

winger



Contouring machining centre

A highly productive 3- and 4-axis monoblock contouring machining centre. Its structural robustness combined with high mechanical and electronic reliability makes it ideal for drilling, shaping and contouring operations on applications such as kitchen tops, vanity tops and furniture accessories.

breton

EXCLUSIVE TECHNOLOGIES

The meticulously designed structural components in Breton, together with the latest generation of Siemens electronics and the powerful spindle, make Winger extremely efficient on a wide range of materials.

Marble



Granite



Engineered Stone



Ceramic



- 1.** Vertical stroke of 300 mm and 520 mm distance between spindle nose and workbench for digging operations on blocks

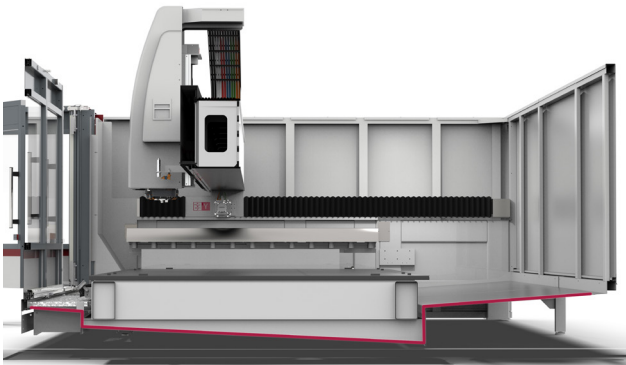
3. Indy version available, with rotating workbench for loading workpieces while the machine is operating on the opposite side
- 2.** Water collection tanks integrated into the machine, so that no concrete work is required for containment and collection

4. High productivity Flux version available, with a belt conveyor and gripper clamping system

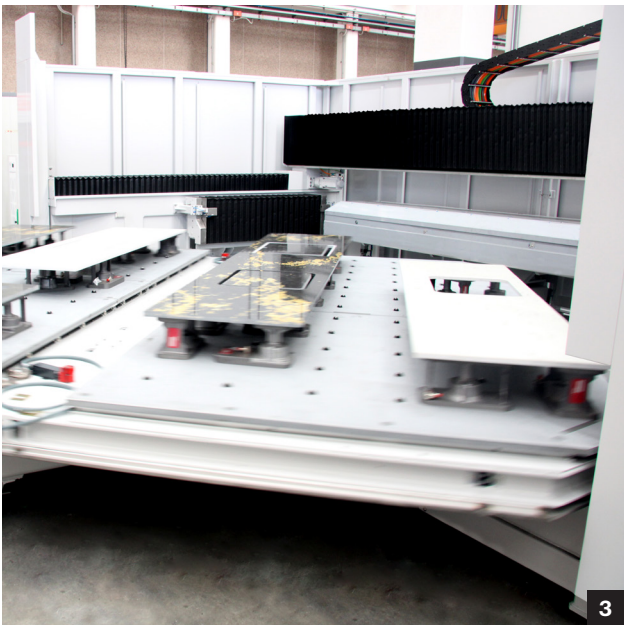
Scan the QR code to discover more



1



2



3



4

Breton Winger

The Winger range consists mainly of **three versions that differ according to the workbench size**. Winger K19 is the basic version able to operate on a worktop of 1.900x3.200mm. Winger K26 is the version with a worktop measuring 2.240 x 3.740 mm and, finally, Winger K40 offers the largest worktop with its 3.940 x 3.740 mm. The size of the worktable depends on the number of workpieces that can be loaded at a time, **optimising the number of tool changes and set-up time**.

Winger is also available in **high productivity versions**, designed with the aim of increasing the quantity of parts produced.

Winger Indy is equipped with a double rotating workbench that **allows the operate to load/unload the workpieces while the machine is operating**, thus reducing downtime.

