MASTER 850-1200

UNIVERSAL CNC WORKING CENTRE FOR STONE

INTERMAC

THE PERFECT COMBINATION OF POWER AND PRECISION

THE MARKET CALLS FOR

a change in production processes to meet the ever growing request for personalised products that satisfy customers' specific needs.
This is coupled with the need to maintain high quality standards whilst offering product customisation with quick and defined delivery times.

INTERMAC RESPONDS

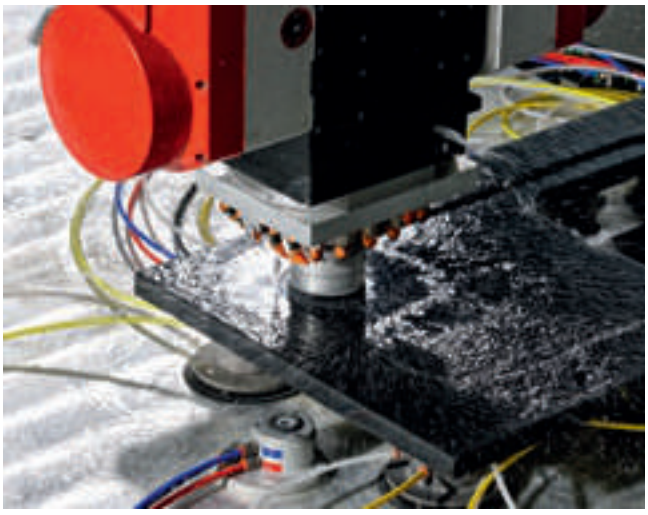
with technological solutions that enhance and support technical expertise and knowledge of processes and materials. The **Master 850-1200** range represents the evolution of large Intermac machining centres for the machining of sheets, slabs and blocks of natural and composite stone. The uniqueness of this machine is that it can achieve a very high quality finish not just on sheets but on slabs and blocks as well. It's the ideal "all in one" solution for marble processing applied to construction, monumental, funerary and architectural projects.

MASTER 850-1200

- EXTREME POWER AND MAXIMUM PRECISION FINISHING
- STURDY AND ROBUST WITH ELEVATED LOAD CAPACITY FOR BLOCKS OF GRANITE, MARBLE AND STONE
- ELEVATED PERFORMANCE THANKS TO CONTINUED MACHINING OPERATIONS WITH NO INTERRUPTIONS
- MAXIMUM MOVING SPEED TO REDUCE WAIT TIME.

MAXIMUM PRECISION FINISHING FOR KITCHEN TOPS

The Master 850-1200 range is the perfect synthesis of extreme power and precise, high-quality finish, an ideal solution that offers the utmost flexibility for machining sheets.



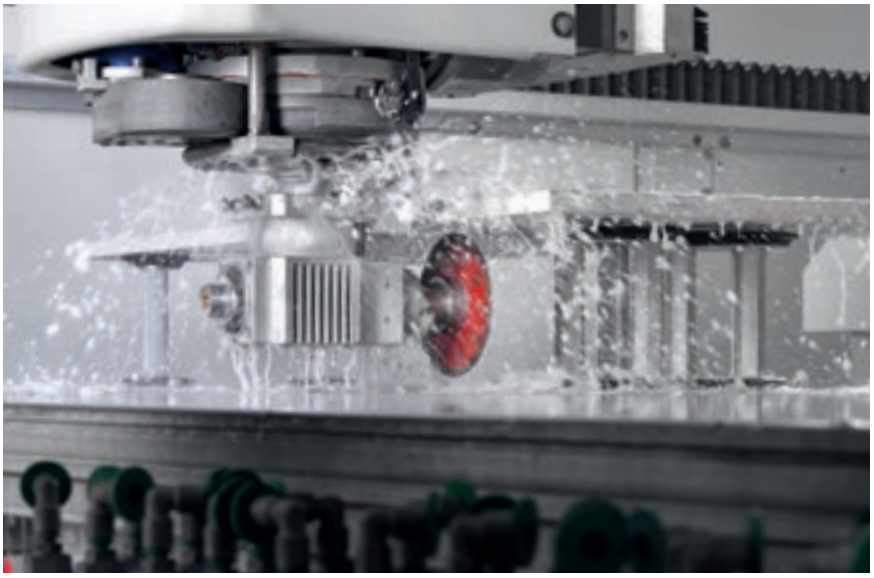
Flutes and recesses on kitchen tops, even with a tilted table.

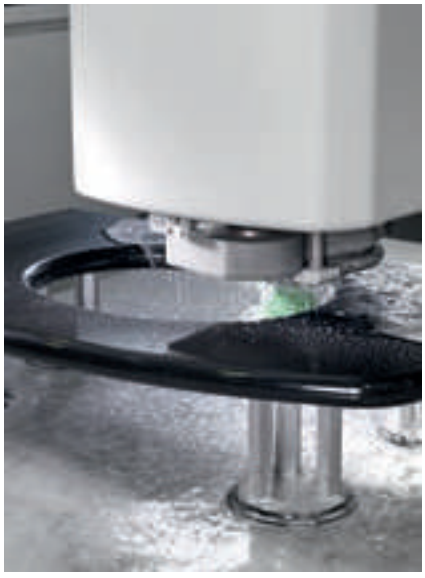
Cup grinding of the external edge.

