC Ava25 CNC Stone Machining Center is an exceptional combination of high-quality materials, heavy-duty construction, and advanced automation technologies. It delivers fast, precise, and detailed processing of all types of marble, travertine, granite, and engineered stone. The integrated automatic tool changer minimizes the need for operator intervention, ensuring smooth and continuous processing of multiple projects.

APPLICATIONS

MONUMENTS	COUNTER TOPS
SHOWER TRAYS	FIREPLACES
SINKS	ARCHITECTURAL ELEMENTS

MAIN FUNCTIONS

- CUTTING
- PROFILING
- SHAPING
- MILLING
- EDGE FINISHING
- ENGRAVING
- 2D&3D CARVING
- POCKETING
- BOUCHARD EFFECT
- POLISHING

TECH SPECS

- Worktable:** X 2500/Y 1500/Z 400 mm, with PVC coating to protect the workpiece surface from scratches
- Drive System:** Servo motors with encoders, featuring real-time load monitoring
- Guides:** 30 mm linear prismatic guides; rack-and-pinion drive on X and Y axes, ball screw drive on Z axis
- Spindle:** StoneMill 7.5 kW with automatic tool change, BT40 toolholders. Optional upgrade to 12 kW
- Spindle Cooling:** Active industrial chiller with compressor and refrigerant system
- Tool Change:** Automatic Tool Changer (ATC) for 6 tools, upgradeable to 12 tools
- Tool Cooling:** Integrated water circulation system with stainless steel tank
- Fastening of the material:** Aluminum profiles with T-shaped channels for fixing with mechanical clamps
- Vacuum System (Optional):** Vacuum cups for secure workpiece fastening
- Tool Measurement:** Automatic measurement performed during each tool change
- Control Panel:** Intel Core i7 / 16 GB RAM / 256 GB SSD, with keyboard and MPG (manual pulse generator) control
- Controller:** 3-axis system, 270° rotation and 21.5" display
- Frame:** Heavy-duty galvanized frame constructed from thick-walled, electro-welded steel
- Surface Scanning (Optional):** Integrated system for detecting and compensating surface irregularities in the workpiece

AVA 35

STONE CNC CENTER - 4 AXIS



OVERVIEW

The KPNC Ava35 CNC Stone Machining Center is designed for professional stone fabrication, combining power, precision, and automation in one system. Its worktop is 3500x1500 mm suits it perfectly for large-scale projects in granite, marble, engineered stone, and even glass. The 12 kW GraniteGrinder spindle, the automatic tool changer, vacuum clamping and intelligent control reduce operator effort while boosting efficiency. Optional upgrades, including surface scanning and a 4th rotary axis, further expand its capabilities, making Ava35 ideal for workshops and factories seeking high productivity and uncompromising quality.

APPLICATIONS

MONUMENTS	COUNTER TOPS
ARCHITECTURAL ELEMENTS	SHOWER TRAYS
SINKS	FIREPLACES
URNS	BALUSTRADES

MAIN FUNCTIONS

- CUTTING
- PROFILING
- SHAPING
- MILLING
- EDGE FINISHING
- ENGRAVING
- 2D&3D CARVING
- POCKETING
- BOUCHARD EFFECT
- POLISHING
- 4-AXIS ROTARY MILLING

TECH SPECS

- Worktable:** X 3500 / Y 1500 / Z 400 mm, with PVC coating to protect the workpiece from scratches
- Material Clamping:** Aluminum profiles with T-slots and mechanical clamps
- Vacuum System(included):** Integrated system for secure vacuum workpiece fixation
- Drive System:** Servo motors with encoders and real-time load monitoring
- Guides:** 30 mm linear prismatic guides; rack-and-pinion drives on X and Y axes, ball screw drive on Z axis
- Spindle:** GraniteGrinder 12 kW ATC spindle with BT40 toolholders, specialized for the hardest surfaces
- Spindle cooling:** Active industrial chiller with compressor and refrigerant
- Tool Change:** Automatic tool changer for 12 tools, upgradeable to 18 or 24 tools
- Tool Cooling:** Integrated water circulation system with stainless steel tank
- Tool Measurement:** Automatic tool measurement at each tool change
- Control panel:** Intel Core i7 / 16 GB RAM / 256 GB SSD, with keyboard and MPG (manual pulse generator)
- Controller:** 4-axis system with mobile operator panel, 270° rotation, 21.5" display
- Frame:** Extra heavy-duty galvanized frame made of thick-walled, electro-welded steel
- Surface Scanning (Optional):** Integrated system for detecting and compensating surface irregularities in the workpiece

NOVA

STONE CNC CENTER - 3 AXIS

KPNC
STONE EQUIPMENT



OVERVIEW

The KPNC Nova CNC Router for Stone is a precision-engineered, computer-controlled machine designed for cutting, shaping, engraving, and producing complex 3D reliefs and bas-reliefs on a wide range of stone materials. Specifically optimized for stone processing, this cost-effective CNC system features a robust, thick-walled steel frame that ensures maximum structural rigidity and minimizes vibration during high-load operations. Offering an excellent balance between performance and affordability, the KPNC Nova is an ideal solution for small to medium-sized manufacturers seeking reliable automation with manual tool change capability for enhanced flexibility in diverse machining applications.

