CNC MACHINERY | **GENERAL** CATALOG

THE **EVOLUTION** OF **WOODWORKING**

BACCI 1918

Index

The Group

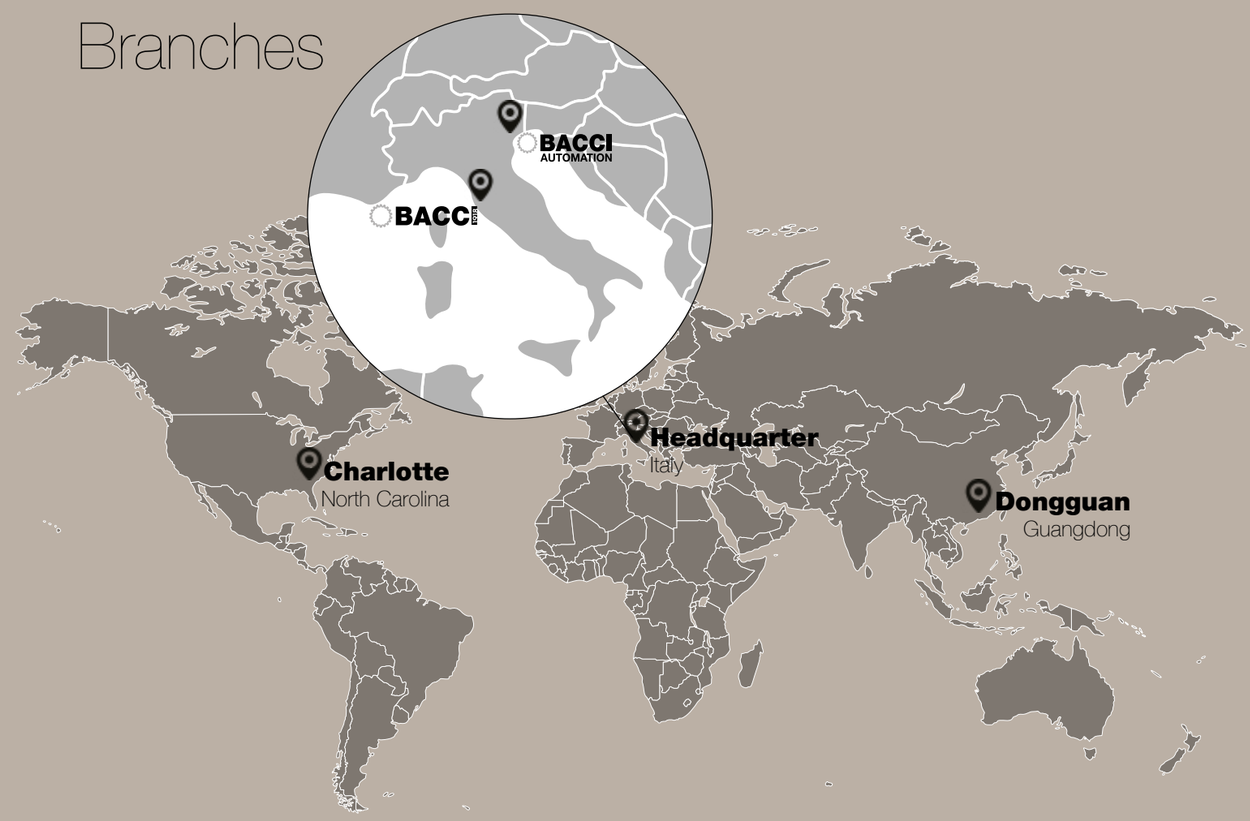
BACCI 1918

BACCI 1918	BACCI MECCANICA	BACCI AUTOMATION	BACCI 1918 AMERICA	BACCI 1918 CHINA
CNC Machinery	Metal working production	Robots & Automation	North American Subsidiary	Far East Subsidiary

The Company

- 100% owned by the Bacci family for 4 generations
- 100% Made in Italy
- Worldwide leader in the production of woodworking 5 axis cnc machining centers
- More than 50 international patents
- 2 direct sales & service subsidiaries (America and China)
- Dedicated service team
- Over 3.000 CNC machining centres sold since 1996
- Total reinvestment of profits

Branches



We work with the best

Leading manufactures know that in order to deliver the best quality possible they must make an investment when it comes to building their business and their productions. BACCI works with the best manufactures in the world confirming the quality and reliability standards of BACCI machines!

Service

A STRONG TEAM THAT GIVES ITS BEST EVERY DAY

Considering the increasing number of CNC machining centers sold, BACCI dedicates extreme care to the after sales service by continuously investing on it. The opening of technical and commercial branches of BACCI in the US and China, together with the growth and training of its service team, show BACCI's dedication to customer satisfaction. BACCI's strong and united service team is available 365 days a year, giving their best every single day.
The company's "mission" is customer satisfaction through innovative customized solutions and fast service.

Applications

CHAIRS & FURNITURE

CABINETS

DOORS & WINDOWS

SPORTS EQUIPMENT

FLOORING

ALUMINUM & COMPOSITES

1918 Once upon a time

Following WWI, Paolino Bacci started production of band saws for supplying local woodworking shops in Cascina, Pisa (Italy).
The machines were immediately recognized as having superior quality due to their rigidity and reliability.

1950 Industrial production begins

Under the leadership of Giuseppe, Paolino's son, the company began to specialize in the manufacturing of woodworking machines for chair production.

1986

1st Italian IWF CHALLENGERS AWARD Winner

The innovative capacity of the company was confirmed when BACCI became the **first Italian company to receive the Challengers award IWF**, the prestigious award bestowed by the International Woodworking Fair (IWF) in Atlanta, GA.

1995 1st CNC machining center by BACCI

In the mid 90's, to meet market demands and satisfy the growing request for production flexibility, **BACCI introduced the first 5-axis multiple spindle CNC machine**. The company expanded beyond the chair manufacturing industry, as these new flexible machines were capable of handling applications from wood, plastic, and composites.

1998 1st 5-axis double head CNC machine

In 1998, BACCI became **the first company in the world to manufacture CNC machining centers with double 5-axis heads**, able to machine the same piece with two working heads simultaneously. For the programming, BACCI developed PITAGORA software, which is a very innovative 3D anti-collision simulating software.

1991 BACCI MECCANICA

In order to reorganize production along industrial lines, metal frame machining was split from machines assembly. The new company, **BACCI MECCANICA**, opened its own, new plant facilitiy.

2017 BACCI Automation

Paolino Bacci S.r.l. announced the establishment of Bacci Automation with the acquisition of FA Robot S.r.l.

2014 BACCI America

After many successful years of sales in the US through importers, BACCI decided to further increase sales and its market share through the opening of a direct subsidiary to provide sales and after sales support to its customers in the US & Canada.

The new factory 2001

With increasing orders, the production moved to a new, modern plant next to **BACCI MECCANICA.**

Today

Currently, BACCI is recognized as the world leader in the production of CNC machining centers with 5 or more interpolated axes for the machining of a wide variety of materials including wood, plastic, composites, and aluminum.

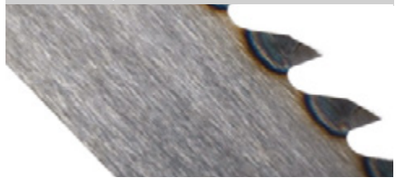
2016

2nd IWF CHALLENGERS AWARD Winner

30 years after winning their first IWF Challengers Award in Atlanta-USA, **BACCI** does it again with their **MASTER.***PRO TRIPLE TABLE CNC* Router, which shapes and sands the outside profile of cabinet doors. This unique 6-axis CNC machine is the first to have true, high volume "Batch One" processing.

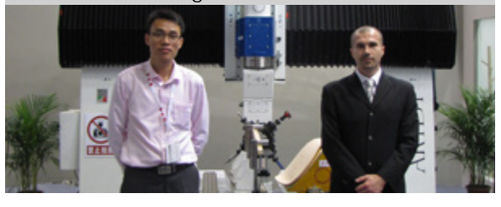
BACCI Cutting Division 2008

With the 100% acquisition of "Veneta Macchine", a company specialized in the production of vertical band saws for curved cutting and horizontal band saws for thin cutting, BACCI further extended its product lines.

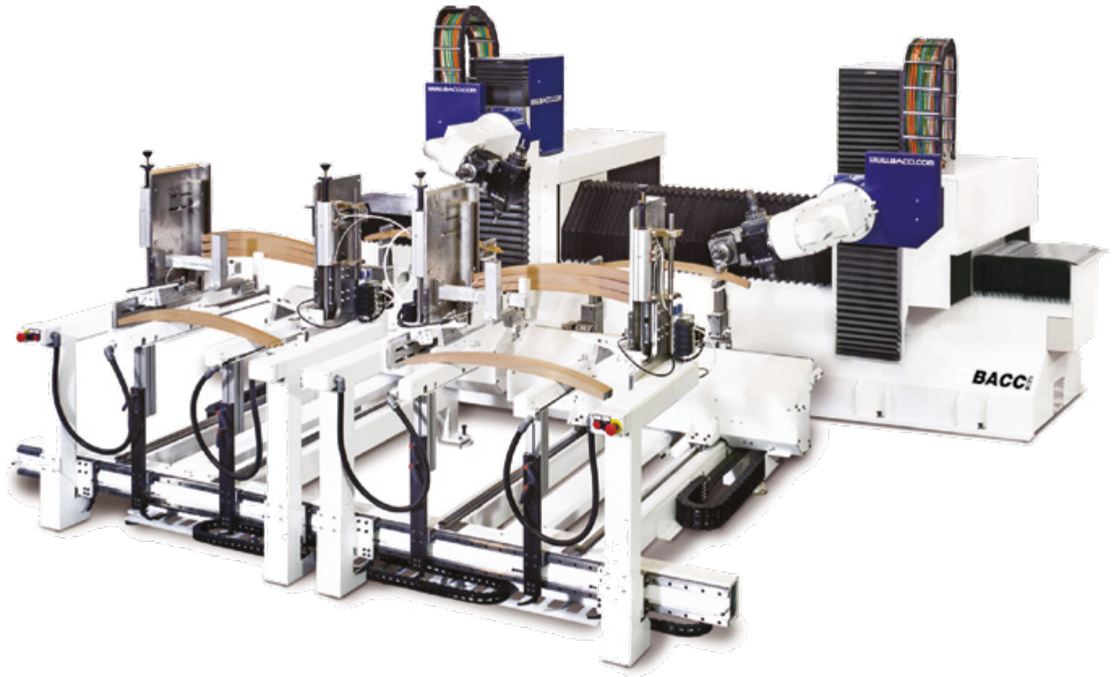


2006 BACCI China Office

China became the largest export market. To better serve customers, the company opened a technical and sales branch located in the city of Dongguan, in the Guangdong region, the heart of Chinese furniture manufacturing.



