

GENYA



The simple and
smart machine
for cutting and
processing slabs

Genya is Breton's 5-axis monobloc cutting centre.

The possibility to have all tools always ready to use, together with other equipment such as the spindle-edge vacuum cups on board the spindle, the digital camera on board the bridge and the tilting workbench, make Genya the most efficient machining centre to make kitchen tops, vanity tops and coatings.

breton

EXCLUSIVE TECHNOLOGIES

Carefully engineered structural components combined with the latest Siemens electronics and motors and a powerful 28.9 HP (S6) spindle make Genya extremely high-performing on a wide range of materials.

Marble



Granite



Engineered Stone



Ceramic



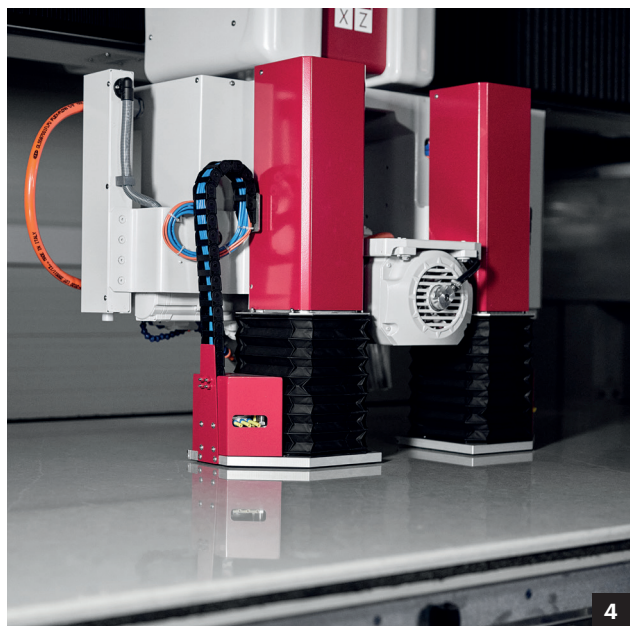
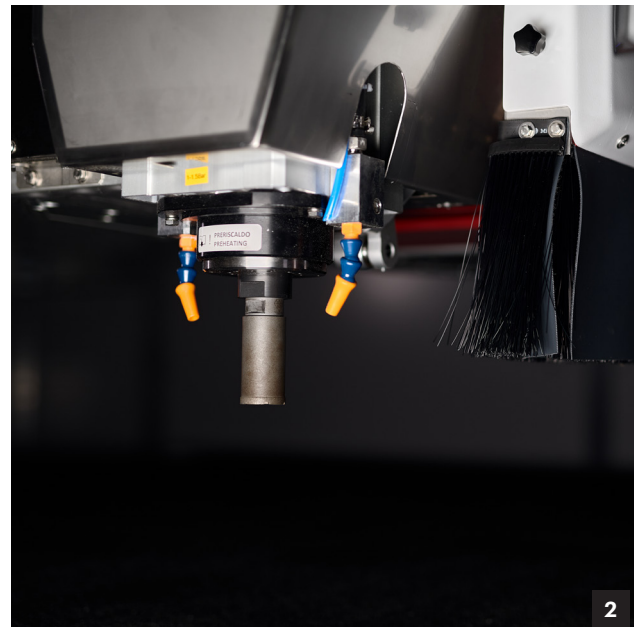
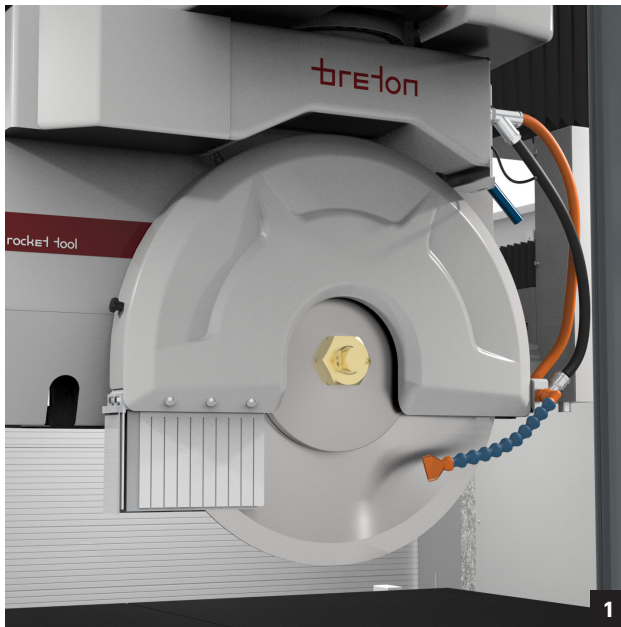
1. The main spindle can mount blades up to 23.6 inches with 1/2 gas attachment along with the internal water to mount drill or finger bit tools

