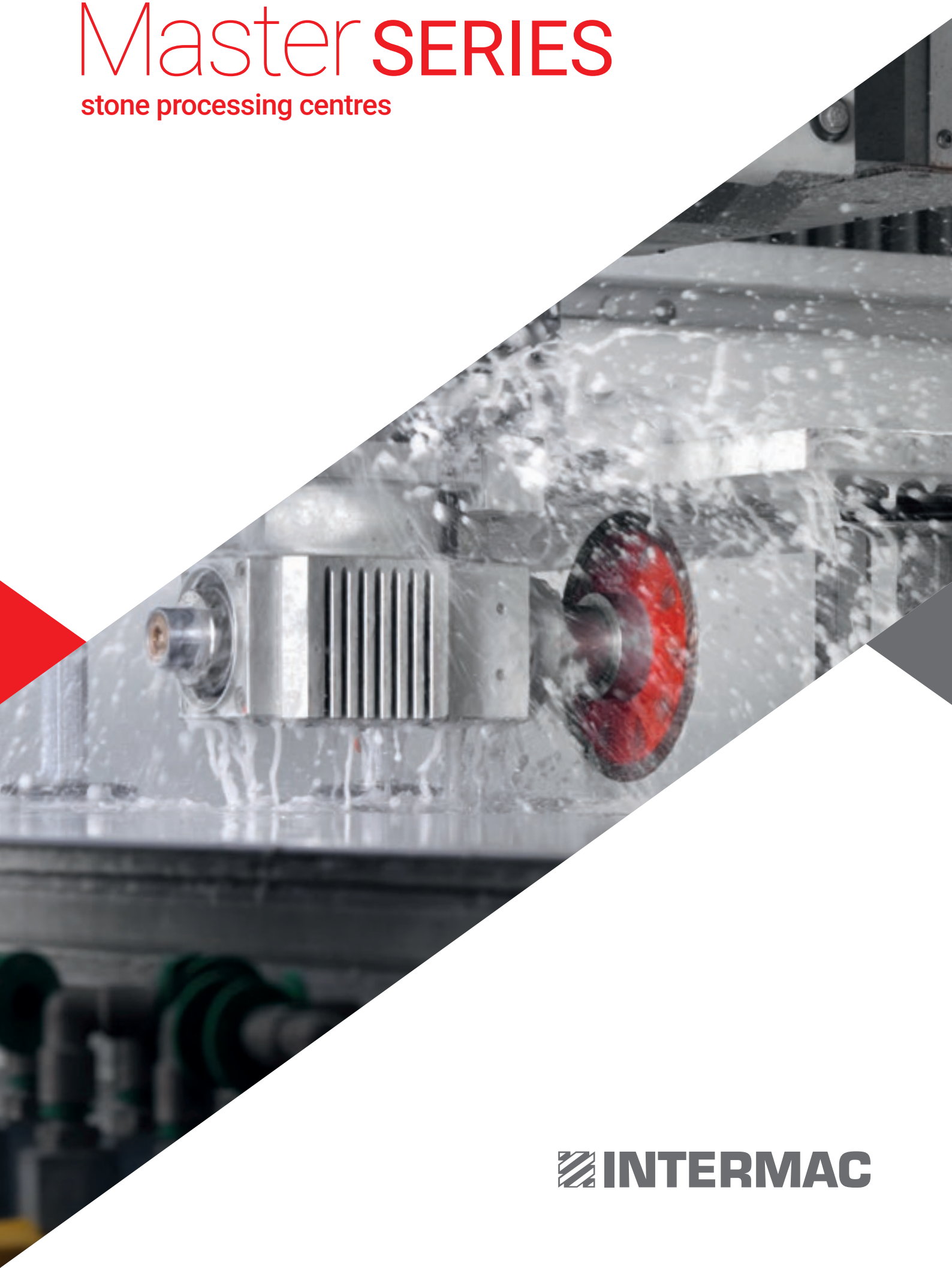
Master SERIES

stone processing centres



INTERMAC

When competitiveness means machines that keep abreast of the times

Made In Intermac

The market asks for

technology with long-lasting **reliability**, able to handle the new **ceramic and synthetic materials** to keep up with the latest ideas from the architects and designers.

Intermac answers

with a new range of processing centres with bases suitably sized to accommodate **sheets in the natural, ceramic and synthetic materials** used for floors, facades and coverings.

- **Maximum machining flexibility,** thanks to the wide choice of optional features.
- **Interface built into the CAD-CAM parametric,** so that all the operations can be carried out from within a single work environment.
- High degree of **integration with bridge saws**.

