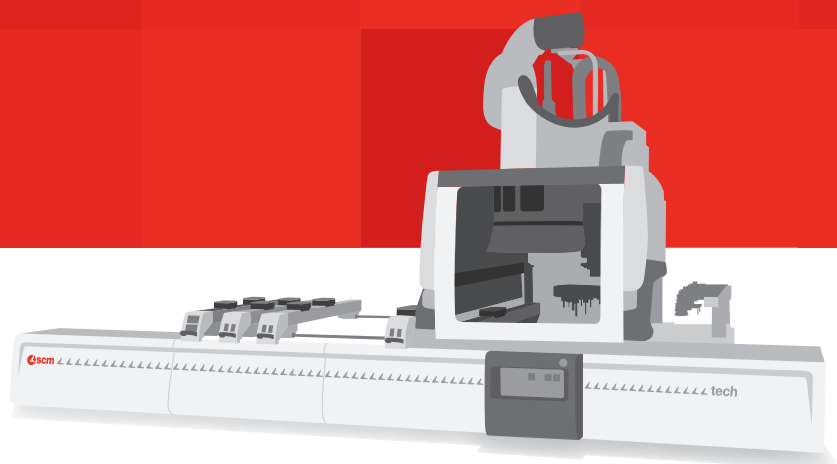




tech
cnc machining centres.



tech z5

tech z5

cnc machining centre with bars worktable.

- 5 axes
- “Prisma 5” flexibility of use
- “PRO-SPEED” protections

tech z2

tech z2

cnc machining centre with bars worktable.

- 3-4 axes
- customisation and flexibility
- “PRO-SPEED” protections

tech z1

tech z1

cnc machining centre with bars worktable.

- 3-4 axes
- ease-of-use
- “PRO-SPACE” protections



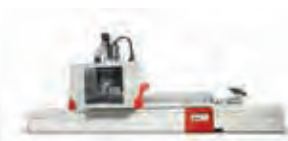
TECH Z5
page 04

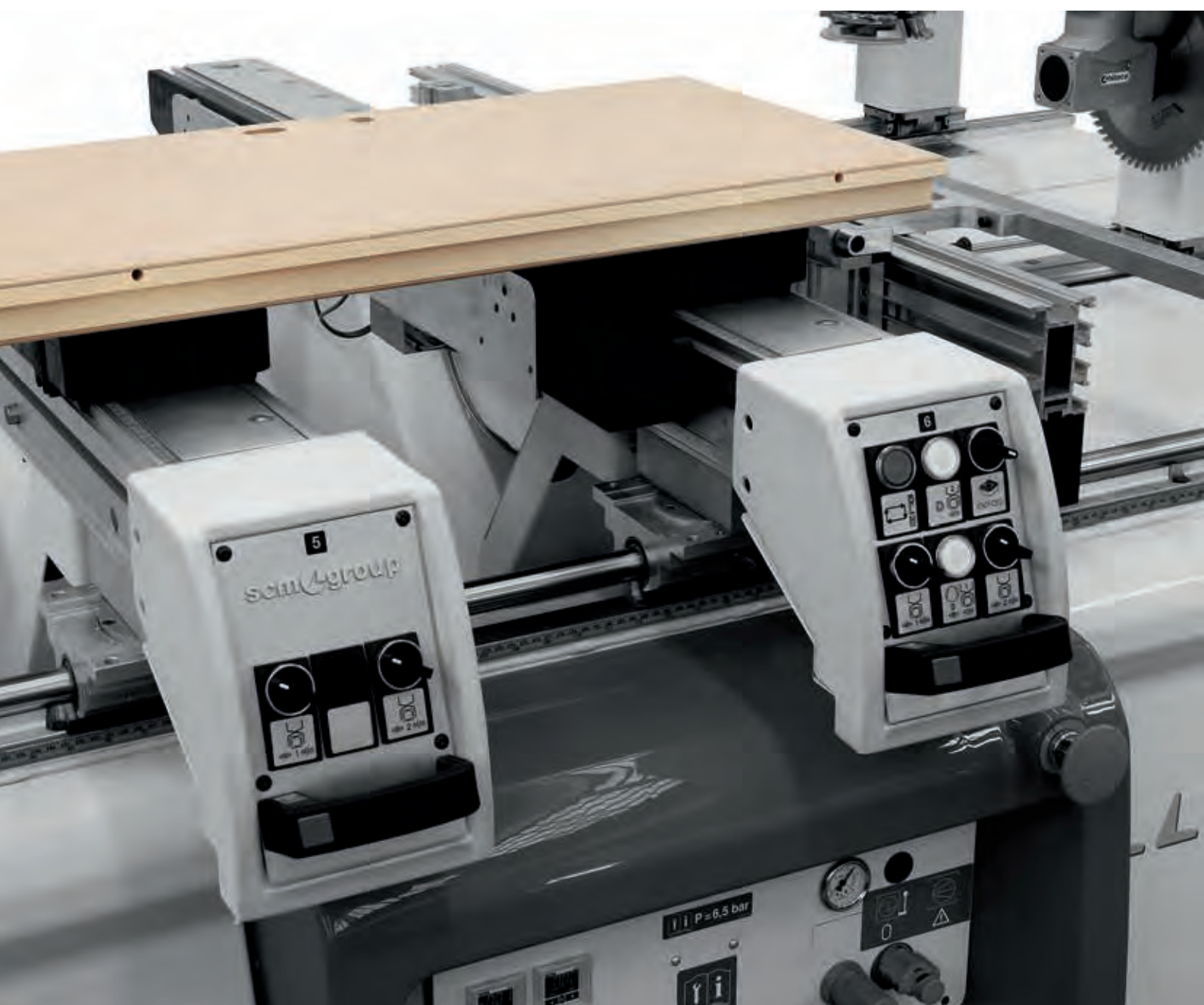
TECH Z2
page 06

TECH Z1 PRO
page 08

PRATIX Z5

PRATIX Z2





PRATIX ZI

PRATIX S

CYFLEX F900 PRO

CYFLEX H810 PRO

TOP PLUS

MULTITECH PLUS

STARTECH



 cyflex

 semi-automatic boring machines

tech z5

The “top” of the flexibility offered by a 5 axis machine.

