power meets precision

High-speed 5-axis vertical machining centers

Breton offers a complete range of solutions dedicated to high-precision machining required by the aerospace, automotive and mould & die industries.

breton

About Breton

Breton - a pioneer in the development of advanced technologies and materials - has been a world leader in the design and manufacture of state-of-the-art industrial machinery since 1963.
Breton is active in different industrial sectors, which need products and services of excellence with high technological content, combined with the need of high productivity and quality standards.
The Machine Tool Division was founded in the early '90s and Breton has firmly established itself as one of the most appreciated manufacturers of high-speed machines.

A few numbers

1963
Year of foundation

+100
Countries where it's present

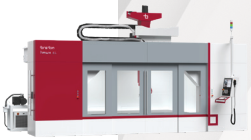
7
International Branches

44
Service centers

Fields of application

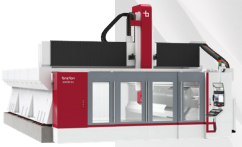
Aerospace	Automotive	Mould & Die	General Engineering
Railway	Defense	Energy	Naval

COMPOSITES AND LIGHT ALLOYS MACHINES

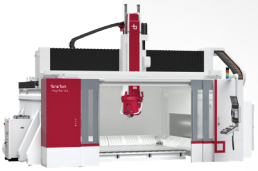


breton hawx e1

breton hawx e2



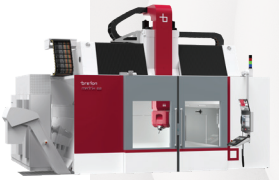
breton eagle



breton raptor

HIGH DYNAMIC ALL-ROUNDER MACHINES

breton matrix e1



breton matrix e2

breton matrix e3

HEAVY MILLING & TURNING MACHINES

breton flymill e1

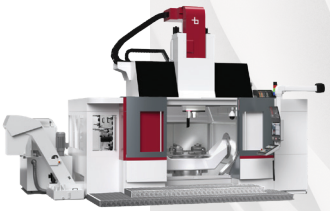
breton flymill e1 m1

High-speed 5-axis vertical machining centers

Engineered on your needs.
Breton offers a complete range of solutions dedicated to high-precision machining required by the aerospace, automotive and mould & die industries. Breton designs, manufactures and commissions high-speed machining centers with gantry architecture that offer optimal performance on any type of material, from the strongest super alloys to composite materials, all the way through steel and light alloys.

TRUNNION TABLE MILLING & TURNING MACHINES

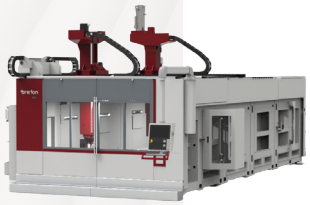
breton xceeder e2



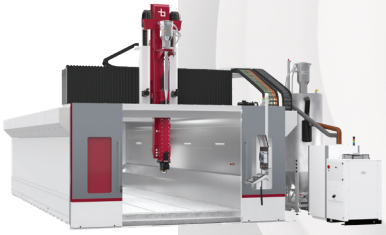
breton ultrix e3

ADDITIVE MANUFACTURING CENTERS

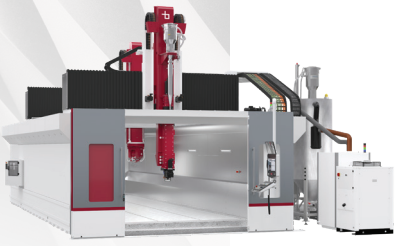
breton genesi e1



breton genesi e2+m



breton genesi e3|e4

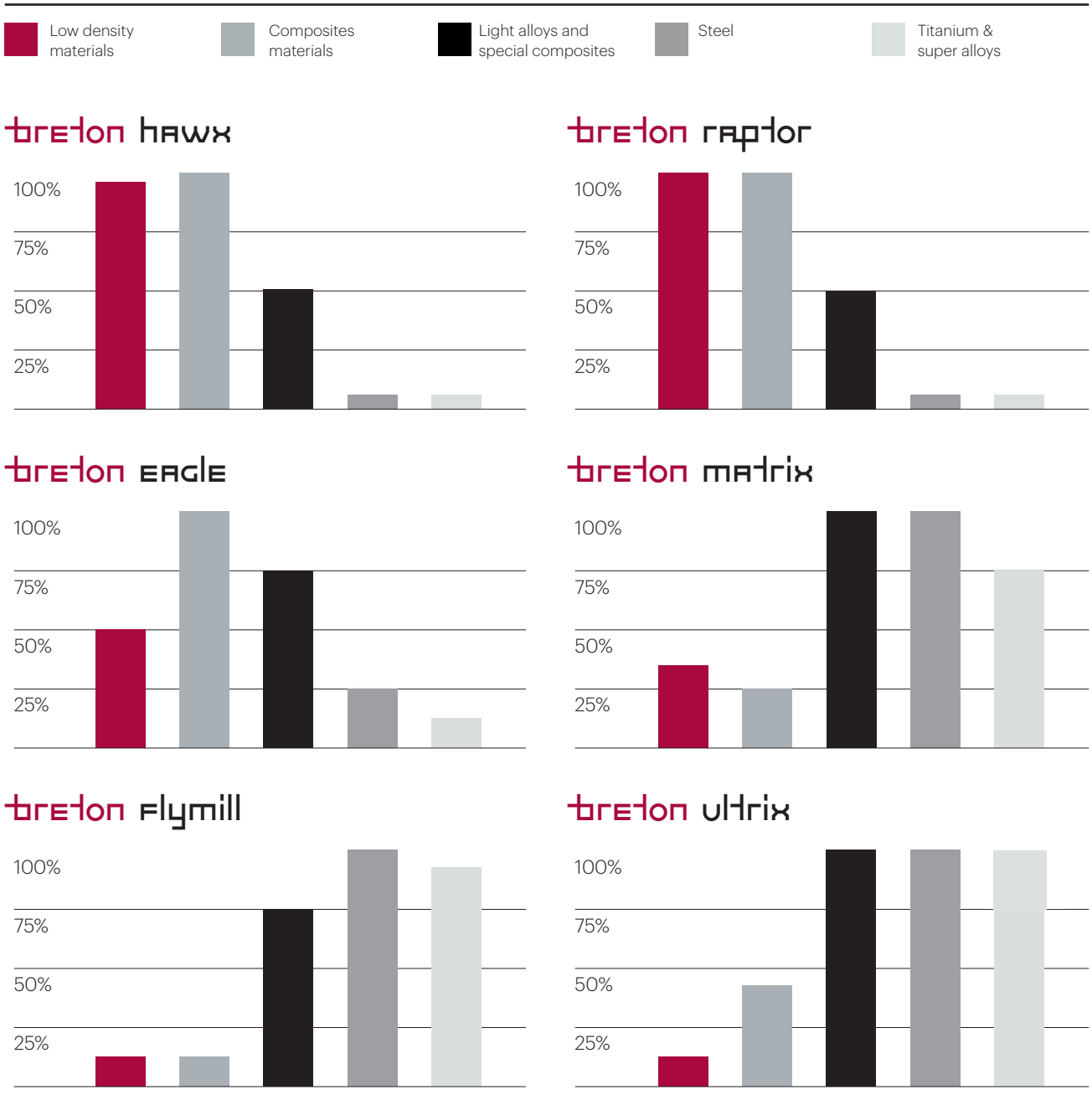


breton genesi e3|e4+m

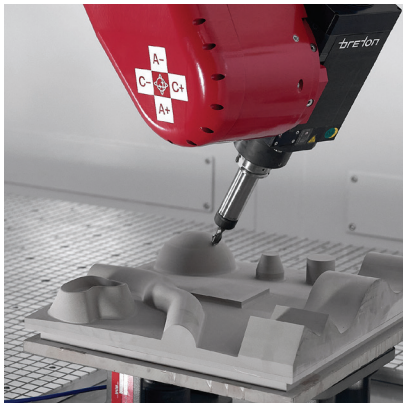
The right machine for every application

Breton's goal is to ensure the best relationship between the investment required and the working efficiency on multiple materials. Efficiency considers a number of parameters, including the volume that can be machined, the maximum precision and the speed with which it can perform machining operations on a specific material. The graph shows the investment efficiency for the purchase of a specific Breton machining center in relation to the machined material.

Return on investment



breton HAWX E1



	Hawx E1 K 40	Hawx E1 K 60
X axis travel	4.000 mm	6.000 mm
Y axis travel	1.900 mm	1.900 mm
Z axis travel	1.300 mm	1.300 mm
X/Y/Z axes rapid feedrate	80 / 80 / 60 m/min	80 / 80 / 60 m/min
A axis rotation	-135° + 105°	-135° + 105°
A axis rapid feedrate	28 rpm	28 rpm
C axis rotation	±270°	±270°
C axis rapid feedrate	28 rpm	28 rpm
Spindle power S6 | S1	18 - 15 | 25 - 21 | 30 - 25	18 - 15 | 25 - 21 | 30 - 25 kW
Spindle torque S6 | S1	14.3 - 12 | 20 - 18 | 36 - 30	14.3 - 12 | 20 - 18 | 36 - 30 Nm
Spindle speed	18.000 | 24.000 | 24.000	18.000 | 24.000 | 24.000 rpm
Milling tool taper	HSK-A63 / HSK-F63	HSK-A63 / HSK-F63
Table dimensions	1.750 x 3.800 mm	1.750 x 5.750 mm

High-dynamic 5-axis gantry vertical machining centre.