IDEAL FOR MACHINING SLABS AND CREATING KITCHEN TOPS

- Recesses
- Polished grinding
- Milling
- Cup grinding

CUP GRINDING
POLISHING AND CREATION OF SQUARE HOLES





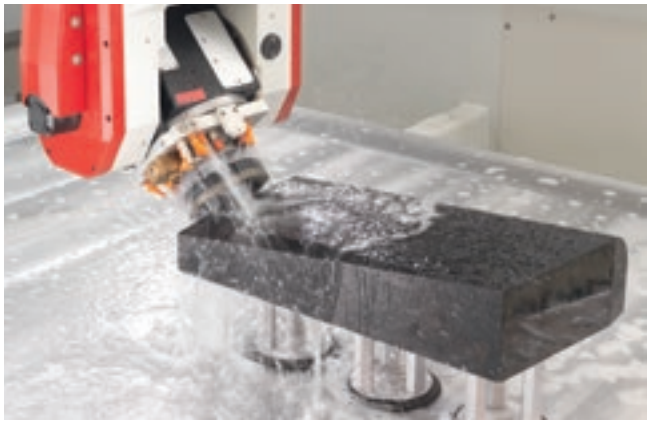
EASY AND RAPID SHAPING OF SLABS AND BLOCKS

The extreme ease and speed with which slabs and blocks are shaped - thanks to a powerful electrospindle that can drive a disc with a max diameter of 625 or 1000 mm paired with extra long tools - guarantees a high quality finish even when brushing, milling and polishing shaped or convex profiles and surfaces facing different directions.

Grinding and polishing the edge of the slab.

5-axis finishing.

Polishing of rounded profiles on slabs.



Bevel with variable angle.

PERFECT FOR 5-AXIS MACHINING ON SMALL SLABS FOR FUNERAL ART

POWERFUL AND PRECISE FOR MACHINING BLOCKS AND TUBS

Disc cut at any angle.

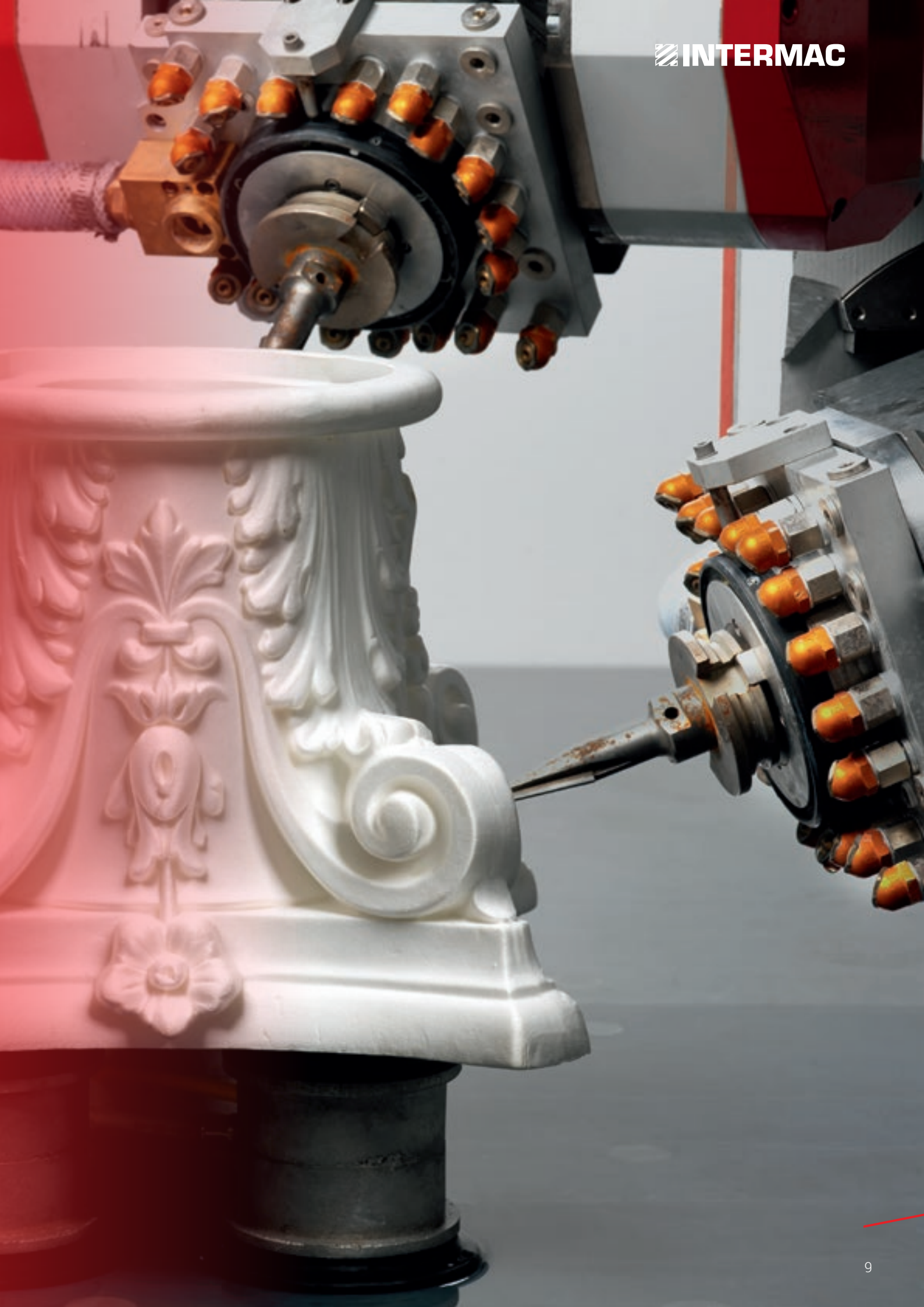
The solid, hi-tech, 5-axis operating head is perfectly capable of handling more complex machining (e.g. fountains, monuments, tubs, railings and capitals) with disc-shaped milling cutters and can, at the same time, create kitchen tops and handle machining of sheets with the renowned quality of Intermac Machining Centres.

INNOVATION

5-AXIS TECHNOLOGY

High level technology for the best results and extremely easy to use.

The 5-axis head with endless rotation C axis and tilting A axis (from -90° to +90°) ensures excellent flexibility and pushes the limit for the execution of complex machining operations.



