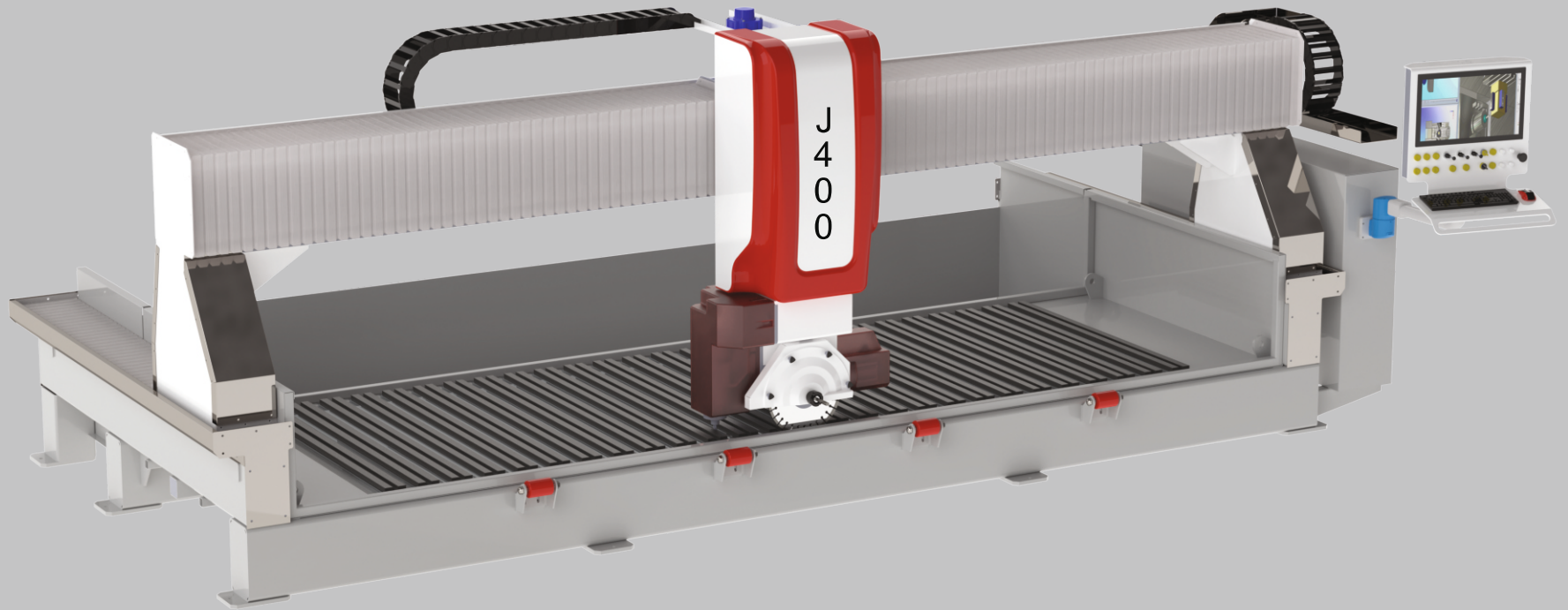




J-SERIES

6 / 5 AXIS CNC BRIDGE CUTTER

"CRAFTING INNOVATION, CARVED IN STONE."

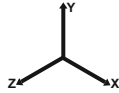


MAIN CHARACTERISTICS

KEY FEATURES AND ADVANTAGES OF THE BHAGWATI'S J SERIES:

INTERPOLATED AXES:

The machine features 4/5 Optional interpolated axes, providing enhanced flexibility for a wide range of work processes.



MATERIAL COMPATIBILITY

The machine is capable of working with various materials, including marble, granite, artificial stone, and ceramic.



USER-FRIENDLY:

The design and features of the machine are intended to make it user-friendly, allowing operators to easily carry out various tasks.



