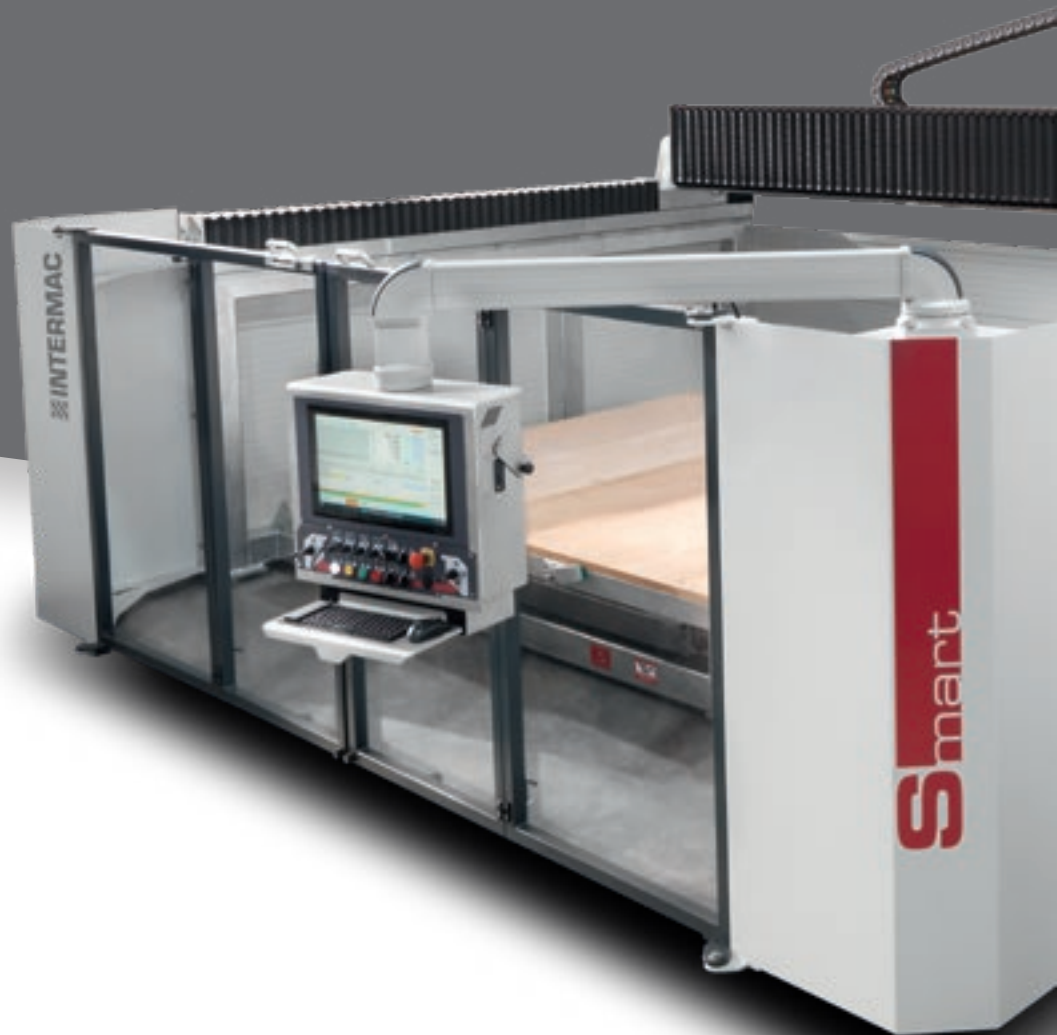


SMART 625

CNC BRIDGE SAW



COMPACT, MULTI-PURPOSE AND EASY TO USE



Smart 625 is the 5-axis CNC bridge saw for cutting and shaping marble, granite, synthetic stones and ceramic materials automatically or manually.