STURDY AND ROBUST

Sturdy and extremely robust with elevated load capacity for blocks of granite, marble and stone.

Work table
Steel frame and solid refaced aluminium surface. Low surface to simplify loading with a forklift or jumper carriage. Special care for the comfort of the operator, who can access the surface from all sides and easily get to the tool magazine.

Fast and precise movement of axes
Movements are carried out using a helicoidal rack and double pinion to ensure precision and durability.
An automatic device for automatic lubrication of the guides and of the rack guarantees the enduring reliability of all moving parts.

Maximum speed of movement up to 60 m/min with acceleration to minimise wait times.

Disc saw ideal for shaping blocks and for typical machining of slabs
The Master 850 and 1200 can be equipped with one or two discs with a diameter of 625 mm (Master 850) or 1000 mm (Master 1200). The safe and completely automatic disc changing operation and the presence of the disc don't limit the working area in any way.

ELEVATED PERFORMANCE

Thanks to a completely automatic system, the extremely rapid and simple mechanical presetter allows for the precise and completely updated measurement of tools while machining, thereby avoiding any error by the operator.

Up to 59 tools
Several configurations are possible for the tool holder magazine, which can be expanded up to 59 positions, thereby ensuring that continuous machining operations can be programmed with no interruptions to load tools.

The cross-hairs laser guides the operator through the positioning of suction cups and stops, speeding up the preparation of the work surface.

The variable Z thickness tracer maintains a constant machining quality even on pieces with an irregular thickness.

EASYSTONE: ALL FUNCTIONS JUST A CLICK AWAY

EASYSTONE IS CAD/CAM SOFTWARE SPECIALISED FOR THE MACHINING OF MARBLE, GRANITE, STONE AND SYNTHETIC MATERIALS USING NUMERICAL CONTROL MACHINING CENTRES. IT IS WIDELY USED IN THE SECTOR AND ALLOWS FOR THE EXECUTION OF THE MOST COMMON MACHINING OPERATIONS ON STONE. COMPATIBLE WITH THE EASYSTONE PACKAGES ALREADY INSTALLED AND FEATURES A FLEXIBLE CONFIGURATION TO MEET THE CUSTOMER'S NEEDS.

- **Simple and intuitive**
  It can even be used by individuals who don't have specialised computer skills: all functions are "just a click away".
- **Complete**
  Manages all aspects of CNC and machining operations, guiding the operator from the design to the arrangement of the pieces on the work table, to the optimisation of the tool machining workflow and the generation of machine programs.
- **Automated**
  The pieces to be created can be designed rapidly thanks to a library of parametric components. The automatic CAM module can pair the machining operations with the pieces automatically.
- **Ideal for all types of machining operations:**
  allows for the programming of all the typical machining operations used on stone, such as the shaping and polishing of edges, kitchen tops, bathroom unit tops, engraving, bas relief, shower trays, shaping and finishing solid slabs, using all types of tools.

Easy**STONE**

DESIGNED TO SIMPLIFY THE PROGRAMMING OF CNC MACHINING OPERATIONS FOR STONE, BRINGS OUT THE POTENTIAL OF THE MASTER RANGE.

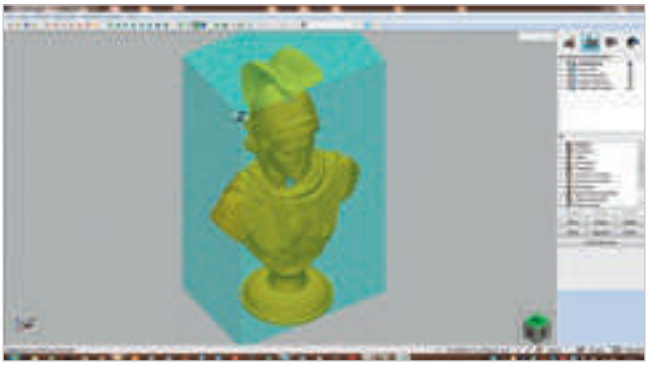
EASYSTONE: INTUITIVE AND IMMEDIATELY ACCESSIBLE INCLUDING BY LESS EXPERIENCED USERS

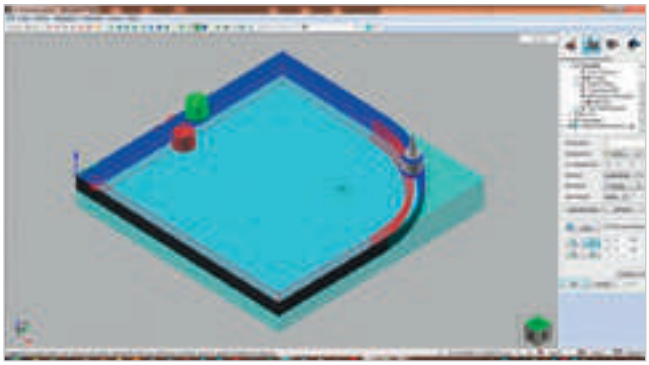
EASYSTONE MASTER - 3 AXIS

- Create and import 2D and 3D designs in the most widely used standard formats (.dxf, .stl, .iges).
- Program 2D machining operations for sheets: boring, milling, edgebanding, engraving, recessing, tracing.
- Program 3-axis machining operations for the emptying and finishing of solid pieces (shower trays, sinks, tubs, vases).
- Option of importing images in standard formats (.jpg, .bmp) and converting them into surfaces for the programming of bas relief and high relief machining operations.
- Simulates the removal of material.

EASYSTONE MASTER - 5 AXIS

Besides the EasySTONE Master 3-Axis functions, allows for the programming of 5-axis machining operations (bevels, capitals, statues).