APPLICATIONS

MONUMENTS

COUNTER TOPS

FURNITURE ELEMENTS

LETTERS

MAIN FUNCTIONS

CUTTING
PROFILING
SHAPING
MILLING
ENGRAVING
2D&3D CARVING
DRILLING
POCKETING

TECH SPECS

Surface Area: X2500/Y1500/Z400mm.
With PVC anti-scratch coating on the workpiece

Fastening of the material: Aluminum profiles with T-shaped channels for fixing the material by means of mechanical clamps

Drive: Servo motors with encoders

Guides: Linear prismatic guides – 25mm. Rack and pinion with inclined teeth on X and Y. Screw pair on Z

Spindle: MarbleMaster 7,5kW with fast pneumatic change - works with BT40 toolholders

Spindle cooling: Passive industrial chiller

Tool cooling: Integrated water circulation system with stainless steel tank

Measurement of tool length: Manual

Control panel: Intel core I3- 8GB RAM 256 SSD, Keyboard and Wireless controller

Display: 21.5" with protective screen

Controller: Three-Axis

Frames: Heavy Duty construction with 8mm electro-welded steel

Material surface scanning: Optional

STONESAW 4X PRO

4-AXIS CNC STONE BRIDGE SAW



OVERVIEW

The KPNC Stone Saw 4X PRO – 4-Axis CNC Bridge Saw is designed for automated and precise cutting of stone surfaces. The C-axis rotates automatically from 0° to 360°, enabling longitudinal, transverse, and diagonal cuts, as well as the creation of internal L-shaped corners. The machine supports both straight and 45° angled cuts, providing flexibility for a variety of production requirements.

A positioning laser allows quick and accurate verification of the workpiece location prior to cutting. The tilting worktable, adjustable up to 85°, ensures safe and convenient slab loading, while the galvanized thick-walled steel construction delivers exceptional durability and corrosion resistance. The rigid frame maintains high precision even at high operating speeds. Thanks to its compact monoblock design, the machine is easy to position and relocate, making it an ideal solution for modern stone fabrication workshops.

MAIN FUNCTIONS

- CUTTING
- RECTANGLES
- POLYGONS
- FREE LINES
- CIRCLES
- SECTORS
- PARALLELOGRAMS
- GRIDS
- ARCS
- COUNTER TOPS

TECH SPECS

- Interpolated Axes: 4
- Work Range (XYZ): X 3700 × Y 2100 × Z 400 mm
- Worktable Size: W 3700 × L 2100 mm
- C-Axis Rotation: 0°–360°
- Cutting Disk Diameter: 350–450 mm
- Spindle Speed: 3000 / 6000 RPM (adjustable)
- Spindle Motor power: 11 kW
- Total Machine Power: 25 kW
- Worktable Tilt: 0°–85°
- Control Panel: KPNC
- Machine Weight: 4000 kg

STONESAW 5X PRO

5-AXIS CNC STONE BRIDGE SAW

KPNC
STONE EQUIPMENT



OVERVIEW

The KPNC Stone Saw 5X PRO – 5-Axis CNC Bridge Saw is designed for automated and precise cutting of a wide range of stone materials. Its monoblock construction, made of galvanized thick-walled steel, ensures maximum rigidity and stability for high-speed cutting. The system enables straight, diagonal, L-shaped, curved, and aperture cuts, as well as four-sided miter cutting at angles between 0° and 90.

Equipped with an intelligent CNC controller, the machine allows direct input of machining parameters via the control panel and supports file import in DXF format for seamless integration with CAD/CAM workflows. Works with G-code and CAD files. The hydraulic worktable can be lifted and tilted up to 85°, providing easy slab loading and positioning. An integrated camera system captures the slab's placement on the table, while a positioning laser projects cutting lines directly onto the material for maximum accuracy. The machine is also equipped with a vacuum system for handling the material.

MAIN FUNCTIONS

CUTTING ALL GEOMETRIC SHAPES:

FREE LINES
FREE FORMS
COUNTER TOPS
SINK OPENINGS
GRIDS & NETS
MILLING
DRILLING
POCKETING
CHAMFERING
BEVELING
PROFILING

TECH SPECS

Work Range: X 3700/Y 2100/Z 500 mm
(worktable size: 3700 × 2100 mm)
Axis Rotation: C-axis: 0°–375° | A-axis: 0°–90°
Cutting Disk Diameter: 350–500 mm
Spindle Speed: 3000 / 6000 RPM (adjustable)
Spindle Motor Power: 15 kW (20.4 HP);
Total Machine Power: 29 kW
Worktable Tilt: 0°–85°
Controller: 5-axis CNC with mobile operator panel,
270° rotation; integrated 21.5" display

Workpiece Capture: Integrated camera system
Milling Capability: Using milling tools with 1/2
GAS and collet holders at 90° rotation of the 5th axis
Disk Measurement: Automatic diameter
measurement via sensor
Cutting Monitoring: Built-in laser
Axis Lubrication: Automatic
Machine Dimensions & Weight:
W 6200 × H 2950 × D 3450 mm; 4500 kg



From ancient craft to modern precision

KPNC Stone Equipment designs and manufactures CNC centers and bridge saws, combining precision engineering with innovative technology to empower modern stonemasons in creating complex, high-quality stonework efficiently and artistically.

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