3. Kerasplit, the exclusive and patented engraving system for ceramic slabs

2. The Rocket Tool, an additional electrospindle, can reach up to 14,000 rpm on which to mount finger bits to perform curved or internal angle cuts

4. The vacuum cups located on the spindle are used to move the cut piece, minimizing waste and increasing automation

Scan the QR code to discover more



Breton Genya

5-axis disc-type cutting centre with **up to four tools that remain mounted and always ready for use**, i.e. the saw blade with a diameter up to 23,6 inches (optional), the **drill/milling tool** on the spindle axis and the **Rocket Tool** with a **Finger Bit cutter**, as well as the exclusive and patented **Kerasplit** for ceramic materials.

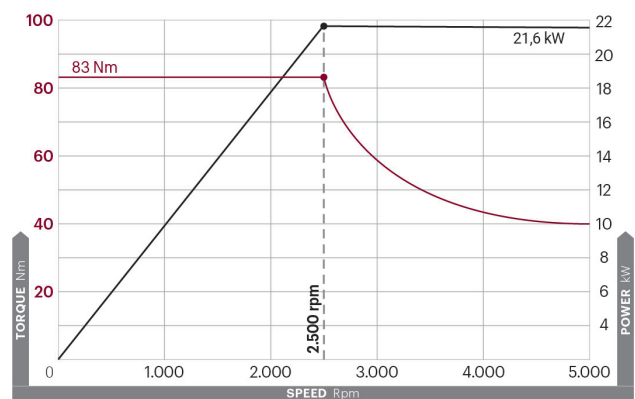
The **tilted workbench**, **vacuum cups** (located on the spindle), **camera** (located on the bridge) and **the thickness probe** make loading/unloading set up and cut piece movement much faster and safer, **avoiding material waste and downtime**. All of this affects productivity, and thanks to Genya, it is possible to **finish more pieces in the same amount of time**, thus increasing your revenue. Genya stands out for its reliability.

All Genya components, both mechanical and electronic are of the highest quality. Assembly is carried out by experienced and trained Breton technicians.

This guarantees a **long product life** and staying one step ahead of potential unforeseen events.

Powerful 28.9 HP spindle (S6), specifically designed to deliver high torque to maximize the potential of high-performance blades.

28.9
HP



5 reasons to choose Genya

1 / Speed of movement and high torque to increase productivity

The structural components designed and assembled in Breton, along with the **the latest generation of Siemens motors and electronics**, are the perfect starting point for a high-performance cutting center.

The powerful **standard spindle, up to 28.9 HP** in S6, provides all the power and torque required to take full advantage of high-performance blades, **increasing productivity by up to 50%**.

Fast movement of the axes is guaranteed by the **racks with inclined teeth** that, compared to straight ones, carry greater load, last longer and reduce operating noise.

The vacuum cups with Venturi system placed on the spindle, compared to traditional vacuum cups, evacuate the air, water and dirt directly at the source with the advantage of not clogging the ducts and avoiding failures or unwanted release of the slab. The increase in productivity together with the reduction in downtime make **Genya the most efficient cutting center on the market**.

2 / Rigid monoblock structure with integrated tilting table

The **hot-dip galvanised monobloc structure** offers extreme robustness in heavy-duty operations and **great corrosion resistance over time**. This type of structure, **specially designed to deliver the machine already assembled**, does not require foundations and therefore allows the machine to be easily repositioned.

Tilting workbench that lowers to floor level makes it easy to place slabs into the machine and increases the grip.

3 / It has everything needed to finish the piece

In addition to the saw blade, Genya allows mounting a **milling or drilling tool** on the motor axis, which are permanent tools on the machine. Moreover, it is possible to have the **Rocket Tool system** (optional) consisting of an additional electrospindle that can reach 14,000 rpm, on which to mount **finger bits to perform internal angle cuts**. With three tools ready to use, you can quickly perform **all the machining required to create a kitchen or vanity countertop** on the Genya, without unloading/loading the part on other machines.

The **OSOB digital camera installed on the bridge** is in the right position to capture the image of the slabs that have just been loaded, while the vacuum cups on the spindle edge, moving the just-cut pieces, allow to **minimize material waste**.