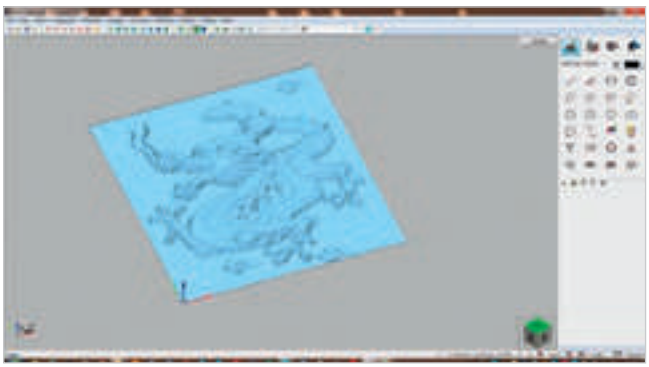


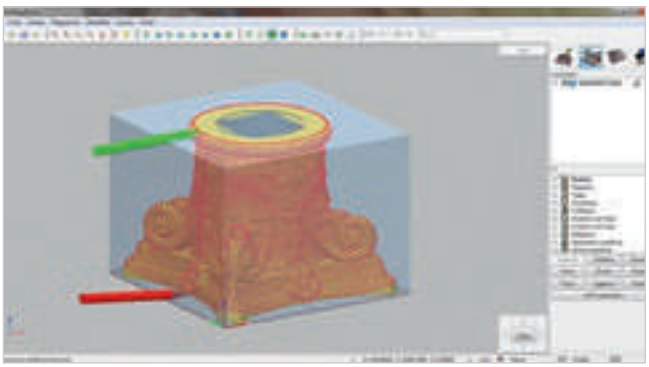


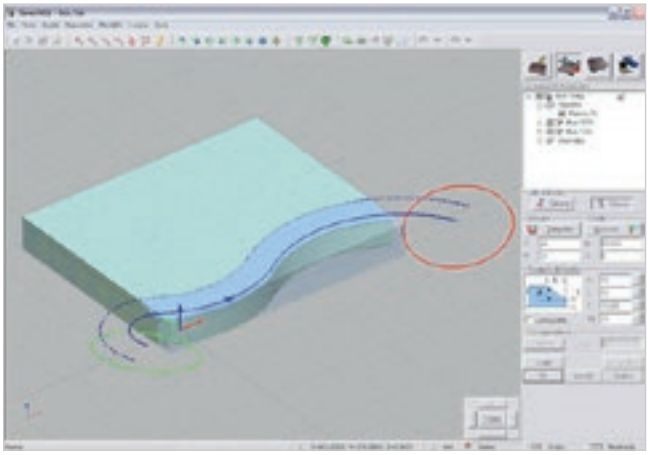
Easy**STONE**

OPTIONAL PACKAGES

- **Automatic CAM:** automatic pairing of machining operations with the pieces on the basis of rules defined by the user for design properties such as layer type of geometry.
- **Office station, multi-centre and network key:** option of generating different types of programs for the office and the Master from a single station beside the machine and of sharing the EasySTONE licence with up to 10 stations connected to the network.
- **Machining operations from below:** option of programming cutting and boring operations from below.