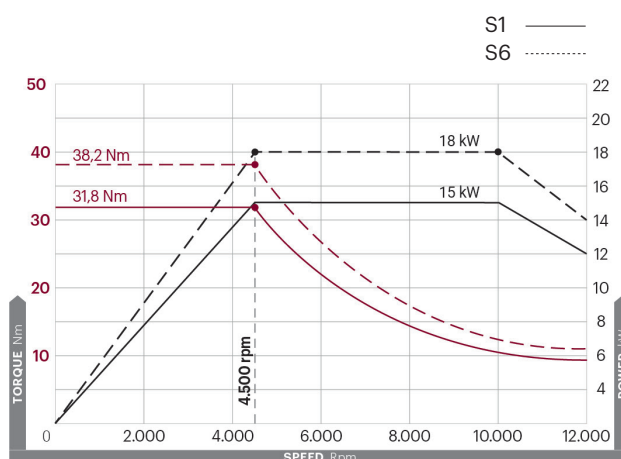
On the other hand, **Winger Flux** features a workpiece feeding and clamping system. The workpieces are conveyed by a belt conveyor and clamped for machining with pneumatic grippers instead of the classic vacuum cups. The machine works in total autonomy. Workpiece changeover takes less than a

minute. Any unloading of waste doesn't interrupt the machining cycle.

All versions feature a **powerful 15 kW spindle (S1) at 12,000 rpm** as standard, providing the power and torque needed to effortlessly perform all required operations, even with tools of very small diameters.

Exclusive 15 kW (S1) spindle, specially designed to offer high torque to exploit the full potential of high-performance tools.

15
kW



5 reasons to choose Winger

1 / Greater reliability to increase productivity

The meticulously designed and assembled structural components in Breton, together with the latest generation of Siemens motors and electronics, take Breton Winger to the top of reliability in its product category. This contouring machine has been designed taking into account the overall costs over the entire life cycle of the machine. The focus has been on minimising downtime and using long-life components to maximise productivity. The result is a significant cost saving for the user when taking into account the entire production life of the product.

The powerful standard 15 kW spindle provides all the power and torque needed without overloading, so there is no stress on the components, thus extending their life and keeping them running like new. The tool store is enclosed to protect the tools from dust and liquid that could compromise tool life and accuracy.

2 / Structural robustness for greater accuracy over time

The monoblock structure, with a low centre of gravity and integrated collection tank, guarantees robustness and, at the same time, eliminates the risk of inaccuracies due to the coupling of parts. The beam, before being machined to the nearest centimetre on the machine tool, undergoes stress-relieving heat treatments to ensure its dimensional stability over time.

The movement of the 3 linear axes through rack and pinion systems guarantees both precision and high positioning speeds. These benefits are amplified on the beam equipped with a gantry system (two motors, one on each side), a solution that eliminates the problems of torsional bending associated with the traditional mechanical axis. The hardened and ground linear guides do not require adjustment and guarantee high precision over a long period of time.

3 / Large workbench with Metalquartz top for high stability

Winger is available in three models that differ in an increasing workbench size, up to 4000 x 3750 mm. The larger the available surface area, the more workpieces can be loaded into the machine, thus speeding up machining thanks to optimised tool paths and tool changes.

The Metalquartz top stands out for its great stability compared to traditional metal benches; furthermore, it is also resistant to oxidation. Its special composition, a special compound based mainly on quartz, guarantees complete dimensional stability as it is not subject to expansion caused by variations in temperature.

If levelling is necessary, its residue can simply be treated together with the normal machine slurry and the operation can be carried out with the same tools used on the machine for normal machining.

4 / Fully automated machining with Robocup system

This system replaces the operator in positioning the vacuum cups on the table. The spindle automatically picks up the vacuum cups from the special store and positions them on the work table in correspondence with the valve and according to the workpiece and the machining operations to be carried out. The main advantage is that the positioning is performed extremely precisely by the machine, eliminating the risk of damaging the vacuum cups and consequently the workpieces. The Robocup vacuum cups do not use electricity or pipes, but are clamped by means of valves on the table. In addition to vacuum cups of various sizes, a special folding vacuum cup is also available, which allows the cutting residues to be lowered automatically so as to continue the finishing process without interrupting the cycle.

The system stands out in terms of reliability and durability, having been specially designed and tested to work in wet environments with a large amount of solid cutting waste.

5/ Total safety

Safety has always been a key point in Breton products. Winger is completely enclosed by fairings to protect the operator on all sides, but also any nearby items. The front doors are characterised by large windows to allow a complete view of the machining operations.

The tank positioned underneath the bench is designed to collect all the water used for machining and convey it to the recycling system. In this way the floor remains completely dry, eliminating the risk of slipping or electric shocks, while at the same time avoiding water waste and environmental pollution.