The right combination of strength and stability makes it ideal for high-speed milling and trimming operations on complex three-dimensional shaped parts made of light alloy, resin or composite materials.Thanks to its optimised design, Breton Hawx is not only more rigid and stable, but it also provides an excellent footprint-working area ratio. The electro-welded, monolithic, self-supporting structure is the core of the machine, providing strength and allowing easy handling.
The unique box-in-box architecture provides a significant increase in the rigidity of the bridge-carriage-RAM assembly and it combines with the high strength of the new Hornet head to achieve a significant increase in material removal and accuracy, all with the highest dynamics. The innovative offset geometry of the head also makes it possible to increase the volume that can be machined. Hawx arrives already assembled and tested and doesn't requires special foundations.

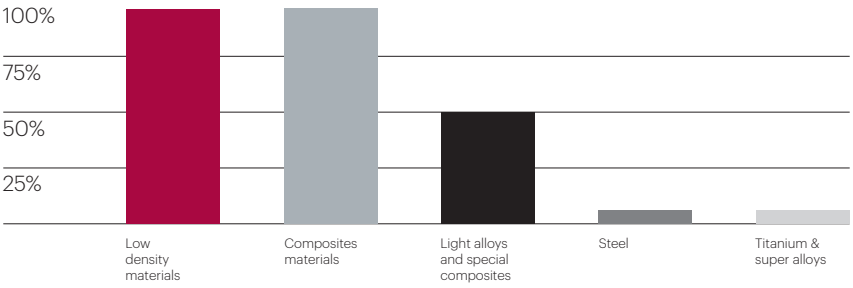
Technologies

High-speed milling

Box-in-Box

Monoblock

Performance



breton HAWX E2

	Hawx E2 K 18 | 38	Hawx E2 K 58 | 78	
X axis travel	1.800 | 3.800 mm	5.800 | 7.800 mm	
Y axis travel	2.700 mm	2.700 mm	
Z axis travel	1.300 mm	1.300 mm	
X/Y/Z axes rapid feedrate	70 / 70 / 60 m/min	70 / 70 / 60 m/min	
A axis rotation	-105° +135°	-105° +135°	
A axis rapid feedrate	28 rpm	28 rpm	
C axis rotation	±270°	±270°	
C axis rapid feedrate	28 rpm	28 rpm	
Spindle power S6 | S1	18 - 15 | 25 - 21 | 30 - 25	18 - 15 | 25 - 21 | 30 - 25	kW
Spindle torque S6 | S1	14.3 - 12 | 20 - 18 | 36 - 30	14.3 - 12 | 20 - 18 | 36 - 30	Nm
Spindle speed	18.000 | 24.000 | 24.000	18.000 | 24.000 | 24.000	rpm
Milling tool taper	HSK-A63 / HSK-F63	HSK-A63 / HSK-F63	
Table dimensions	2.700 x 2.550 / 5.100 mm	2.700 x 7.200 / 9.300 mm	

Highly dynamic 5-axis gantry vertical machining centre.

Breton Hawx E2 represents a technologically advanced solution for milling, trimming and drilling complex parts in light alloys, resins and composite materials.
The one-piece U-shaped structure, self-supporting and expandable along the X axis by adding pre-assembled modules, guarantees maximum rigidity and stability, ensuring precision and reliability even in the most demanding machining operations. The box-in-box architecture, which characterises the bridge-ram assembly, further increases structural robustness, while the new Hornet head, with offset geometry, allows greater removal capacity and an increase in the machinable volume. This combination enables high machining speeds and exceptional surface quality even on complex three-dimensional geometries.
Breton Hawx E2 is delivered assembled and tested, ready for installation without the need for special foundations.

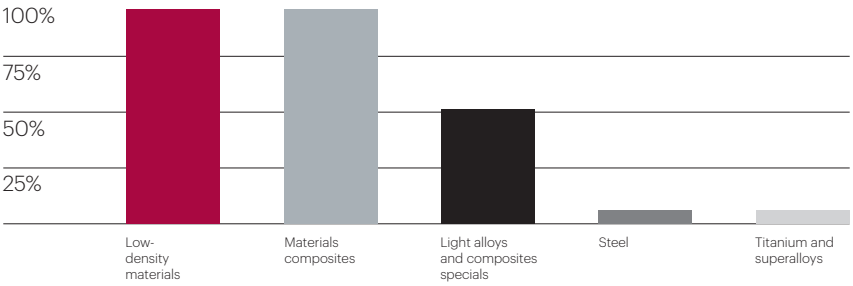
Technologies

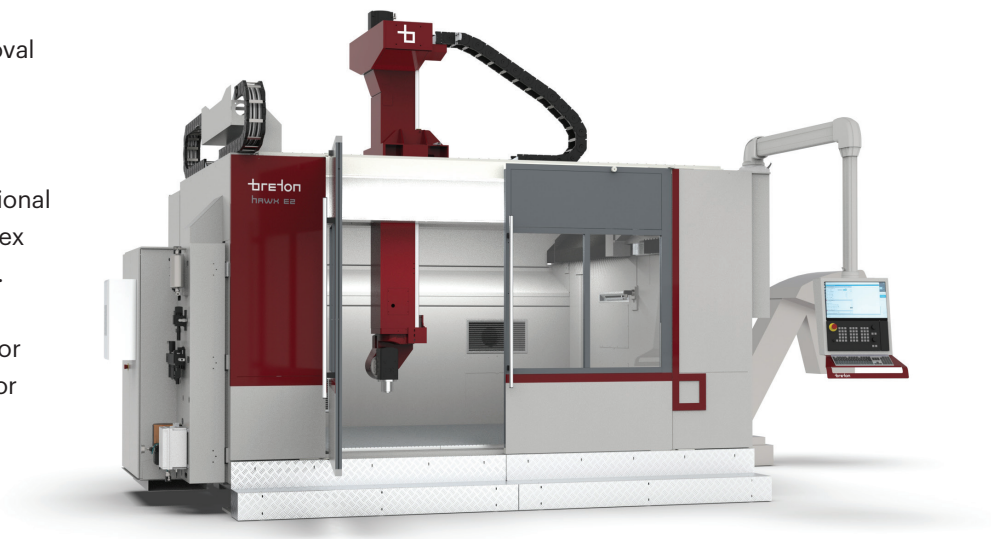
High-speed milling

Box-in-Box

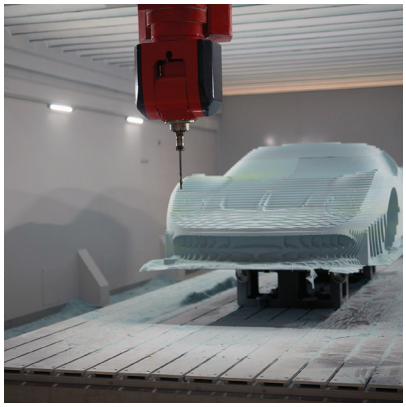
Monoblock

Performance





breton raptor



	Raptor E2	
X axis travel	4.000 mm	
Y axis travel	5.500 / 9.000 mm	
Z axis travel	2.000 mm	
X/Y/Z axes rapid feedrate	40 / 40 / 15 m/min	
A axis rotation	±115° / -105° +135°	
A axis rapid feedrate	12 / 30 rpm	
C axis rotation	±200°	
C axis rapid feedrate	18 / 30 rpm	
Spindle power S6 | S1	31 - 25 | 41 - 37 | 25 - 21	kW
Spindle torque S6 | S1	65 - 52 | 89 - 62 | 20 - 18	Nm
Spindle speed	16.000 | 28.000 | 24.000	rpm
Milling tool taper	HSK-A63	

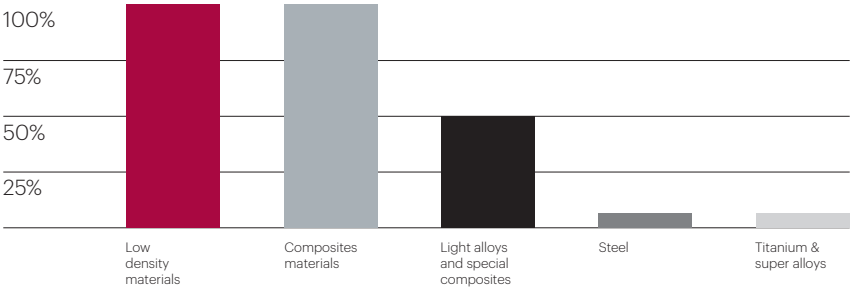
High-dynamic 5-axis gantry vertical machining center.