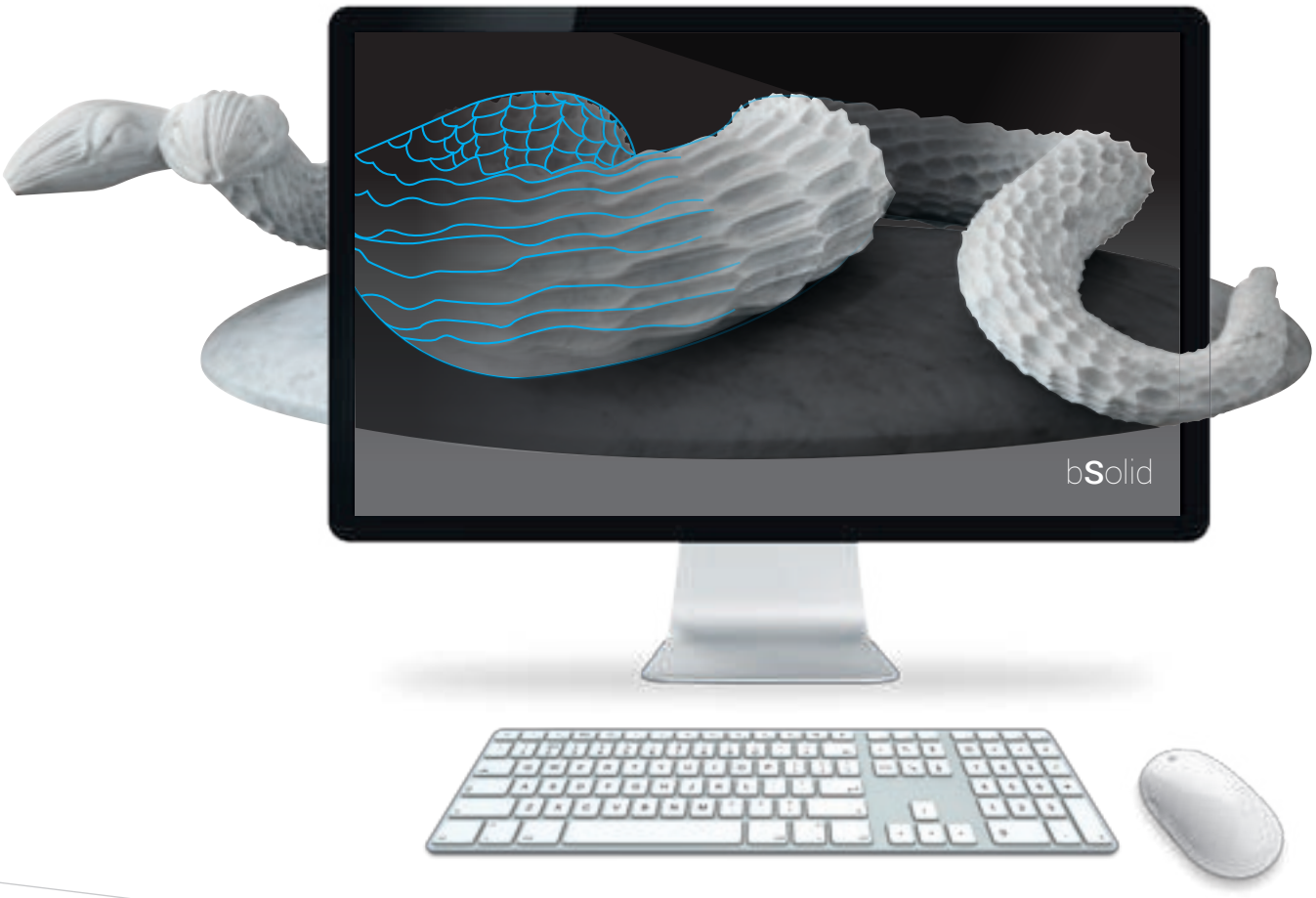






HIGH TECH BECOMES ACCESSIBLE AND INTUITIVE

MASTER MACHINES CAN BE EQUIPPED WITH BSOLID SOFTWARE. BSOLID IS FULLY PARAMETRIC 2D/3D CAD CAM SOFTWARE THAT PROVIDES A SINGLE PLATFORM CAPABLE OF CARRYING OUT EVERY TYPE OF MACHINING OPERATION, THANKS TO A WIDE RANGE OF FUNCTIONS DEDICATED TO THE SECTOR.



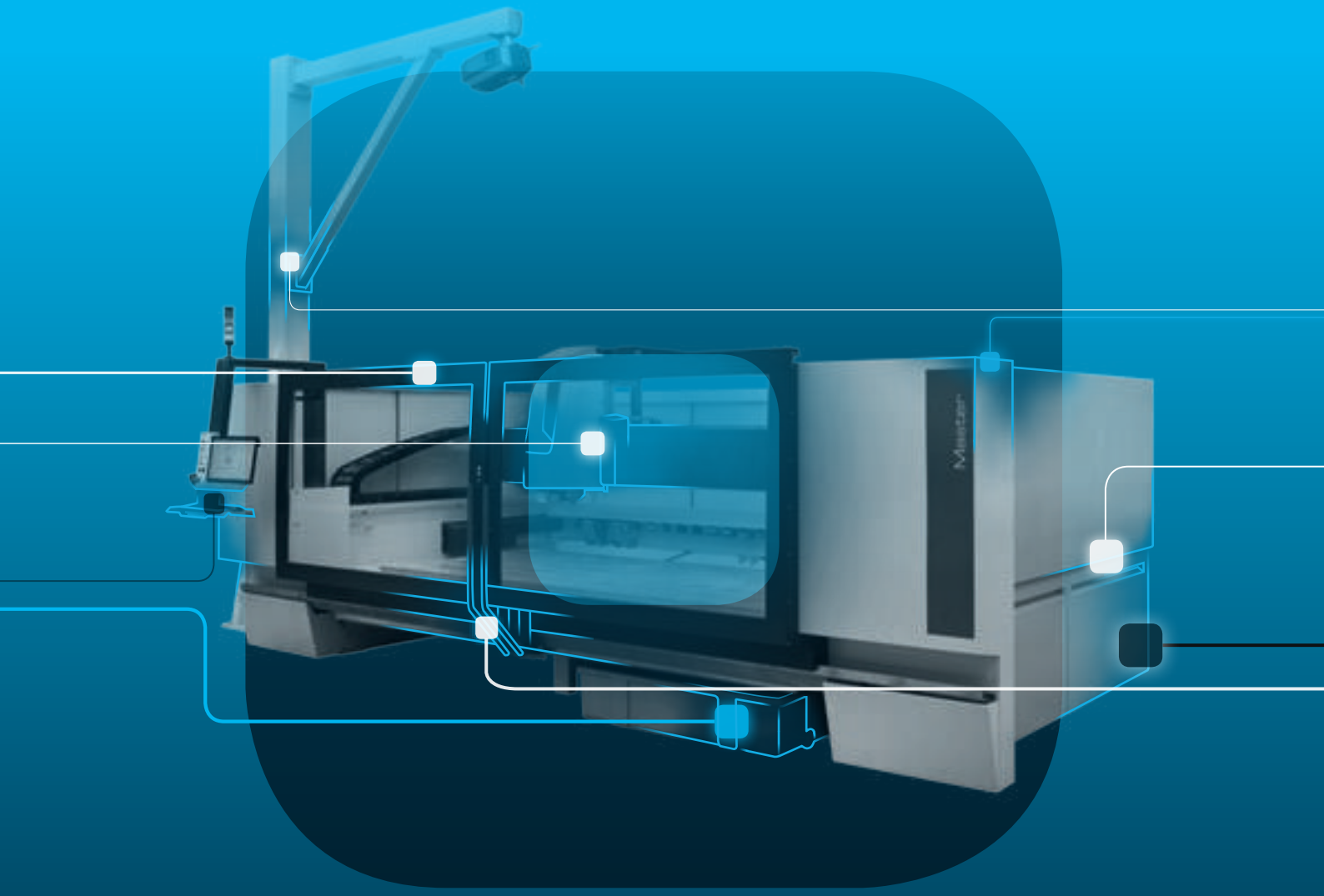
SIMPLE
AND INTUITIVE

The new, lightweight integrated console is easy to handle and extremely powerful and allows for rapid positioning of the head.

The use of a PC with Windows guarantees a particularly easy, user-friendly approach for the operator and full connectivity with network systems and the optic/magnetic supports available on the market.