DOUBLE.*SERIES*

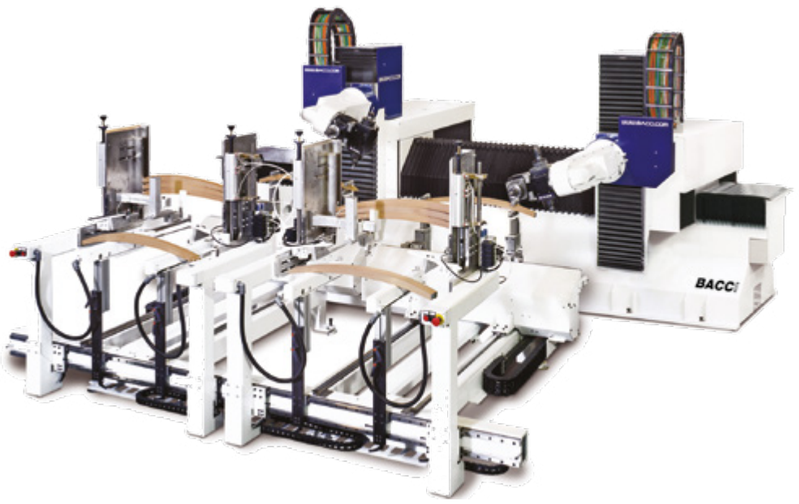


DOUBLE 5-AXIS HEADS
TO **DOUBLE** YOUR OUTPUT

D.r.d.p two seater sofa by Roberto Lazzeroni **Ceccotti Collezioni**, Italy

DOUBLE.*JET*

12-AXIS CNC MACHINING CENTER



Info

DOUBLE.*JET* is a high productivity double head CNC machining center with 12 interpolated axes able to machine the same piece with the two 5-axis heads simultaneously. Equipped with 2 automatic hopper feeders designed to ensure fast loading/unloading and the best possible ergonomic conditions. The 3+3 jig-less pneumatic clamps are tiltable and adjustable in height in order to hold straight and curved parts without fixtures. Automatic setup of the clamps along the X and Z axis is managed by Pitagora software (BACCI patent).

technical data

Number of controlled axis	12
Loader axis	2
Longitudinal X axis	1.700 / 2.400 / 2.950 mm
Transversal Y axis	1.300/1.800 mm
Vertical Z axis	1.000 mm
A axis	Unlimited
B axis	260°

DOUBLE.*JET*

EVO.*JET*

12-AXIS CNC MACHINING CENTER

Info

EVO.*JET* is a flexible and versatile double head CNC machining center that can be customized both in terms of number and types of working tables. **EVO**.*JET* offers different loading systems such as: automatic hopper feeders, manual loading system through free-jigs pneumatic clamps, or the Variable Geometry TGV table for fixtures works (BACCI Patent). Automatic tool changer available on request.

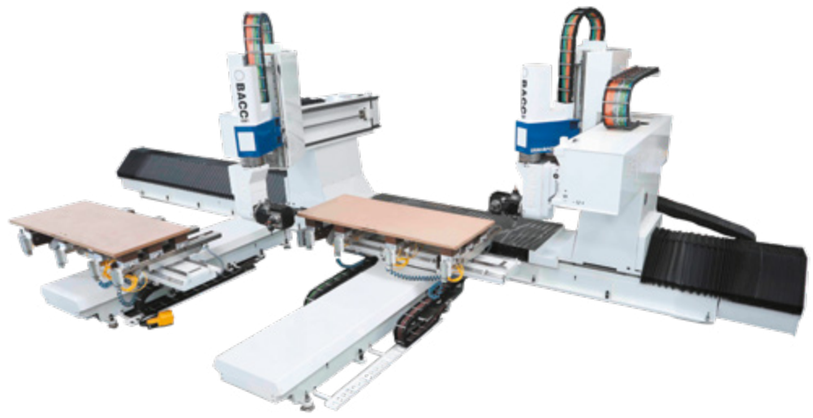
technical data

Number of controlled axis	12 or more
Longitudinal X axis	3.400 mm or greater
Transversal Y axis	1.300 mm
Head transversal Y axis	1.000 mm
Vertical Z axis	750 mm

EVO.*JET*

GEMINI

12-AXIS CNC MACHINING CENTER



Info

GEMINI is a double CNC machining centre to work larger sizes elements. Thanks to its structure, features and strokes, **GEMINI** is suitable for the machining of large panels, frames, tables, furniture elements, ladders, doors and windows and in addition chair elements, shells and sofas.
The applications versatility make **GEMINI** the best machining centre to be used for manufacturers operating both in panel and solid wood field.

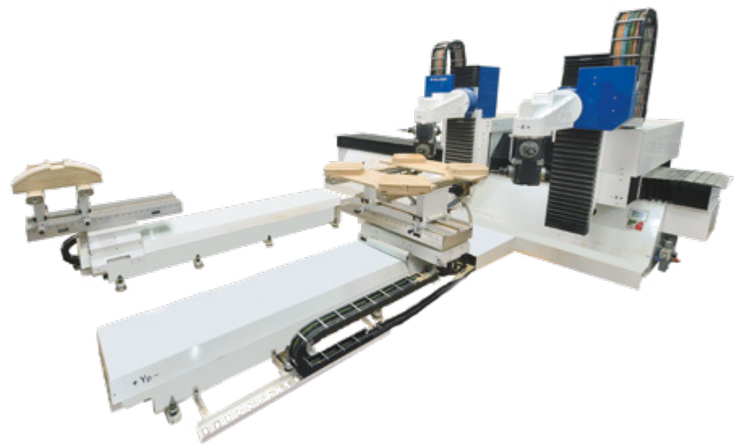
technical data

Number of controlled axis	12
Max loading length	6.900 mm
Transversal Y axis	2.200 mm
Head transversal Y axis	1.850 mm
Vertical Z axis	750 mm
Table size	2.200x1.130 mm each

GEMINI

EVO.*TRC*

14-AXIS CNC MACHINING CENTER



Info

EVO.*TRC* is a double head CNC machining center with 2 indipendent rotating tables with unlimited rotation along the vertical axis (T.R.C. Table with Continous Rotation). The higher outputs (thanks to the 2 working heads that can machine simultaneously the same part), together with unlimited rotation of the tables, give the best match of flexibility and productivity for chair and furniture manufacturing

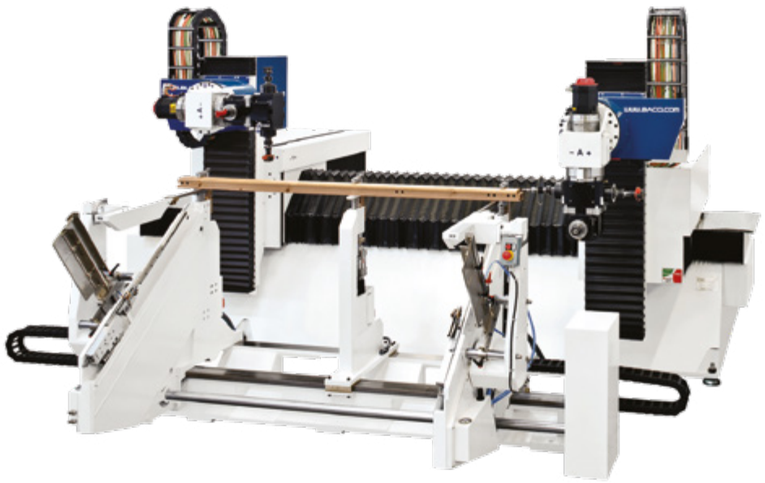
technical data

Number of controlled axis	14
Longitudinal X axis	4.600 mm
Transversal Y axis	2.200 mm
Vertical Z axis	1.000 mm
A axis	unlimited
B axis	400°

EVO.*TRC*

DOUBLE.*CSF2*

10-AXIS CNC MACHINING CENTER WITH HOPPERFEED



Info

DOUBLE.*CSF2* is a double head CNC machining center with 10 interpolated axes, numerically controlled, equipped with automatic CSF2 hopper feeder. **DOUBLE**.*CSF2* is designed for joinery operations as: tenoning, finger jointing, boring, mortising, milling, both at the ends of the elements and also between the ends.

technical data

DOUBLE.*CSF2*

Number of controlled axis	10
Loader axis	3
Longitudinal X axis	2.400 mm
Transversal Y axis	650 mm
Vertical Z axis	1.000 mm
A axis	Unlimited
B axis	260°