COMPACT AND SIMPLE DESIGN:

The machine is designed to be simple and compact, allowing for easy transport, installation, and operation. Its monoblock - frame structure contributes to its simplicity and facilitates fast installation.



QUALITY AND RELIABILITY:

BHAGWATI'S J Series is designed with a focus on maximum quality and reliability over time, ensuring consistent performance.



VERSATILITY:

It offers users the flexibility to carry out a diverse range of work processes, making it suitable for different applications within the stone and building industry.



AUTOMATION CAPABILITY :

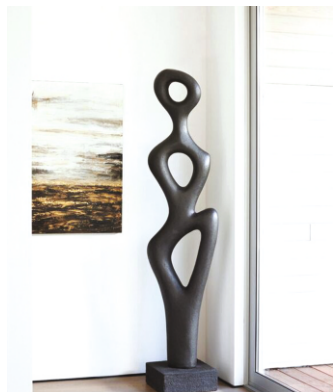
The machine is equipped with accessories and optional that enable fully-automated processes. This can help reduce processing times and increase overall productivity.



INCREASED PRODUCTIVITY:

Through its automated features and versatile capabilities, the CNC machine aims to enhance productivity in the production of countertops, shower trays, and claddings.

UTILITIES



SPECIALIZED MACHINING OPERATION

The **J SERIES** can be used for a wide range of operations, for example:



Longitudinal Cuts



Oblique Cuts



Elliptical Milling



Sphere Milling



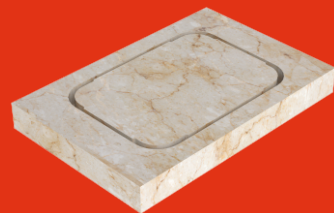
Slab Molding



Core Cutting



Edge Molding



Cut to Size

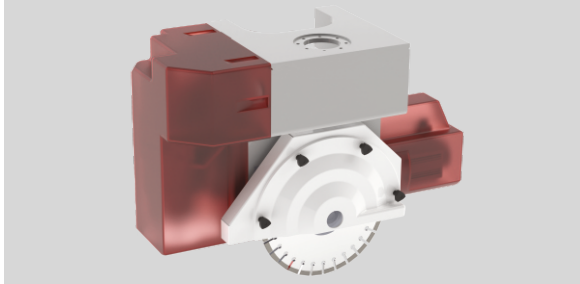


Complex Shape Milling



Slot Milling

MAIN COMPONENTS



ELECTRO SPINDLE

Max. Diameter Of Saw Blade 400 mm

Motor power 7kW (9/11 kW optional) with adjustable speeds ranging from 0 to 4500 RPM controlled by VFD

"C" Axis designed to Rotate -5° - 365° (Motorized)

(Optional) "A" Axis tilting cutting head with 0° - 90° (Motorized)



LASER MARKING

Machine is equipped with a laser marker for marking the precise cutting path for the cutter

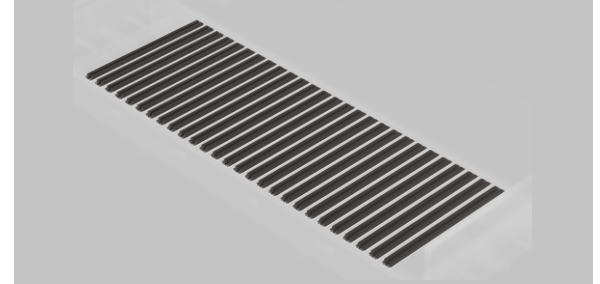


MONOBLOC STRUCTURE

Innovative Monobloc structure, a revolutionary design that features a single structure to be positioned directly on the site.

This groundbreaking system incorporates a cutting-edge ground positioning mechanism utilizing leveling feet, eliminating the necessity for drilling holes in the floor.

This not only streamlines the installation process but also enhances the overall adaptability and convenience of the structure.



FIXED TABLE

Fixed Table with rollers for loading and unloading designed to enhance your workspace with precision and efficiency.