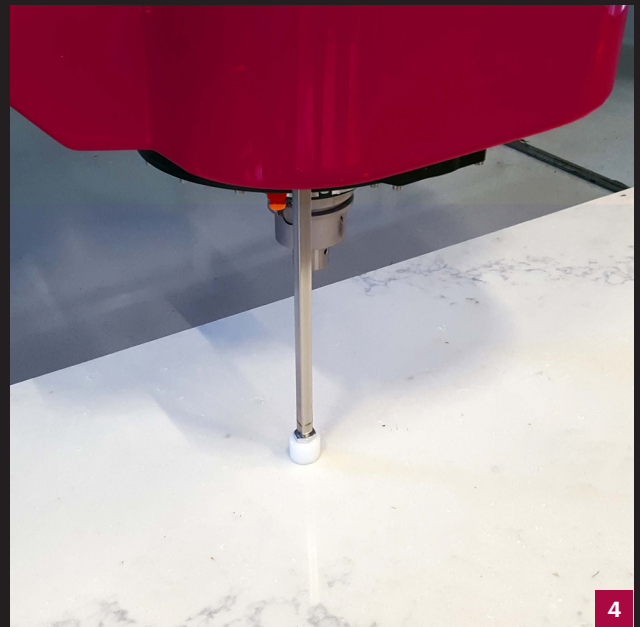
1



2



3



4



5

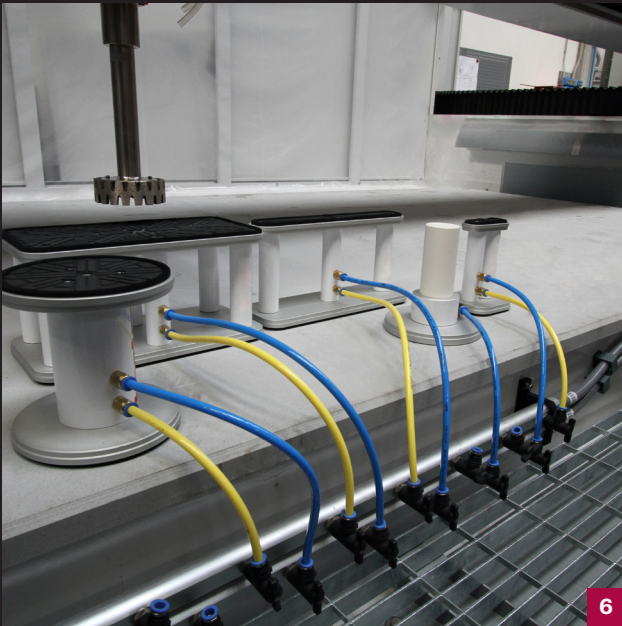
1. Tool attachment with ISO40 cone, the most common on the market

2. Robocup system to automate the vacuum cup positioning

3. Folding vacuum cup that allows machining inside sink holes without interrupting the work cycle and without the intervention of an operator