Quality without compromises

Master SERIES

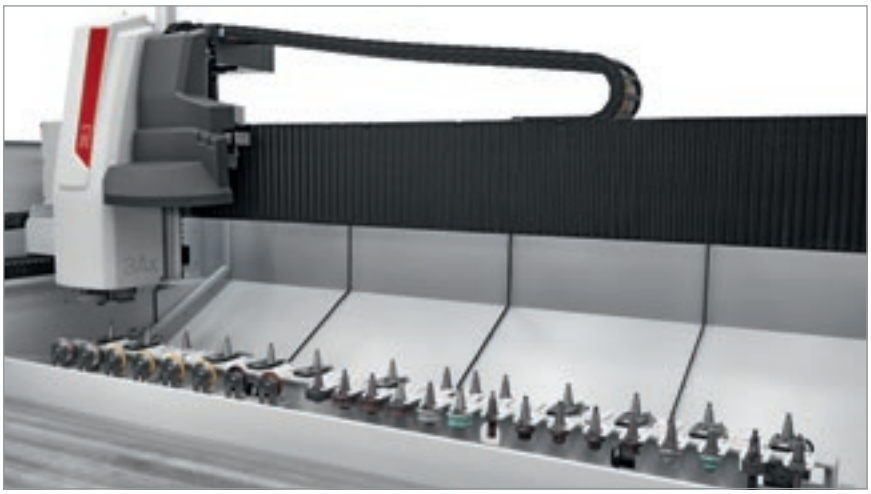
stone processing centres


38.3
Master

Ideal for every type of material

Master processing centres are designed to offer optimum finishing quality on sheets and blocks of natural and synthetic material.

Possibility to configure the machine in a "high table" or "low table" version, depending on the customer's requirements.



The rear tool change can store a wide selection of tools available in the machine, ready to carry out numerous machining operations.

8-position rotary magazine on the fly to drastically reduce change time on the most frequently used tools.

Magazine dedicated to tool change operations for aggregates, with magnetic change.

The operator is at the heart of the machine design

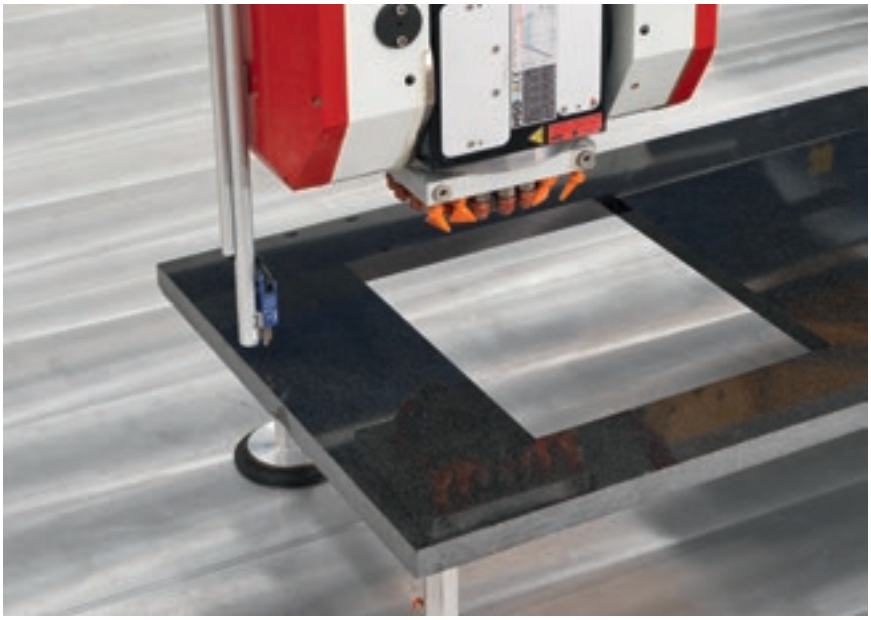
With Master processing centres, the operator is protected by doors that ensure:
- a high level of safety;
- separation from the machine moving parts
- a clean working environment (water and machining residues are not scattered around)
- less noise pollution.

The handbox makes it easier to control the machine operations.

Maximum ease of use

The new, integrated console is lightweight and easy to handle, yet extremely powerful.
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.

Everything you need for quick table set-up

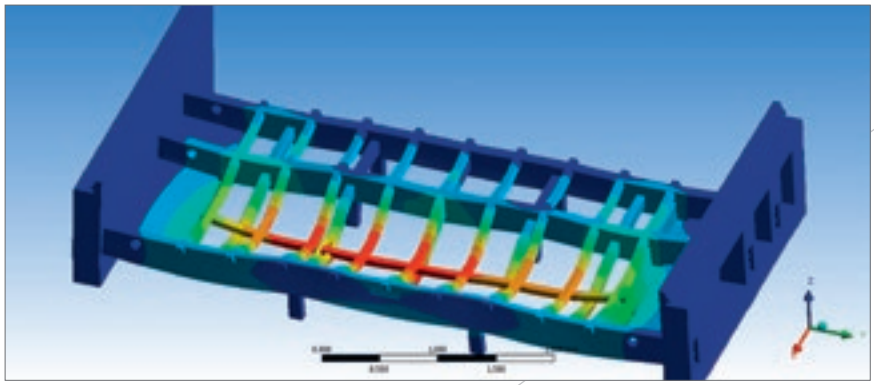


Thanks to the laser device on the head (optional), the piece can be positioned on the table without using mechanical stops, offering optimum precision and notable time-saving. Particularly handy in the case of large sheets that are heavy and take up the entire work area.