EVOLUTION

11-AXIS CNC MACHINING CENTER

Info

EVOLUTION is a double head CNC machining center with 11 interpolated axes equipped with 1 rotating table with 2 TGV loading stations. The rotating table, which keeps the loading area compact, matches perfectly with robot feeding. The wide Z stroke allows machining operations even from the bottom. **EVOLUTION** can perform simultaneous machining on the same piece or two different pieces at the same time, one for each head. On request, **EVOLUTION** is available with 2 independent TGV working tables.

technical data

EVOLUTION

Number of controlled axis	11
Rotating table axis	1
Longitudinal X axis	2.400 mm
Transversal Y axis	800 mm
Vertical Z axis	1000 mm
A axis	unlimited
B axis	400°
Max length of pieces	2,000 mm

MASTER.*SERIES*

GANTRY SOLUTIONS FOR **MAXIMUM** VERSATILITY

Wishbone chair by **Carl Hansen**, Denmark

MASTER.*TGV*

6-AXIS CNC MACHINING CENTER

Info

MASTER.*TGV* is a CNC machining center with 5 inter-polated axes, 2 independent TGV working tables (BACCI Patent), and a multiple spindle operating unit for fast tool changing.
The rigidity of the gantry frame makes the **MASTER**.*TGV* a very precise and sturdy machine ideal for the processing of chairs, furnitures, tables, beds, shells, stairs, musical instruments, moulds, and many other applications.

technical data

Number of controlled axis	6
Longitudinal X axis	3.500 mm or more
Transversal Y axis	2.200 mm or more
Vertical Z axis	750 mm or more
Standard table width	1.170 mm
B axis	unlimited
C axis	400°

MASTER.*TGV*

MASTER.*FLAT*

6-AXIS CNC MACHINING CENTER WITH FLAT VACUUM TBLES

Info

The **MASTER**.*FLAT* is a flexible CNC machining center with 6 interpolated axes, 2 independent FLAT working tables (available in different sizes), and a multiple spindles operating unit for fast tool changing operations.
Equipped with a FOLDING working head, **MASTER**.*FLAT* is suitable for the machining of panels, but also for chairs, furniture, tables, beds, shells, stairs, musical instruments, moulds, as well as many other applications.

technical data

Number of controlled axis	6
Longitudinal X axis	3.500 mm or more
Transversal Y axis	1.800 / 2.200 / 2.600 or more
Vertical Z axis	750 / 950 / 1.130 or more
B axis	unlimited
C axis	400° or more

MASTER.*FLAT*

MASTER.*RAIL*

6-AXIS CNC MACHINING CENTER

Info

MASTER.*RAIL* offers the most advanced and complete clamping solutions with manual set-up: push button rail positioning, vacuum cups, side pneumatic clamps, top clamps, lift-up supports to ease manual loading/unloading, and side, front , back and mid reference stops.
The advance tables make **MASTER**.*RAIL* ideal for the machining of elements of doors, windows, flat panels, and curved solid wood parts with or without the need of fixtures.

technical data

Number of controlled axis	6
Longitudinal X axis	4.900 mm or more
Transversal Y axis	1.800 / 2.200 / 2.600 mm or more
Vertical Z axis	750 / 950 / 1.130 mm or more
B axis	unlimited
C axis	400° or more

MASTER.*RAIL*

MASTER.*FLEX*

6-AXIS CNC MACHINING CENTER

Info

MASTER.*FLEX* is the most flexible 6 axis portal machine of the **MASTER**.*SERIES* thanks to 2 independent “FLEX type” working tables with multi functional carriages and quick connectors for vacuum pods and jig-less clamps. The FLEX rails, made by solid aluminum, are extremely rigid and give the possibility to fix templates directly to the table through threaded holes. The super-fast motorized CNC positioning of the rails and clamping system allows istant setup times and also possibility to move vacuum cups and rails during the cycle.

Technical data

Number of controlled axis	6
Longitudinal X axis	4.100 mm or more
Transversal Y axis	3.000 mm or more
Vertical Z axis	750 / 950 / 1.130 or more
A axis	unlimited
C axis	400° or more

MASTER.*FLEX*

MOBILE UPRIGHT MACHINES FOR **FIXTURE WORKS**

Branca chair by **Mattiazzi**, Italy

AVANT

8-AXIS CNC MACHINING CENTER

Info

The 8-axis CNC machining center model **AVANT** is equipped with two independent TGV working tables (BACCI Patent) able to rotate around the horizontal (TGV-H) or vertical axis (TGV-TRC). The structure of the working tables together with the high Z stroke of the machine allows machining operations also from the bottom. In this way all 6 sides of a piece can be machined. The machining operations are performed outside the Y frame and this prevents chips or wood wastes from falling onto moving parts.
Automatic toolchanger available as option.

technical data

AVANT

Interpolated axis	8
Longitudinal X axis	3.400 mm / 4.400 mm
Transversal Y axis	1.800 mm
Vertical Z axis	1.250 mm
B Axis	unlimited
C Axis	400°
A axis (working table axis)	> 360°

TWIN

6-AXIS CNC MACHINING CENTER

Info

The 6-axis numerically controlled **TWIN** machining center, equipped with two independent TGV tables (BACCI Patent) and a multiple spindle operating unit for quick tool changing. Very dinamic mobile upright driven by high acceleration NSK ball screw with damper (100mt/min). Rotating tables (TGV-TRC) and automatic toolchanger available as option.

technical data

TWIN

Number of controlled axis	6
Longitudinal X axis	3.400 mm/4.400 mm
Transversal Y axis	2.200 mm
Vertical Z axis	1.250 mm
Contouring on Y	1.200 mm
B axis	unlimited
C axis	400 °

SMART

5-AXIS CNC MACHINING CENTER

Info

SMART is an extremely compact 5-axis CNC machining center with a single working TGV table (table with Variable Geometry, BACCI Patent) ideal for small size elements of solid wood, plastic, and composite materials. Rotating table (TGV-TRC) available as option.

technical data

Number of controlled axis	5
Longitudinal X axis	1.550 mm
Transversal Y axis	1.800 mm
Vertical Z axis	1.250 mm
Contouring on Y	1.200 mm
B axis	unlimited
C axis	400 °

SMART

SMART.*JET*

5-AXIS CNC MACHINING CENTER

Info

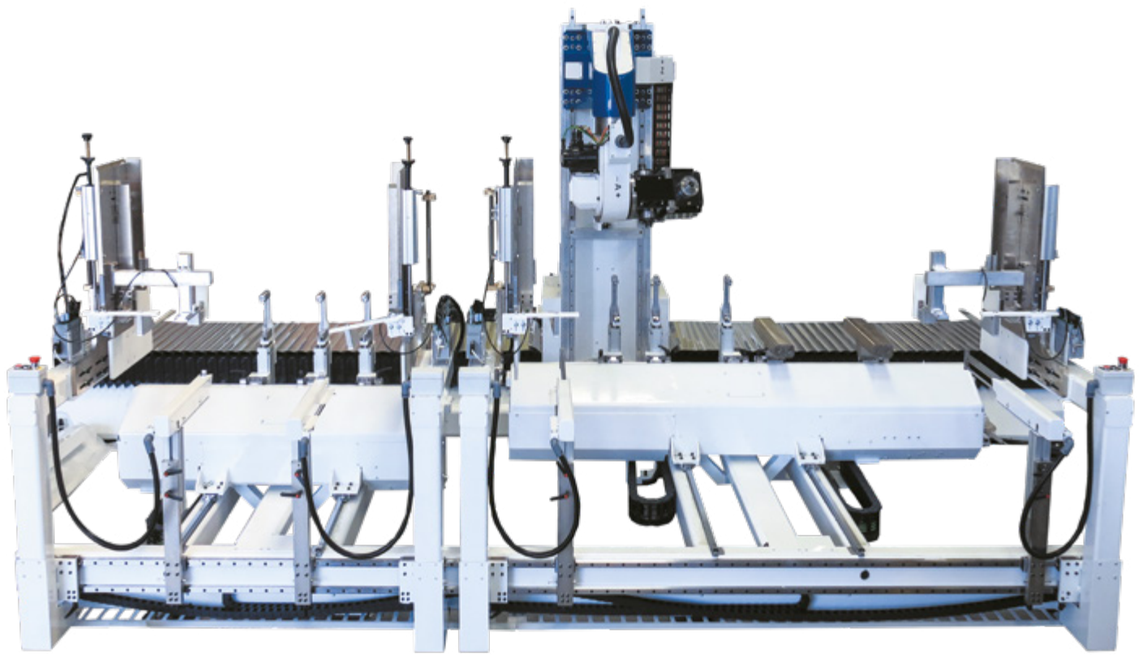
SMART.*JET* is an extremely compact 5-axis CNC machining center with a single working TGV table (table with Variable Geometry, BACCI Patent) able to perform all the typical operations such as boring, cutting, mortising, finger jointing, etc., as well as complex 5-axis machining on solid wood, plastic, and composite materials. A flexible 5-axis CNC machine at an affordable price.

technical data

Number of controlled axis	5
Longitudinal X axis	1.550 mm
Transversal Y axis	1.300 mm
Vertical Z axis	650 mm
B Axis	unlimited
C Axis	400 °

SMART.*JET*

JET.*SERIES*

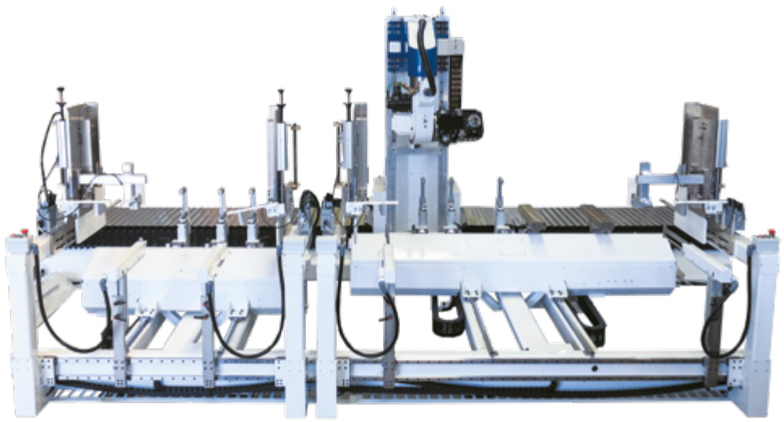


MOBILE UPRIGHT MACHINES
WITH **JIG-LESS CLAMPING**

Superleggera chair by Gio Ponti, **Cassina**, Italy

TWIN.*JET 4400*

6-AXIS CNC MACHINING CENTER



Info

The 6-axis **TWIN**.*JET* machining center is equipped with 2 independent working stations with automatic hopper feeders and jig-less pneumatic clamps that allow loading/unloading operations in masked time. This machining center features a high-speed mobile upright (100m/min.) that moves longitudinally (along X axis). One table extended length with 2 rails for fixture works.

