MACH 5

5-axis CNC bridge saw · ER32 side spindle · vacuum lifter



MACH 5 and MACH 10 share the same frame and doors

PRODUCT OVERVIEW

MACH 5 is the MACH 10 platform with a different side spindle: a 7 kW (9.4 HP) ER32 spindle at up to 18,000 rpm, with tools changed by hand. It keeps the 5-axis head, the aluminum vacuum lifter, the internal live camera and the fully enclosed, hot-dip galvanized monoblock — to cut, drill, mill and contour in one setup.



MACH 5 head



Enclosed frame

21.5 kW S6	ER32 · 18,000 rpm	700 kg	3,800 × 2,400 mm
Main spindle (≈29 HP)	Side spindle, 7 kW	Dual-arm vacuum lifter	Tilting work table

KEY SPECIFICATIONS

Axes	5-axis interpolated · A 0–90° · C 0–370°
Blade tilt	Automatic, 0–90°
Z stroke	450 mm (17 3/4 in)
Maximum blade	Ø 725 mm (28 9/16 in); Ø 625 mm with probe or vacuum lifter, Ø 450 mm with side spindle
Spindle speed	Up to 6,000 rpm, built-in inverter
Table tilt	Hydraulic, up to 85°
Vacuum lifter	350 kg one arm · 700 kg two arms
Camera	Internal live camera with extra monitor
Control	21-inch industrial touchscreen · Zeus by Pegasus
Frame	Hot-dip galvanized steel monoblock

MACH 5 OR MACH 10?

Same platform, same look. MACH 10 replaces the ER32 spindle with an Italian ISO30 spindle (5.2 kW, 12,000 rpm) and a 9-position automatic tool changer.

IDEAL APPLICATIONS

- Countertops and custom stone: straight, diagonal and precision miter cuts.
- Sink cut-outs, drilling and milling with the side spindle.
- Curved and contour cutting, custom shapes and profiles.
- Slab polishing programs and surface processing.

INCLUDED CONFIGURATION

- Industrial CNC control, 21-inch touchscreen and handwheel.
- Zeus by Pegasus with Profiles & Shapes, Photo Digitizer, Mini CAD.
- 7 kW ER32 side spindle (manual tool change).
- Aluminum vacuum lifting system.
- Internal live camera with extra monitor.
- Blade/tool presetting device and slab thickness probe.
- Safety doors, inside and outside covers, cabinet A/C, transformer.
- 90 hours installation and operator training.

YOUR CONFIGURATION

Optional: overhead slab camera (ceiling or side post), vein matching and automatic nesting. Your written quotation lists the final configuration and licensed software.

CUT. DRILL. MILL.

The saw blade and an ER32 side spindle on one 5-axis head.

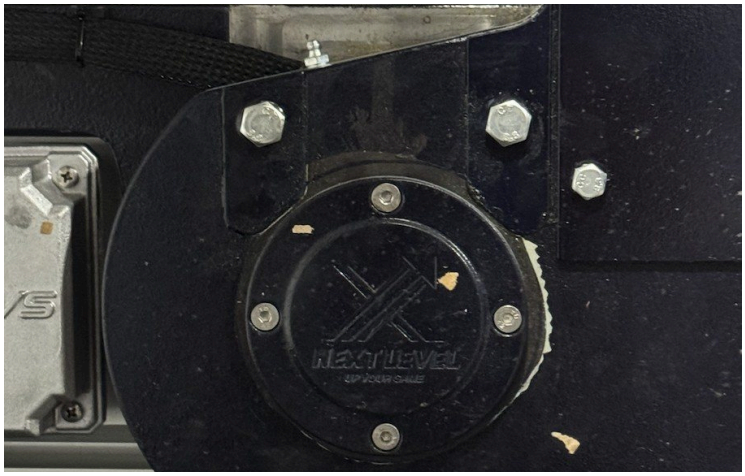


ER32 side spindle

Beside the blade guard, a 7 kW (9.4 HP) side spindle with an ER32 collet runs drilling, milling and contouring tools at up to 18,000 rpm. Tools are changed by hand — there is no automatic tool changer on MACH 5.

Side spindle	7 kW (9.4 HP) · ER32
Speed	Up to 18,000 rpm
Tool change	Manual





Presetting device.

A device in the table measures blade diameter and milling-tool length automatically; a probe on the head reads slab thickness.

21.5 kW main spindle.

S6 rating with a built-in inverter. Saw cutting and milling run on the same motor through a ½-inch Gas intercooled tool interface.

Interpolated 5-axis head

Servo-driven A-axis 0–90°, C-axis 0–370° and automatic blade inclination 0–90° for angled cuts, miters and contour shaping.

Blade on the rotation axis

The blade sits in line with the head's rotation center, and the spindle carriage runs on two linear guides.