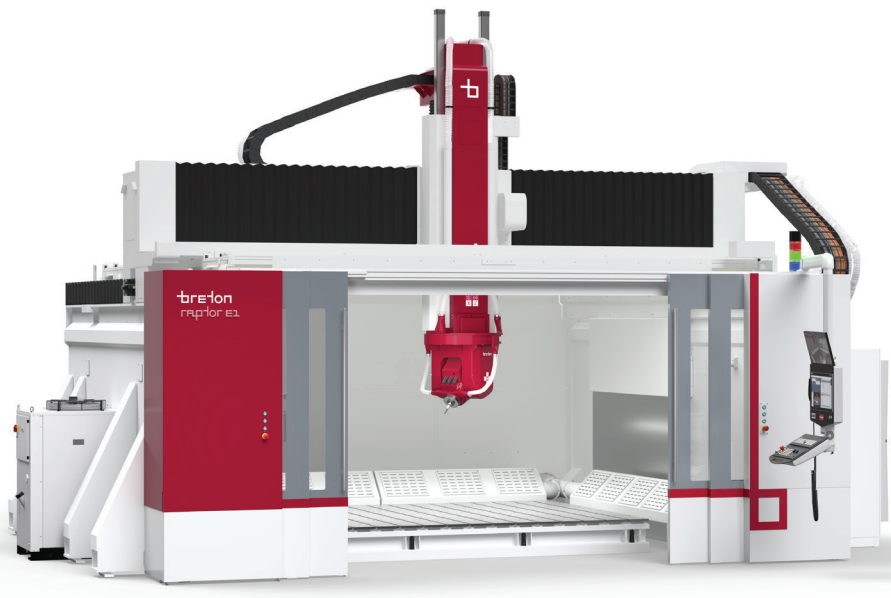
The design suitable for large workpieces, electrospindles up to 40 kW and the right degree of robustness, allow high-speed milling and trimming operations on elements with a complex 3D shape such as light alloys, resins, and composite materials.
Thanks to the linear axis speed up to 80m/min and to the rotary tilting head with ± 200° rotation of the C-axis and 0° +115° rotation of the A-axis, it shows excellent performances both for dynamics and precision in the execution of complex profiles. It allows the use of spindles with 40 kW of power and 28,000 rpm, giving the machine a considerable removal capacity. In its largest version it reaches a considerable machining volume, up to 8.000 x 4000 mm surface and 2000 mm height.

Technologies

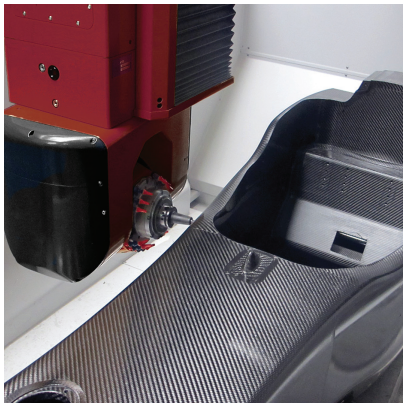
High-speed milling

Performance





breton EAGLE



	Eagle E1	Eagle E2	
X axis travel	2.000 - 30.000 mm	3.000 - 30.000 mm	
Y axis travel	2.500 - 4.000 mm	3.000 - 4.000 mm	
Z axis travel	1.000 - 1.500 mm	2.000 - 2.500 mm	
X/Y/Z axes rapid feedrate	70 / 70 / 40 m/min	50 / 50 / 40 m/min	
A axis rotation	±115° / -105° +135°	±115° / -105° +135°	
A axis rapid feedrate	12 / 30 rpm	12 / 30 rpm	
C axis rotation	±270° - continuo	±270° - continuo	
C axis rapid feedrate	18 / 30 rpm	18 / 30 rpm	
Spindle power S6 | S1	31 - 25 | 41 - 37 | 25 - 21	31 - 25 | 41 - 37 | 25 - 21	kW
Spindle torque S6 | S1	65 - 52 | 89 - 62 | 20 - 18	65 - 52 | 89 - 62 | 20 - 18	Nm
Spindle speed	16.000 | 28.000 | 24.000	16.000 | 28.000 | 24.000	rpm
Milling tool taper	HSK-A63	HSK-A63	

High-dynamic 5-axis gantry vertical machining centre with modular structure.

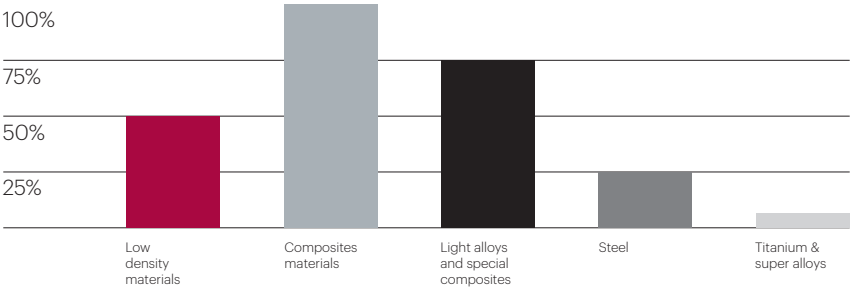
The wide range of available structural combinations makes it possible to have a configuration tailored to the required work volumes. The technical equipment makes it ideal for high-speed precision machining of elements with complex three-dimensional shapes in light alloy, resin or composite materials.
This machining center is positioned in an intermediate range to satisfy many market demands, for dynamics, precision and machinable volumes.
Its high modularity in the strokes, with Z axis that can go from 1.000 mm to 2.500 mm, the multiple combinations of heads and electrospindles together with the various accessories available, allow Eagle to perform a wide range of machining in all sectors.

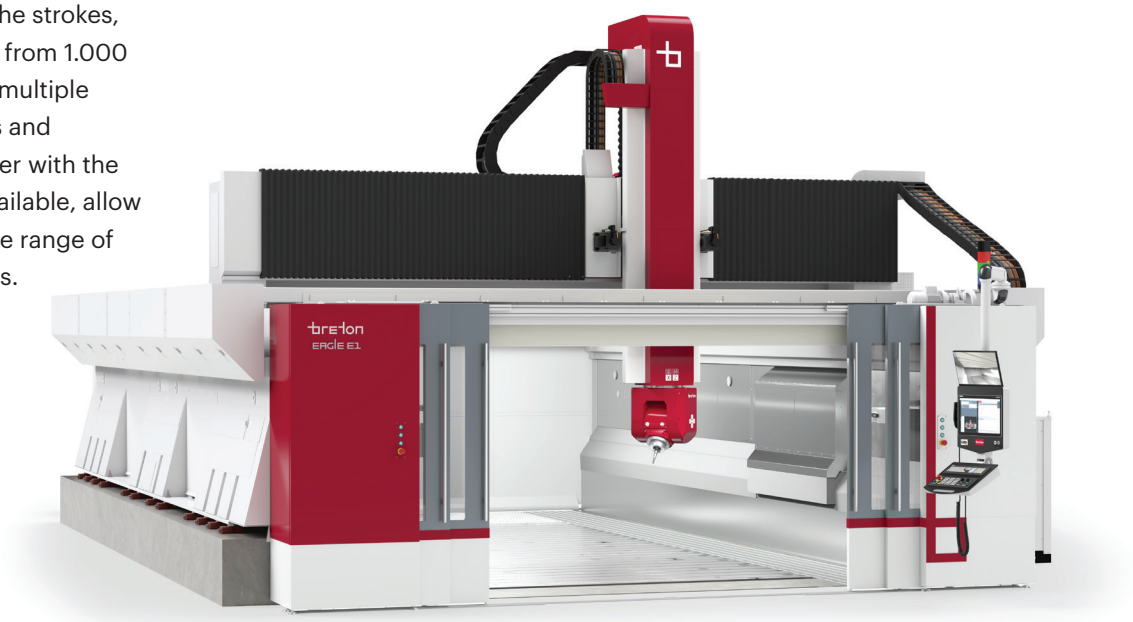
Technologies

High-speed milling

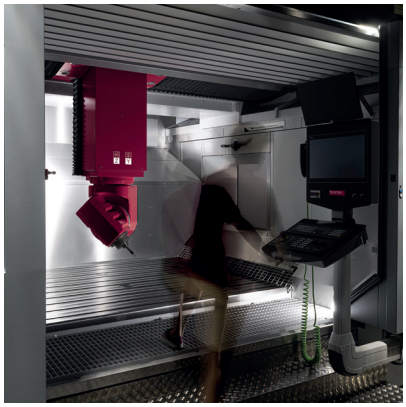
Thermostable

Performance





breton matrix e1



	Matrix E1			
X axis travel	2.000 mm			
Y axis travel	2.500 mm			
Z axis travel	800 / 1.000 / 1.200 mm			
X/Y/Z axes rapid feedrate	50 / 50 / 40 m/min			
A axis rotation	-105° +120° / ±115°			
A axis rapid feedrate	30 rpm			
C axis rotation	±305° / endless			
C axis rapid feedrate	30 rpm			
Spindle power S6 | S1	41 - 37	110 - 83	40 - 40	kW
Spindle torque S6 | S1	89 - 62	115 - 87	137 - 100	Nm
Spindle speed	28.000	24.000	18.000	rpm
Milling tool taper	HSK-A63			
Table dimensions	2.500 x 2.000 mm			

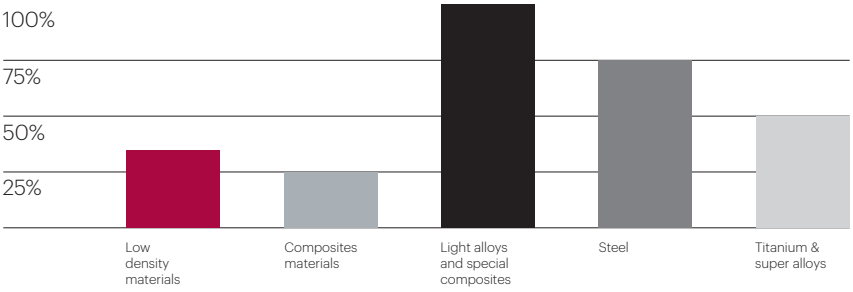
High-dynamic and high-precision 5-axis gantry vertical machining centre.