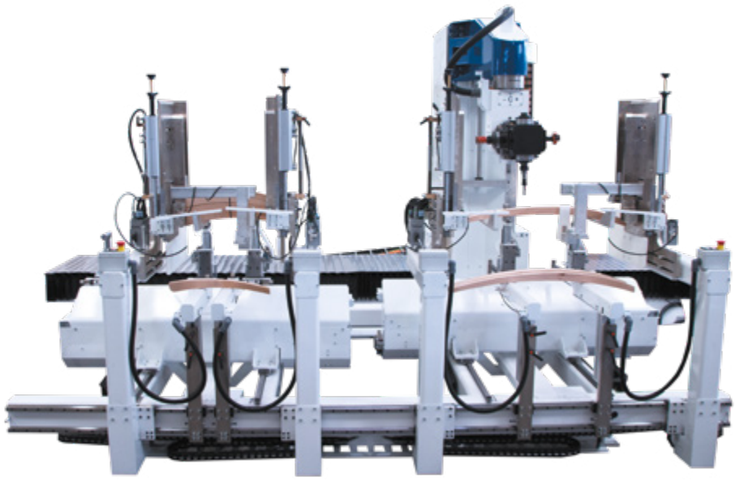
technical data

Number of controlled axis	6
Longitudinal X axis	4.400 mm
Transversal Y axis	1.300 mm
Vertical Z axis	650 mm
A Axis	unlimited
C Axis	270 °

TWIN.*JET 4400*

TWIN.*JET 3400*

6-AXIS CNC MACHINING CENTER



Info

The 6-axis **TWIN**.*JET* machining center is equipped with 2 independent working stations with automatic hopper feeders and jig-less pneumatic clamps that allow loading/unloading operations in masked time. This machining center features a high-speed mobile upright (100m/min.) that moves longitudinally (along X axis).

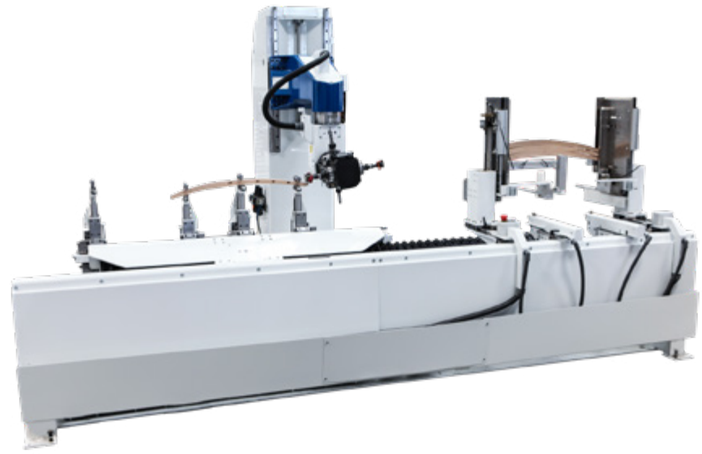
technical data

Number of controlled axis	6
Longitudinal X axis	3.400 mm
Transversal Y axis	1.300 mm
Vertical Z axis	650 mm
A Axis	unlimited
C Axis	270 °

TWIN.*JET 3400*

JET

5-AXIS CNC MACHINING CENTER



Info

JET is a single table machining center with 5 interpolated axes, designed for joineries operations as tenoning, finger jointing, drilling, mortising, milling, and 5-axis profiling.
The machine is equipped with 3 (or more) jig-less pneumatic clamps to run both right and left elements in a single setup thanks to the Double Reference System (BACCI patent).
JET is available also with hopperfeed on request.

technical data

Number of controlled axis	5
Longitudinal X axis	1.800 mm / 2.200 mm
Transversal Y axis	1,300 mm
Vertical Z axis	650 mm
Table width	1.400 mm / 1.800 mm
A axis	Unlimited

JET

JET.*L*

5-AXIS CNC MACHINING CENTER

Info

JET.*L* is a numerically controlled machining center with 5 interpolated axes, designed for joineries operations as tenoning, finger jointing, drilling, mortising, milling, and 5-axis profiling.
Designed to machine also for long pieces (frames, beds, stairs, face frames).
JET.*L* is available with hopperfeed on request.

technical data

Number of controlled axis	5
Longitudinal X axis	2.600 mm / 3.400 mm
Transversal Y axis	1.300 mm
Vertical Z axis	650 mm
Table width	2.200 mm / 3.000 mm
A axis	Unlimited
C Axis	+/- 180 °

JET.*L*

ARTIST.*SERIES*

ARTIST.*TGV*

6-AXIS CNC MACHINING CENTER

Info

ARTIST.*TGV* is a 6-axis CNC machining center with 2 independent **TGV** working tables (BACCI patent). **ARTIST**.*TGV* is equipped with one T2+2-type operating head. A very versatile machine suitable for many applications: elements of furniture, chairs, sports equipment, musical instruments, plastic, and composite materials.

technical data

Number of controlled axis	6
Longitudinal X axis	2.600/3.500 mm
Transversal Y axis	2.200 mm
Vertical Z axis	830 mm
A Axis	unlimited
C Axis	400°

ARTIST.*TGV*

ARTIST.*JET*

6-AXIS CNC MACHINING CENTER WITH HOPPERFEED

Info

ARTIST.*JET* is a 6-axis CNC machining center equipped with 2 independent working TGV tables (BACCI patent). Removable 3+3 frontal jig-less pneumatic clamps can be attached to the front of the TGV rails in order to hold parts without fixtures. Parts can be loaded manually or through automatic hopper feeders.

technical data

Number of controlled axis	6
Longitudinal X axis	3.500 mm
Transversal Y axis	2.200 mm
Vertical Z axis	830 mm
A Axis	unlimited
C Axis	400°

ARTIST.*JET*

THE **5-AXIS** MACHINE FOR **EVERYONE**

Guitar, Polaris Musical Instruments Co. LDT by **Joe Marinic**, Germany

ARTIST.*SINGLE*

5-AXIS CNC MACHINING CENTER

Info

ARTIST.*SINGLE* is a 5-axis CNC machining center with 1 **TGV** working table (**BACCI patent**).
ARTIST.*SINGLE* is equipped with one T2+2-type operating head or trim operative head with 8 positions automatic toolchanger. A very versatile machine suitable for many applications: elements of furniture, chairs, sports equipment, musical instruments, plastic, and composite materials.

technical data

Number of controlled axis	5
Longitudinal X axis	2.600 mm
Transversal Y axis	2.200 mm
Vertical Z axis	830 mm
A Axis	unlimited
C Axis	400°

ARTIST.*SINGLE*

ARTIST.*FLAT*

5-AXIS CNC MACHINING CENTER

Info

ARTIST.*FLAT* is a 5-axis machining center with a flat vacuum working table that makes the machine suitable for flat panel works as well.
ARTIST.*FLAT* is equipped with one T1M operating head and 8-positions automatic tool changer (HSK 63 F).

technical data	Small	Large
Number of controlled axis	5	5
Longitudinal axis X	2.500 mm	2.500 mm
Transversal axis Y	2.600 mm	3.000 mm
Vertical axis Z	830 mm	830 mm
Axis A	unlimited	unlimited
Axis C	400°	400°
Table Size	1.250x1250	1.250x2.400

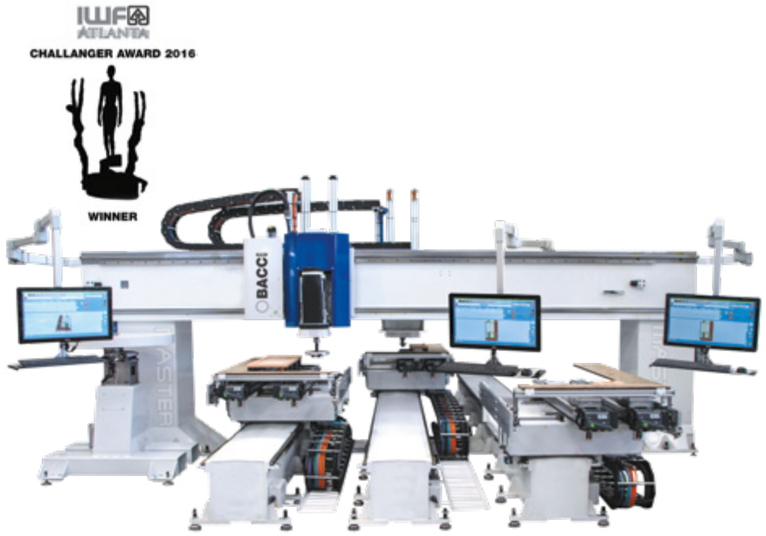
ARTIST.*FLAT*

CABINET.*SERIES*

SOLUTIONS FOR
CABINET DOORS PRODUCTION

MASTER.*PRO TRIPLE TABLES*

3-AXIS CNC MACHINING CENTER WITH MULTIPLE HEADS



Info

MASTER.*TRIPLE TABLES* is a double 3-axis machining center with 3 independent rails & pods tables. The two 3-axis operating heads can work independently on separate tables, increasing the machine output. Rails and pods are equipped with indipendent servomotors for an instant set-up. The 3rd working table allows to load/offload the parts in masked time, while the heads are running on the other tables. Rails and pods tables with automatic set-up available on request.