SOPHIA

GREATER VALUE FROM MACHINES



SOPHIA is the IoT platform created by Intermac in collaboration with Accenture which enables its customers to access a wide range of services to streamline and rationalise their work management processes.

It allows alerts and indicators to be sent to the customer in real time, in relation to production, the machines used and the type of process carried out. These are detailed instructions for more efficient use of the machine.

- 10% CUT IN COSTS
- 50% REDUCTION IN MACHINE DOWNTIME
- 10% INCREASE IN PRODUCTIVITY
- 80% REDUCTION IN PROBLEM DIAGNOSTICS TIME

SOPHIA TAKES THE INTERACTION BETWEEN CUSTOMER AND SERVICE TO A HIGHER LEVEL.

IoT SOPHIA

IoT - SOPHIA provides a comprehensive overview of the specific machine performance features, with remote diagnostics, machine stoppage analysis and fault prevention. The service includes a continuous connection with the control centre, the option of calling for assistance from within the customer app (such calls are managed as priorities), and an inspection visit for diagnostic and performance testing within the warranty period. Through SOPHIA, the customer receives priority technical assistance.

PARTS SOPHIA

PARTS SOPHIA is the easy new, user-friendly and personalised tool for ordering Intermac spare parts. The portal offers customers, dealers and branches the chance to navigate within a personalised account, consult the constantly updated documentation of the machines purchased, and create a spare parts purchase basket indicating the real time availability in the warehouse and the relative price list. In addition, the progress of the order can be monitored at all times.

INTERMAC

in collaboration with accenture

SERVICE & PARTS

Direct, immediate coordination of service requests between Service and Parts. Support for key customers from specific Intermac personnel, in-house and/or at the customer's site.

INTERMAC SERVICE

- Machine and line installation and start-up.
- Training centre for Intermac field technicians and subsidiary/dealer personnel; customer training directly at the customer's site.
- Overhaul, upgrade, repairs and maintenance.
- Remote diagnostics and troubleshooting.
- Software upgrade.

85
Intermac field technicians in Italy and worldwide.

20
Intermac technicians working in Teleservice Centre.

35
certified dealer technicians.

50
training courses in a variety of languages every year.

The Biesse Group promotes, cares and develops direct and constructive relationships with the customers to meet their needs, improve after-sales products and services through two dedicated areas: Intermac Service and Intermac Parts. With its global network and highly specialised team, the company offers on-site and on-line assistance and spare parts for machines and components anywhere in the world, 24/7.

INTERMAC PARTS

- Original Intermac spare parts and spare parts kits customised to suit the machine model.
- Spare part identification support.
- Offices of DHL, UPS and GLS couriers located within the Intermac spare parts warehouse, with multiple daily pick-ups.
- Optimised order dispatch time, thanks to a global distribution network with de-localised, automated warehouses.

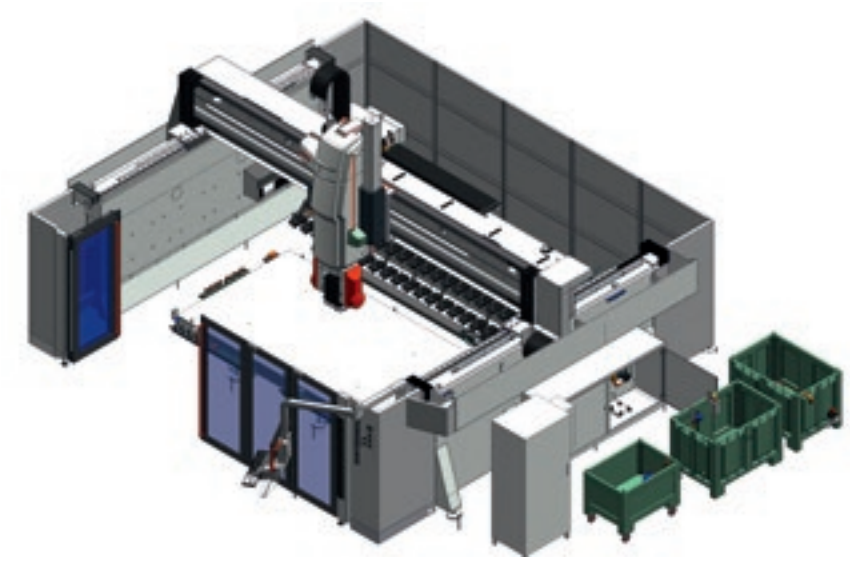
95%
of machine downtime orders dispatched within 24 hours.

95%
of orders dispatched on time.

30
spare parts staff in Italy and worldwide.

150
orders processed every day.

TECHNICAL SPECIFICATIONS



		MASTER 850	MASTER 1200
Work table size	mm	3500 x 2000	3500 x 2000
Work table height	mm	470	470
Z axis stroke	mm	850	1200
Axis runs for the spindle (X - Y)	mm	4200 x 2700	4200 x 2700
A axis rotation		-100° ÷ +100°	-100° ÷ +100°
C axis rotation		unlimited	unlimited
Maximum velocity for axes (X - Y - Z)	m/min	60 - 50 - 15	60 - 50 - 15
Maximum disc diameter	mm	625 (optional)	1000 (optional)
Tool holder connection		ISO 50	ISO 50
Tool magazine capacity		39 - 59 (optional)	33 - 42 (optional)
Engine power	kW	20 (S1)	30 (S1)
Max electrospindle rotation	rpm	10000	8000
Power required	kW	45	55