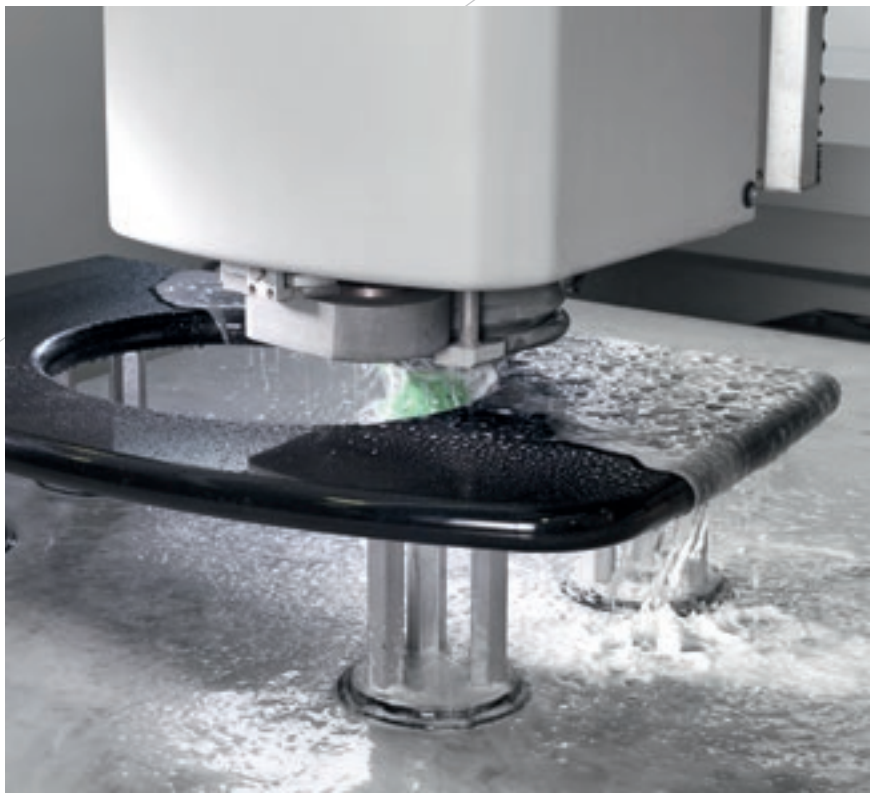
The cross laser (optional) guides the operator in the positioning of the suction cups and stops, speeding up the table set-up.

The laser projector (optional) reproduces the position of all the suction cups and pieces to be machined on the table, making it faster and easier to prepare the working area.

Reliability and top performance



All Intermac products are designed with a CAD program for solid modelling that simulates the dynamic stress generated during the machining operations and highlights any areas that need to be stiffened in order to ensure long-lasting reliability for the machine.



Spindle absorption is constantly measured by the NC, the pressure exerted by the tool on the piece is then proportionally adjusted to guarantee the best possible finish quality.

Master processing centres can also be set up in the Plus version for companies that need to work on particularly thick pieces.

The mechanical pre-setter verifies the degree of wear on the diamond tools (with a frequency set by the machine operator) and automatically updates the tool parameters in the machine control, thereby guaranteeing constant machining quality over time.

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

Drill bit redresser placed close to the working area enables immediate tool redressing.

3 axes, to bring your ideas to life

Infinite rotating C-axis, for the perfectly smooth and accurate execution of even the most complex machining operations.

Tilting T axis (± 2.5°) the execution of inclined recess drains on kitchen tops.

Cup grinding and polishing on the external profile and the internal squared hole, using an aggregate with magnetic tool change.