Ideal solution to machine the sectioned panel and equipped with devices allowing solid wood machining as well.

Optimised time and resources thanks to the Netline integration.



5 AXES CNC MACHINING CENTRE WITH BARS WORKTABLE		TECH Z5	
		Z5-3I	Z5-52
Axes			
Working area along X-Y-Z axis	mm	3050 - 1550 - 160	5200 - 1550 - 160
Panel length along Y axis	mm	1550	1550
Panel length (for alternated work process)	mm	1390	2460
Vectorial speed X-Y axes (optional)	m/min	83	83
Boring head			
Vertical spindles up to	no. - rpm	18 (10X / 4+4Y) - 8000	18 (10X / 4+4Y) - 8000
Horizontal spindles up to	no. - rpm	8 (4X / 4Y) - 8000	8 (4X / 4Y) - 8000
Integrated blade in X	Ø mm - rpm	125 - 10000	125 - 10000
Electrospindle			
Standard motor power (S6)	kW (Hp)	12 (16,5)	12 (16,5)
Max. speed	rpm	24000	24000
Tool changer on the carriage in X / base	places	16 / 10	16 / 10
Installation			
Exhaust air consumption / speed	m³/h - m/sec	5300 / 30	5300 / 30
Exhaust outlet diameter	mm	250	250
Total weight machine	kg	3150	3350



<http://goo.gl/BFKtv>

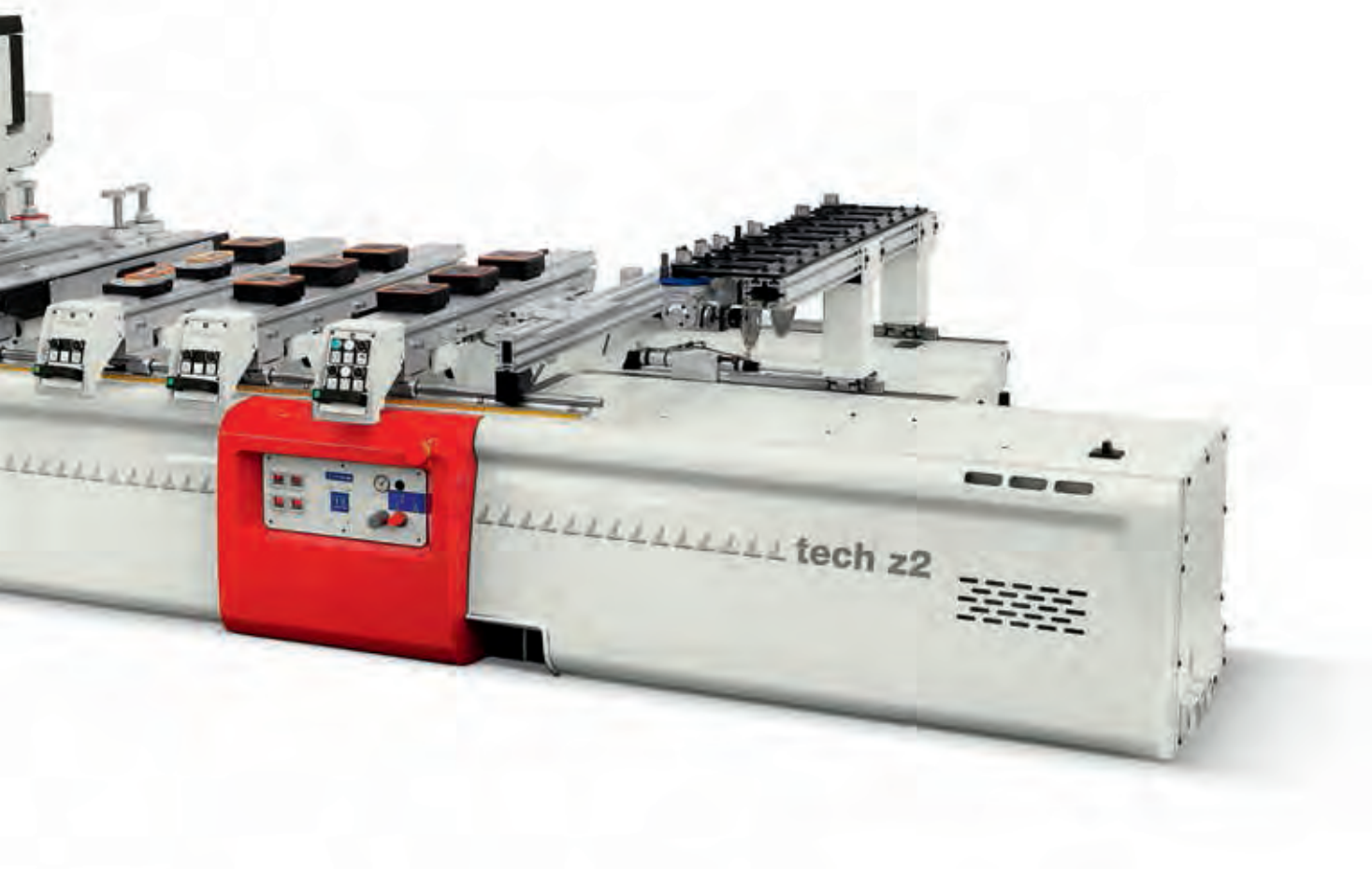
tech z2

Customisation and flexibility.