MASTER.*TRIPLE TABLES* is ideal for the shaping and sanding of cabinet doors, drawers and center panels.

technical data

Number of controlled axis	7
Longitudinal X axis	4.100 mm
Transversal Y axis	4.000 mm
Vertical Z axis	400 mm
Working tables	600x 1.575 mm each

TRIPLE TABLES

MASTER.*MITRE*

5-AXIS CNC MACHINING CENTER

Miter tenon

Face frame

French miter

Finger joint

Info

MASTER.*MITRE* is a single head, single table machining center with multiple spindles operating unit ideal for the machining of kitchen doors elements, face frames and any straight elements in batch one production. The heavy duty clamps with indipendent servo automatic positioning allows to manage the different parts length and width in batch one and the front fence allows to straighten long bowed parts.

MASTER.*MITRE* is avalaible also in twin tables version to mask load/offload and therefore to increase output.

technical data

Number of controlled axis	5
Longitudinal axis X	3.500 mm
Transversal axis Y	1.300 mm
Vertical axis Z	830 mm
Max-Min part length	3.000-120 mm
Max part width*	115 mm

Larger on request

MASTER.*MITRE*

EVOJET.*MITRE*

12-AXIS CNC MACHINING CENTER WITH DOUBLE HEADS

Miter tenon

Face frame

French miter

Finger joint

Info

EVOJET.*MITRE* is a double heads, twin tables machining center with multiple spindles operating unit ideal for the machining of kitchen doors elements, face frames and any straight elements in batch one production. The heavy duty clamps with indipendent servo automatic positioning allows to manage the different parts length and width in batch one and the front fence allows to straighten long bowed parts.

technical data

Number of controlled axis	12
Longitudinal axis X	7.200 mm
Transversal axis Y	1.800 mm
Vertical axis Z	900 mm
Max-Min part length	1.900-120 mm
Max part length with 2 tables	9.000 mm
Max part width*	155 mm

Larger on request

EVOJET.*MITRE*

BMT.*4AXES*

4 AXIS CNC MITRE TENONING MACHINE

Info

BMT.*4AXIS*, "Bacci Mitre Tenon" is a compact 4-Axes CNC machining centre for mitre, mortise and tenon of solid wood and MDF wrapped material with user friendly operator interface touch screen monitor.

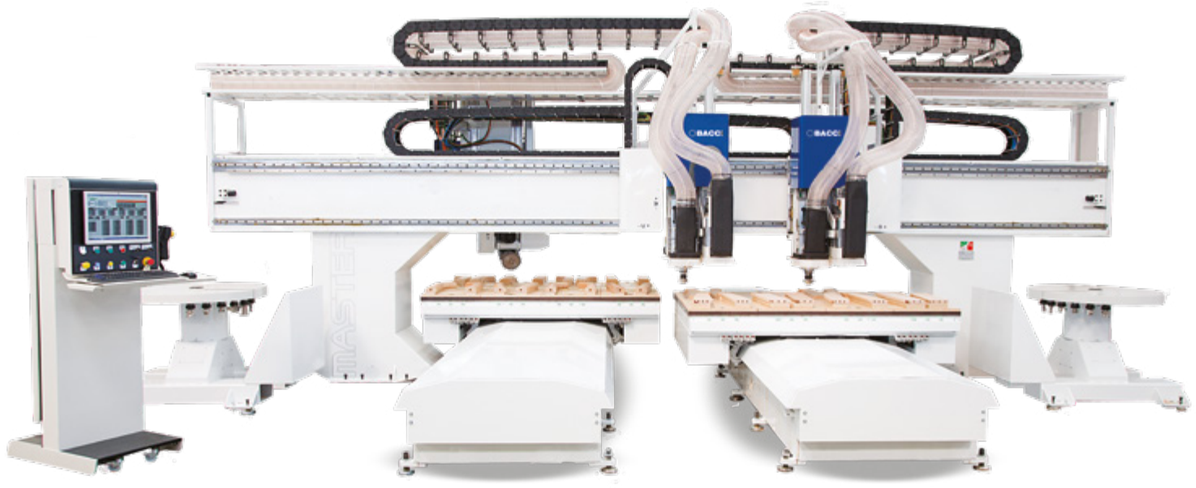
technical data

Max. piece dimensions	40 x 127mm
Max tenon depth	50 mm
Max slot depth	50 mm
Max diam. For tenoning tool	60 mm
Pneumatic clamps	2
Max stroke of the clamps	50 mm
Machine dimension	1850x1100x1550 mm
Machine weight	1.300 kg

BMT.*4AXIS*

MASTER.*PRO 5+3 RAIL*

CNC MACHINING CENTER WITH MULTIPLE HEADS



Info

MASTER.*PRO 5+3 RAIL* is a new and innovative concept for CNC machining centers. It combines n°2 3-axis router (on the front of the gantry) with a 5-axis unit (on the back of the gantry) for the production of both flat and curved elements. The setup of the tables is very fast thanks to the motorized positioning of the rails and pods. The repositioning of the rails and pods can be done even during the cycle.

technical data

Number of controlled axis	10
Longitudinal X axis for 5-axis	6.800 mm
Longitudinal X axis for 3-axis	6,800 max /500 min
Vertical Z axis	400mm
Working tables	2,500x 1,575mm each

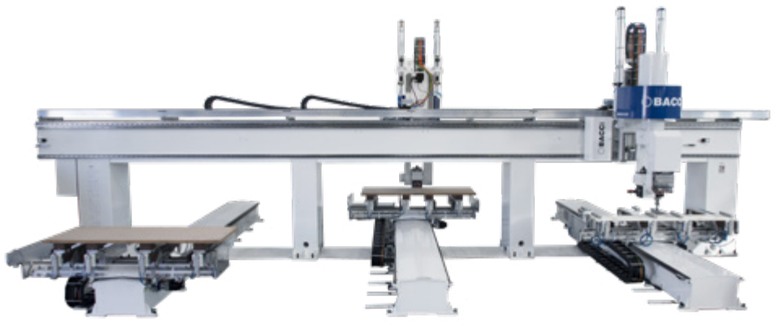
PRO.5+3 *RAIL*

TOP OF THE CLASS **MULTIPLE HEADS** GANTRY MACHINES

Windsor Stressless sofa leg by **Ekornes**, Norway

MASTER.*PRO 5+5 RAIL*

CNC MACHINING CENTER WITH MULTIPLE HEADS



Info

MASTER.*PRO 5+5 RAIL* is a new and innovative concept of CNC machining centers. It combines n°2 5-axis units for the production of both flat and curved elements. The 2 heads can work simultaneously on separate tables to double up the productivity. The presence of multiple heads and multiple tool magazines allow to the tool changing in masked time.
The 3rd working table allows to load/offload the parts in masked time, while the heads are running on the other tables. Rails and pods tables with automatic set-up available on request.

technical data

Number of controlled axis	10
Longitudinal X axis	10.600 mm
Longitudinal Y axis	5.600 max
Vertical Z axis	950mm
Working tables	2.300x 1.200mm each

PRO.5+5 *RAIL*

MASTER.*PRO 5+5 FLAT*

DUAL 5-AXIS CNC MACHINING CENTER

Info

MASTER.PRO *5+5 FLAT* is a 10-axis machining center with double operating heads and 2 independent flat tables, ideal for machining complex pieces in mass production. Each operating head is independent and can machine various components simultaneously. Ideal for machining both panels and curved solid wood parts.

technical data

Number of controlled axis	5+5
Longitudinal X axis	7,000 mm
Transversal Y axis	2,600 mm
Vertical Z axis	950 mm
B axis	unlimited
C axis	400°
Working table	2,400x1,800mm/each