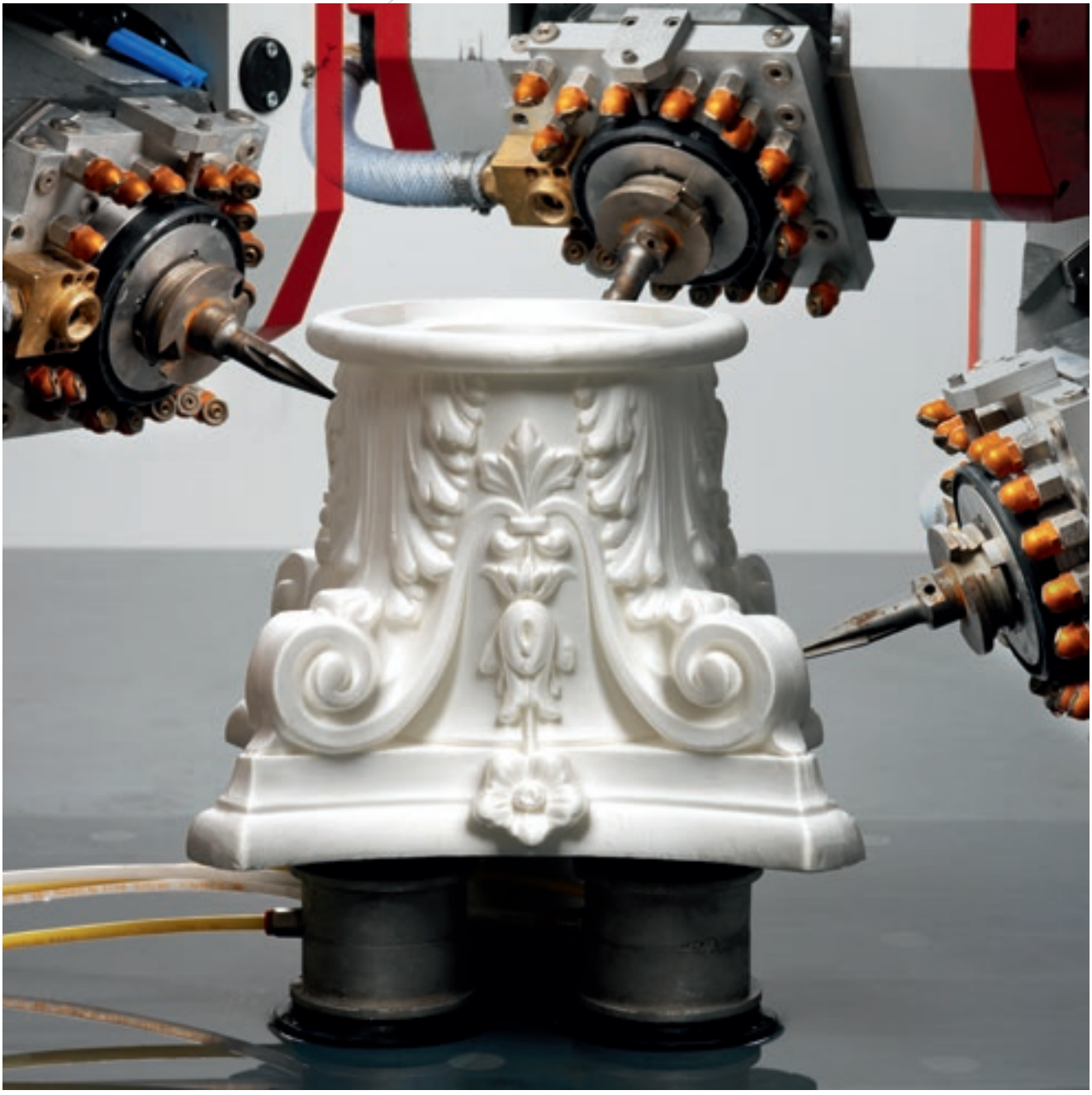
Flutes and recess drains on kitchen tops, even with inclined plane.

45° blade cutting for joints.

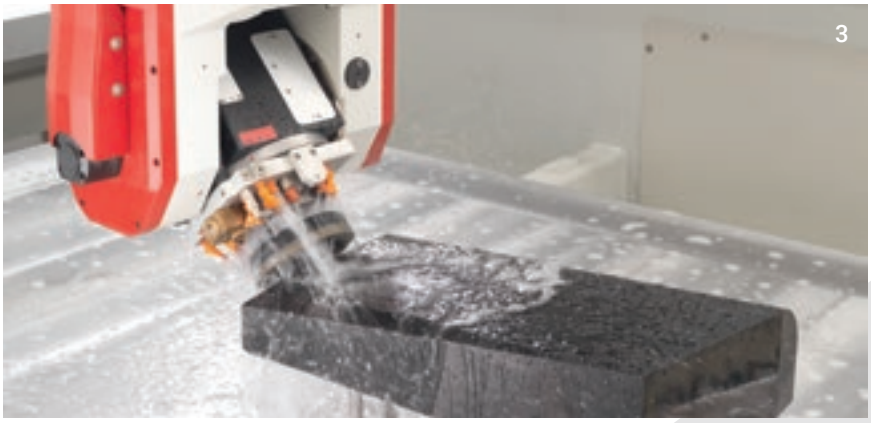
Aggregate for undercuts on kitchen tops.