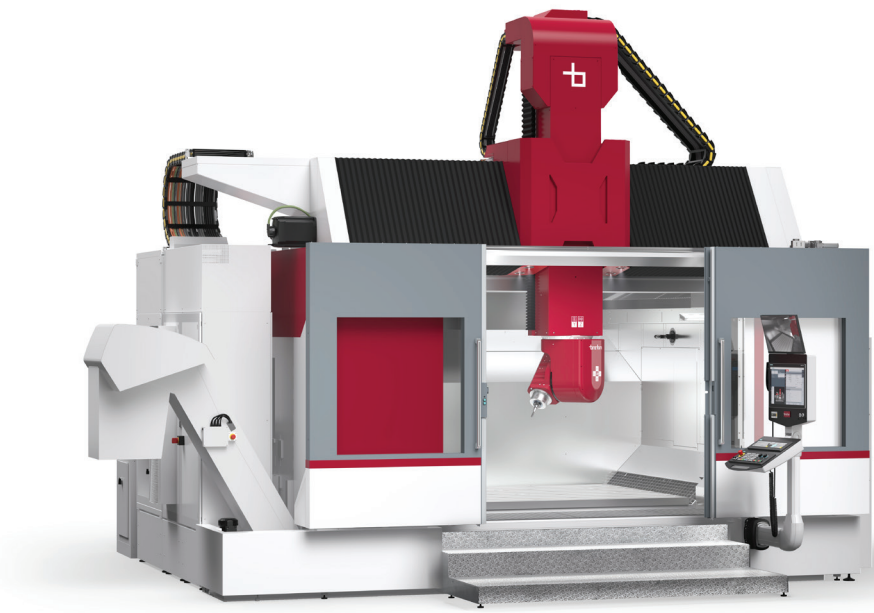
Available in different configurations to best meet the needs of specific applications including moulds, aerostructures and composite machining. It is particularly suitable for hi-feed roughing, semi-finishing and finishing operations on medium size parts made of steel, light alloys and special composites. The monoblock structure ensures greater machine stiffness.
The direct motors on all linear axes increase precision and dynamics by eliminating backlash and vibrations caused by belts.
The thermal expansions control is guaranteed by the thermo-symmetric structure along with the Thermalshield technology, increasing both precision and repeatability over time. Matrix E1 arrives already assembled and can be installed on flat foundations allowing to halve the time and cost of installation.

Technologies

- High-speed milling
- Monoblock
- Thermostable
- Direct Drive heads
- Thermal Shield

Performance





breton matrix e2

	Matrix E2				
X axis travel	2.500 / 4.000 mm				
Y axis travel	2.500 mm				
Z axis travel	1.100 mm				
X/Y/Z axes rapid feedrate	50 / 50 / 40 m/min				
A axis rotation	-105° +120° / ±115°				
A axis rapid feedrate	30 rpm				
C axis rotation	±305° / endless				
C axis rapid feedrate	30 rpm				
Spindle power S6 | S1	41 - 37	110 - 83	40 - 40	40 - 40	kW
Spindle torque S6 | S1	89 - 62	115 - 87	137 - 100	180 - 150	Nm
Spindle speed	28.000	24.000	18.000	16.000	rpm
Milling tool taper	HSK-A63 / HSK-A100				
Table dimensions	2.500 x 2.000 / 4.000 x 2.000 mm				

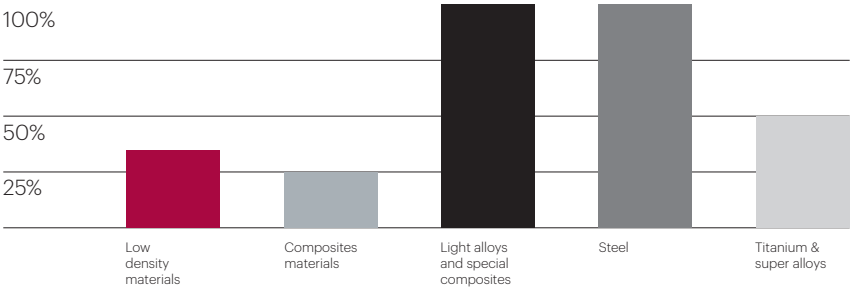
5-axis gantry vertical machining center with high dynamics and high precision.

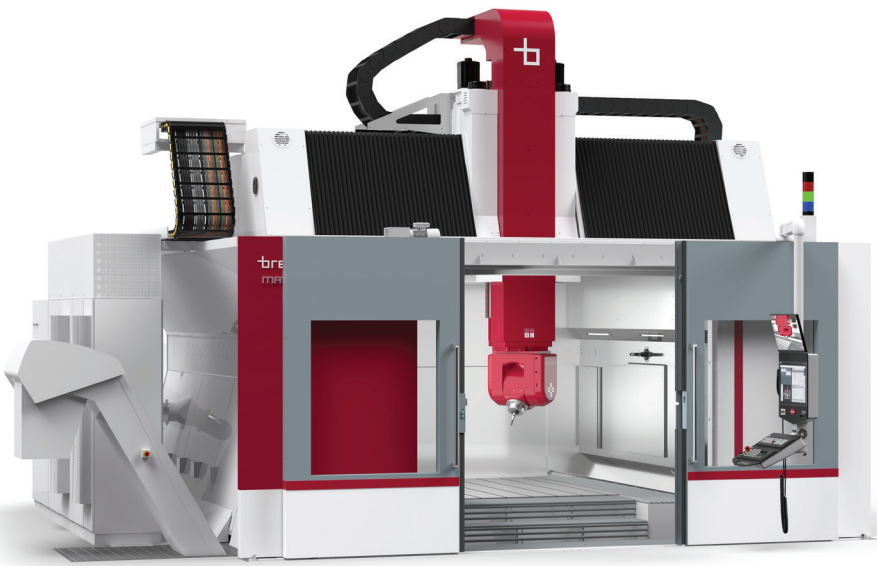
It is the result of careful technical choices that combine thrust and sturdiness with dynamics and precision to obtain the ideal performance in high-feed roughing, semi-finishing and finishing operations on medium-large size parts made of steel, light alloys, or special composites.
Matrix E2 is the ideal solution in application fields where high precision and machining of medium-large size pieces is required, such as in the aerospace sector (machining of structures and equipment), in the construction of large moulds, in the automotive sector (extremely precise moulds and composite components) and in general precision engineering.
To guarantee surfaces with a superior finish, Matrix E2 uses High Dynamics and Thermal Shield technologies, both developed by Breton.

Technologies

- High-speed milling
- High Dynamics
- Thermostable
- Direct Drive heads
- Thermal Shield
- Dual Drive

Performance





breton matrix e3

	Matrix E3					
X axis travel	3.000 - 30.000 mm					
Y axis travel	3.000 - 4.000 mm					
Z axis travel	1.500 - 2.000 mm					
X/Y/Z axes rapid feedrate	50 / 50 / 40 m/min					
A axis rotation	-105° +120° / ±115°					
A axis rapid feedrate	30 rpm					
C axis rotation	±305° / endless					
C axis rapid feedrate	30 rpm					
Spindle power S6 | S1	41 - 37	110 - 83	40 - 40	40 - 40	54 - 54	kW
Spindle torque S6 | S1	89 - 62	115 - 87	137 - 100	180 - 150	235 - 200	Nm
Spindle speed	28.000	24.000	18.000	16.000	12.500	rpm
Milling tool taper	HSK-A63 / HSK-A100					
Table dimensions	2.500 - 3.500 / 3.000 - 30.000 mm					

Modular 5-axis gantry vertical machining center with high dynamics and high precision.

Careful technical choices made it possible to combine thrust and strength with dynamics and precision, in order to obtain the ideal performance in hi-feed roughing, semi-finishing and finishing operations on large parts in steel, light alloy or special composites.

Matrix E3 is used in applications where high precision and large part machining is required, such as in the aerospace (structure and tool machining), automotive (high precision prototyping, moulds and composite structures), mould making and general precision engineering.

