Achilli
EVOLUTION IN STONE TECHNOLOGY

STONE SAWS

Monoblock bridge saw GOLD

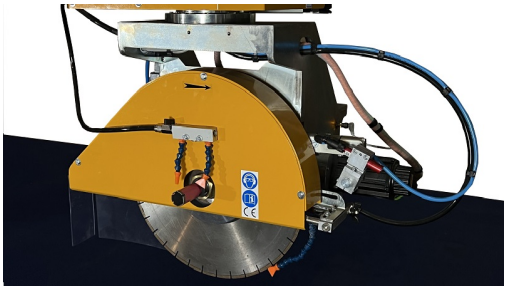
High precision 4-axis or 5-axis monoblock bridge saw

CNC bridge saw for stone and ceramic slabs with **automatic head rotation** from 0° to 360°, allowing for cuts in all directions. The head tilts up to 90°, enabling angled cuts from 0° to 50°, and supports the mounting of an incremental milling and drill bit, facilitating the programming of **drilling and milling cycles**. Maximum **cutting precision** is ensured by the use of linear guides with recirculating ball slides and **Brushless motors.**

Features

STURDY STRUCTURE

Steel frame, sandblasted and ceramic coated (hot-dip galvanized upon request).



HEAD ROTATION

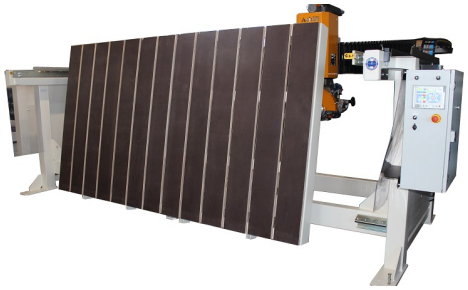
Automatic rotation of the head controlled by cnc. Permits the execution of cuts along different interpolated lines and the execution of cutting programs without any manual operation.

HEAD MOTION

High precision head motion, on linear guides with recirculating ball slides and Brushless motors.
Head raise and lower on linear guides with recirculating ball screw mechanism.
Motorized head travel with variable speed on all the axes (X-Y-Z-W-T).

HEAD TILT

Automatic blade tilt 0-50 and 90 degrees.



WORKTABLE

Available with fixed or tilting worktable. The worktable can be covered with replaceable marine plywood boards.

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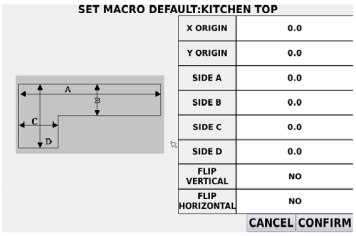
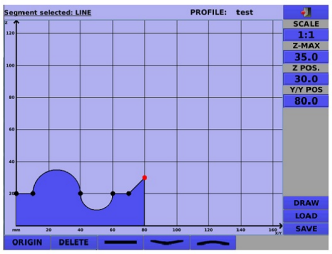
CNC CONTROL

Cnc axes control unit with 12'' touchscreen colour display for cuts programming. Allow the automatic execution of cutting, drilling and milling cycles without manual intervention.



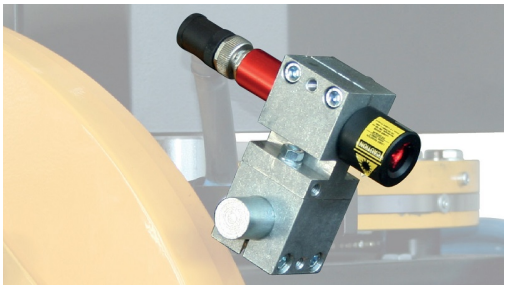
MACRO

Parametric geometric shape generation function to facilitate the creation of the most common cutting programs such as rectangle, hexagon, "l" kitchen top, ellipse/circle, trapezoid, threshold etc.



SURFACE PROFILING

The profiling environment of the cnc is used to create artistic frames, decorations, recess drains, and drainage lines.



