

brembana kosmos

5 axes bridge saw



CMS is part of SCM Group, a technological world leader in processing a wide range of materials: wood, plastic, glass, stone, metal and composites. The Group companies, operating throughout the world, are reliable partners of leading manufacturing industries in various market sectors, including the furniture, construction, automotive, aerospace, ship-building and plastic processing industries. SCM Group coordinates, supports and develops a system of industrial excellence in 3 large highly specialized production centres employing more than 4,000 workers and operating in all 5 continents. SCM Group: the most advanced skills and know-how in the fields of industrial machinery and components.

CMS SpA manufactures machinery and systems for the machining of composite materials, carbon fibre, aluminium, light alloys, plastic, glass, stone and metals. It was established in 1969 by Mr Pietro Aceti with the aim of offering customized and state-of-the-art solutions, based on the in-depth understanding of the customer's production needs. Significant technological innovations, originating from substantial investments in research and development and take-overs of premium companies, have enabled constant growth in the various sectors of reference.



CMS Stone Technology realizes avant-garde solutions for the working of marble, natural stones and composite stones. Under the brand name Brembana Macchine, CMS Stone Technology was in the 80's the first manufacturer of a stone machining centre, thanks to an idea of its founder Mr Pietro Aceti. **CMS Stone Technology** has always been a reliable technological partner in designing unique solutions, for any need, in the world of building, architecture, interior and exterior decoration and wherever the use of stone and marble products is required.



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APPLICATIONS



furniture | countertops | inlays and mosaics | doorsteps | staircases and thresholds



funerary art | street furniture | architectural and dimensional stonework



Strong.

Modern.

Adaptable.

Reliable.

Technological solutions.

SMART machines for you production needs.

5 axes bridge saw

BREMBANA KOSMOS

TECHNOLOGICAL BENEFITS



NEW GENERATION OF 5-AXIS MONOBLOCK BRIDGE SAW, FULLY CONTROLLED BY A NC

Compact and easy to install, it doesn't require any foundations, even as a possible re-installation. This machine is built with the needs of workshops in mind and it is used for **cutting slabs up to 200 mm thickness with blade Ø 625 mm of natural stone, synthetic stone, and ceramic**. It features a powerful **blade motor capable of 25HP and 125Nm of torque, +34% higher than previous generation**. The weight of the machine, up to 5.1 tons, ensure perfect rigidity for the production of kitchen countertops, vanity tops, wall panels for interiors and exteriors, flooring, street furniture, doorsteps, staircases, and thresholds.

KEY BUYER BENEFITS

- + **+80% suction surface compared to market average:** improved manipulator is 2.6 Times larger than previous generation
- + **+107% Lifting span compared to market average:** lift even the thinnest slabs without breaking them, thanks to the wide reach of its two wings
- + **+12% Productivity doing kitchen tops** thanks to the optional 3.7kw side spindle with high-rpm milling capability



STANDARD ACCESSORIES



TILTING BENCH operated by two hydraulic cylinders, with movements controlled by an inverter to ensure smooth motion.
Maximum tilting load: 1200 kg
Maximum static load: 2000 kg
Dimensions: 3,600 mm x 2,000 mm