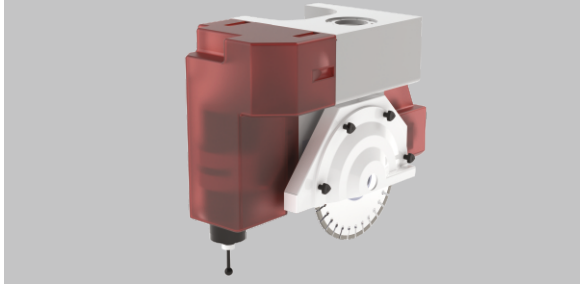
This robust table measures 3300 x 2000 mm providing ample space for various applications.



CONTROL PANEL (WITH 21" INDUSTRIAL PC)

Operator Interface with PC and 21" Touch Screen Monitor. USB port for transferring files.

OPTIONAL FEATURES



ROUTER

Vertical Router managed by VFD with revolutions 0 – 18,000. Router Allow the operator to use small diameter diamond Tool for incremental cutting / blind or through drilling.

This capability allows for efficient and versatile machining processes, reducing the need for tool changes and enhancing overall productivity.

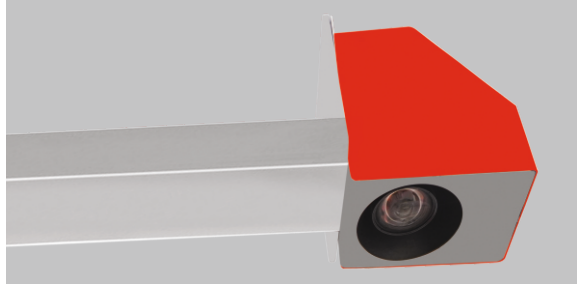
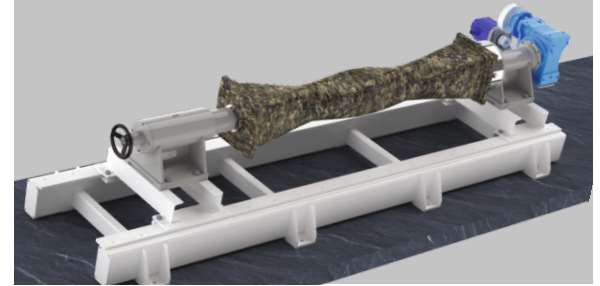


PHOTO CAMERA

Photo camera provides high-quality imaging to accurately identify and measure the dimensions of slabs being processed. This eliminates the need for manual measurements, ensuring efficiency and precision.

Photo Camera allow you to automatically detect the surface of the Slabs present on the workbench using as camera positioned above the machine.



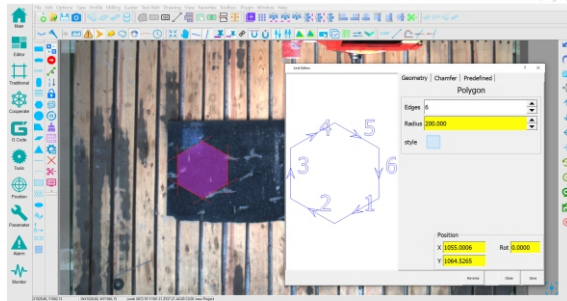
ROTATORY AXIS

The machine we offer is a versatile and indispensable tool designed specifically for crafting various solid rotary marble and granite stones.

Its precision and adaptability make it ideal for producing an array of intricate architectural elements. Whether you're working on balusters, columns, guide bars, cycloidal balusters, pellets, stylobates, caps, or other stone components.