Lasers and templates

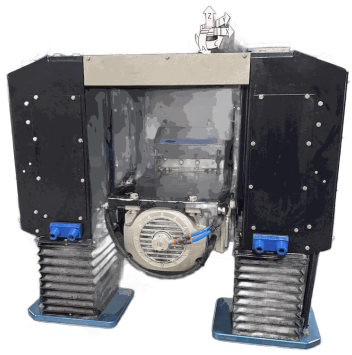
Blade laser, cross laser and cutting from a template are part of the configuration.

Precision linear guideways

All axes run on linear guideways driven by servo motors with precision reducers.

LOAD. POSITION. WATCH.

Hydraulic table, vacuum lifter and internal camera built around the operator.



Aluminum vacuum lifter

The integrated vacuum lifting system picks up and repositions cut pieces on the table and handles strips as narrow as 40 mm. In CAD Cuts the moves are programmed together with the cuts.

One arm	350 kg (771 lb)
Two arms	700 kg (1,543 lb)
Narrowest strip	40 mm (1 9/16 in)



Lifter on the work.

The suction pads come down on the cut piece and lift it clear of the table before the move.



Internal live camera.

A camera and LED light strip inside the enclosure show the work area live on an extra monitor.



Hydraulic tilting table.

The wooden table with its rubber cutting surface tilts hydraulically up to 85° for loading and unloading slabs.

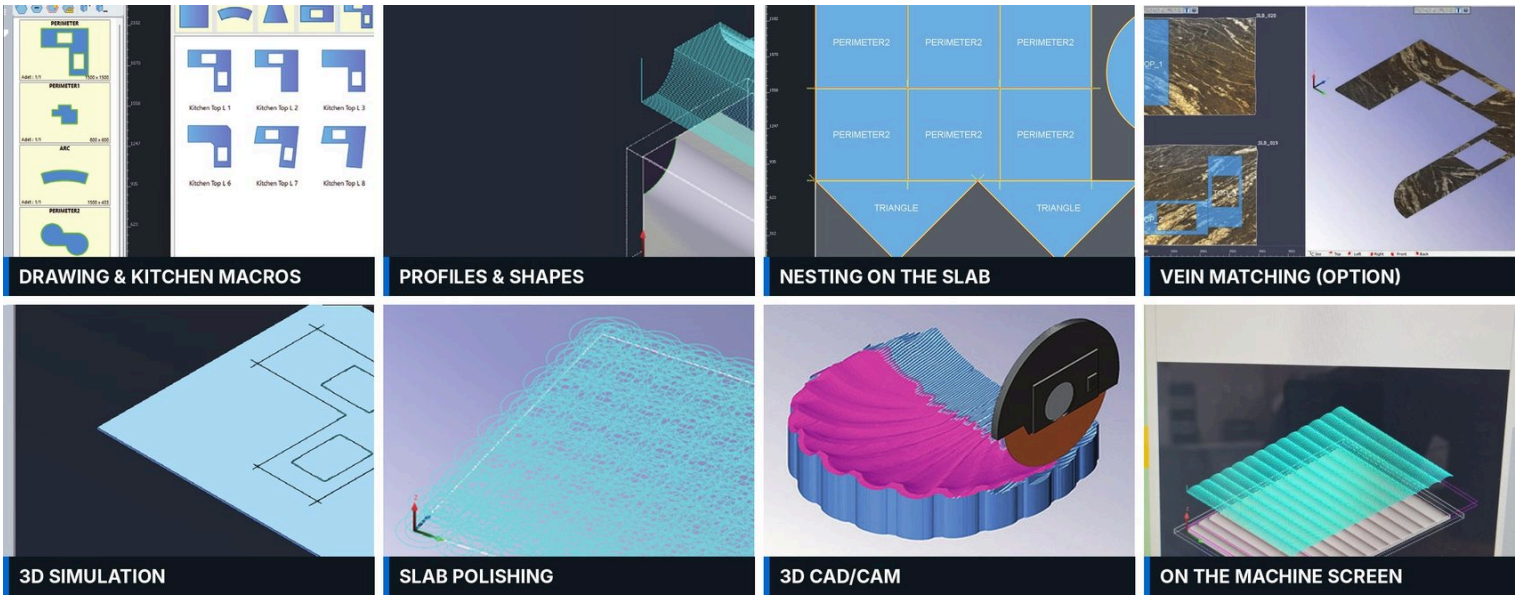


Fully enclosed.

Safety doors, inside protection covers and outside side covers on a hot-dip galvanized monoblock that needs no concrete foundation.

ZEUS BY PEGASUS SOFTWARE

Touch-based CNC software with slab imaging and vision-based apps — no advanced technical skills needed.