5 axes, for endless possibilities

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



- **1** Saw blade for cuts of any degree (opt.)
- **2** Cup wheel polishing of round profiles on solids.
- **3** Bevel with variable angle.
- **4** Cup wheel grinding ef the external edges.



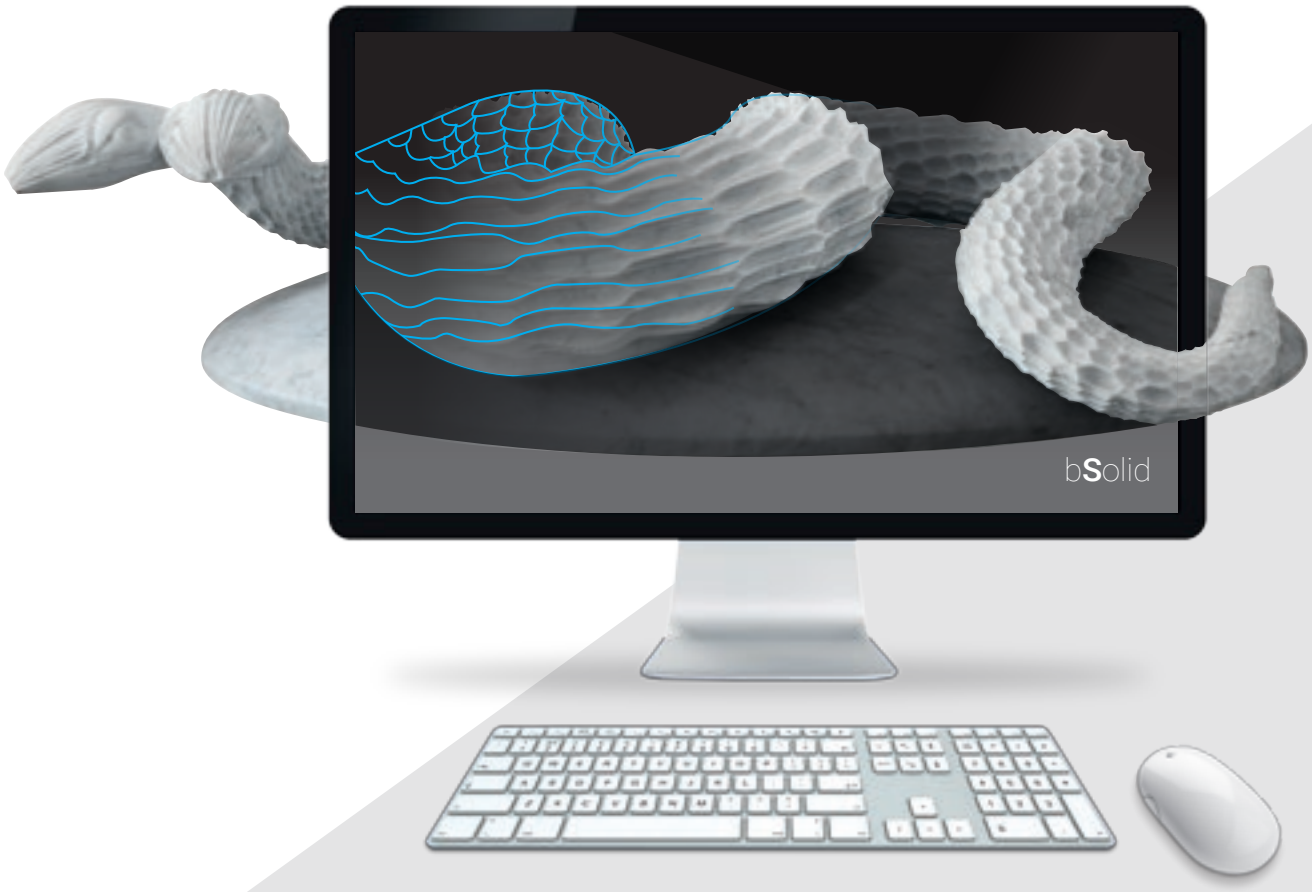
Technologically advanced solutions for any need

iCam

Designed to meet all Master machining centre programming requirements, making machining operations easier and faster.
Avant-garde solutions based on industry standards.

bSolid

bSolid is a 2D/3D CAD-CAM software application that is fully parametric. Through a single platform, it supports every type of machining operation, thanks to a wide range of functionalities designed specifically for the sector.



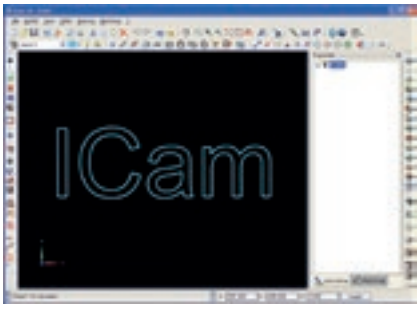
ICam: the simplest answer

With over 6,500 software packages installed and used with satisfaction by customers in 180 countries throughout the world, iCam is extremely reliable and robust, combining superb performance with maximum ease of use.