LASER ALIGNMENT DEVICE

To achieve an effective cutting optimization, a laser diode mounted on the head shows the blade's cutting line.

REMOTE PENDANT CONTROL

Machine is available with a remote control unit connected to the main electrical panel via cable or wireless, allows to control the movement of the axes directly near the working piece, offering a more comfortable position for the operator.

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Advantages

GOLD is the new generation **4 or 5 axis bridge saw** for cutting stone and ceramic slabs:

- **Customizable** according to customer requirements;
- **Monoblock** structure for **easy installation** (does not require foundation);
- **Automatic head rotation**;
- **High precision** head motion, on linear guides with recirculating ball slides and brushless motors.
- **Simple to Operate:** GOLD is capable of fully automatic operation or can be operated in a semi-automatic mode to give the operator full control of sawing operations;
- **Automatic blade tilt** 0-50 and 90 degrees;
- **1/2" gas connection** for mounting incremental milling and drill bit and perform automatic drilling and milling cycles, to easily cut corners and remove the tension from the sintered material slabs;
- **Parametric geometric shape generation** function to facilitate the creation of the most common cutting programs such as rectangle, hexagon, "L" kitchen top, ellipse/circle, trapezoid, threshold etc.
- **Profiling environment of the CNC** to create artistic frames, decorations, recess drains, and drainage line.

Technical details

X axis travel	3900 mm (12'8")
Y axis travel	2380 mm (7'8")
Z axis travel	330 mm (13")
Worktable dimensions	3500x2200 mm (11'5"" x 7'2")
Diamond blade diameter	350-525 mm (13"-20")
Blade bore size	50 mm
Head tilt	0° - 50°, 90°
Head rotation	0°- 360°

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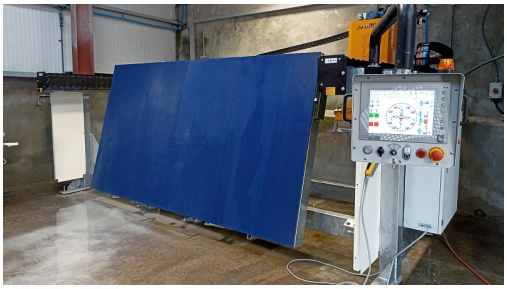
Main motor power	11kW = 15HP
Main motor variable speed	800 - 6000 rpm
Standard voltage/frequency	3ph. 400V-50/60Hz 230V-60Hz

Accessories

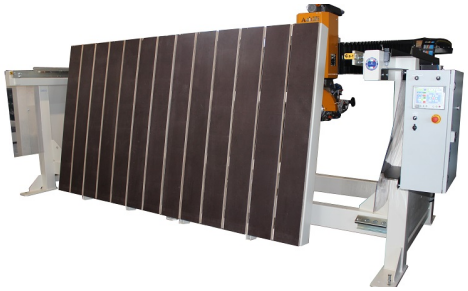
GALVANIZED FRAME

Sturdy, monoblock design with hot dipped galvanized frame which will provide many, many years of reliable performance. The hot-dip galvanized frame maximize the machine durability.



RUBBER COVERING OF THE WORKTABLE

The replaceable rubber sheets on the bed of the saw provides grip to the material while cutting, avoiding it to move and also reduce vibration. It also acts as a protecting layer for the bed of the saw to avoid it being cut by the blade.



TILTING WORKTABLE

Motorized and CNC-controlled hydraulic worktable tilt, for easy slab loading.

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POP-UP ROLLERS

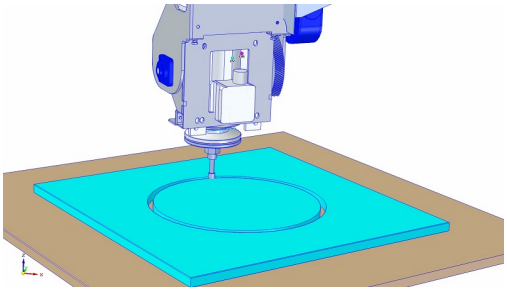
Hydraulic motorized pop-up rollers for easy slab loading and positioning.