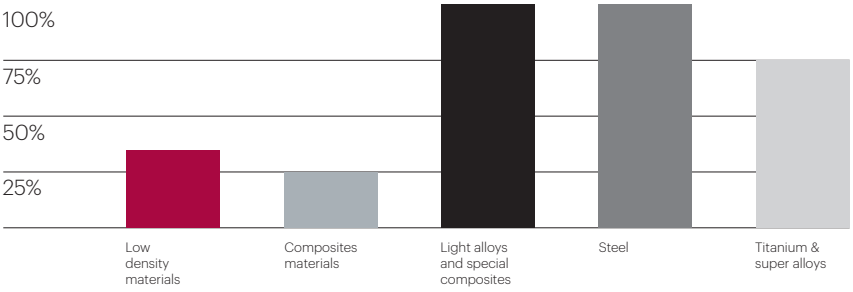
The Dual Drive motors guarantee power and precision; they move together to achieve maximum thrust when the machining requires significant effort, while working “in preload” when the machine is performing high precision machining.

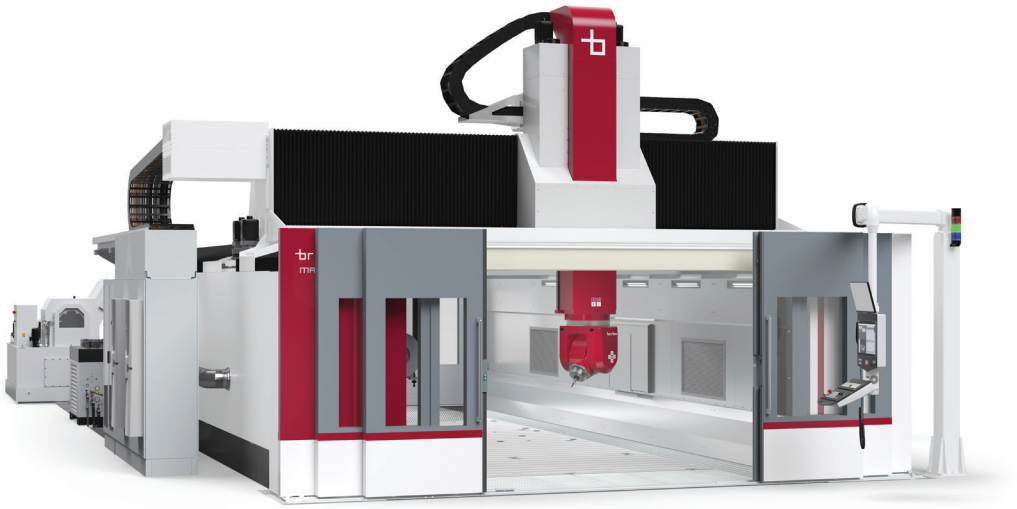
Breton technologies such as High Dynamics and Thermal Shield provide a superior surface finish.

Technologies

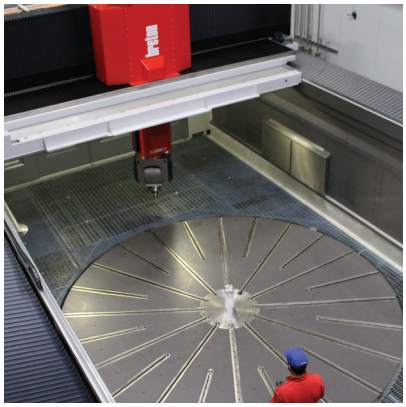
- High-speed milling
- High Dynamics
- Thermostable
- Direct Drive heads
- Thermal Shield

Performance





breton flymill



	Flymill E1	Flymill E1 MT	
X axis travel	3.000 - 30.000 mm	3.000 - 30.000 mm	
Y axis travel	3.000 - 4.000 mm	3.000 - 4.000 mm	
Z axis travel	1.500 mm	1.500 mm	
X/Y/Z axes rapid feedrate	50 / 50 / 40 m/min	50 / 50 / 40 m/min	
A axis rotation	-105° +120°	-105° +120°	
A axis rapid feedrate	30 rpm	30 rpm	
C axis rotation	±305° / endless	±305° / endless	
C axis rapid feedrate	30 rpm	30 rpm	
Spindle power S6 | S1	85 - 75 | 62 - 48	85 - 75 | 62 - 48	kW
Spindle torque S6 | S1	480 - 300 | 730 - 600	450 - 300 | 730 - 600	Nm
Spindle speed	14.000 rpm	14.000 rpm	
Milling / Turning tool taper	HSK-A100 / -	HSK-A100 / CAPTO C8	
Rotary table dimensions	-	2.000 - 5.000 mm	

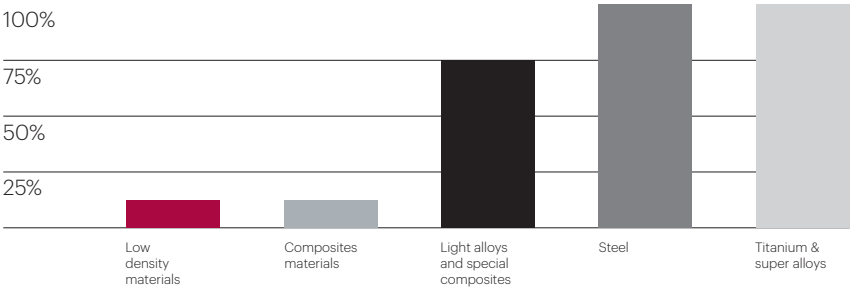
Modular 5-axis gantry vertical machining center with high power and high precision.

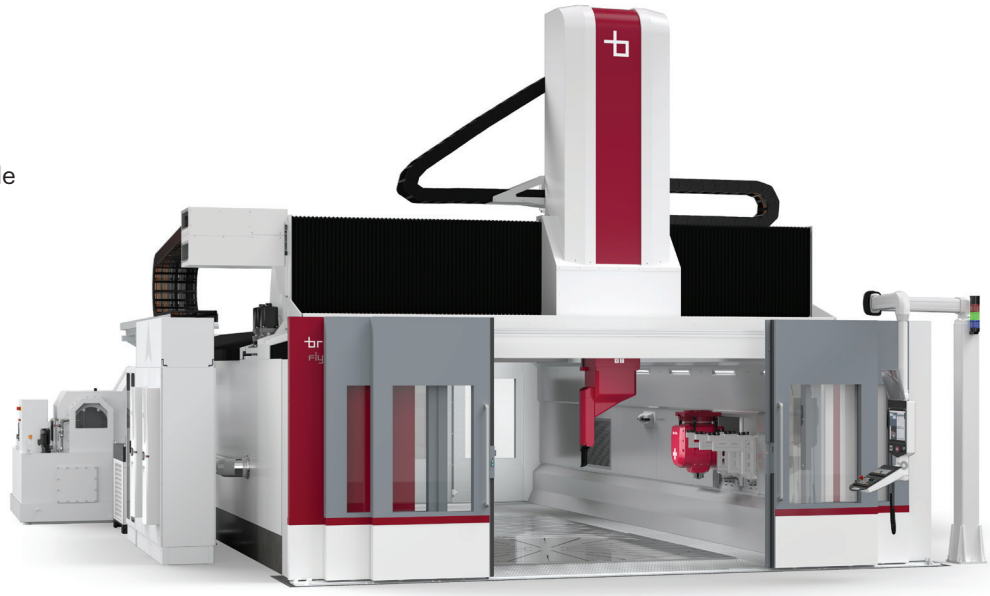
A combination of strength and accuracy on large dimensions to obtain the maximum performance in roughing, semi-finishing and finishing operations on pieces made of tough material, steel or metal alloys. Available also in the Mill-Turn version (Flymill MT), it combines the functionalities of a vertical lathe with those of a continuous 5 -axis milling machine, extending the range of tasks that can be achieved in a single setup. Flymill is the machining center designed to process parts on very large volume and to perform operations on tough materials where high power and torque are required. It stands out for its possibility to combine milling and turning operations in a single setup, exploiting the potential of the turning table and of the automatic head change, to automatically switch from the powerful milling head to the extremely rigid turning head.

Technologies

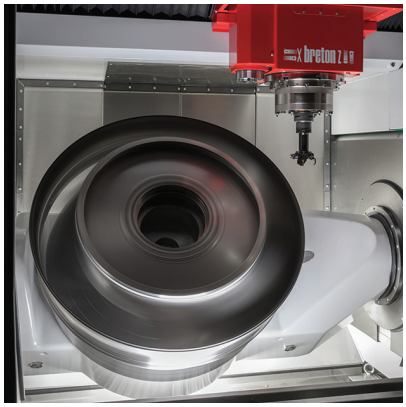
- High-speed milling
- High Dynamics
- Thermostable
- Direct Drive heads
- Turning
- Automatic head change
- Thermal Shield
- Dual Drive

Performance





breton ultrix / xceeder e2



	Ultrix E2 Xceeder E2			
X axis travel	1.150 mm			
Y axis travel	1.000 mm			
Z axis travel	700 mm			
X/Y/Z axes rapid feedrate	60 / 60 / 40 m/min			
A axis rotation	-30° +120°			
A axis rapid feedrate	30			
C axis rotation	endless			
C axis turning speed S6 | S1	500 / 400 rpm*			
C axis Torque S6 | S1	2.700 / 2.000 Nm			
Spindle power S6 | S1	55 - 40	41 - 37	40 - 40	kW
Spindle torque S6 | S1	89 - 62	137 - 100	480 - 300	Nm
Spindle speed	40.000	28.000	18.000	rpm
Milling tool taper	HSK-A63 / HSK-A100			
Turning tool taper	Capto C8*			
Table dimensions	1.250 mm			

Multitasking vertical machining center with rotary table and independent turning bar.