Screens from the Zeus by Pegasus apps and the 3D CAD/CAM module; the last picture is the 21-inch screen of a MACH 1.

VEIN MATCHING AND NESTING

The optional Kitchen Designer & Vein Matching module matches veins across slabs and shows them in a 3D preview — in the office or on the machine. Automatic nesting in CAD Cuts and an IP67 overhead slab camera are also optional.

Machine panel

Axis positions, machine status, active origin and tool, spindle power absorption, feed and speed, NC and PLC alarms — with START, STOP and RESET on the screen.

CNC and Saw Bridge modes

JOG, MDI and Automatic pages with tool and origin tables. Manual cutting with the joystick, plus semi-automatic cycles: single, multiple, orthogonal, leveling, polygons, arcs and circles.

CAD Cuts

Pieces from a rectangle, a parametric library, an Excel/CSV list, the Drawing app or DXF. Overlapping cuts are removed, colliding cuts trimmed and the sequence optimized, with rest machining by drill and mill and a built-in simulation.

Photo, Laser Slab, Templates

The slab photo is rectified to the real table size. The head laser traces the slab perimeter, and templates or drawings laid on the table are digitized with the laser or the camera image.

Profiles & Shapes · Manual Cuts · Drawing

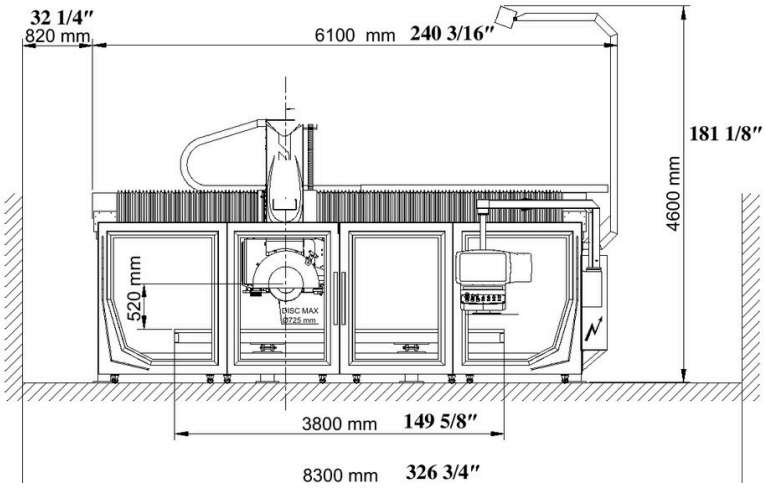
Disk shaping from parametric macros or imported CAD with vertical, oriented and horizontal disk roughing and finishing; quick manual cuts; 2D drawing with CAD import.

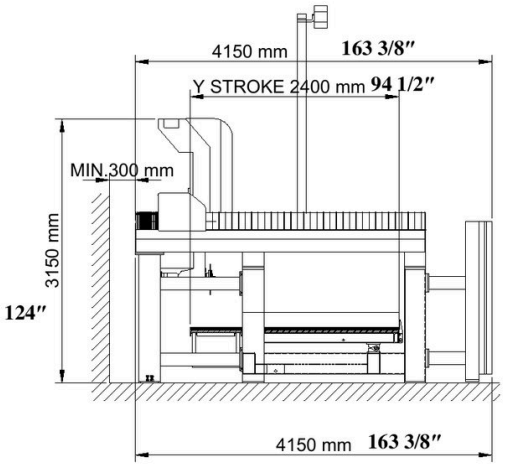
Slab Polishing · 3D CAD/CAM

Polishing programs with saved presets. The 3D CAD/CAM module reads DXF, DWG, IGES, STEP, 3DS, OBJ, STL and Rhino3D for 2D/3D roughing and finishing, 3+2 and 4–5-axis interpolated.

TECHNICAL DATA AND LAYOUT

MACH 5 · factory layout drawing (front and side elevations)





MACHINE

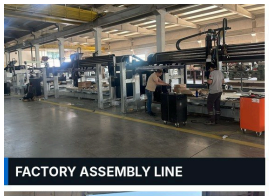
Disc spindle cone	½-inch Gas, intercooled, right-hand thread
Axis drives	Servo motors with precision reducers
Max. working length	3,780 mm (148 13/16 in)
Work table	3,800 × 2,400 mm (149 5/8 × 94 1/2 in)
Table surface	Wooden + rubber
Overhead camera	Option: ceiling-mounted or on a side post
Weight	~7,000 kg (approx. 15,430 lb)

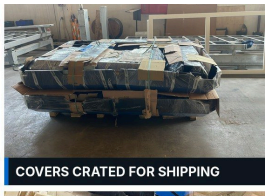
SITE

Buyer supplies	Water, compressed air, blades, milling tools, electrical supply and a surge protection device (warranty condition)
Wall clearance	Min. 300 mm (11 13/16 in) on every side
Foundation	None: the monoblock stands on the shop floor