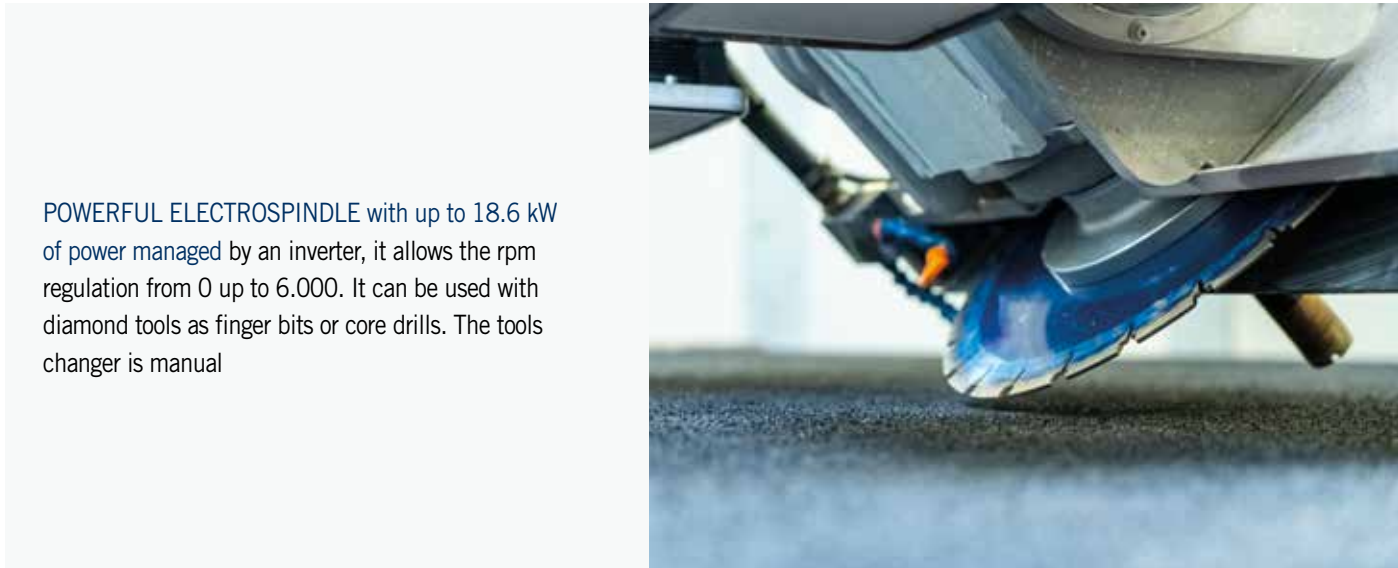
VACUUM MANIPULATOR for the automatic lifting and positioning of slabs during cutting operations: it features two suction cup units located to the right and left of the Cutting head. When not in use, the units are held in a vertical position To prevent any interference with the diamond blade. During slab Handling, they rotate to a horizontal working position via a pneumatic Actuator system, ensuring seamless automation of the cutting cycle.



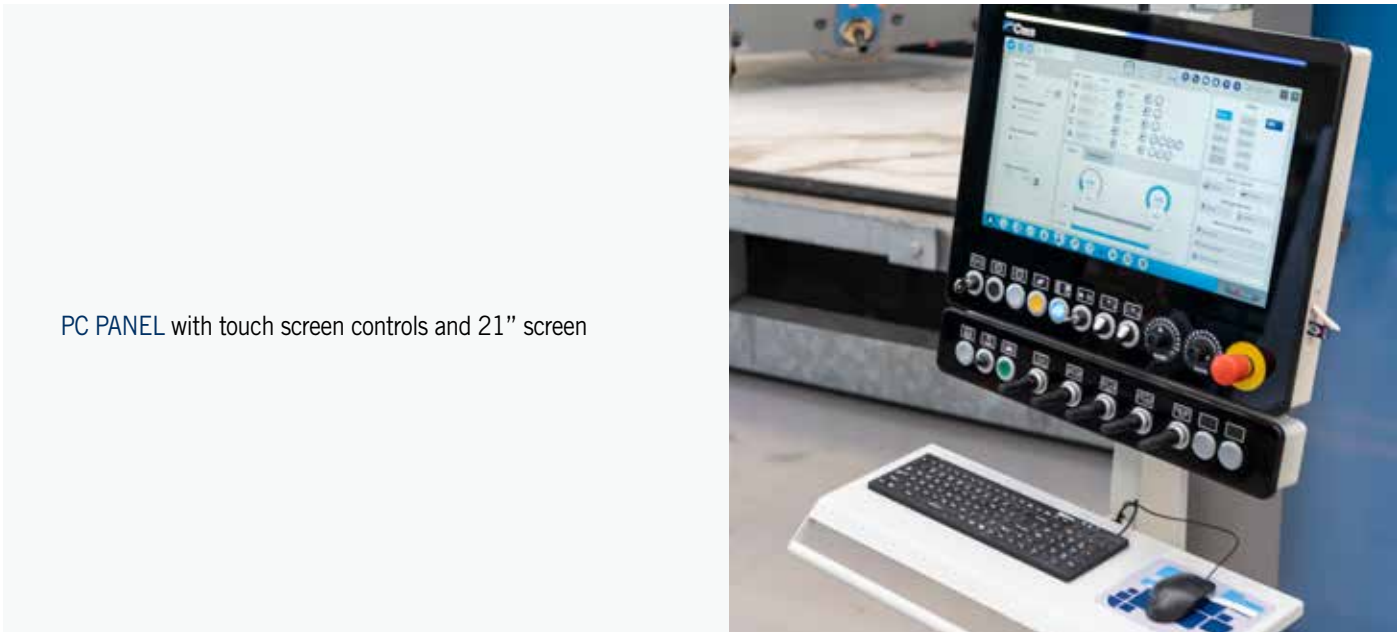
CROSS LASER used to define in a fast and easy way the piece origin or to obtain a two-dimensional templates to be used for other processings