It performs high-precision milling, turning and grinding operations, and provides the most efficient performance on light alloys, steel and super alloys. Designed to work with high dynamics (jerk, accelerations and speed) without using linear motors, it allows to obtain a considerable energy saving and to guarantee all the thrust necessary even in the heaviest operations.

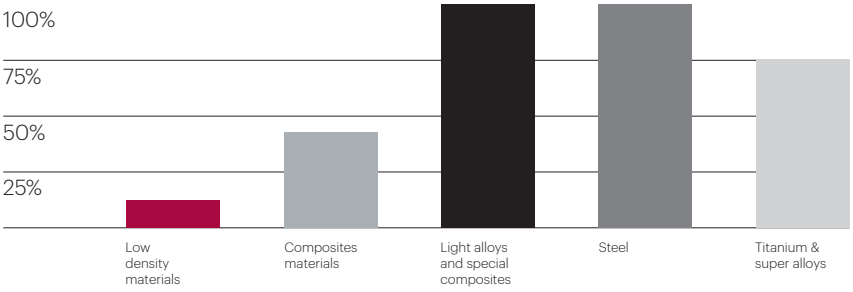
The rigid monoblock structure made of Metalquartz ensures maximum rigidity and stability and allows comfortable and safe access for the operator while maintaining ergonomics and visibility of the workpiece.

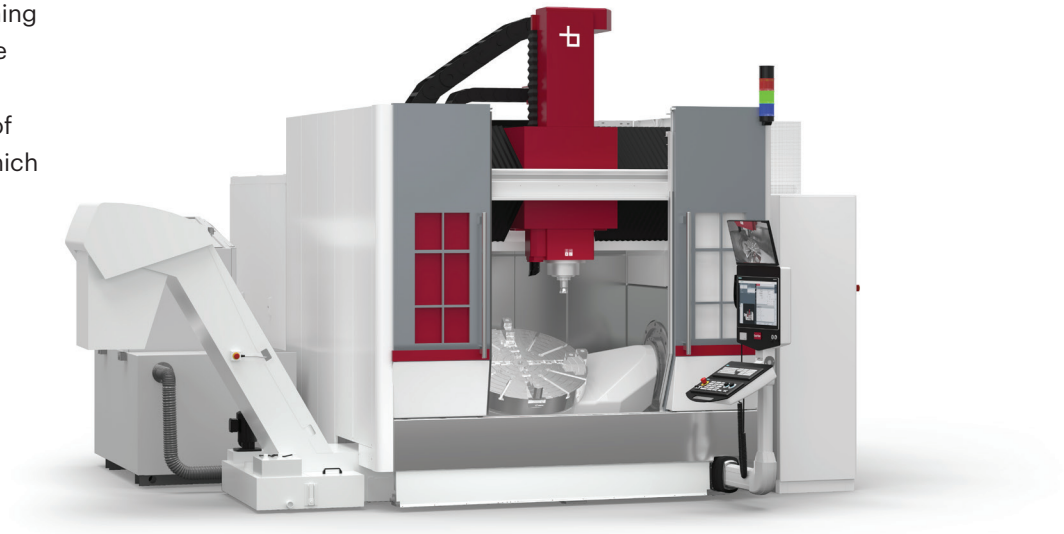
The Ultrix range is composed of three models, the largest of which can process workpieces up to 1,600 mm in diameter.

Technologies

- High-speed milling
- High Dynamics
- Thermostable
- Direct Drive heads
- Thermal Shield
- Turning

Performance





breton ultrix / xceeder e3

	Ultrix E3 Xceeder E3			Ultrix E3 HD Xceeder E3 HD	
X axis travel	1.700 mm			1.700 mm	
Y axis travel	1.600 mm			1.600 mm	
Z axis travel	1.000 mm			1.000 mm	
X/Y/Z axes rapid feedrate	50 / 50 / 50 m/min			50 / 50 / 50 m/min	
A axis rotation	±120°			±120°	
A axis rapid feedrate	30			30	
C axis rotation	endless			endless	
C axis turning speed S6 | S1	450 / 350 rpm*			450 / 350 rpm*	
C axis Torque S6 | S1	2.700 / 2.000 Nm			5.000 / 3.500 Nm	
Spindle power S6 | S1	40 - 40	85 - 75	kW	62 - 48	kW
Spindle torque S6 | S1	137 - 100	480 - 300	Nm	730 - 600	Nm
Spindle speed	18.000	14.000	rpm	14.000	rpm
Milling tool taper	HSK-A63 / HSK-A100			HSK-A100	
Turning tool taper	Capto C8 / HSK-T100*			Capto C8 / HSK-T100*	
Table dimensions	1000 mm			1200 mm	

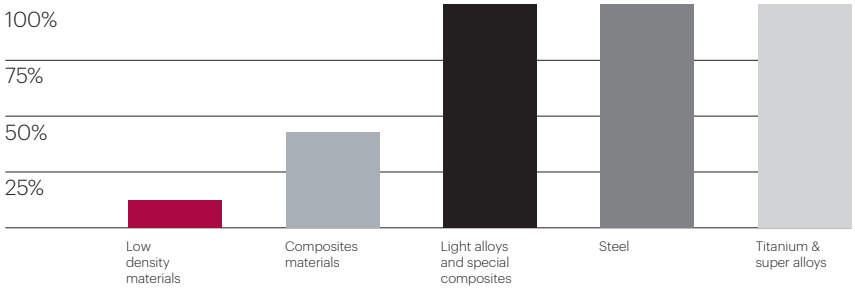
High-power, high-precision 5-axis vertical machining centre with rotary table for milling and turning.

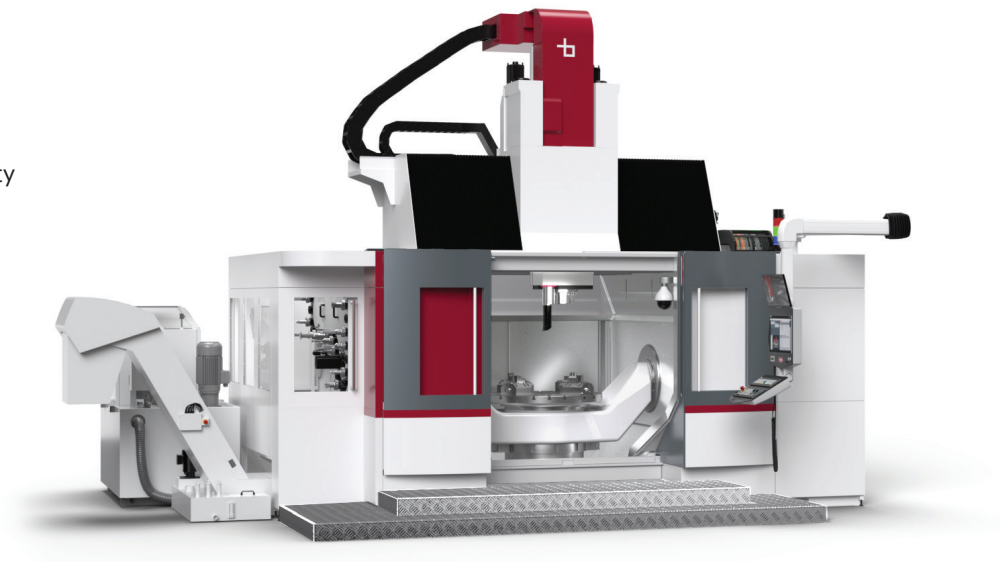
Range of machining centres for high-speed milling and turning that allows high performance in precision and, at the same time, allows machining of workpieces large dimensions. In the largest version with strokes of up to 1,700 x 1,600 x 1,000 mm and a maximum swing diameter of 1,600 mm, the Ultrix/Xceeder E3 is the largest among the swivellers.
In the design a great deal of attention was paid to the layout, in order to minimise the footprint as much as possible.
Ultrix is the best solution for machining aerospace engine components: the vertical spindle facilitates workpiece positioning, the table allows better accessibility and accessibility and allows quick and easy access to the workpiece and cleaning of the work area.