4 / Control and software with an edge

The **Siemens 24" touch screen** control panel improves the programming phase, allowing the operator to do everything from the screen. In fact, the **Breton Sphera interface** allows interacting with the system as if it were a tablet; **positionings and measurements are made with the movement of the fingers** on the screen, guided step by step.

The software runs on Windows 10 and can be used in **two modes: Easy or Advanced**.

The Easy mode is designed for less experienced operators and to program and perform simple operations in a few steps.

The **Vein matching** module can be used to plan cutting operations by matching up to 8 slabs to create the aesthetic effect of continuous grain, while **visualising the end result in 3D**.

5 / Accessories for every need

Genya already includes a **wide range of standard equipment**, but Breton has prepared a series of accessories to meet special needs.

On the main spindle side, it is possible to install the **Rocket Tool for milling operations** or the **Label Pro automatic printer** that identify and track pieces that have been cut, allowing them to be followed until their installation.

Kerasplit, the brand-new, patented engraving system for ceramic slabs, allows slabs up to 8 mm thick to be processed quickly and without any waste of tools, motor power and cutting kerf: a significant factor when using veined materials. Genya can also be equipped with a spindle with automatic tool change at 8,000 rpm and 21.6 kW (S6), with a store that can hold 10 tools and 2 discs. To maintain capabilities in thick-cutting, large diameter discs can be installed on a spindle shaft with flanges.



1



2



3



4



5

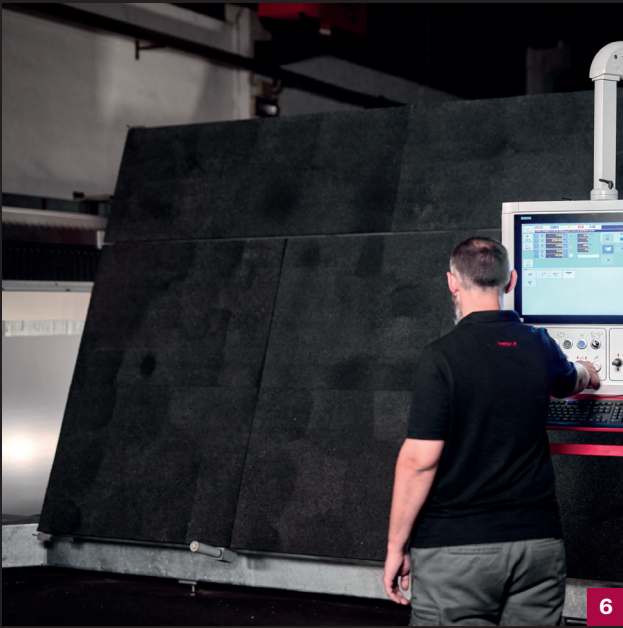
1. Siemens 24" touch screen control panel allows for a better operation