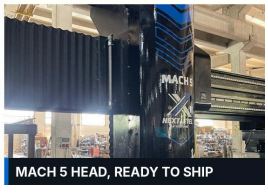
LAYOUT AND UTILITIES

Layout (L × W)	8,300 × 4,150 mm (326 3/4 × 163 3/8 in)
Bridge length	6,100 mm (240 3/16 in)
Height	3,150 mm (124 in); 4,600 mm (181 1/8 in) with camera post
Electrical	400 V, 50–60 Hz, 3-phase + ground; 30 kW; transformer included
Compressed air	Min. 250 L/min, 8 bar, filtered and dried, 3/8-inch
Water	Min. 30 L/min, 3.5 bar, 1-inch, filtered to 100 µm
Network	Wi-Fi or RJ45 (Cat 5 or higher)


FACTORY ASSEMBLY LINE


COVERS CRATED FOR SHIPPING


DELIVERED TO THE SHOP


MACH 5 HEAD, READY TO SHIP

From our factory to your floor

Real photos of MACH machines on their way: factory assembly and testing, wrapping, container loading, delivery and installation. At your shop a Next Level technician sets the machine up and trains your operators.

Specifications are subject to change without notice. Weights and dimensions are approximate; inch and pound values are converted and rounded. The layout drawing is a planning reference; the approved drawing for your machine governs the installation.

CHOOSE YOUR MACH

The whole MACH series side by side — then built, shipped and installed by Next Level.

ECO MACH, MACH 1, MACH 5 OR MACH 10?

	ECO MACH base	ECO MACH fully loaded	MACH 1	MACH 5	MACH 10
Main spindle (S6)	13 kW	13 kW	21.5 kW	**21.5 kW**	21.5 kW
Maximum blade	Ø 625 mm*	Ø 625 mm*	Ø 725 mm	**Ø 725 mm***	Ø 725 mm*
Z stroke	325 mm	325 mm	450 mm	**450 mm**	450 mm
Work table (mm)	3,500 × 2,000	3,500 × 2,000	3,800 × 2,400	**3,800 × 2,400**	3,800 × 2,400
Hydraulic table tilt	80°	80°	85°	**85°**	85°
Milling from main spindle	Option	Option	✓	✓	✓
Side spindle	Option	ER32 · 7 kW	—	**ER32 · 7 kW**	ISO30 · 5.2 kW
Automatic tool changer	—	—	—	**—**	9 positions
Vacuum lifter (2 arms)	—	—	—	**700 kg**	700 kg
Thickness probe · presetting	Option	✓	✓	✓	✓
Overhead slab camera	Option	✓	Option	**Option**	Option
Internal live camera	—	—	Option	✓	✓
Software	Factory CAD	Factory CAD	Zeus by Pegasus	**Zeus by Pegasus**	Zeus by Pegasus
Vein matching module	—	—	—	**Option**	Option
Safety doors · cabinet A/C	—	—	✓	✓	✓
Outside side covers	—	—	—	✓	✓
Layout L × W (mm)	6,000 × 3,300	6,000 × 3,300	7,800 × 3,880	**8,300 × 4,150**	8,300 × 4,150
Machine weight	~5,000 kg	~5,000 kg	~7,000 kg	**~7,000 kg**	~7,000 kg
Installation + training	Included	Included	70 hours	**90 hours**	90 hours

✓ standard · — not offered / not included. All five share the 5-axis head (A 0–90°, C 0–370°, automatic blade tilt 0–90°), a 6,000 rpm main spindle and a hot-dip galvanized monoblock frame. *Factory data, largest blade with the thickness probe fitted: ECO MACH Ø 450 mm, MACH 5/10 Ø 625 mm (also with the vacuum lifter); with the side spindle: ECO MACH Ø 350 mm, MACH 5/10 Ø 450 mm.

INSTALLATION & TRAINING

- 90 working hours of installation and operator training at your shop, including the technician's travel, board, lodging and local transfers.
- Operator availability Monday through Saturday is needed to complete the training.

WARRANTY

- 12 months on mechanical and 12 months on electrical/electronic parts (one working shift), from installation but no later than 60 days after the invoice date.
- Software: 24 months, including teleservice / help-desk assistance and license updates (patches and releases).
- Not covered: damage from accidents, incorrect use or not following the training and manual; technician travel for warranty visits; loss of production.

Questions, or ready for a written quotation? **+1 941-900-3018** · **sales@nextlevel.plus** · **nextlevel.plus**

Budgetary equipment information. U.S. and metric values appear together; added conversions are approximate. This sales document does not replace the delivered manual, drawings or safety labels.