Technologies

- High-speed milling
- High Dynamics
- Thermostable
- Direct Drive heads
- Thermal Shield
- Turning

Performance





breton GENESI

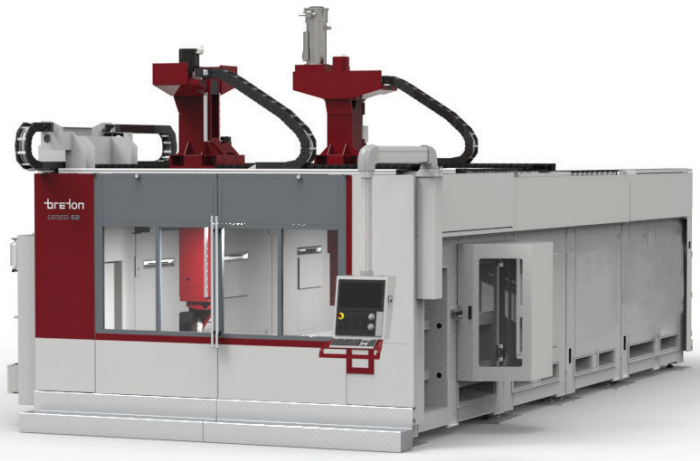
	Genesi E1	Genesi E1 A+M	Genesi E2	Genesi E2 A+M	
Versions	print	print + milling	print	print + milling	
X-axis stroke	4.000 - 6.000 mm	4.700 mm	1.800 - 3.800 - 5.800 - 7.800 mm	6.300 mm	
Y-axis stroke	1.900 mm	1.900 mm	2.700 mm	2.700 mm	
Z-axis stroke	1.300 mm	1.300 mm	1.300 mm	1.300 mm	
Extrusion capacity (max)	60 - 90 kg/h	60 - 90 kg/h	60 - 90 kg/h	60 - 90 kg/h	
Milling spindle	-	18 / 24.000 rpm	-	18 / 24.000 rpm	
Milling tool attachment	-	HSK-A63	-	HSK-A63	
Length	-	41 / 37 - 25 / 21	-	41 / 37 - 25 / 21	kW
Width	-	89 / 62 - 20 / 18	-	89 / 62 - 20 / 18	Nm
Height	-	28.000 - 24.000	-	28.000 - 24.000	rpm

3D printer for large-scale additive manufacturing by extrusion of thermoplastic materials.

Genesi is not simply a machine or an FDM 3D printer, but a true 'ecosystem' that harnesses integrated machine learning algorithms and advanced AI systems to improve Additive Manufacturing processes, ensuring parts with high aesthetic and mechanical quality. Thanks to Genesi, creating a part using thermoplastic deposition techniques is no longer a matter of user skill, but is in fact a fully assisted process that relies on integrated artificial intelligence, which exploits an extensive database and know-how.

Technologies

- High-speed milling
- Artificial Intelligence
- Thermostable
- Additive
- Thermal Shield
- Machine Learning



breton GENESI

	Genesi E3	Genesi E4	Genesi E3/E4 A+M	
Versions	print	print	print + milling	
X-axis stroke	4.000 - 30.000 mm	4.000 - 30.000 mm	4.000 - 30.000 mm	
Y-axis stroke	4.000 mm	3.000 - 5.000 mm	3.000 - 5.000 mm	
Z-axis stroke	2.000 mm	2.000 - 2.500 mm	2.000 - 2.500 mm	
Extrusion capacity (max)	90 - 200 kg/h	90 - 200 kg/h	90 - 200 kg/h	
Milling spindle	-	-	-	
Milling tool attachment	-	-	HSK-A63	
Spindle power S6 | S1	-	-	41 / 37 - 25 / 21	kW
Spindle torque S6 | S1	-	-	89 / 62 - 20 / 18	Nm
Spindle speed	-	-	28.000 - 24.000	rpm

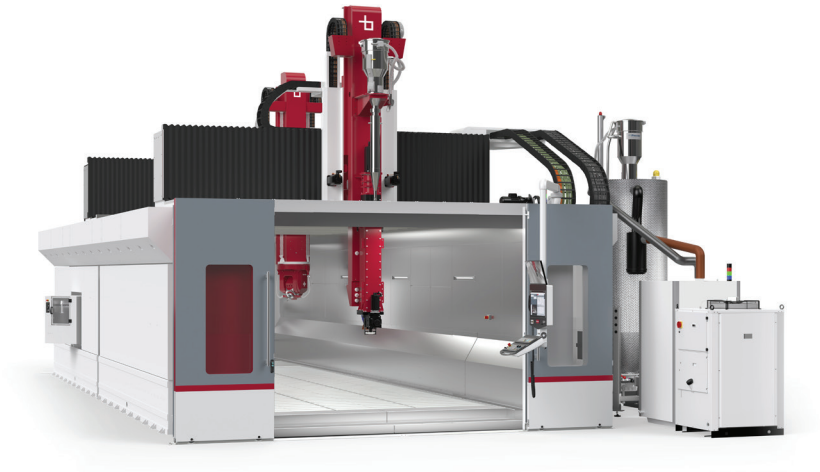
3D printer for large-scale additive manufacturing by extrusion of thermoplastic materials.

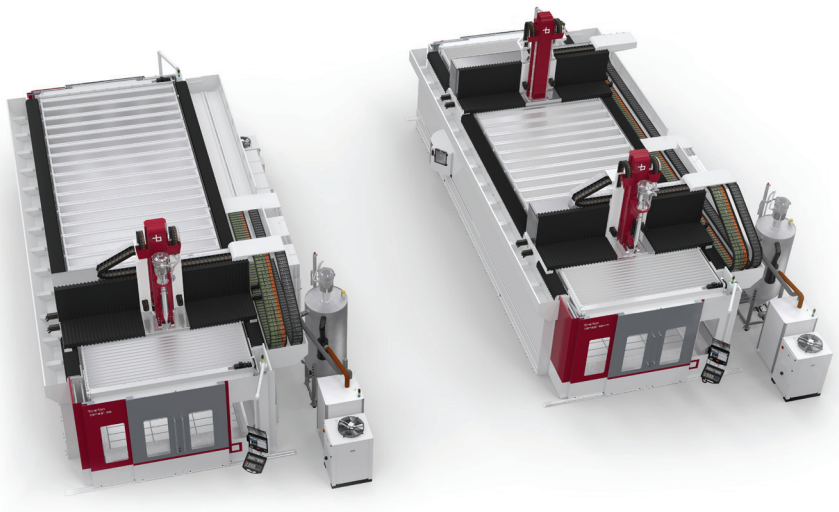
In order to optimally respond to different market needs, Genesi is available in different versions; from compact one-piece machines to large, modular gantries in pure additive or hybrid versions with printing functions. The Pure Additive version allows large parts to be printed in reduced times, extruding up to 200 kg of material per hour.

Additive + milling integrates the functions of the GENESI Pure Additive with the well-known and appreciated milling capabilities of Breton machining centres. In addition to producing 'near net shape' parts, it allows the finishing and optimisation phase to be carried out through high-speed milling, resulting in a 'ready to use' part.

Technologies

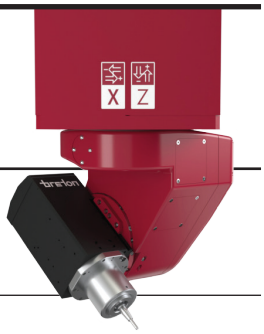
- High-speed milling
- Artificial Intelligence
- Thermostable
- Additive
- Thermal Shield
- Machine Learning





Milling and turning heads

hornet head



For **Hawx**, **Raptor** and **Eagle**

Motor spindles:
Torque
from 12 to 36 Nm

Speed up to
24.000 rpm

ghibli head

For **Eagle**, **Matrix E1** and **Raptor**

Motor spindles:
Torque
from 52 to 62 Nm

Speed up to
28.000 rpm

phoenix head

Direct Drive head for **Matrix E1** and **Matrix E2**

Motor spindles:
Torque
from 63 to 83 Nm

Speed up to
28.000 rpm

tornado head

Direct Drive head for **Matrix E1** and **Matrix E2**

Motor spindles:
Torque
from 62 to 200 Nm

Speed up to
28.000 rpm

typhoon head

For **Matrix E1**, **Matrix E2** and **Matrix E3**

Motor spindles:
Torque
from 62 to 100 Nm

Speed up to
28.000 rpm

100% made in Breton

Breton mechanical milling heads offer a level of robustness that is unique on the market. Available in fork-style or single-sided solutions, rotary movements are provided by digital brushless motors or by thermally stabilised direct drive motors, while rotary axis positioning can be controlled via external encoders.