SMART 625

- ✓ STURDY MONOBLOCK FRAME FOR SIMPLE INSTALLATION
- ✓ RECLINING WORKTOP TO FACILITATE SHEET LOADING OPERATION
- ✓ SUCTION CUP MANIPULATOR FOR AUTOMATIC HANDLING OF PIECES DURING PROCESSING OPERATIONS
- ✓ 5-AXIS INTERPOLATED
- ✓ CUTTING DISK DIAMETER FROM 350 TO 625 MM

STURDINESS AND RELIABILITY

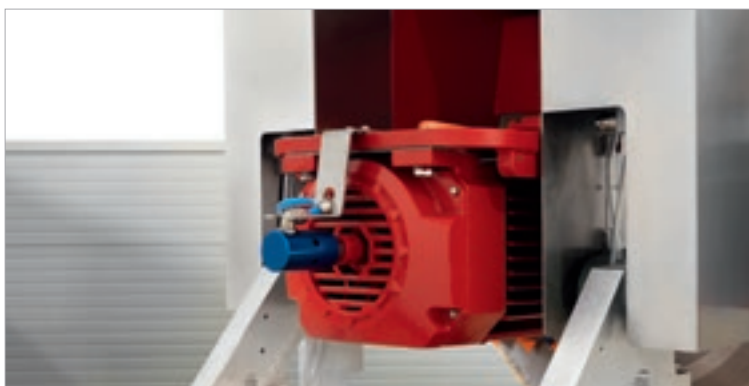


MONOBLOC FRAME

The machine base is formed of a solid steel hot-galvanised monobloc frame for easy installation and reduced overall dimensions.

PROTECTION AND SAFETY FOR ALL MACHINING OPERATIONS

Maximum safety thanks to front doors with polycarbonate panels to protect the operator during machining tasks while at the same time guaranteeing optimum visibility of the working area.



TOP QUALITY SPINDLES

13.2 kW S6 spindle with internal water transit. Possibility to mount a milling cutter or drill on the disc flange.

VERSATILITY AND AUTOMATION

Smart 625 can carry out even the most complex machining operations, guaranteeing first class machining quality when cutting natural stones, granite, marble, and synthetic or ceramic materials.



Longitudinal cuts



Cross cuts



Oblique cuts



Tilting cuts



Orthogonal cuts



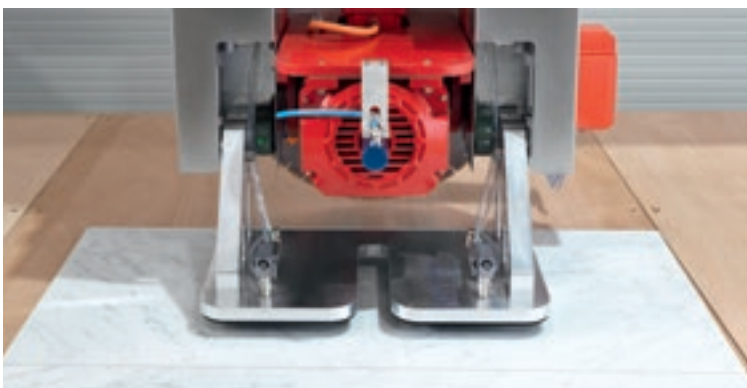
Circular cuts



Elliptical cuts



Shaping

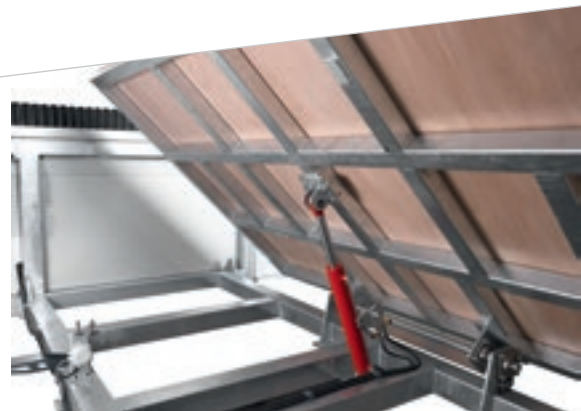


SUCTION CUP MANIPULATOR FOR CUTTING CYCLE AUTOMATION

A system consisting of 6 suction cups on a steel plate with four independent zones. It guarantees the optimisation of machining times and the best possible use of the sheet, thanks to the automatic movement of the pieces during the machining operation.