WATER TANK

Water tank with built in recycling pump for model with fixed worktable.

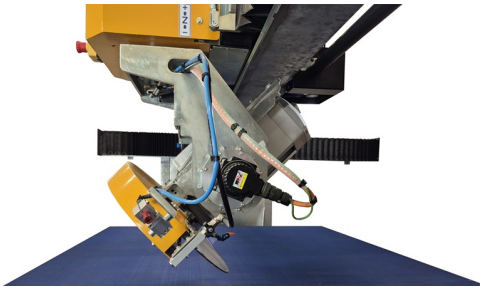
DRILLING: ENVIRONMENT OF THE CNC CONTROL UNIT

1/2” gas connection for mounting incremental milling and drill bit and perform automatic drilling and milling cycles, to easily cut corners and remove the tension from the sintered material slabs.



INCREMENTAL MILLING SOFTWARE EXPANSION

It allows the creation of curves and square, round and elliptical shapes with an incremental cutter.



AUTOMATIC DISC TILT - (T AXIS)

Motorized blade tilt from 0° to 50° and 90°, controlled by CNC.
Miters both outer slab edges and inner plunge cutouts
A macro can create an automatic cycle to perform miter cuts along the 4 orthogonal slab edges.

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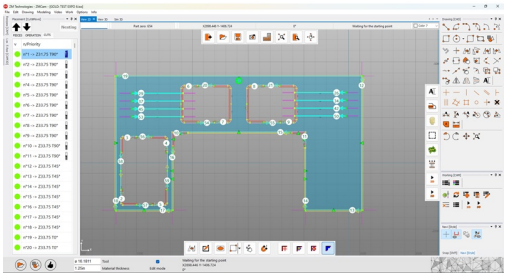

ZMCAM

The CAD-CAM software manages and optimizes all stages of the machining process:

- Freehand design of geometric shapes
- Design based on predefined parametric models
- Editing of cutting sequence and direction
- 3D simulation of all machining operations
- Estimation of processing times
- Manual collision checking
- Import of DXF files

They chose our product

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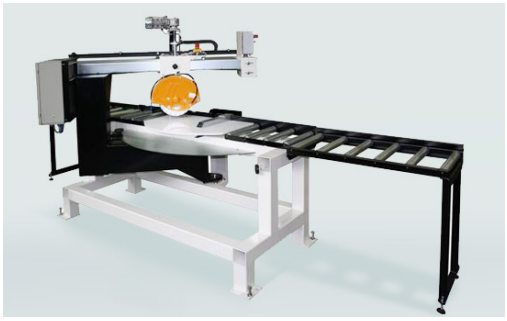
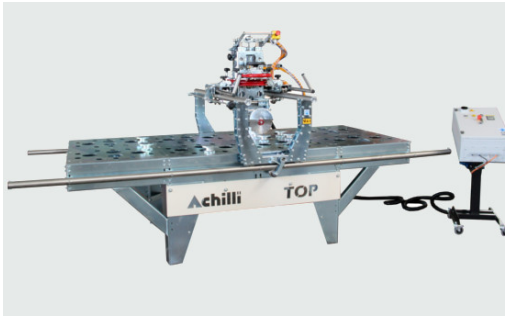
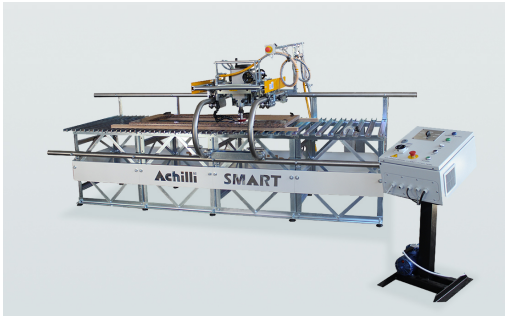
Manual stone cutting machine AFR-C



Revolving saw ARS



TOP manual working center



SMART multipurpose machine

Motorized bench saw AFR-A

Mini bridge saw TFM

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