3-4 AXES CNC MACHINING CENTRE WITH BARS WORKTABLE		TECH Z2		
		Z2-27	Z2-31	Z2-52
Axes				
Working area along X-Y-Z axis	mm	2700 - 1300 - 160	3050 - 1300 - 160	5200 - 1300 - 160
Panel length along Y axis	mm	1550	1550	1550
Panel length (for alternated work process)	mm	1210	1390	2460
Vectorial speed X-Y axes (optional)	m/min	83	83	83
Boring head				
Vertical spindles up to	no. - rpm	18 (10X / 4+4Y) - 8000	18 (10X / 4+4Y) - 8000	18 (10X / 4+4Y) - 8000
Horizontal spindles up to	no. - rpm	8 (4X / 4Y) - 8000	8 (4X / 4Y) - 8000	8 (4X / 4Y) - 8000
Integrated blade in X	Ø mm - rpm	125 - 10000	125 - 10000	125 - 10000
Electrospindle				
Standard motor power (S6)	kW (Hp)	12 (16,5)	12 (16,5)	12 (16,5)
Max. speed	rpm	24000	24000	24000
Tool changer on the carriage in X / base	places	8 / 10	8 / 10	8 / 10
Installation				
Exhaust air consumption / speed	m³/h - m/sec	3400 / 30	3400 / 30	3400 / 30
Exhaust outlet diameter	mm	200	200	200
Total weight machine	kg	2400	2700	2900

Customisation and flexibility due to a wide choice of equipment presettings with bars worktable and **Penta** function.



tech z1

High performance, ease-of-use and more compact dimensions.



3-4 AXES CNC MACHINING CENTRE WITH BARS WORKTABLE		TECH Z1
		ZI PRO 3I
Axes		
Working area along X-Y-Z axis	mm	3050 - 1250 - 180
Panel length along Y axis	mm	1550
Panel length (for alternated work process)	mm	1390
Vectorial speed X-Y axes	m/min	35
Boring head		
Vertical spindles up to (B, C version)	no. - rpm	12 (8X / 4Y) - 8000
Horizontal spindles up to	no. - rpm	6 (4X / 2Y) - 8000
Integrated blade in X	Ø mm - rpm	125 - 10000
Electrospindle		
Standard motor power (S6) (B, C version)	kW (Hp)	9,5 (13)
Max. speed	rpm	24000
Tool changer on the carriage in X / base	places	4 / 10
Installation		
Vacuum pump integrated in the base (optional)	m³/h	90 (250)
Exhaust air consumption / speed	m³/h - m/sec	5300 (+ 1200) / 30
Exhaust outlet diameter	mm	250 + 120
Total machine weight	kg	2400

Designed “for all woodworking and furniture workshops”, it is the perfect solution for the production of customised furniture and for machining of panels.



tech

Exclusive features.



toptech

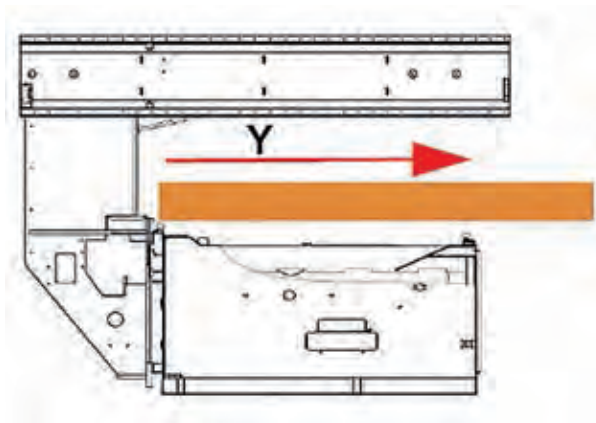
"BUMPERS": THE PERFECT COMBINATION OF SAFETY AND PRODUCTIVITY.

The "bumpers" safety system is the only one that can fully exploit the potential of machining centres, without placing restrictions or constraints on the use of the machine:

- maximum productivity
- ease-of-use
- more compact dimensions
- guaranteed safety



<http://goo.gl/fBp9q>



toptech

CANTILEVER STRUCTURE: UNIQUE AND EASY TO USE.

The only structure that allows the loading of **components** along the "Y" axis far larger than the working capacity of the machine.



<http://goo.gl/BFKty>



"NETLINE": PROGRAMMING MACHINES AUTOMATICALLY.

The **automatic programming** of beam saws, edge banders and machining centres, interconnected via a PC with advanced software, allows the creation of complete projects **without any operator intervention** and no risk of errors.



MECHANICAL FIXING OF VACUUM CUPS: CERTAINLY BEST RESULTS.

The certainty of quality results is guaranteed by a powerful mechanical grip that locks into position the vacuum cups; instead of the widespread vacuum system. It is unrivalled when working in heavy duty conditions and unique in being free from dust.

(Scm patent)



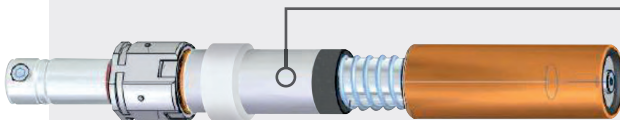
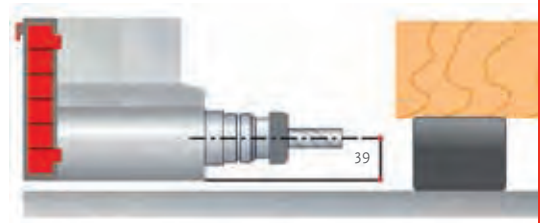
<http://goo.gl/BFKty>

toptech

"PRISMA 5" ELECTROSPINDLE: SUPERIOR TECHNOLOGY FOR MACHINING WITH 5 AXES.