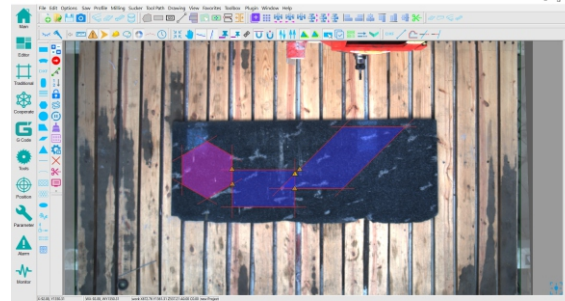
SOFTWARE FEATURES

Bhagwati Machines has developed a simple and user-friendly software aimed at optimizing the cutting of variously shaped pieces from slabs. This innovative software is designed to streamline the cutting processes using a blade, accommodating both rectilinear and curvilinear shapes, such as steps, kitchen worktops, rectangles, and covers. Users can input shapes either through predefined templates within the program or by importing shapes from DXF files.



GRAPHICS PROGRAMMING

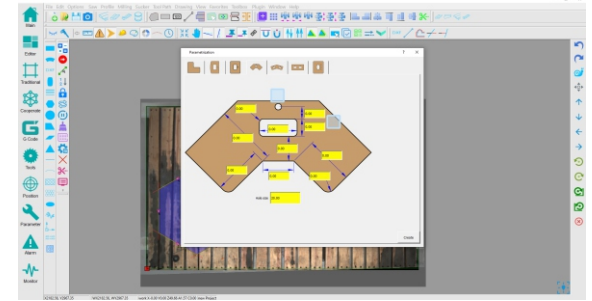
Graphics programming is the most important part of the whole software. Click on the graphic, the software will generate a geometric interface with Default parameters, and then click on the appropriate position on the screen With the mouse Click to finish placing the graphics. Then double-click The graph just drawn to edit the parameters of the graphics.



NESTING FUNCTIONS

Allows users to set the position of pieces and sequence of cuts
Offers both manual and automatic piece nesting options
Takes surface availability into account for efficient cutting

- Automatic nesting for time and material optimization.
- Optimizes cutting to reduce material waste.
- Manual nesting for user customization.



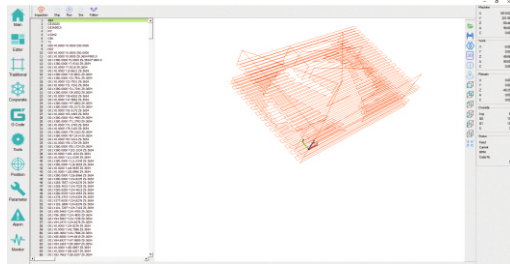
SHAPE INPUT

Supports both rectilinear and curvilinear shapes.
Pre-defined shapes available in the program.
Shapes can be imported from DXF files.
Software can perform below graphical functions

Rectangular cut
Sector cutting
DXF map
Cutting of worktops
Straight line group
Regular polygons
Full circle cutting
Separate straight cut
Individual arc cutting

Grid
Circular array
Ellipse
Arc profiling
Straight line profiling
Wavy lines
Trapezoidal lines
Rotate profiling
Suction cup function

SOFTWARE FEATURES



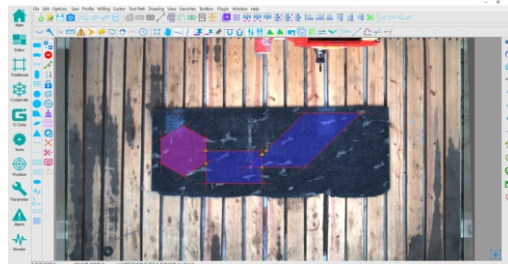
CODE EXECUTION MONITORING

Here you can view the code automatically generated by the software, or import the code generated by third-party software.