A COMPLETE RANGE FOR STONE MACHINING

INTERMAC.COM
DONATONI.EU
MONTRESOR.NET

INTERMAC

WATERJET


Primus 184


Primus series

WORK CENTRES


Master 23


Master One


Master 33.3 - 38.3 - 45.3
Master 33.3 Plus-38.3 Plus-45.3 Plus


Master 33.5 Plus - 38.5 Plus - 45.5 Plus

UNIVERSAL WORK CENTRES


Master 850-1200

AUTOMATIC UNIVERSAL WORK CENTRES


Mastersaw 625 Double Table

TABLES FOR SINTERED MATERIALS CUTTING


Genius RS-A

DOUBLE EDGING MACHINE FOR SINTERED AND NATURAL MATERIALS


Busetti F Series

STORAGE AND HANDLING SYSTEMS FOR SINTERED MATERIALS


Navetta Lite

TOOLS FOR STONE


Diamut Tools

DONATONI
HIGH INNOVATION STONE MACHINES

BRIDGE SAW


Spin 625


Jet 625


Echo 725


Sprinter 825


Echo Twin

CUTTING LINES


SX-3 / SX-5


Echo Belt

MULTIFUNCTIONAL SAW CENTER


Quadrix DV 1100


Quadrix DG 1300/1600/2000

UNIVERSAL SAW CENTRES


Kronos 500/650/900

POLISHING AND CALIBRATING MACHINE


Zenit

SLABS LOADING/ UNLOADING


Geko

ROBOT


Cyberstone

MONTRESOR
EDGE POLISHERS - SINCE 1958

HORIZONTAL EDGE POLISHER FOR FLAT EDGES


Lola 6.4


Lola 8.6


Lola 10.8

HORIZONTAL EDGE POLISHER FOR FLAT AND TOROIDAL EDGE


Luna 7.4


Luna 8.6

VERTICAL EDGE POLISHER FOR FLAT EDGES


Vela 7.2

V-GROOVE


Viva 3.2

INDUSTRY 4.0 READY

Industry 4.0 is the latest industry frontier, based on digital technologies and machines that speak to the companies. The products can be interconnected with the production processes via smart networks.

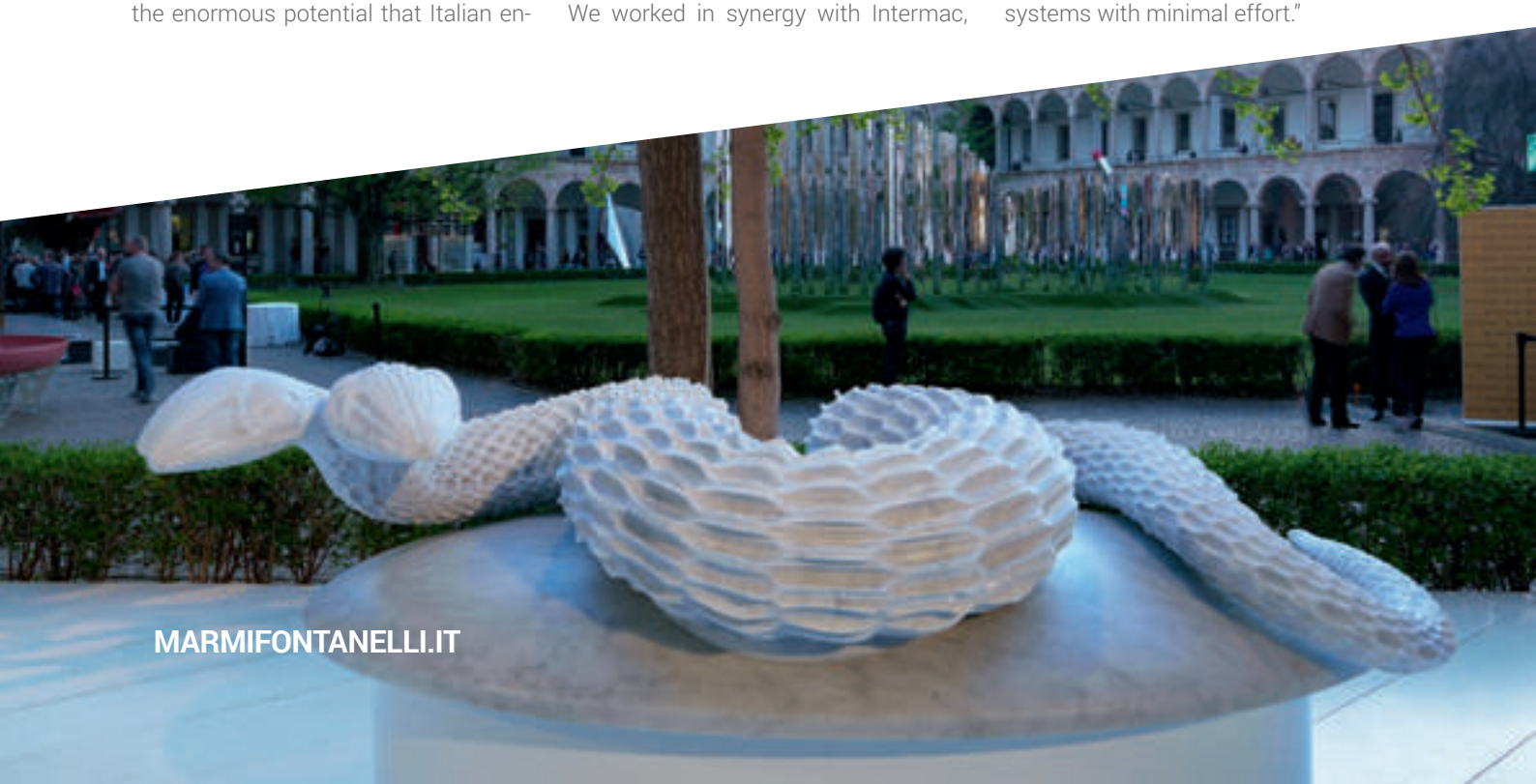
Intermac's commitment is to transform our customers' factories into real-time factories ready to guarantee digital manufacturing opportunities, with smart machines and software packages becoming vital tools that facilitate the daily tasks of people all over the world who machine glass, stone, metal and more. Our philosophy is a practical one: to supply entrepreneurs with solid data that can help them to lower their costs, optimise their processes and improve their results.