Reduced maintenance, maximum flexibility and optimal finishing quality with the BEL.TECH technology (Belt technology system), the belt transmission system which eliminates vibration and heat from tools to the motor. This system (in use on the spindle for machining metals) due to the **compact structure**, allows easy operations in limited spaces. The mechanical locking of the spindle in the vertical position, transforms the unit into a perfect 3 axis operation.

tech z5



toptech

RO.AX SPINDLE: FOR PERFECT BORING.

Zero play during machining with the new RO.AX technology (Rotoaxial spindle technology), the most efficient spindle on the market with rotation speeds up to 8000 rpm to configure the machine with different boring units from 7 to 50 independent spindles, for customers demanding **high levels of boring**.

tech

Exclusive features.



“AUTOSSET”: BARS AND VACUUM CUPS AUTOMATICALLY IN THE CORRECT PLACE.

The most practical and economical system that, using a special driving device, uses the movements of the machine body to position bars and suction cups. While the operator works on the other field, the machine prepares everything independently and without any alignment inspection required (no laser, metric rules, or LEDs).

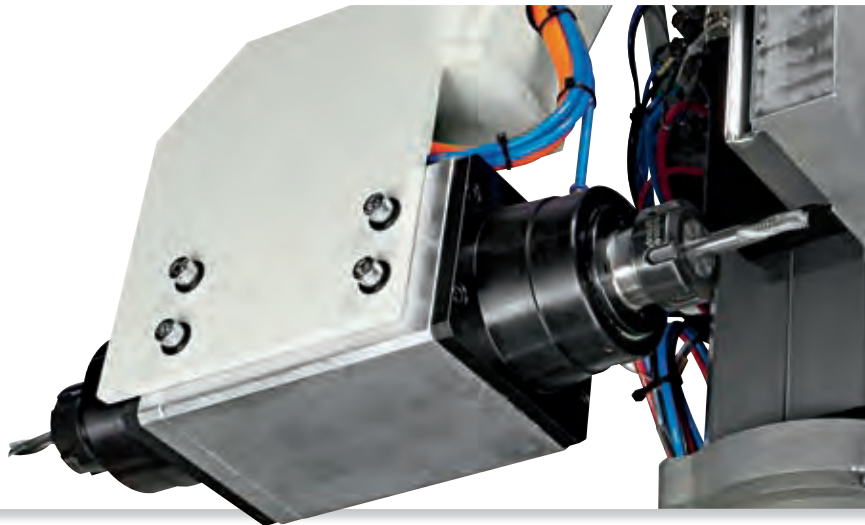


<http://goo.gl/fBp9q>

HORIZONTAL ELECTROSPINDLE: HIGH WORKING SPEED.

The direct output of motion power without gears and sprockets, a guarantee of sturdiness, allows the processing of **heavy duty work easily and fast**, without having to worry about the possible breaking of the wood or the tooling.

tech z2



“PENTA” DEVICE: THE FLEXIBILITY OFFERED BY 5 AXES BUT AT A BUDGET PRICE.

The “Penta” device can **transform**, with a modest investment, a standard **4-axis machine into a perfect 5-axis** positioning one.

tech z2



<http://goo.gl/BFKty>



“TECPAD”: EASE-OF-USE AND PRODUCTIVITY AT FINGER TIPS

The “Tecpad” standard remote control with LCD display and 7” colour touch-screen, allows the operator to fully **manage the machine intuitively**. The commands are always close to both the machine and the operator.

“PRO-SPACE” PROTECTIONS: SAFE AND COMPACT.

Ideal for those with limited available space, it is distinguished by:

- absence of perimeter protections
- protections mounted directly on the mobile upright
- also free access to the rear of the machine

tech z1 pro



“PRO-SPEED” PROTECTIONS: THE BEST COMPROMISE BETWEEN SPEED AND COMPACTNESS.

X-axis speed up to **70 m/min** due to the new Scm solution using the **photobumpers** system, ensuring reduced overall dimensions, maximum safety and ease-of-use.

tech z5, tech z2



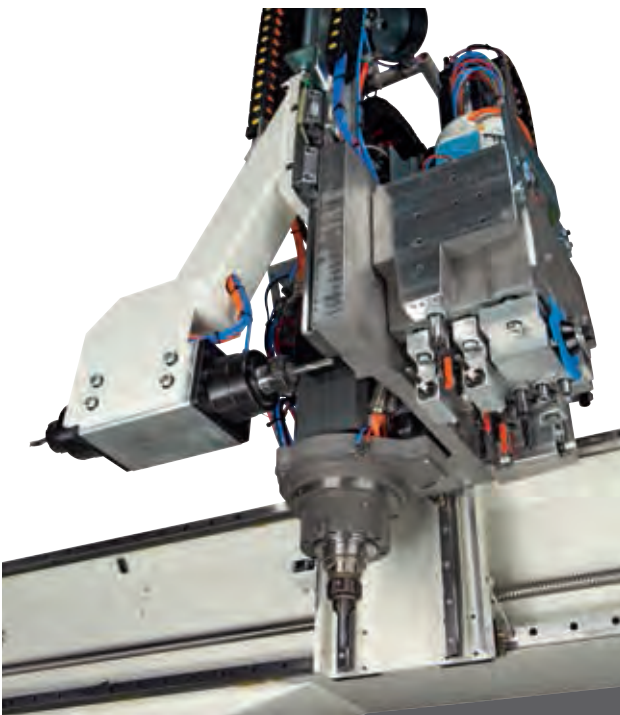
tech

Operating groups.