Block selection	Machine position	Work position	WE1X	WE1Z	WE2X	WE2Z
number	X	Y	Z	A	C	
G04	293.4100	110.0640	-503.0000	0.0000	0.0000	
G55	0.0000	0.0000	0.0000	0.0000	0.0000	
G56	1810.5260	563.1760	-552.2050	0.0000	0.0000	
G57	0.0000	0.0000	0.0000	0.0000	0.0000	
G58	290.3470	197.1290	-496.0000	0.0000	0.0000	
G59	257.1670	204.0770	-500.0000	0.0000	0.0000	
G154C1	0.0000	0.0000	0.0000	0.0000	0.0000	
G154C2	0.0000	0.0000	0.0000	0.0000	0.0000	

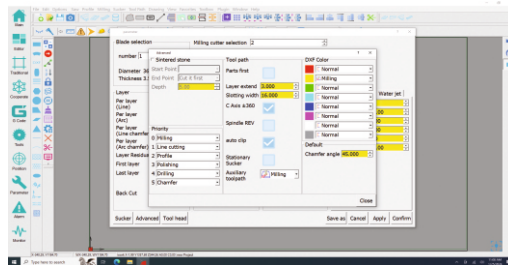
TOOL SETTING

Up to 130 tools can be set in the tool page. you can view the parameters of each tool.



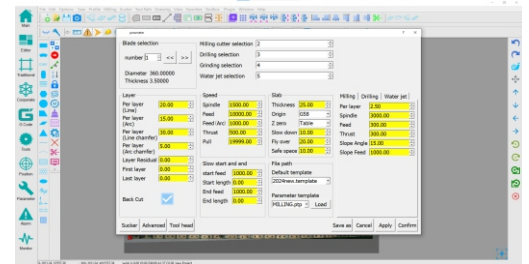
COLLISION PREVENTION

Includes a function to prevent collisions between pieces during the cutting process.



COMPREHENSIVE PROCESSING

Comprehensive processing is mainly for the places that cannot be processed by saw blades, which need to use milling cutters, drilling, and water jets. Before use, we need to choose the corresponding cutting tool.



SPINDLE SETTING

When the spindle motor exceeds the set current, the program operation can be suspended to prevent the saw blade from being stuck.

Block selection	Machine position	Work position	WE1X	WE1Z	WE2X	WE2Z
number	X	Y	Z	A	C	
G04	293.4100	110.0640	-503.0000	0.0000	0.0000	
G55	0.0000	0.0000	0.0000	0.0000	0.0000	
G56	1810.5260	563.1760	-552.2050	0.0000	0.0000	
G57	0.0000	0.0000	0.0000	0.0000	0.0000	
G58	290.3470	197.1290	-496.0000	0.0000	0.0000	
G59	257.1670	204.0770	-500.0000	0.0000	0.0000	
G154C1	0.0000	0.0000	0.0000	0.0000	0.0000	
G154C2	0.0000	0.0000	0.0000	0.0000	0.0000	