PRO.*5+5 FLAT*

MASTER.*PRO 3+3 FLAT*

DUAL 3-AXIS CNC MACHINING CENTER

Info

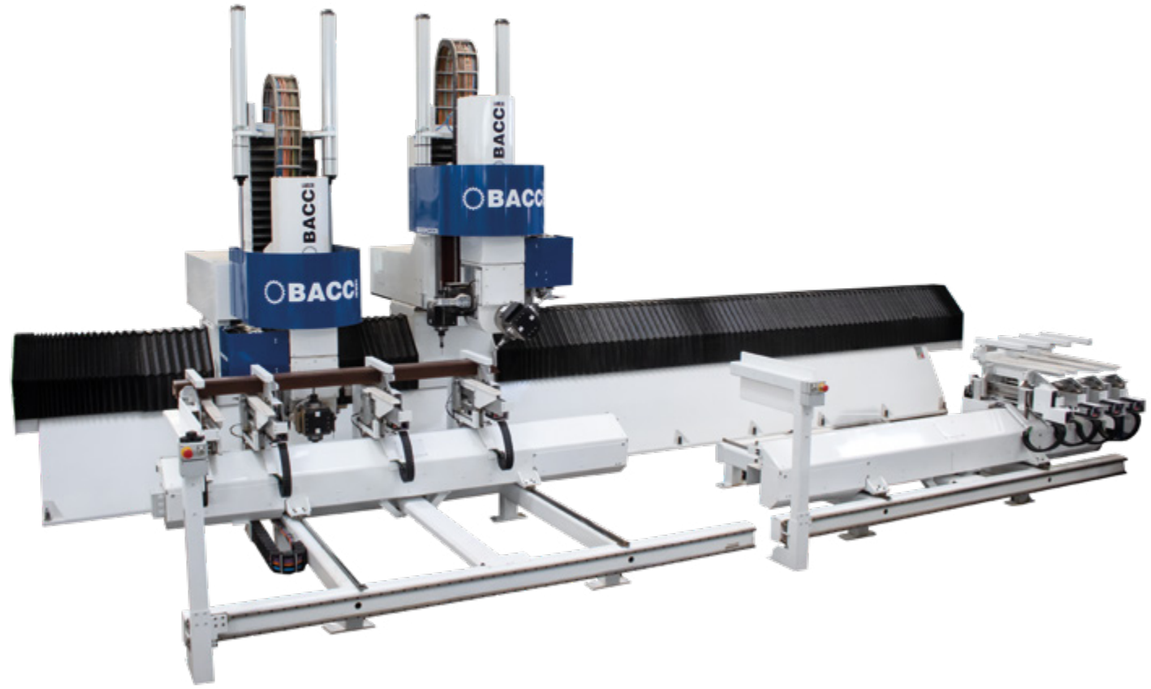
MASTER.PRO *3+3 FLAT* is a double 3-axis machining center with 2 independent FLAT vacuum tables. The two 3-axis operating heads can work independently on separate tables, or in parallel on the same table. **MASTER**.PRO *3+3 FLAT* is ideal for panel nesting operations.

technical data

Number of controlled axis	3+3
Longitudinal X axis	5.900 mm
Transversal Y axis	2,600 mm
Working tables	2.000x1.500mm/each

PRO.*3+3 FLAT*

LINER.*SERIES*



SOLUTIONS FOR **DOORS PRODUCTION** IN BATCH ONE

Door stile by **Invado**, Poland

EVOJET.*LINER*

12-AXIS CNC MACHINING CENTER

Info

EVOJET.*LINER*, the top of the range of the **LINER**.*SERIES*, is a double head CNC machining center with 2 independent working tables. Each table is equipped with 4 reinforced pneumatic clamps for heavy duty machining operations and an automatic loading/unloading system. **EVOJET**.*LINER* is suitable for the production of elements for doors in batch one thanks to the PITAGORA parametric programming software and the fast positioning of the motorized clamps.

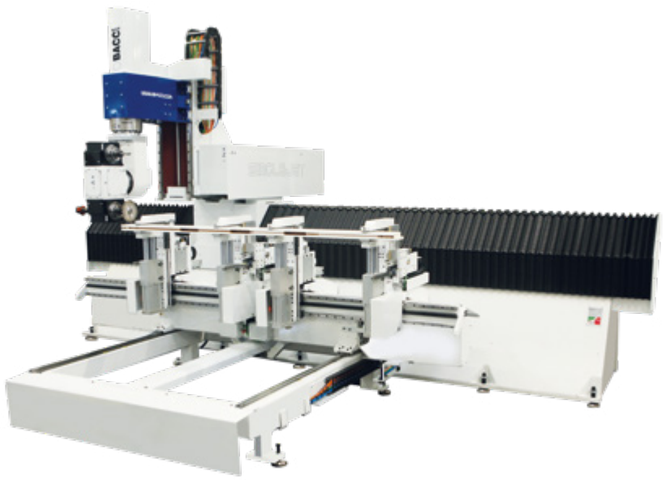
technical data

Number of controlled axis	12
Longitudinal X axis	7.200 mm
Transversal Y axis	1.300 mm
Vertical Z axis	750 mm
A Axis	unlimited
C Axis	+/-180°
Table length	3.000 mm

EVOJET.*LINER*

SINGLEJET.*LINER*

5-AXIS CNC MACHINING CENTER



Info

SINGLEJET.*LINER*, the entry level 5 axis cnc machine of the **LINER**.*SERIES* is equipped with multi spindles operating unit, 1 working table with 4 motorizes reinforced pneumatic clamps for heavy duty machining operations and a manual loading system (automatic as option).
SINGLEJET.*LINER* is suitable for the production of doors elements in BATCH ONE thanks to the PITAGORA parametric programming software and the fast positioning of the motorized clamps.

technical data

Number of controlled axis	5
Longitudinal axis X	3.740 mm
Transversal axis Y	1.300 mm
Vertical axis Z	750 mm
Axis A	unlimited
Axis C	+/-200°
Table length	3.000 mm

SINGLEJET.*LINER*

MASTER.*JAMB*

5-AXIS CNC MACHINING CENTER

Info

MASTER.*JAMB* is a 5-axis machining center equipped both with rails and pods for the machining of panel doors or assembled doors, and special reinforced pneumatic clamps for door jambs.
The working table setup of the **MASTER**.*JAMB* is fully automatic managed by the parametric software Pitagora, through the operating unit. The multiple spindles operating head can equip 3 tools simultaneously and also aggregates to reduce tool changing time and speed up the cycle.

technical data

Number of controlled axis	6
Longitudinal axis X	2.600 mm
Transversal axis Y	4.500 mm
Vertical axis Z	750 mm
Axis A	unlimited
Axis C	+/-200°
Table size	3.000 x 1.200 mm

MASTER.*JAMB*

EVO.*JAMB*

12-AXIS CNC MACHINING CENTER

Info

EVO.*JAMB* is a double heads, twin tables 12-axis CNC machining center for the production in batch one of door jambs. The working tables have reinforced pneumatic clamps with motorized superfast positioning and NC positioning of fences along Y direction managed by the Pitagora Software (patented) to manage randomly different parts length and width. Automatic loading/off-loading with robots available on request.

technical data

Number of controlled axis	12
Transversal Y axis	1.300 mm
Head transversal Y axis	1.000 mm
Vertical axis Z	750 mm
Max part length	3.000 mm
A Axis	unlimited
C Axis	+/- 200°

EVO.*JAMB*

ONE.*SERIES*

COMPLETE PROCESSING WITH
AUTOMATIC RECLAMPING
FOR **STRAIGHT** AND **CURVED ELEMENTS**

Chair component by **Karimoku New Standard**, Japan

MASTER.*MAX*

56-AXIS CNC MACHINING CENTRE

XIA[18]
XYLEXPO INNOVATION AWARDS

Info

MASTER.*MAX* is a 56-axis CNC machining center with double heads, one for each side of the gantry frame, which are able to work simultaneously on separate tables that reclamp two different parts in masked time. Heavy duty jig-less pneumatic clamps are numerically controlled in all directions (X, Y, and Z) for an immediate set-up that makes the machine perfect for “one-batch” productions of both straight and curved parts. A dedicated version for windows & doors elements is also available.

technical data

Number of controlled axis	56
Vertical Z axis	750 mm or more
A axis	unlimited
C axis	400°
Max part length	1400 mm or more

MASTER.*MAX*

MASTER.*ONE*

41-AXIS CNC MACHINING CENTRE

Info

MASTER.*ONE* is a 41-axis CNC machining center with double heads, one for each side of the gantry frame, which are able to work simultaneously on separate tables that exchange the part for a complete process with only 1 set-up. Heavy duty jig-less pneumatic clamps are numerically controlled in all directions (X, Y, and Z) for an immediate set-up that makes the machine perfect for “one-batch” productions of both straight and curved parts. A dedicated version for windows & doors elements is also available.

technical data

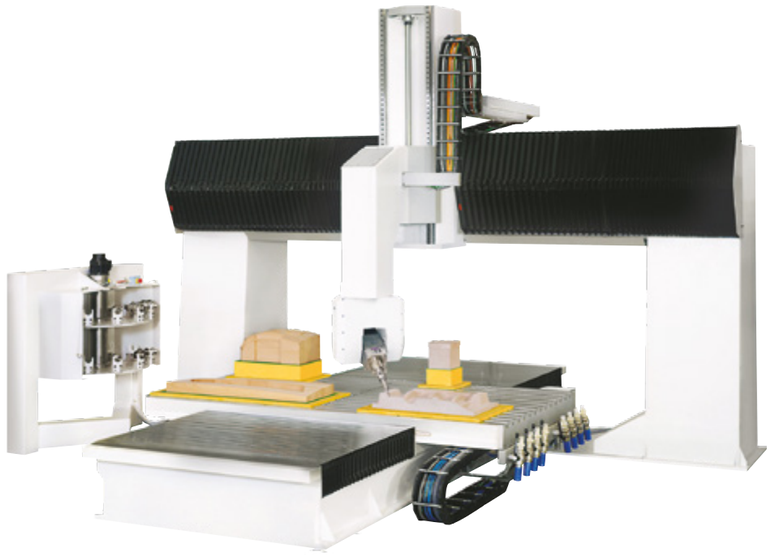
Number of controlled axis	41
Vertical Z axis	750 mm or more
A axis	unlimited
C axis	400°
Max part length	1400 mm or more

MASTER.*ONE*

ADVANCED.*SERIES*

MASTER.*ADVANCED*

5-AXIS CNC MACHINING CENTER



Info

MASTER.*ADVANCED* is an extremely rigid and accurate 5-axis CNC machining center ideal to work wood, plastic, resins, composite materials, and also aluminum in high speed finishing.
Spindle and table configurations can be customized based on specific requests and applications.

technical data

Number of controlled axis	5
Longitudinal X axis	3.600 mm or more
Transversal Y axis	2.600 mm or more
Vertical Z axis	1,300 mm or 1,500 mm
B Axis	270°
C Axis	400° (optional unlimited)