Specific operating group for *tech z5*:

- boring head
- "Prisma 5" 5-axis electrospindle
12 kW - 16,5 HP with
water cooling group



Specific operating group for *tech z2*:

- boring head
- 12 kW - 16,5 HP
vertical electrospindle
- 5,6 kW - 7,6 HP
horizontal electrospindle (C, D version)
- interpolating Vector axis (C version)



Specific operating group for *tech z1*:

- boring head
- 6,6 kW - 9 HP
electrospindle (A version)
- 9,5 kW - 13 HP
electrospindle (B, C version)
- interpolating Vector axis (C version)



TR10 tool changer

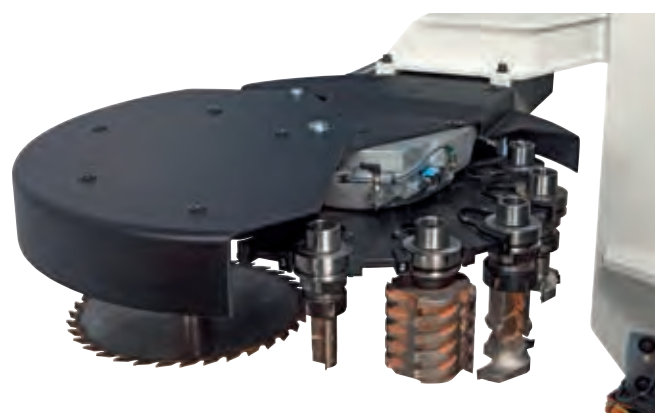
Positioned on the machine base.

No problems even with large dimensioned tools.

R16 tool changer

Positioned on the machining head support, it provides reduced setting-up times and higher tool-holder magazines capacity.

tech z5



R8 tool changer

Faster machine tool changeover due to the tool changer mounted on the machining head support.

tech z2

R4 tool changer

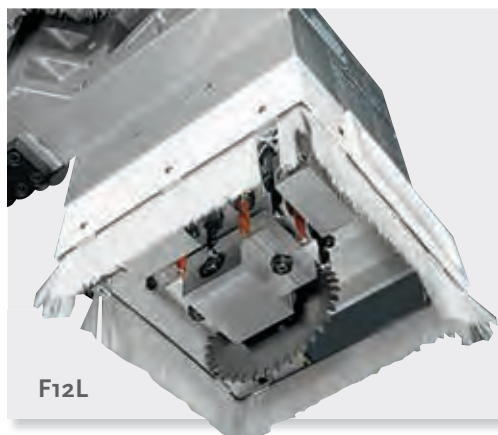
with pneumatic positioning on the machining head support. Ideal equipment for panel machining with alternated work processing.

tech z1 pro



tech

Boring heads.

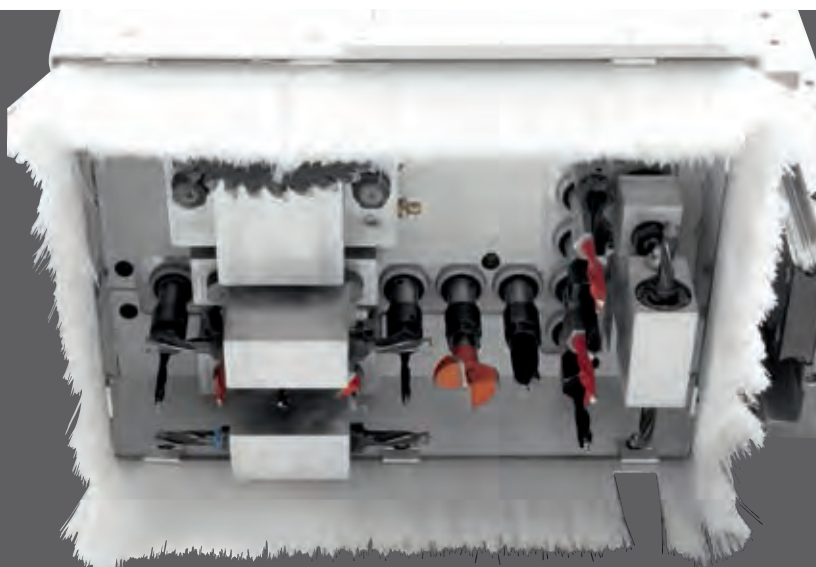


F12L

Boring unit with 8 vertical spindles and 4 horizontal spindles

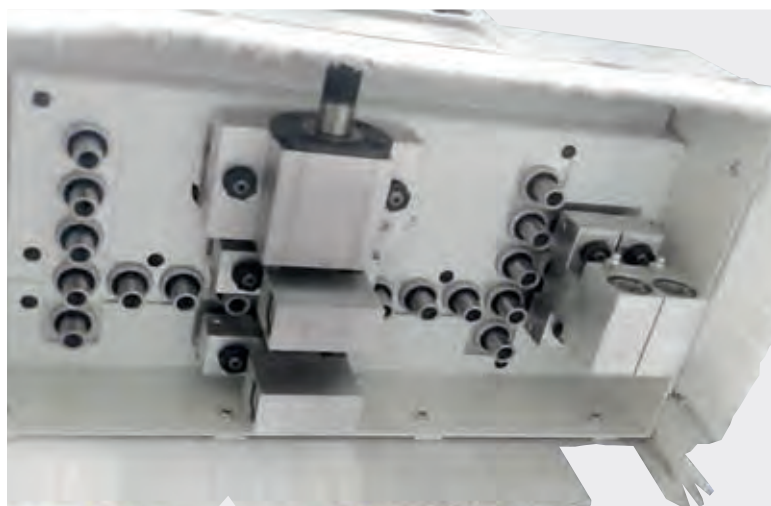
No.1 integrated blade along X direction
(125 mm maximum diameter).