- **Ease of use.** A simple, powerful interface that facilitates and speeds up work.
- **Time-saving.** Stops and suction cups are positioned within the CAD/CAM environment, minimising setup times even when changes are made to the design.
- **Innovative.** Single interface for CAD and CAM environment.
- **Automated.** The parametric library and IDoors module enable operators to generate machining operations quickly and automatically, in accordance with the product to be produced.
- **Service quality.** Highly-skilled worldwide service network.

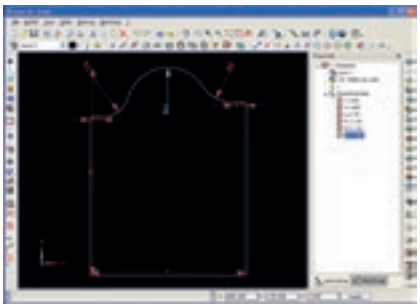
iCam

Design in just a few clicks, with endless possibilities



iCam

Windows-like Innovative CAD/CAM, completely developed by Intermac, it can even be installed on the PC work centre, extremely simple and intuitive to use.
The user has in one and only enviroment both CAD commands to easily draw the shapes to be reproduced and CAM commands in order to program the machining operation desired.
This program is intrinsically parametric because it is possible to modify the geometry of the shape keeping the machining already applied.

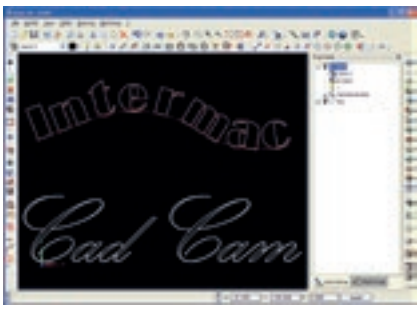


Integrated CAD

The CAD commands allow the interface towards other CAD through files in DXF format for 2D shapes or in STL format for 3D shapes; it also includes a large library of parametric shapes to draw directly the shapes to be processed that maintain their parametric features even during and after the programming of the process. The CAD contains also 3D drawing commands in order to show to the user the final piece before the processing.

Integrated CAM

The CAM section is extremely simplified: what I draw is what I get.
Allows to apply different processing to a draw either design on the ICam or provided by outside sources (architecture or projecting studies).
This allows the execution of a large and various tipology of pieces. In addition it is possible to view the entire processing cycle and the tool's path directly on the rendering even with multiple view.



iCam for engraving

ICam allows to execute writings with any Windows TTF font on any curve. It executes also 3D relief and engraved writings with automatic raising on the corners and between the close letters. It's also possible to carve any artistic design.

iCam Art

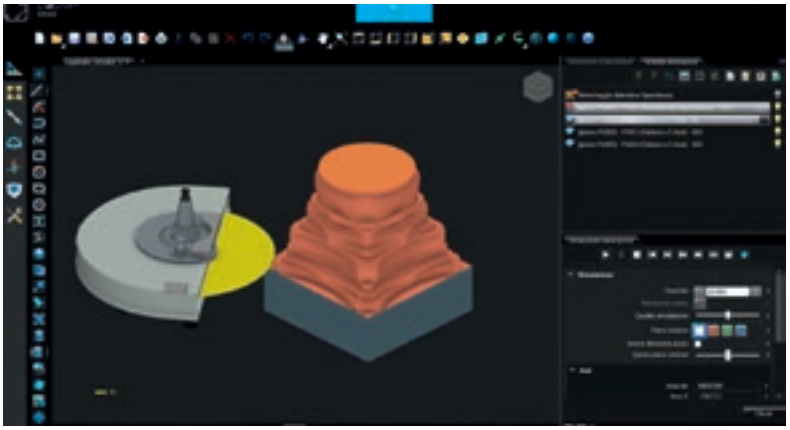
ICam function that allows the transformation of images coming from different sources (Bitmaps, JPG or other format and Laser 3D datas) into working surfaces.

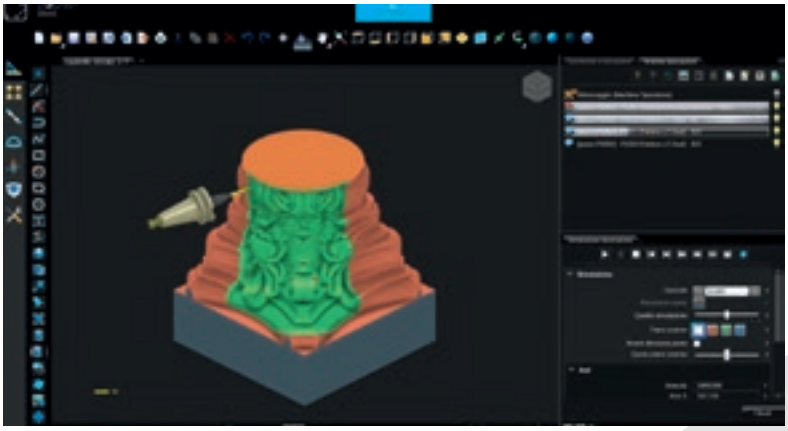
High-tech becomes accessible and intuitive