ADDITIONAL RUBBER TABLE to jet overall workbench
3.600 mm x 2.000 mm



POWERFUL ELECTROSPINDLE with up to 18.6 kW of power managed by an inverter, it allows the rpm regulation from 0 up to 6.000. It can be used with diamond tools as finger bits or core drills. The tools changer is manual



PC PANEL with touch screen controls and 21" screen

OPTIONAL



SIDE SPINDLE: additional 3.7 kW 14,000 rpm side spindle with manual tool change. It allows an additional tool to perform milling, drilling, lettering, engraving and bas-reliefs without having to remove the tool from the main motor. It can be used for high-speed machining that cannot be handled with the blade motor alone.



DISK PRESETTING to measure disk diameter and finger bits or core drills length

SLAB THICKNESS PROBE for the automatic measuring of the piece thickness



DISCK AUTOMATIC RESTART STATION it can be activated by a specific funtion on the operator panel

CAMERA: system to obtain the images from the working table, it permits to accellerate the pieces positioning and notice possible bugs on the slab



BREMBANA KOSMOS

SOFTWARE

SOFTWARE: CMS ACTIVE SAW

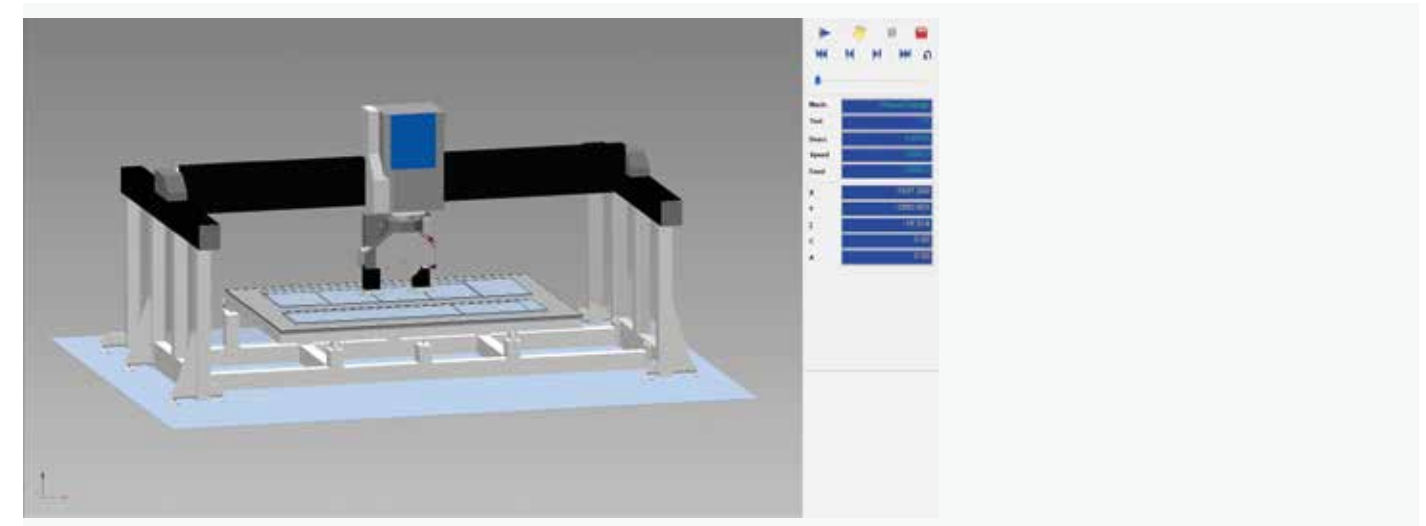
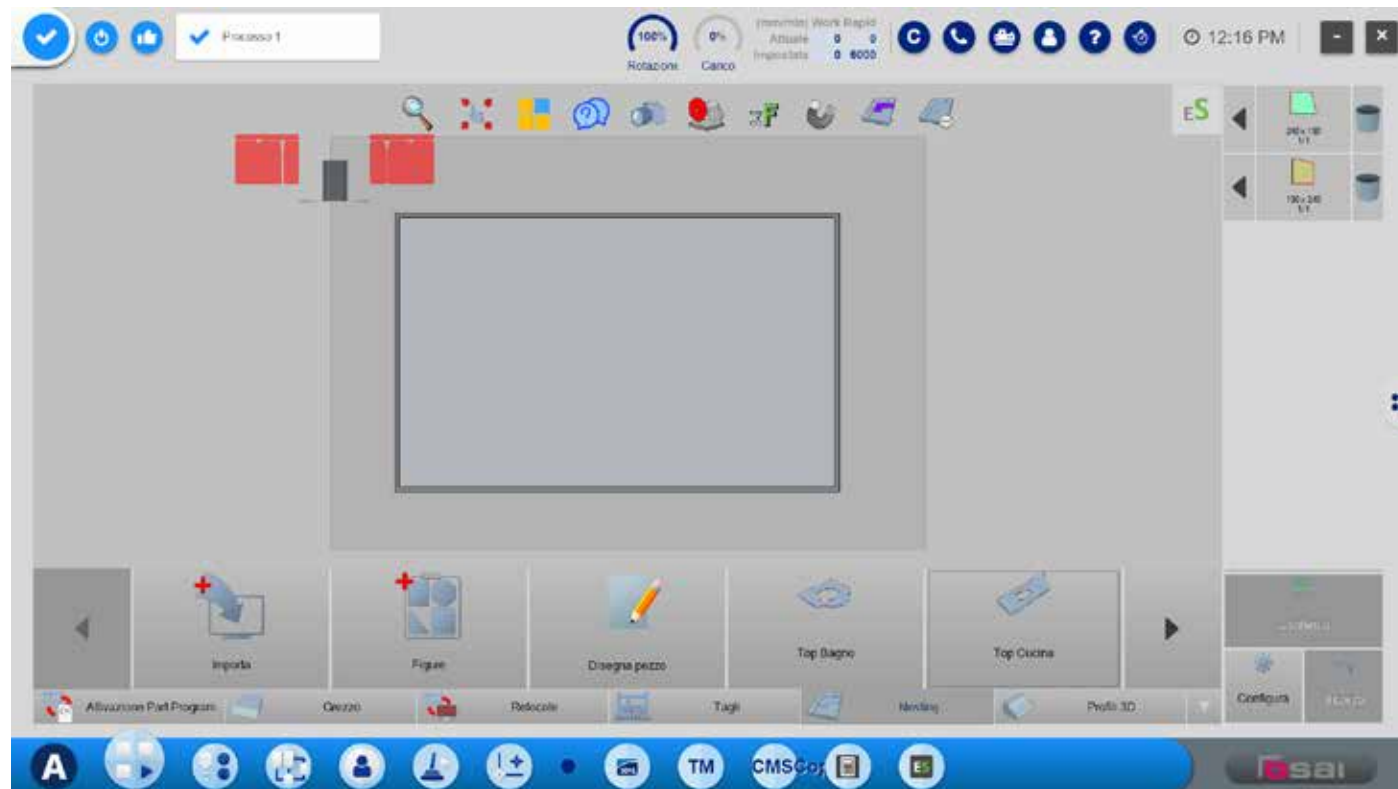
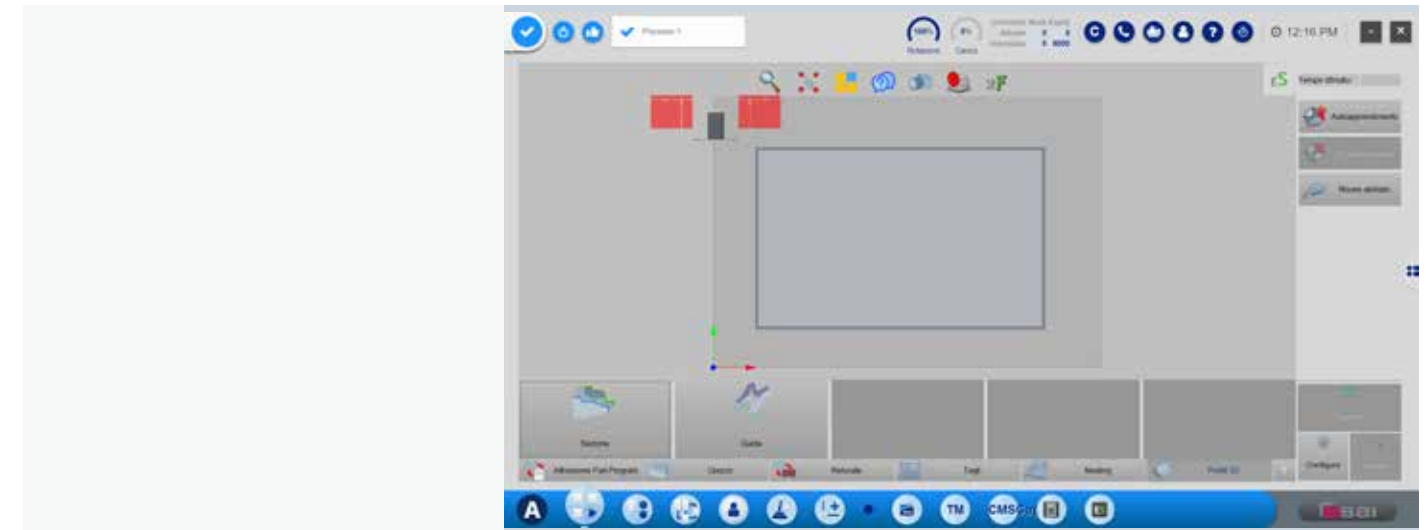
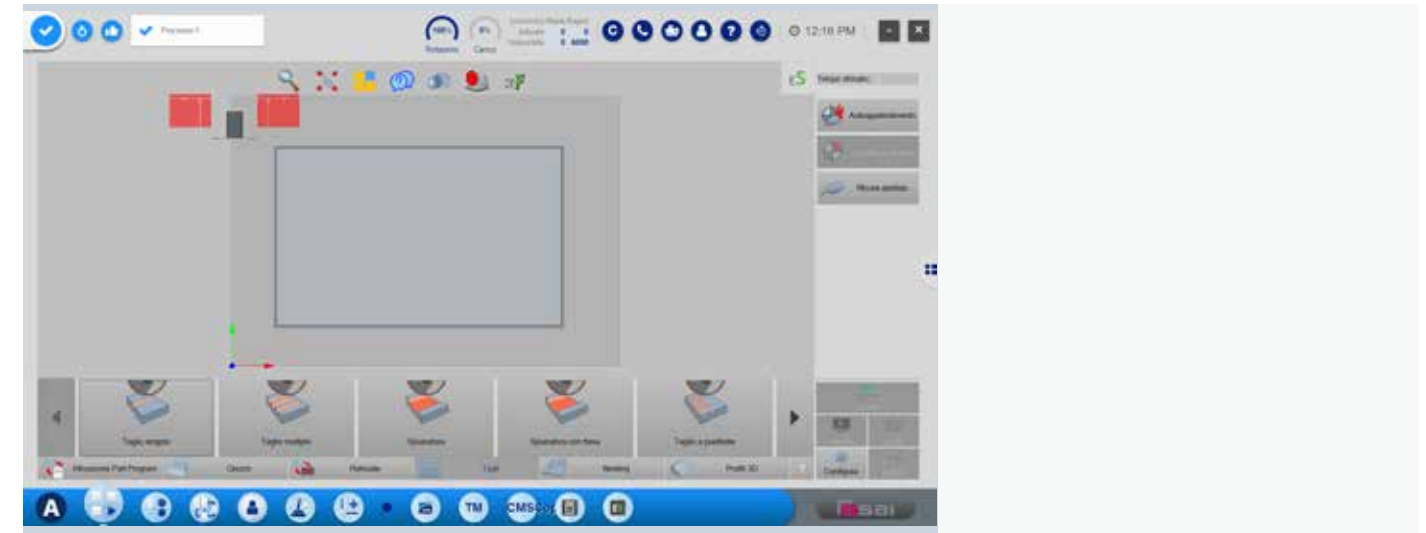
The ACTIVE software developed by CMS has been integrated with the powerful parametric CAD/CAM SMARTSAW, with the aim of managing all typical industry processes more easily and intuitively.