tech z1 pro (A version)



F18L

Boring unit with 12 vertical spindles and 6 horizontal spindles
No.1 integrated blade along X direction
(125 mm maximum diameter).
*tech z5, tech z2,
tech z1 pro (B, C version)*



Boring unit with 18 vertical spindles and 8 horizontal spindles
No.1 integrated blade along X direction
(125 mm maximum diameter).
tech z5, tech z2

F26L



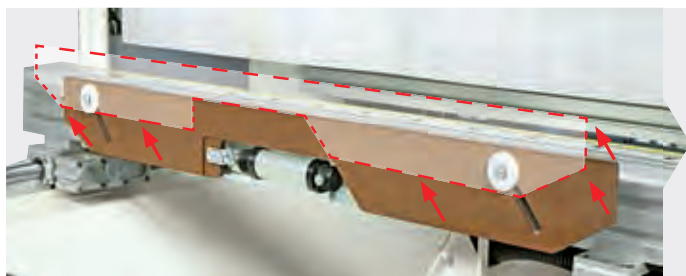
TVN WORKTABLES: MACHINING QUALITY WITHOUT COMPARISON.

Perfect finishing with the new worktables featuring enlarged suction cups (145 x 145 mm) with mechanical-automatic locking into the required position for **workpiece clamping now 30% higher than in the past**, removable stops integrated within the bar **more precise and stable overtime**, "tubeless" to offer **endless possibilities of configuring** the worktable.
(Scm patent)

PNEUMATIC CLAMPS: PERFORMANCE AND FLEXIBILITY FOR EVERY REQUIREMENT.

The high stroke of the clamps coupled to the double movement (both for opening and closing) allows the **locking of the workpiece without any adjustment** and the high thrust assures **effective and optimal hold down** even in the heaviest working conditions. The pneumatic positioning of the clamps also provides an **easy and rapid use**.

tech z5, tech z2



Loading assistance device

It facilitates the positioning of the large dimensions panels on the worktable. Possibility of set-up to the correct height to allow the use of the pneumatic clamps.



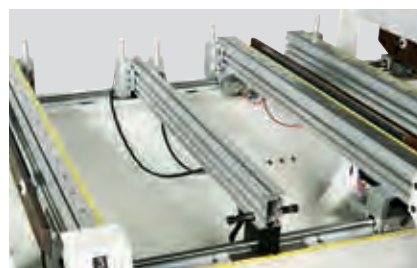
Air conveyor

Easier dust collection located under the worktable, ensuring it is always clean.



Dust shavings conveyor

Dust shavings conveyor belt for easier removal of waste materials.



Central reference with a double stop

Precise boring with no misalignment when assembling the workpieces.

tech

Other devices.



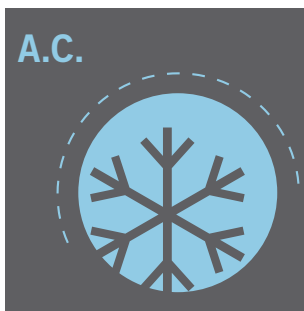
Automatic centralised lubrication managed by the control (optional for *tech z1 pro A, B version*).



Telesolve
Teleservice system to connect the machine's PC to the service department via internet.



Upgrade to 250 m³/h 50 Hz vacuum pump (optional).



Electrical cabinet with air conditioner which maintains the temperature at around 18°C (optional).



Laser
managed by optimisation software for correct positioning of each bar and suction cup (optional).



Extensive choice of optional devices for TVN worktables

- suction cups available with different dimensions
- horizontal or vertical clamps
- lockings for narrow workpieces
- references for panels with overhanging edges

LOWER CONSUMPTION = LOWER COSTS

SavEnergy allows the use of **power only when it is required**, making things operate only when they are really necessary. It means the machine automatically enters "stand-by" mode when there are no panels to be machined at any particular time.

Year saving up to 20% (optional).

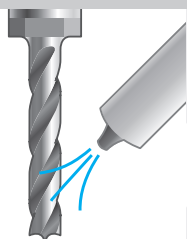


Extensive customisation possible

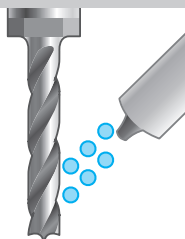
with angular heads having 1, 2 and 4 outlets with HSK taper couplings for angled routing, boring and grooving with plays elimination system or fixed mechanical couplings.

tech z2, tech z1 pro

DEVICES FOR PARTICULAR APPLICATIONS



Air blower on electrospindle
for generic applications.
standard for tech z1 pro
optional for tech z5, tech z2



Ionized air blower on electrospindle

It is suitable to eliminate the electrostatic charges due to the cut material, making easier the shavings suction (advisable for plastic materials machining).