Equipped with a thermally stabilised milling motor spindle with chiller and with ducts for the passage of external and thru-tool taper cleaning air and cutting fluid; in the most demanding machining conditions the axes can be locked by pneumatic brakes. Breton milling heads can work with resins, composite materials, aluminium, steel, and superalloys.

tornado hd head

Direct Drive head
for **Flymill**

Motor spindles:
Torque
from 100 to 300 Nm

Speed up to
18.000 rpm

typhoon hd head

For **Matrix E2**
and **Flymill**

Motor spindles:
Torque
from 62 to 100 Nm

Speed up to
28.000 rpm

SUCCESSFUL collaborations


VOLVO


BELL


HEIDELBERG


silvaztec
S.A.


dallara


Esistampi


Polisport


BTL
A Blade Technology Company


moldes
j.cereza


CLOOSTERMANS


LEONARDO


sonaca


HYS Group


eligio
RE FRASCHINI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moldes


BRIDGESTONE


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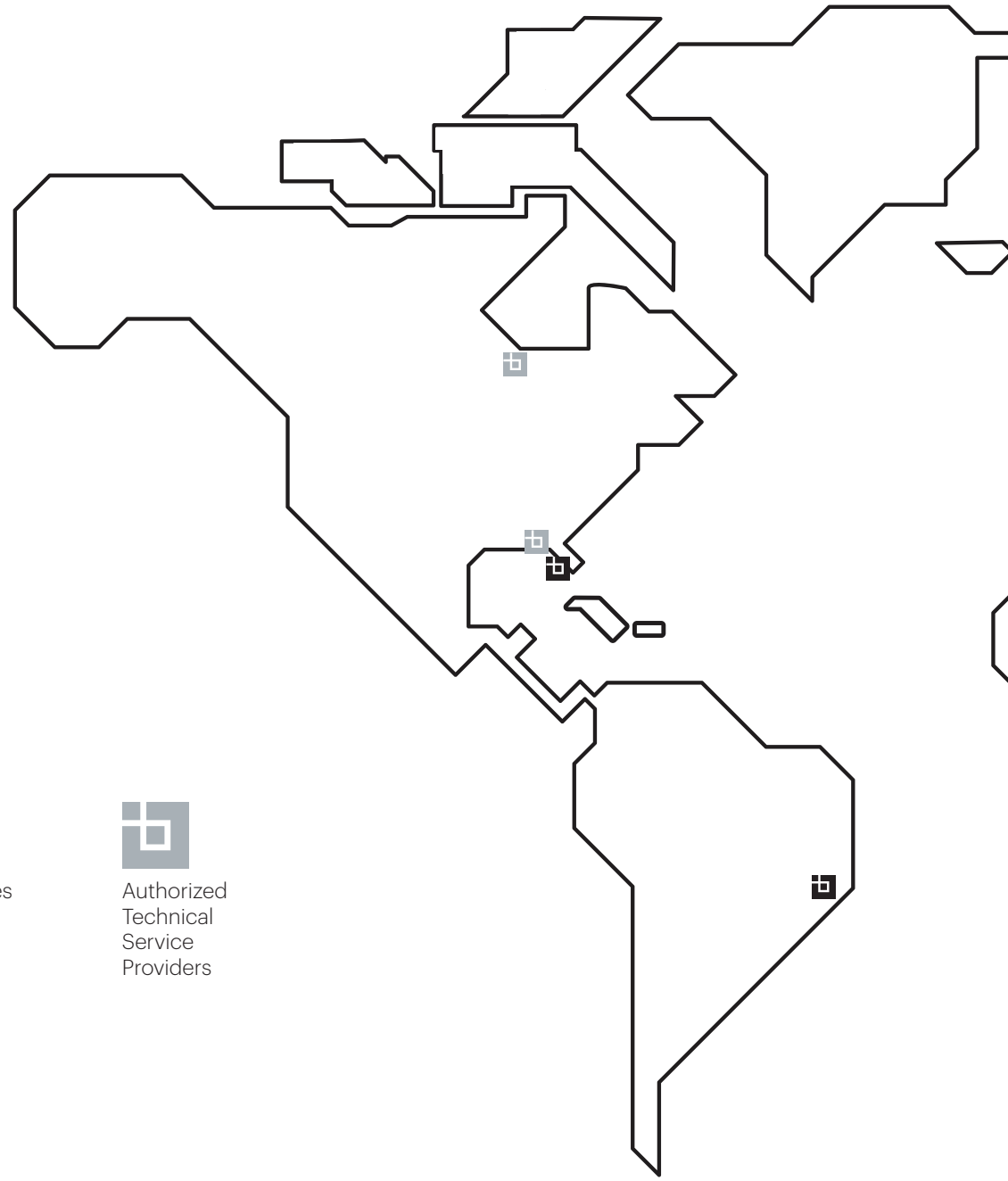

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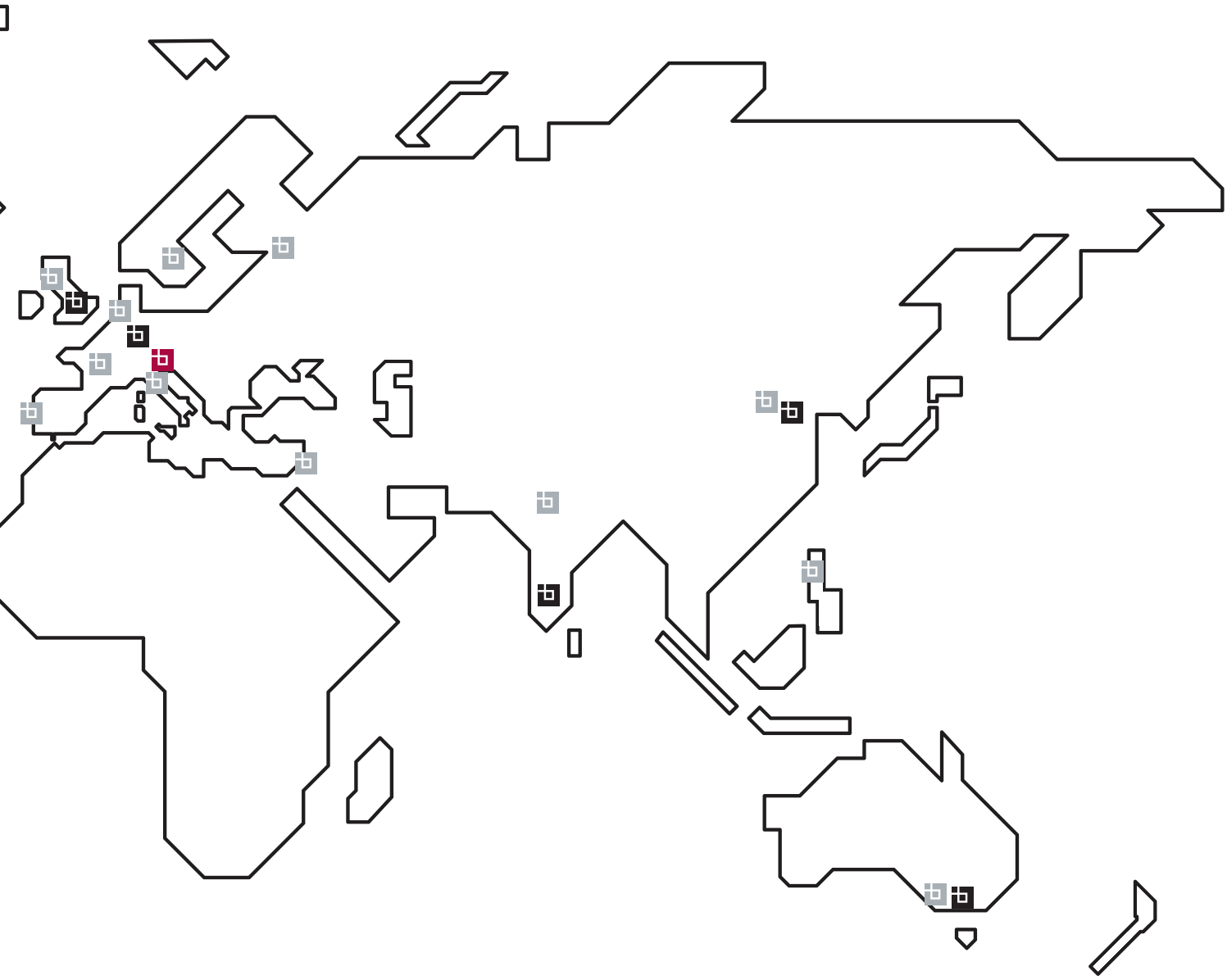

360° support

Performance-oriented systems and custom solutions

Breton provides a tailor-made analysis and strategy, the result of a know-how consolidated by an integrated approach. This activity exploits Breton's unique technical expertise to both assess the feasibility of an existing plan and develop optimized solutions to achieve Customers' goals.

Customer service

Well-structured and comprehensive services

Highly experienced technicians take care of installation, start-up and assistance on-site and remotely. Breton guarantees after-sales and spare parts services with worldwide coverage thanks to an extensive network of service centers. The Breton Customer Service team supports the customer with trainings and solves process and technological problems with the best specialized engineers.

Breton - a pioneer in the development of advanced technologies and materials - is an international group specialized in the design and production of state-of-the-art industrial machinery and plants.

Founded in 1963, Breton has established itself on the global market thanks to its trustworthiness and its philosophy of innovation combined with reliability. Over its history, it has registered more than 1700 patents, devoting the equivalent of around 5% of its turnover to research and development each year.

EN/05.2025

Breton Institute of Technology

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.

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