ACCESSORIES FOR EVERY NEED



TILTING WORKING TABLE

Available with a table in okoume wood, resistant for tilting cuts, easily ground, easy to replace, and with no size variations due to the water effect. Possibility to choose a rubber surface (optional).



SHEET THICKNESS DETECTOR

System integrated in the head, for automatically measuring the thickness of the sheet.



PRESETTING UNIT

Automatic presetting of the disc and tool, positioned directly inside the machine without reducing the useful work area.





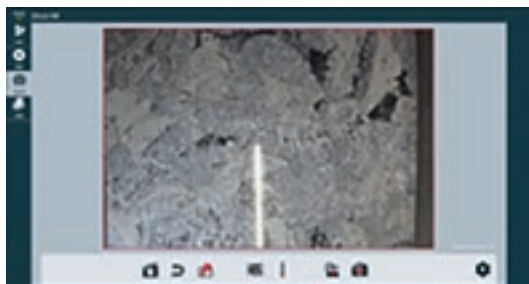
POSITIONING LASER

Detects the points on the table and also used for the manual detection of the sheet edge.



CUTTING LINE LASER

Highlights the cutting line. Very handy for manual cuts.



To carry out the acquisition of the sheet photo, it is possible to equip Smart 625 with a camera and acquisition software integrated in the machine interface.



SIMPLE TO PROGRAM AND USE



BUILT-IN CONSOLE

Ergonomic command station positioned on a suspended arm anchored to the structure, with a joystick for manual axis movements.



The handheld allows the operator to perform the main ones machine operations with maximum comfort and safety away from the control panel when necessary, with remote controls and emergency button.



OPERATOR INTERFACE

HMI with a modern, intuitive design for using the machine in automatic or manual mode.

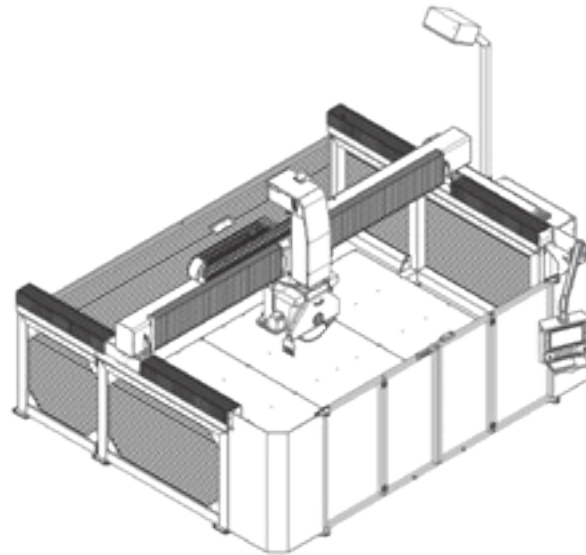
NESTING SOFTWARE

Nesting software with automatic or manual optimisation of the positioning of the pieces on the sheet. Guided management of movements made with a suction cup manipulator.

Smart 625 can be equipped with various optional software packages:

- ▶ CAD/CAM software for programming from a PC outside the machine
- ▶ «Vein Matching» function for the CAD/CAM software, to optimise the position of the pieces on the basis of the wood vein (not available on the machine)

TECHNICAL DATA



625

Overall machine dimensions X; Y; Z (with photo-camera)	mm	6023 x 4520 x 4520
Overall machine dimensions X; Y; Z (without foto-camera)	mm	6023 x 4520 x 3000
Work table	mm	3800 x 2400
Total weight	Kg	5800
X axis stroke	mm	3670
Y axis stroke	mm	2620
Z axis stroke	mm	450
C axis stroke		370°
A axis stroke		90°
Maximum cutting depth	mm	200
Dimensioni min/max disco	mm	350 - 625
Maximum weight that can be lifted by the suction cups	Kg	350
Spindle power in S6	kW	13.2
Maximum spindle rotation	rpm	5000
Maximum axis speed X, Y, Z	m/min	38 - 36 - 7.5
Water consumption	l/min	40
Air consumption (wiht suction cup use)	l/min	120
Power required	kW	28

The technical specifications and drawings are non-binding. Some photos may show machines equipped with optional features. Biesse Spa reserves the right to carry out modifications without prior notice.

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