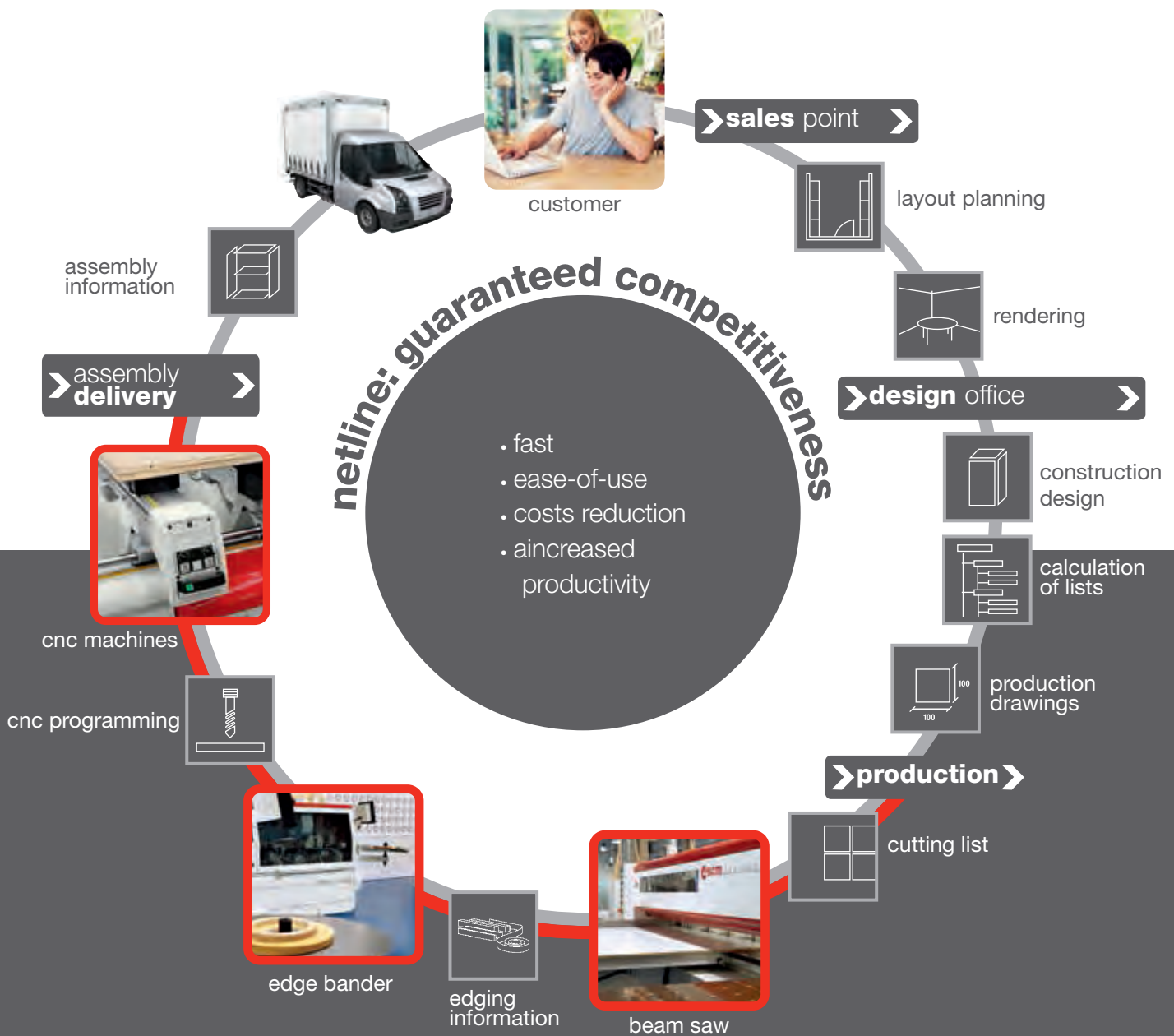
Air blower with microlubrication
Air blower with very little oil quantity for the tool lubrication and cooling when used on coated panels.



Guides protections, X-Y axes

By means of dedicated cleaning and protection system, it allows the machining also on abrasive materials (this device is compulsory for machining on plasterboard material).





netline: integrated processing advantages

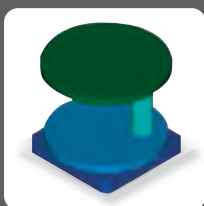
- **fast:** very high execution speed and production time reduced to a minimum
- **ease-of-use:** does not require skilled operators
- **costs reduction:** a few minutes from design to production
- **increased productivity:** the software-machine integration sets to zero the programming time due to the automatic and immediate switching of information from design to production



<http://goo.gl/fBp9q>

xilog maestro: simply-pro

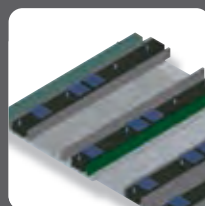
- ease-of-use
- intuitive
- immediate



3D graphic set-up of worktable



graphics apps library



programming worktable from 3D graphic



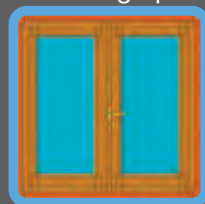
maestro ProView



maestro Nesting



maestro Cabinet



maestro WD



maestro 3D

xilog maestro of scmgroup: the advantage of having simple and intuitive software

- **ease-of-use:** easy planning of tri-dimensional elements due to the software modules:
 - maestro ProView:** to create with real simulation, virtual measurement and anti-collision check of the workpiece to be machined
 - maestro Nesting:** for rectangular and free-form elements; it also ensures reduced production time and tool paths
 - maestro Cabinet:** to create complete cabinets and furniture
 - maestro WD:** to create complete fastenings
 - maestro 3D:** to create and work tri-dimensional surfaces
- **intuitive:** intuitive programming due the pre-set large graphics apps library
- **immediate:** worktable immediately set-up from 3D graphics

tech

Machines set-up for all requirements.