2. Sensor on board the spindle help detect the slabs thickness in order to start cutting from optimal height

3. Electrical cabinet, compact and tidy for maintenance

4. The Genya is a monoblock structure meaning it is machined from one piece that is then hot dip galvanized

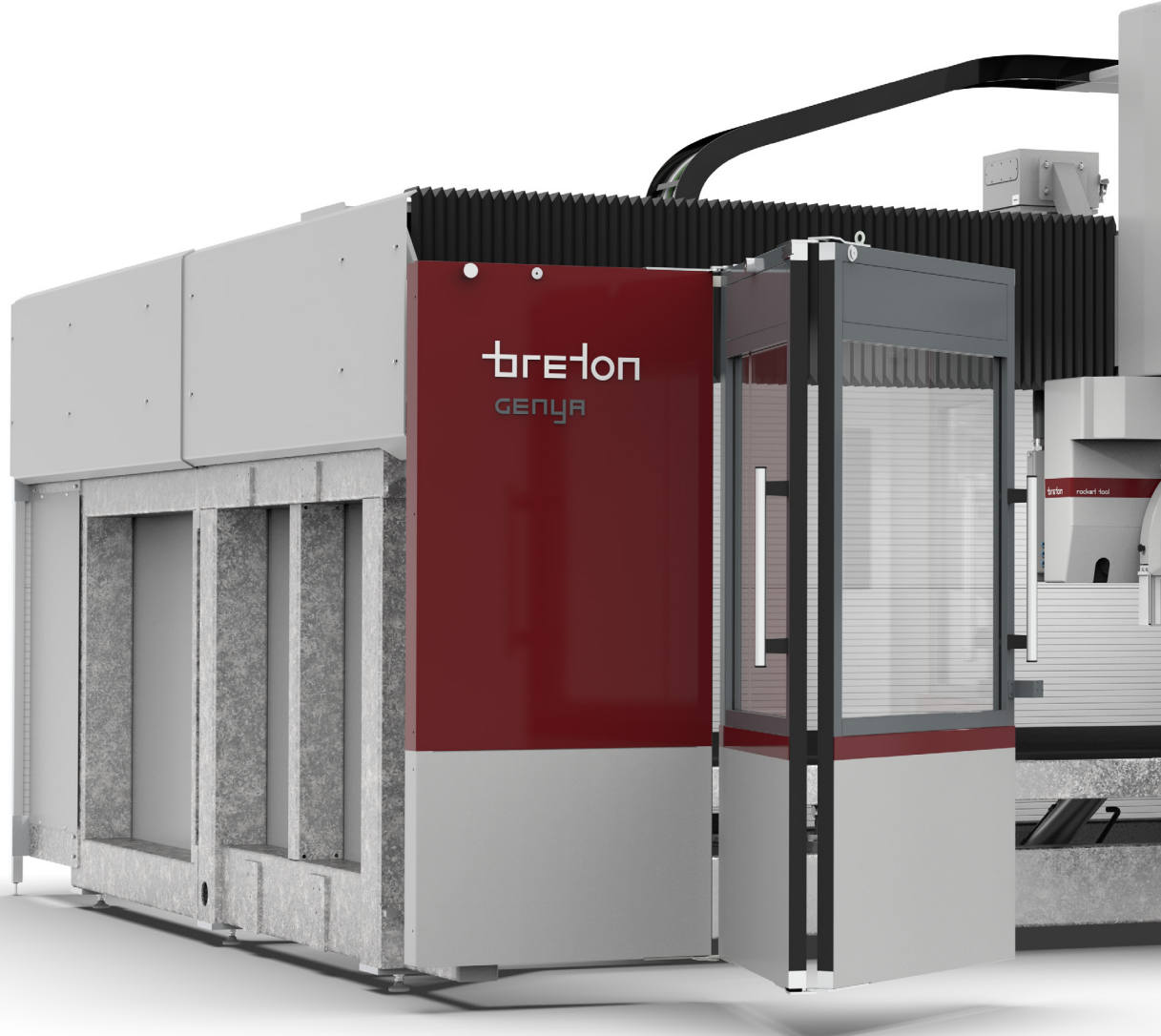
5. Featuring a new robust and rigid spindle unit



6. Tilting workbench that lowers to floor level makes it easy to place slabs into the machine and increases the grip



7. The digital camera (OSOB) which is located on the bridge perfectly perpendicular to the bench itself creates high quality images



Technical information

Workbench dimensions	3.800 x 2.400 mm	12.47 x 7.87 ft
Saw blade diameter (min - max)	300 - 600 mm (700 opt)	11.81 - 23.62 in
Max workable thickness (with saw blade)	185 mm (230 opt)	7.28 in
X axis (travel speed)	3.800 mm 45 m/min	12.47 ft 1,771.6 ipm
Y axis (travel speed)	2.750 mm 45 m/min	9.02 ft 1,771.6 ipm
Z axis (travel speed)	500 mm 15 m/min	1.64 ft 590.5 ipm
C-axis rotation	380°	
A-axis rotation	0 ~ +90°	
Spindle power (S1 / S6)	18 / 21,6 kW	24.1 / 28.9 HP
Total weight	6.500 kg	14.330 lb
Overall dimensions		
Length	6.150 mm	20.18 ft
Width	7.200 mm	23.62 ft
Height (with camera)	3.050 mm	10.00 ft
Max. vacuum cup liftable weight		500 kg



Breton – a pioneering developer of advanced technologies and materials – is an international leader in the design and production of state-of-the-art industrial machinery and systems to create and transform natural stone, ceramics, metals and in the development of engineered stone plants.

Founded in 1963 by Marcello Toncelli, with headquarters in Treviso (Castello di Godego), two other production sites in Italy and seven foreign branches (USA, Australia, India, Germany, China, UK, Brazil), the company is recognized worldwide thanks to its philosophy always aimed at research.



The Breton Institute of Technology, expression of Breton's DNA and pioneering attitude, is the department where new technologies are explored and created. Several teams devoted to research design and develop new sustainable materials and technologies for different industrial sectors.