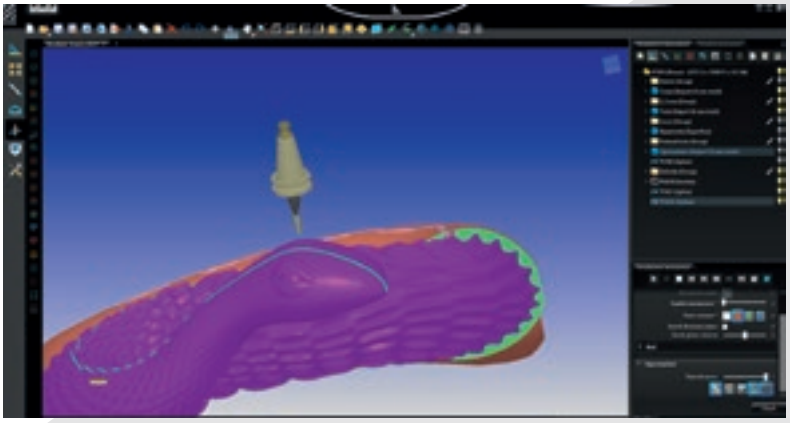
bSolid is the software that enables users to access sophisticated functionalities. The user only needs to set the dimensions and then - with few simple clicks - can visualise the product to be processed on a screen, together with all the operations needed to manufacture it.

- Parametric design in just a few clicks, with endless possibilities.
- Configuration and management of tools with complex shapes.
- Machining operation simulation and piece preview.
- **Innovative.** Single interface for CAD and CAM environment.

Machining operations with 5 interpolated axes







Machining operations with 5 interpolated axes: equipped with an advanced calculation engine, bSolid takes full advantage of the capabilities of the 5-axis processing centres. Machining operations with 5 interpolated axes can be programmed.

Technical data

Master (3 axes)

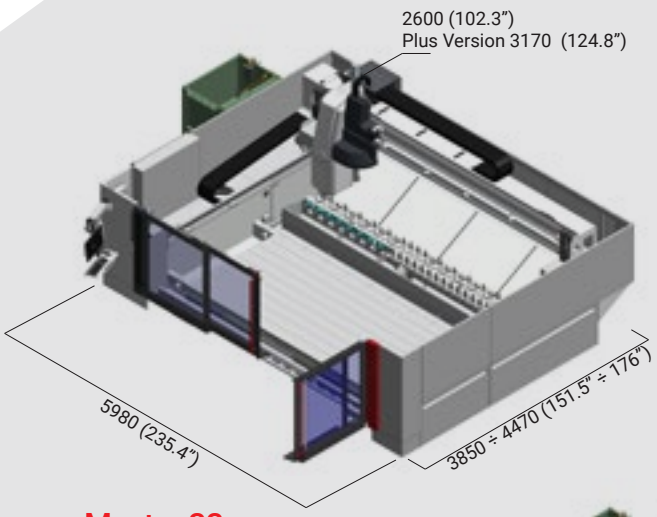
	Master 33.3	Master 38.3	Master 45.3
Maximum workable piece size (3-axis grinding with tool of diameter 100mm)	3300 x 1550mm	3800 x 2000mm	4500 x 2500mm
Z axis stroke	465mm	465mm	465mm
C axis stroke (optional)	∞	∞	∞
T axis stroke (optional)	+/-2.5°	+/-2.5°	+/-2.5°
Max axis speed (X, Y, Z)	60, 70, 18m/min	60, 70, 18m/min	60, 70, 18m/min
Work table height ("high table" version)	535mm (740)	535mm (740)	535mm (740)
Electrospindle power In S1 (S6)	15kW (18)	15kW (18)	15kW (18)
Max electrospindle rotation	12000rpm	12000rpm	12000rpm
Tool cone	ISO 40	ISO 40	ISO 40
Tool magazine (optional)	no. 45	no. 53	no. 61
Required power	22.5 kW - 30 HP	22.5 kW - 30 HP	22.5 kW - 30 HP
Weight	5800kg	6800kg	8600kg
Shipment by truck	complete semi-trailer (13.60m)	complete semi-trailer (13.60m)	special vehicle, without escort
Shipment via sea	container 40" OT	container 40" OT	wooden crate