- Linear (vertical or inclined) and parametric cuts
- Drilling and profiling
- Kitchen countertops production with internal edge management with finger bits or core drills.
- Import of DXF files created with external CAD
- Manual drawing through native CAD
- Manual nesting
- 3D profiling, linear or curved
- 3D simulation
- Brushing by backing pad with Frankfurt inserts
- Engraving / Writing (optional)

The machine can be managed either manually or automatically, using the parametric programs offered by the software and the laser projector supplied as standard with the machine.

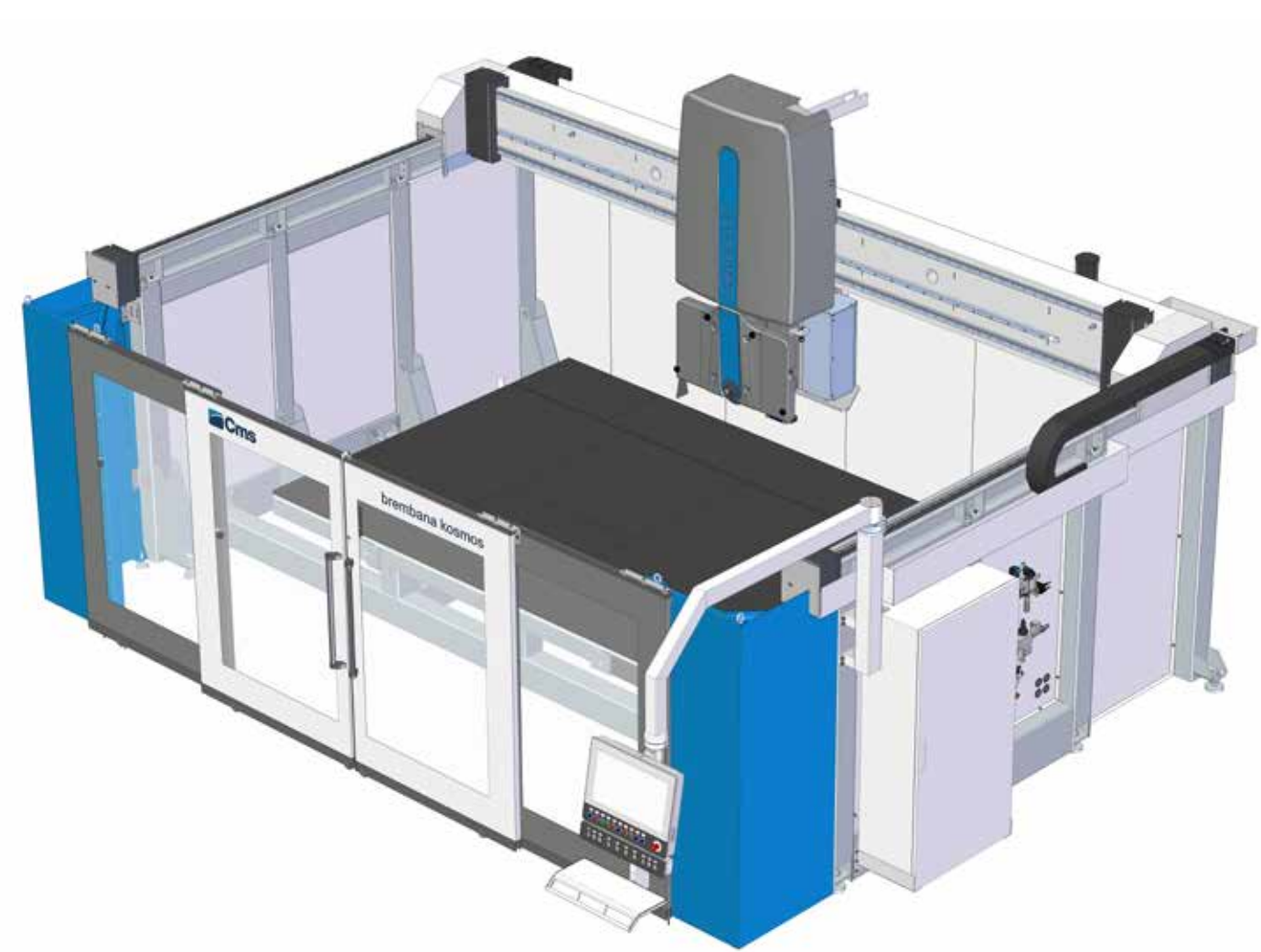
The machine can be combined with an automatic system for the slab image acquisition, to allow pieces nesting directly on the slab.

The presence of the manipulator allows the software to optimize the cuts sequence to minimize the working scraps and the operator intervention.