4. Spindle-mounted probe to detect the exact thickness of the slab before starting contouring operations

5. 4th axis to use 90° heads for cutting, polishing, and grooving

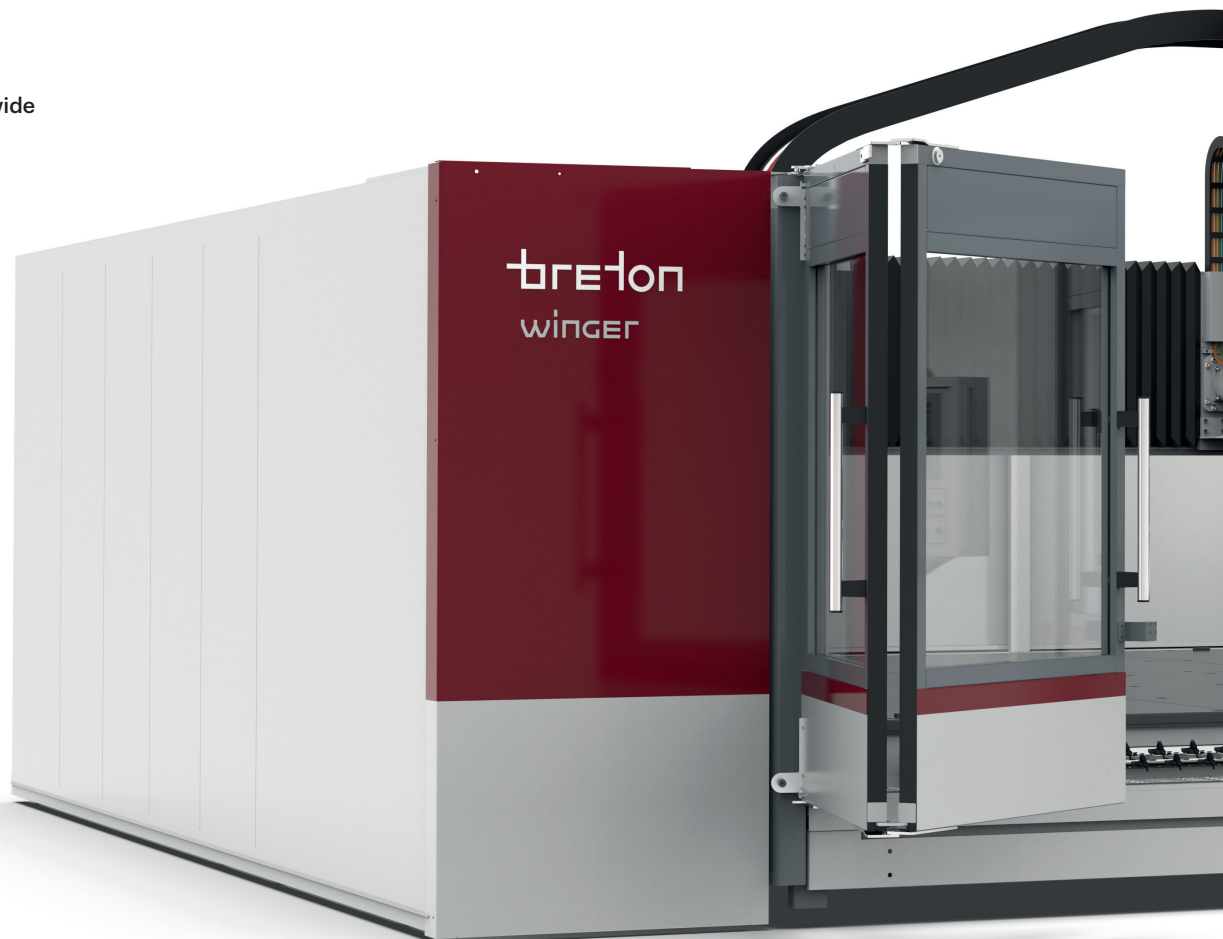


6. Vacuum circuit with external front controls for fast connection and vacuum cup positioning



7. Accessories for spindle tilting to make inclined planes (optional)

Winger K40 with its wide workbench of 3.740 x 3.940 mm



Technical Data

		Winger K19		Winger K26		Winger K40	
Workbench dimensions		3.200 x 1.900		3.740 x 2.240		3.740 x 3.940 mm	
		10.5 x 6.23		12.27 x 7.35		12.27 x 12.93 ft	
Tool (length max. diameter)						240 Ø140 mm	
						9.45 Ø5.41 in	
Tool holder						HSK-B80	
Tool store capacity		12 + 12		13 + 13		23 + 23	
X axis (travel speed)		3.200 50		3.800 50		3.800 mm 50 m/min	
		10.5 1,771.6		12.47 1,771.6		12.47 ft 1,771.6 ipm	
Y axis (travel speed)		1.950 50		2.300 50		4.000 mm 50 m/min	
		6.4 1,771.6		7.55 1,771.6		13.12 ft 1,771.6 ipm	
Z axis (travel speed)						300 mm 20 m/min	
						11.8 in 787.4 ipm	
Spindle power (S1 / S6)						15 / 18 kW	
						20.1 / 24.1 HP	
Spindle rotation speed						12.000 rpm	
Total weight		7.500		8.000		10.000 kg	
		16,5356		17,637		22,046 lb	
Overall dimensions	Length	3.250	10.66	3.950	12.96	5.500 mm	18.04 ft
	Width	6000	19.68	6.700	21.98	6.700 mm	21.98 ft
	Heigh	2.550	8.37	2.550	8.37	2.550 mm	8.37 ft



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 six foreign branches (USA, Australia, India, China, UK, Brazil), the company is recognized worldwide thanks to its philosophy always aimed at research.



The desire to explore new technologies, as integral part of the company's DNA, has in fact led to the establishment of the BIT (Breton Institute of Technology), where different dedicated teams design and test innovative solutions to develop materials that anticipate the needs of businesses.