ENHANCED ACCURACY FOR **ALUMINUM** AND **COMPOSITES**

Audi R8 resin model by **Novem Car**, Germany

MASTER.*ADVANCED*

5-AXIS CNC MACHINING CENTER

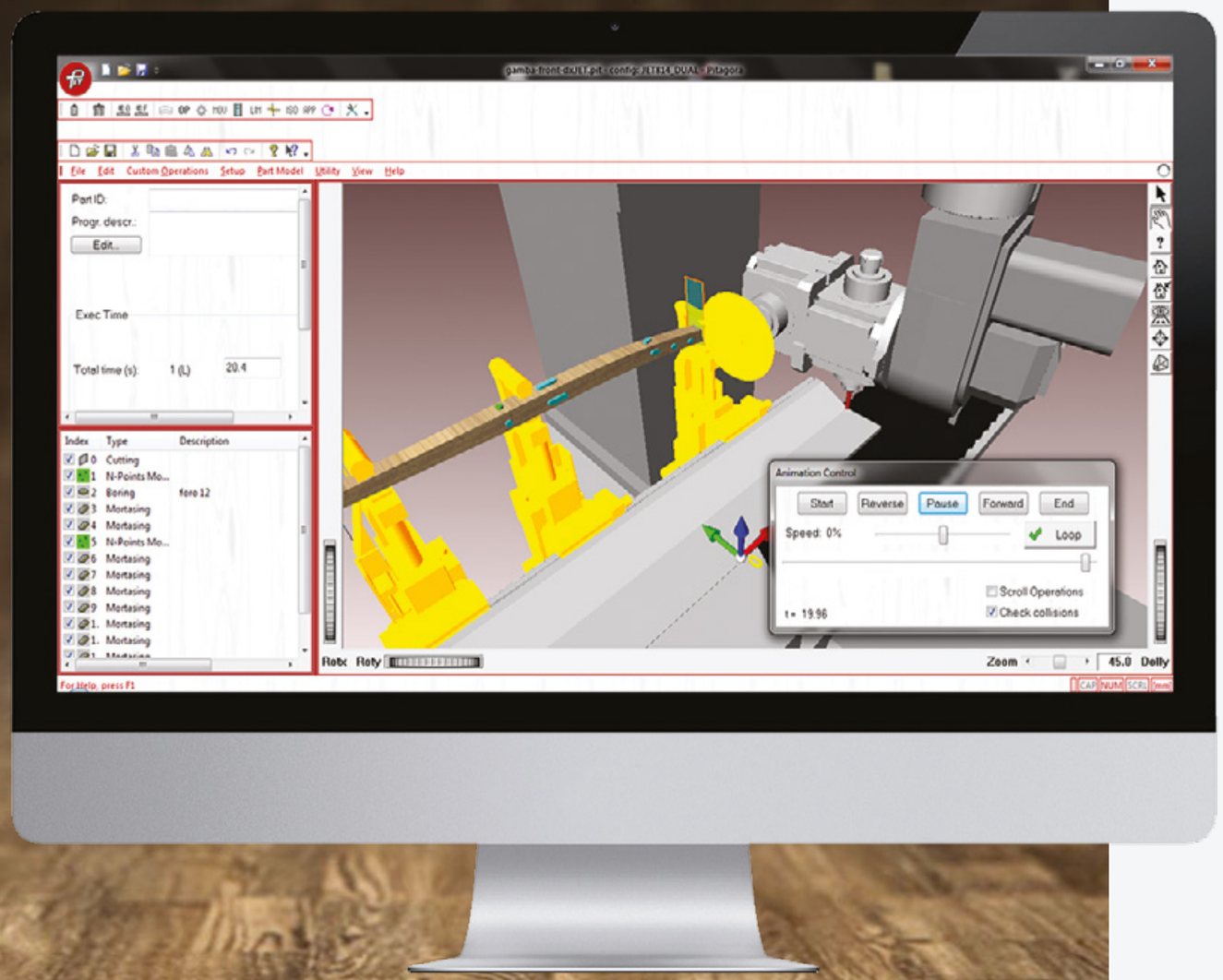
Info

MASTER.*ADVANCED* is an extremely rigid and accurate 5-axis CNC machining center ideal to work wood, plastic, resins, composite materials, and also aluminum in high speed finishing.
Spindle and table configurations can be customized based on specific requests and applications.

technical data

Number of controlled axis	5
Longitudinal X axis	3.600 mm or more
Transversal Y axis	2.600 mm or more
Vertical Z axis	1,300 mm or 1,500 mm
B Axis	270°
C Axis	400° (optional unlimited)

MASTER.*ADVANCED*



ALL IN ONE SOFTWARE:

EASILY CONTROL YOUR CNC MACHINE

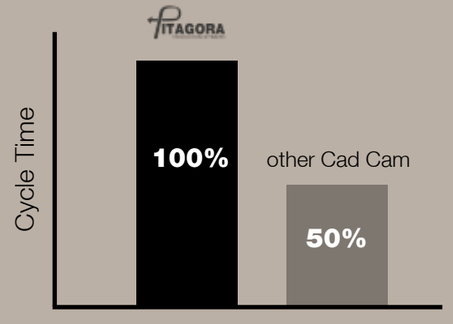
PITAGORA.*SOFTWARE*

PITAGORA
PRODUCTION OPTIMIZER

ALL IN ONE SOFTWARE: EASILY CONTROL YOUR **CNC MACHINE**

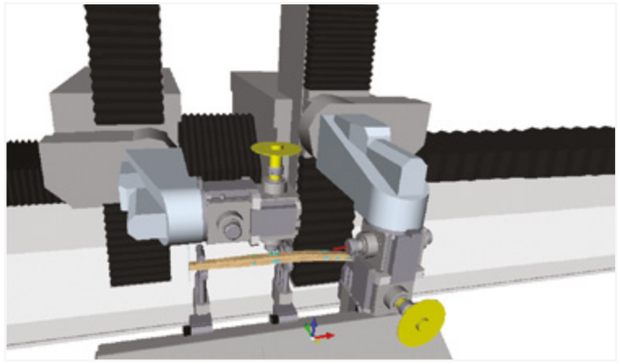
NO MORE **STOP**&**GO** *

*What makes PITAGORA unique is the exclusive MSP (Machine Status Prediction) function used to generate NC programs. The MSP system allows you to eliminate stand-by time ("stop & go" movements), decelerations, and synchronizations. *When utilized, this can create a considerable reduction of cycle times well over 50% compared to the programming performed with conventional CAD / CAM systems.*



3D SIMULATION: **NO MORE ERRORS!**

The 3D simulation includes all the main machine elements: the machine itself, its clamping devices, and the parts models. Correct programming is verified by a 3D simulation of all machine movements and an effective display of all tool paths involved in the machining process. These features ensure complete advance control of all collision risks.



PARAMETRIC PROGRAMMING

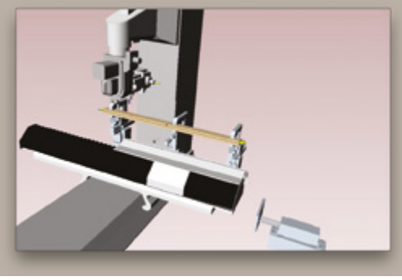
PITAGORA has many features that help the programmer minimize the programming time. Here some of them:

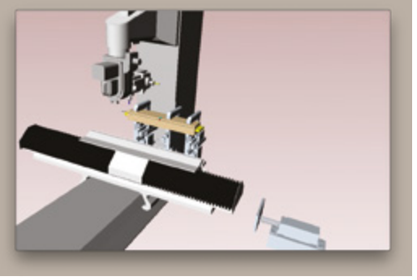
AUTOMATIC "PATH-FINDER", allowing the automatic identification of the best possible tool movements in terms of the time required between one operation and the next one, thereby avoiding possible collisions.

MULTI REFERENCE ORIGINS. With PITAGORA it's possible to use an infinite number of relative origins in order to refer or to offset the single parametric operation with the most convenient reference point.

PARAMETRIC PROGRAMMING of EACH SINGLE OPERATION to create bores, mortises, tenons, and finger joints. This feature is called MMO (Modular Machining Operations).

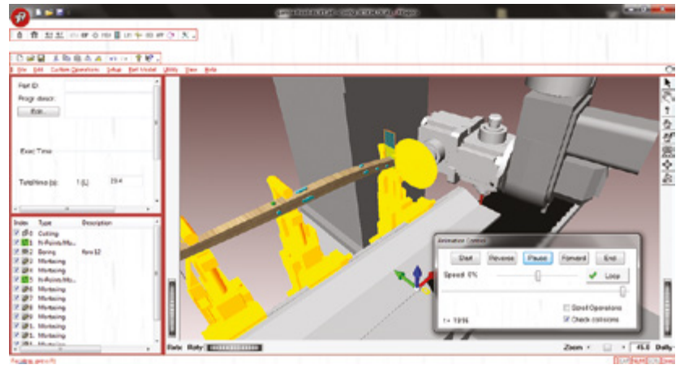
NEW PARAMETRIC PROGRAMMING OF LINKED MULTIPLE OPERATIONS. Not only is the single operation parametric, but now it's possible to parameterize and link multiple operations. The modification of one parameter will modify also all the other linked operations.