BREMBANA KOSMOS

DIMENSIONS AND TECHNICAL DATA



BREMBANA KOSMOS: TECHNICAL DATA	
X AXIS STROKE	3960 mm / 156 in
Y AXIS STROKE	2450 mm / 97 in
Z AXIS STROKE	16 mm
HEAD REVOLUTION (C AXIS)	± 180° (360°)
HEAD INCLINATION (A AXIS)	0 – 90°
X AXIS SPEED	30 m/min
Y AXIS SPEED	25 m/min
Z AXIS SPEED	8 m/min
MINIMUM DISK DIAMETER	350 mm / 14 in
MINIMUM DISK DIAMETER	625 mm / 25 in
MAXIMUM WORKING THICKNESS (WITH DISK Ø625 MM)	200 mm / 8 in
MOTOR	18,5 kW / 25 HP
MOTOR REVOLUTION	0 ÷ 6.000 rpm
WORKTABLE DIMENSIONS	3600 x 2500 mm*/ 142x98 in*
WATER CONSUMPTION (3 BAR)	40 l/min
AIR CONSUMPTION (6 BAR)	17 l/min
OVERALL DIMENSIONS	6650*x4300x3165 mm / 262*x169x125 in
OVERALL MACHINE WEIGHT	Up to 5.100 Kg / 11.240 lb

*excluding the space required to access the electrical cabinet

CMS connect the IoT platform perfectly integrated with the latest-generation CMS machines

CMS Connect is able to offer customised micro services through the use of IoT Apps that support the daily activities of industry operators - improving the availability and use of machines or systems. The platform displays, analyses and monitors all data from connected machines. The data collected by the machines in real time become useful information increase machine productivity, reduce operating and maintenance costs and cut energy costs.

APPLICATIONS

SMART MACHINE: Section designed for the continuous monitoring of machine operation, with information on:

Status: machine status overviews. The representations provided allow machine availability to be checked - to identify possible bottlenecks in the production flow.

Monitoring: instantaneous, live display of the operation of the machine and its components, of currently running programs and potentiometers;

Production: list of machine programs run within a given timeframe with best time and average running time;

Alarms: active and historical warnings.

SMART MAINTENANCE

This section provides a first approach to predictive maintenance by sending notifications when machine components indicate a potentially critical state associated with reaching a certain threshold. In this way, it is possible to take action and schedule maintenance services, without any down-time.

SMART MANAGEMENT

Section designed for KPI presentation for all the machines connected to the platform.

The indicators provided assess of the availability, productivity and efficiency of the machine and the quality of the product.

MAXIMISED SECURITY

CMS Connect uses the standard OPC-UA communication protocol, which guarantees the encryption of data at Edge interface level. CMS Connect's Cloud and DataLake levels meet all state-of-the-art cyber-security requirements. Customer data are encrypted and authenticated to ensure total protection of sensitive information.

ADVANTAGES

- ✓ Optimisation of production performance
- ✓ Diagnostics to support components warranty optimisation
- ✓ Productivity increase and downtime reduction
- ✓ Improvement of quality control
- ✓ Maintenance costs down



THE RANGE OF CMS STONE TECHNOLOGY

FOR STONE PROCESSING

5 AXES BRIDGE SAWS



BREMBANA KOSMOS



BREMBANA KRATOS



BREMBANA SPRINT

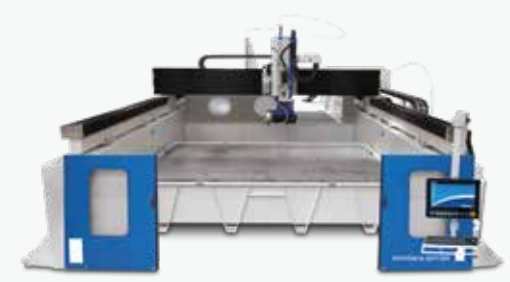


BREMBANA GIXA

5 AXES SAW JET MACHINES



BREMBANA KOSMOS JET



BREMBANA SPRINT JET

CNC MACHINING CENTERS



BREMBANA ELECTA



BREMBANA SPEED



BREMBANA SPEED TR



BREMBANA KARTESIA



BREMBANA MAXIMA



BREMBANA G-REX

WATERJET CUTTING SYSTEMS AND PRESSURE INTENSIFIERS



BREMBANA EASYLINE



BREMBANA MILESTONE S



BREMBANA PROLINE



BREMBANA AQUATEC



**BREMBANA
JET POWER EVO**



**BREMBANA
E-PUMP**



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