And that means being 4.0 ready.

MADE WITH INTERMAC

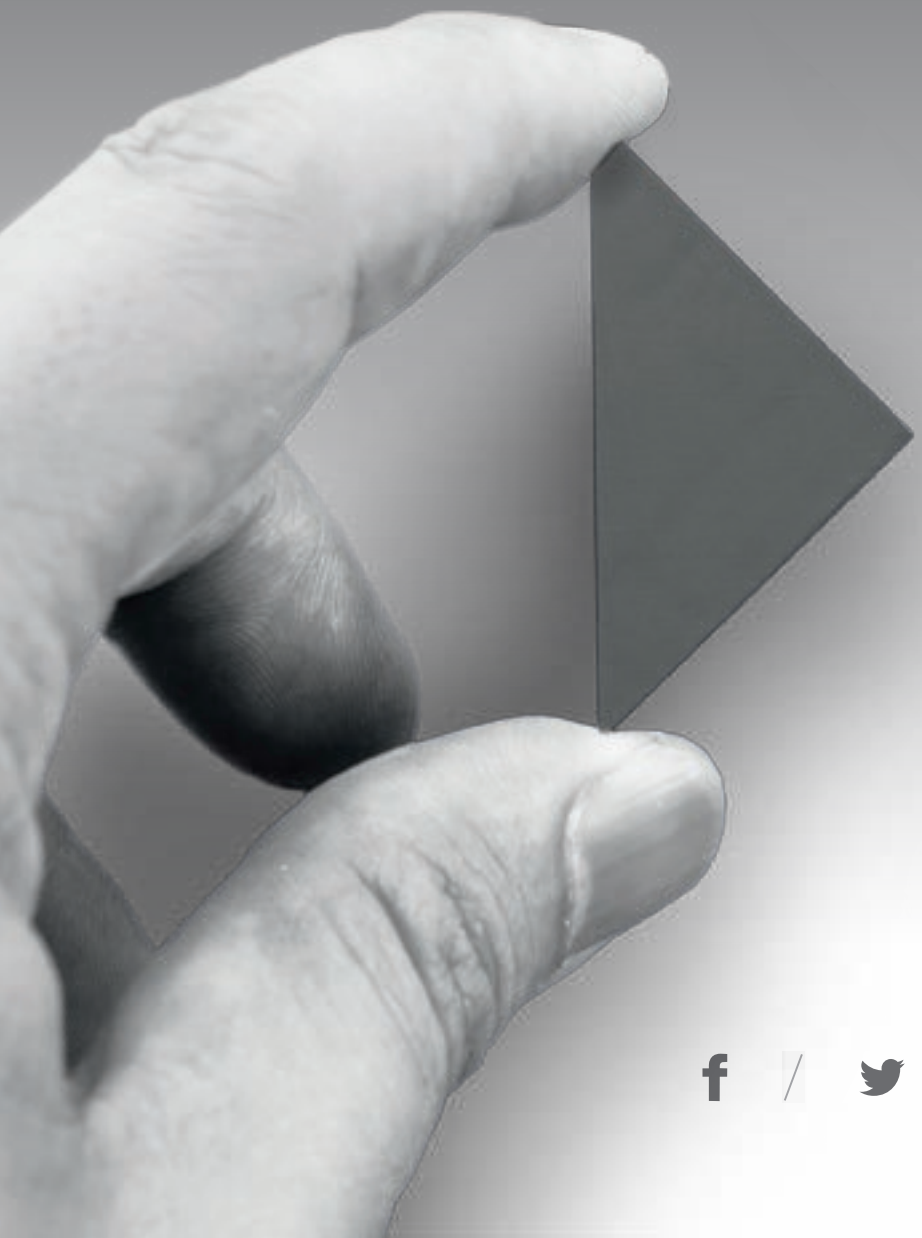
INDUSTRY AND ARTISANSHIP JOIN FORCES

The Bicefalo is a sculpture in white Carrara marble which was created in the spring of 2015, exclusively using a latest-generation Intermac machining centre with five axes: the Master 850. The work was created by Marmi Fontanelli, from Reggio Emilia, commissioned by Raffaello Galiotto, a renowned designer from Vicenza.
The final product was subject to 223 hours of machining (which corresponds to 38 km in total travelled by the Master 850 machine tools), not including the time spent on manual finishing. The end result is the most effective example of the enormous potential that Italian entrepreneurs represent, and their ability to foster surprising synergies between industry and crafts, design and art.
The Bicefalo, measuring around two and a half metres in length, made its first public appearance at the Fuorisalone event in Milan, during the Lithic Digital Design exhibition. It was subsequently installed within the Expo Milano 2015 area.
"In order to carry out this project," commented Claudio Fontanelli, "we pushed the Master 850 to new limits, placing the machining centre's five axes in positions that we thought were impossible. We worked in synergy with Intermac, and the company provided fundamental support for setting the 54 programs used for grooving and finishing. We had never carried out a project of this type before: a process of continuous consultation was therefore necessary in order to help us to fully exploit this machine's enormous potential.
What's more, Intermac's technology can be used by everyone: speaking from personal experience, I can guarantee that the machinery's bSolid management software allows any operator, even those without any particular computer skills, to get the most out of these systems with minimal effort."



MARMIFONTANELLI.IT

LIVE THE EXPERIENC



BIESSEGROUP.COM

Interconnected technologies and advanced services that maximise efficiency and productivity, generating new skills to serve better our customer.

LIVE THE BIESSE GROUP EXPERIENCE AT OUR CAMPUSES ACROSS THE WORLD.

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