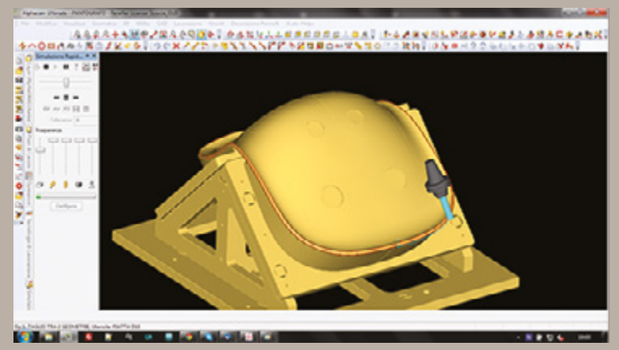
USER-FRIENDLY INTERFACE

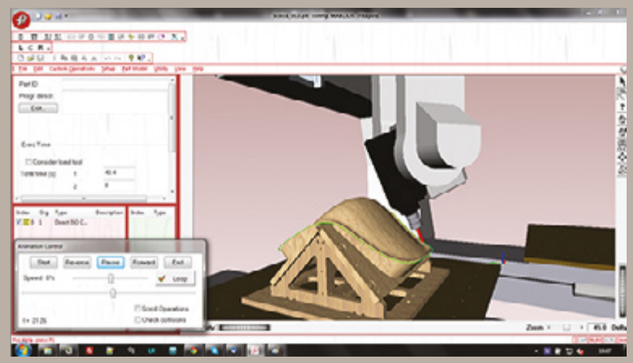
Learn the software features with only a few days of training!
Up to 78%* reduction of the programming time and the cycle is automatically optimized!
**Comparative studies have shown that even a non-expert programmer can produce a piece-program using PITAGORA in less than 15 minutes; with other software the program generation process takes well over 90 minutes, and still does not achieve the same level of optimization that is automatically attained with PITAGORA.*

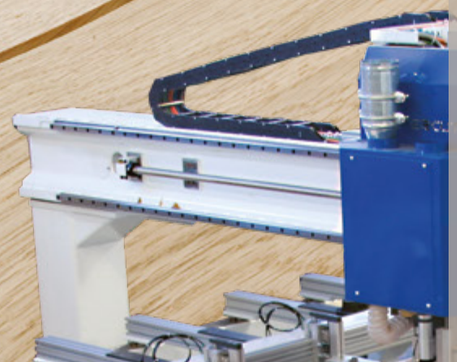


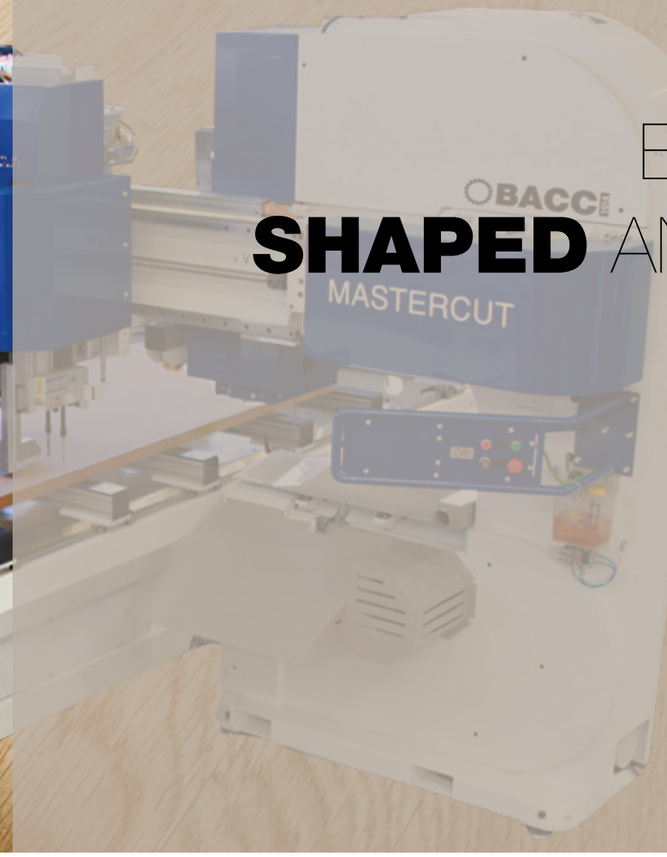
OPTIMIZATION OF OLD AND NEW PROGRAMS

PITAGORA is equipped with a complete series of CAD tools to program 4- and 5-axis machining and may also be interfaced with the most commonly used CAD/CAM systems, directly importing machining programs, 3D models of pieces, tools, and clamps. In this way, old programs may be reused and optimized, thus capitalizing on the PITAGORA advantage by reducing cycle times.









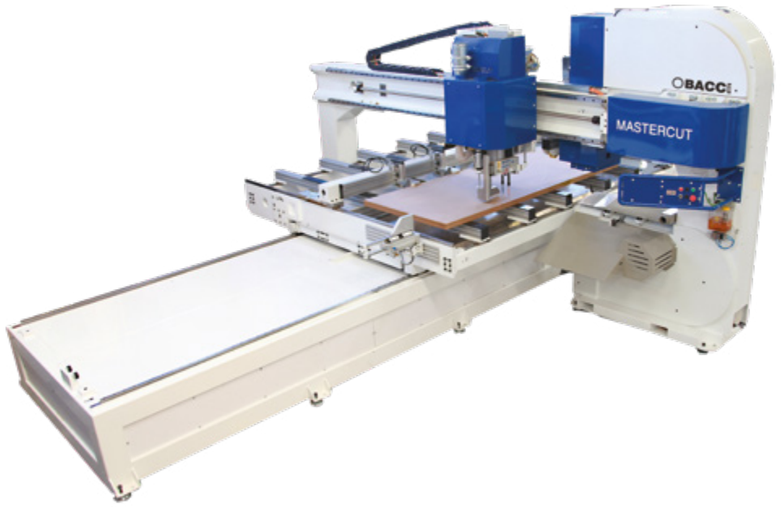
BAND SAWS FOR **SHAPED** AND **THIN CUTS**

CUTTING.*DIVISION*

Parquet Curv8 by **Bole Floor**, Estonia

MASTER.*CUT*

CNC BAND SAW WITH ROUTER UNIT



Info

The CNC **MASTER**.*CUT* cutting center combines the advantages of a band saw with the flexibility of CNC 3-axis routers. This machining center can be equipped with also multiple boring unit, in addition to the 3-axis router spindle.
Clamps can hold multiple stacked panels up to 150 mm.

technical data

C axis blade rotation	±90°
Cutting length	2.500 mm / 3.100 mm (optional)
Loading depth	1.550 mm / 2.200 mm (optional)
Cutting depth	750 mm
Cutting height	0 ÷ 150 mm
Minimum cutting radius	65 mm*

* with blade 13mm width

MASTER.*CUT*

DUPLEX.*CNC*

CNC BAND SAW

Info

DUPLEX.*CNC* is a numerically controlled automatic band saw specifically designed for the cutting of timber boards.
Wooden boards may be optimized with different cuts in sequence based on the type of wood, the size and the defects.

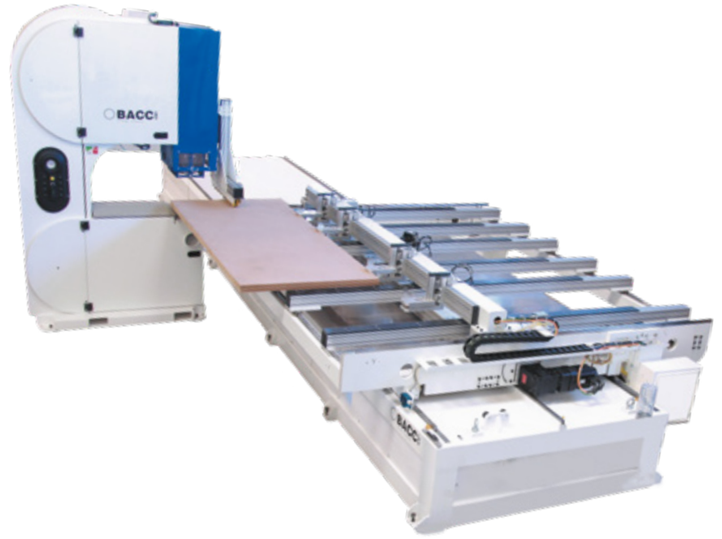
technical data

Cutting length	1.300 mm ÷ 2.000 mm (optional)
Loading depth	1.000 mm
Cutting height	150 mm
Cutting angle	± 90°
Minimum radius	80 mm

DUPLEX.*CNC*

ATLANTIS

CNC BAND SAW



Info

ATLANTIS is a CNC band saw cutting center equipped with 3 interpolated axes (X, Y, C) to create curved cuts on pieces of any size. Clamps can hold multiple stacked panels up to 150 mm.

technical data

C axis blade rotation	±90°
Cutting length	0 ÷ 1.500/2.500/3.000 mm
Loading depth	1.350 mm/1.500/2.100 mm
Cutting depth	750 mm
Cutting height	0 ÷ 150 mm
Minimum cutting radius	50 mm*

ATLANTIS

** According with the blade equipped*

STREAM

AUTOMATIC HORIZONTAL BAND SAW

Info

STREAM is an automatic horizontal band saw able to cut lamellas for wood engineered floors, parquet flooring, laminated veneer, elements for packaging, matchboard and much more (e.g. non-wooden materials). Operating control of **STREAM** is done by means of a touch screen panel with a user friendly interface.
The heavy-duty steel structure to avoids vibrations and guarantee high reliability along the time. The cutting unit is characterized by flywheels of large diameter (710 mm, 800 mm optional), which rotate on oversized hubs.

technical data

Maximum cutting width	325 mm
Minimum piece length	350 mm
Maximum cutting height	80 mm / 100 mm optional
Piece height	3 – 150mm
Main motor	18.5 KW
Blade tensioning	Automatic servo-hydraulic
Blade width	27 or 54 mm
Conveyor forward feed	Inverter controlled

STREAM

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BACCI 1918 MECCANICA