Master (3 axes) Plus

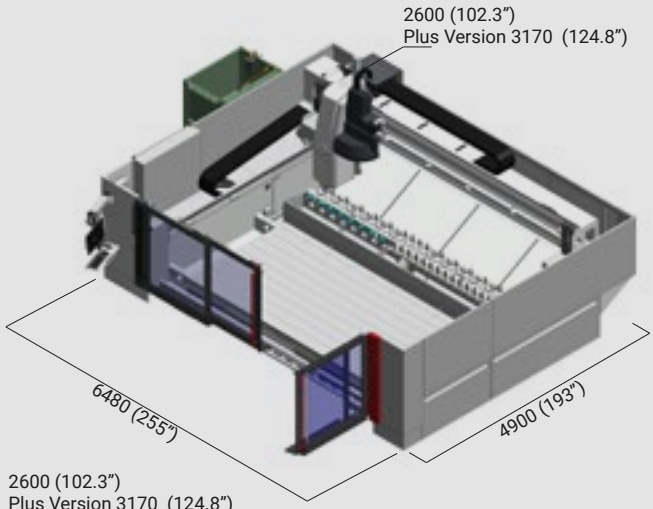
	Master 33.3 Plus	Master 38.3 Plus	Master 45.3 Plus
Maximum workable piece size (3-axis grinding with tool of diameter 100mm)	3300 x 1550mm	3800 x 2000mm	4500 x 2500mm
Z axis stroke	650mm	650mm	650mm
C axis stroke (optional)	∞	∞	∞
T axis stroke (optional)	+/-2.5°	+/-2.5°	+/-2.5°
Max axis speed (X, Y, Z)	60, 70, 18m/min	60, 70, 18m/min	60, 70, 18m/min
Work table height ("high table" version)	535mm (740)	535mm (740)	535mm (740)
Electrospindle power In S1 (S6)	15kW (18)	15kW (18)	15kW (18)
Max electrospindle rotation	12000rpm	12000rpm	12000rpm
Tool cone	ISO 40	ISO 40	ISO 40
Tool magazine (optional)	no. 45	no. 53	no. 61
Required power	22.5 kW - 30 HP	22.5 kW - 30 HP	22.5 kW - 30 HP
Weight	5800kg	6800kg	8600kg
Shipment by truck	complete semi-trailer (13.60m)	complete semi-trailer (13.60m)	special vehicle, without escort
Shipment via sea	container 40" OT	container 40" OT	wooden crate

Master (5 axes) Plus

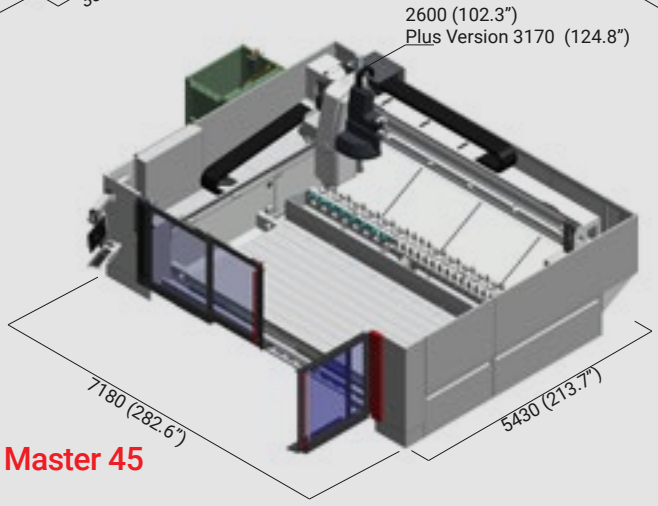
	Master 33.5 Plus	Master 38.5 Plus	Master 45.5 Plus
Maximum workable piece size (3-axis grinding with tool of diameter 100mm)	3300 x 1550mm	3800 x 2000mm	4500 x 2500mm
Z axis stroke	650mm	650mm	650mm
C axis stroke (optional)	∞	∞	∞
T axis stroke (optional)	+/-90°	+/-90°	+/-90°
Max axis speed (X, Y, Z)	60, 70, 18m/min	60, 70, 18m/min	60, 70, 18m/min
Work table height ("high table" version)	535mm (740)	535mm (740)	535mm (740)
Electrospindle power In S1 (S6)	15kW (18)	15kW (18)	15kW (18)
Max electrospindle rotation	12000rpm	12000rpm	12000rpm
Tool cone	ISO 40	ISO 40	ISO 40
Tool magazine (optional)	no. 45	no. 53	no. 61
Required power	22.5 kW - 30 HP	22.5 kW - 30 HP	22.5 kW - 30 HP
Weight	5800kg	6800kg	8600kg
Shipment by truck	complete semi-trailer (13.60m)	complete semi-trailer (13.60m)	special vehicle, without escort
Shipment via sea	container 40" OT	container 40" OT	wooden crate



Master 33



Master 38



Master 45

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