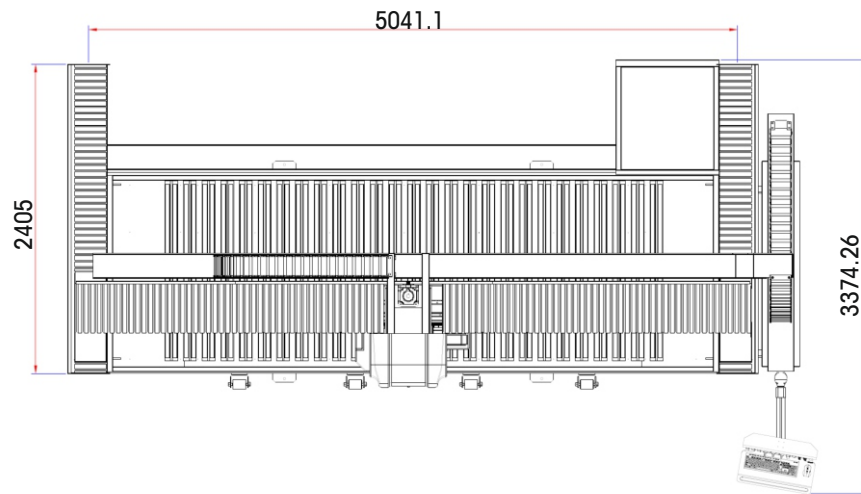
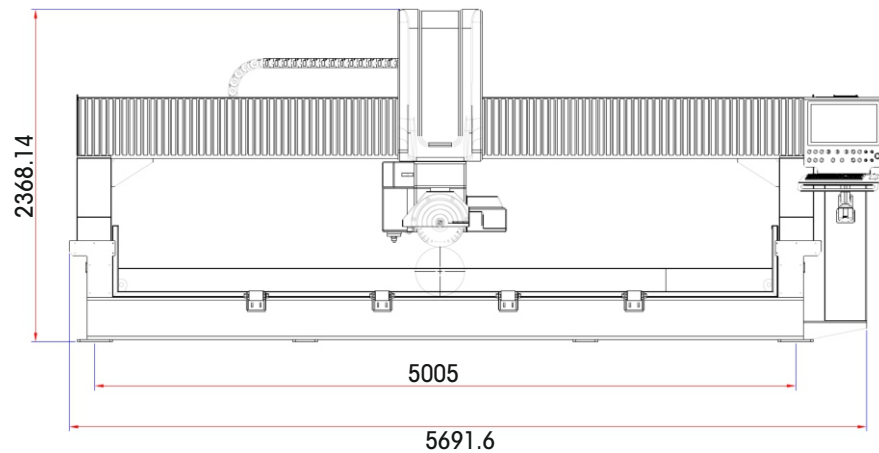
POSITION SETTING

There are three types of positions in the position setting page: user position (user-defined position), mechanical position (system fixed function position), work position piece coordinates.

TECHNICAL DATA SHEET

Number of interpolated axes	N°	4/(5 Optional)
Carriage stroke X axis	mm	3635 mm
Maximum carriage speed (X axis)	m / min	0-40
Bridge stroke Y axis	mm	1460 mm
Maximum bridge speed (Y axis)	m / min	0-40
Vertical stroke Z axis	mm	285 mm
Maximum head speed (Z axis)	m / min	0-8
Blade-carrying head rotation C axis	Deg.	-5°/365°
Disc head tilting movement (axis A)	Deg.	0/90°
Working table dimensions	mm	3600X1350 mm
Spindle motor power	kW	7/9/11
Spindle motor speed range	rpm	0 - 4500
Maximum disc diameter	mm	400
Maximum cutting depth	mm	125
Water consumption	l / min	25 - 30
Standard electric voltage	V / Hz	400±10% / 50
Total installed power	kW	14/(1.3 Optional A axis)
Auxillary Sindle Installed power (Optional)	kW	7.5

MACHINE DIMENSIONS mm





ADDRESS

HEAD OFFICE (AJMER)

178, 179, 179-A, RIICO Industrial Area Extn,
Parbatpura-Makhupura, AJMER (Raj)

DELHI OFFICE

YC CO-WORKING SPACE 4TH FLOOR, PLOT NO-94 SEC-13,
NEAR RADISSON BL NEW DELHI-110078

PUNE (MAHARASHTRA)

Shop No.- 104, Westwood Estate, 235/2A,
Chhatrapati Chowk, Kaspte Vasfi, Wakad, Pune-57

BENGALURU (KARNATAKA)

1F, Maa Tara Apartments, 4th Floor Srirampura,
Bommasandra, Jigni Road Bengaluru (Karnataka)

PALANPUR (GUJRAT)

District Banaskantha,
Palanpur (Gujarat)

KARIMNAGAR (TELANGANA)

Shree Niwasa Complex, Kazipur Road,
Bahupet, Karimnagar (Telangana)

SRIKAKULAM (ANDHRA PRADESH)

H. No 4-12, Sai Nagar, Narasannapeta,
Srikakulam (Andhra Pradesh)

KISHANGARH (RAJASTHAN)

Studio Flat No. C-1, 3rd Floor, Ganpati Square,
RIICO Industrial Area Madanganj-Kishangarh (Raj)