▼ ideal set-up for:	▼ tech z5	▼ tech z2
"A" PANEL MACHINING		
"B" GENERIC APPLICATIONS		▶ Remote machine control ▶ Optimised centralised exhaust outlet ▶ F18L boring head with inverter ▶ 12 kW electrospindle and R8 tool changer ▶ Set-up for angular heads with preloading ▶ No.6 TVN tables, 12 suction cups 145x145 mm H50 ▶ Loading assistance device and second row of stops ▶ Automatic centralised lubrication ▶ 90/108 m³/h 50/60 Hz vacuum pump ▶ Xilog Maestro software and Telesolve
"C" FULL OPTIONAL	▶ Remote machine control ▶ Optimised centralised exhaust outlet ▶ F18L boring head with inverter ▶ 12 kW "Prisma 5" electrospindle with water cooling group ▶ TR10 and R16 tool changers ▶ No.6 TVN tables, 12 suction cups 145x145 mm H50 ▶ Loading assistance device and second row of stops ▶ Automatic centralised lubrication ▶ 90/108 m³/h 50/60 Hz vacuum pump ▶ Xilog Maestro software and Telesolve	▶ Remote machine control ▶ Optimised centralised exhaust outlet ▶ F18L boring head with inverter ▶ 12 kW electrospindle with TR10 and R8 tool changers ▶ No.2 outlets electrospindle for horizontal power routing ▶ Interpolating Vector axis and Penta digital control ▶ No.6 TVN tables, 12 suction cups 145x145 mm H50 ▶ Loading assistance device and second row of stops ▶ Automatic centralised lubrication ▶ 90/108 m³/h 50/60 Hz vacuum pump ▶ Xilog Maestro software and Telesolve
"D" DOORS APPLICATIONS		▶ Remote machine control ▶ Optimised centralised exhaust outlet ▶ F18L boring head with inverter ▶ 12 kW electrospindle and R8 tool changer ▶ No.2 outlets electrospindle for horizontal power routing ▶ Set-up for angular heads with preloading ▶ No.6 TVN tables, 12 suction cups 145x145 mm H50 ▶ Loading assistance device and second row of stops ▶ Automatic centralised lubrication ▶ 90/108 m³/h 50/60 Hz vacuum pump ▶ Xilog Maestro software and Telesolve

▼ tech z1 pro



- ▶ Remote machine control
- ▶ Centralised exhaust outlet
- ▶ F12L boring head with inverter
- ▶ 6,6 kW electrospindle and TR10 tool changer
- ▶ Set-up for angular heads with fixed mechanical coupling system
- ▶ No.4 TVN tables, 8 interchangeable suction cups 145x145 mm H50
- ▶ Centralised lubrication with manual pump
- ▶ 90/108 m³/h 50/60 Hz vacuum pump
- ▶ Xilog Maestro software and Telesolve

- ▶ Remote machine control
- ▶ Centralised exhaust outlet
- ▶ F18L boring head with inverter
- ▶ 9,5 kW electrospindle and TR10 tool changer
- ▶ Set-up for angular heads with fixed mechanical coupling system
- ▶ No.6 TVN tables with loading assistance device, 12 suction cups 145x145 mm H50
- ▶ Centralised lubrication with manual pump
- ▶ 90/108 m³/h 50/60 Hz vacuum pump
- ▶ Xilog Maestro software and Telesolve

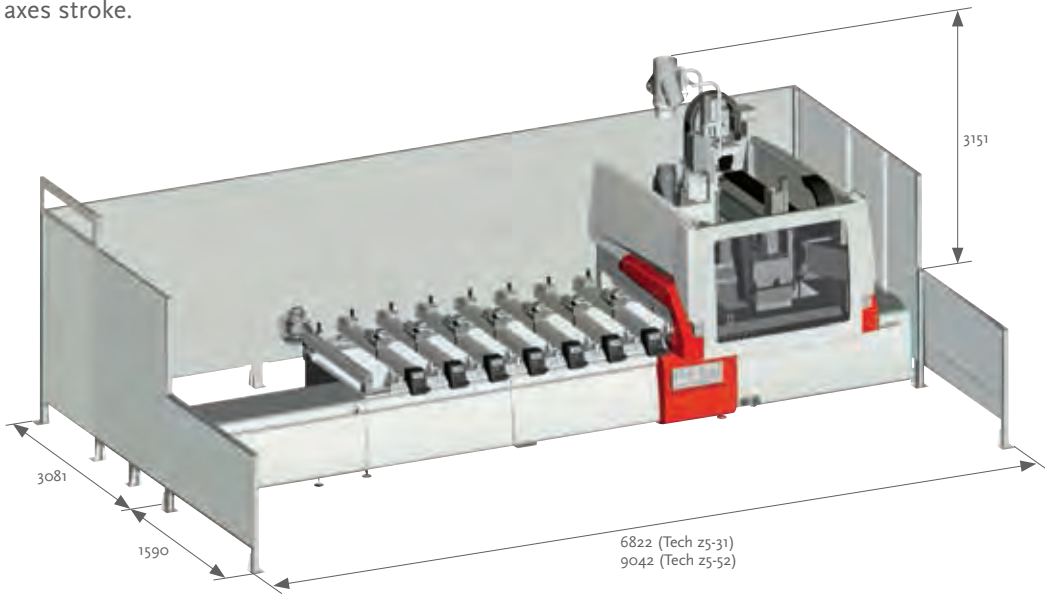
- ▶ “Tecpad” remote machine control with 7” colour touch-screen display
- ▶ Centralised exhaust outlet
- ▶ F18L boring head with inverter
- ▶ 9,5 kW electrospindle and TR10 tool changer
- ▶ Interpolating Vector axis with fixed mechanical coupling system
- ▶ No.6 TVN tables, 12 suction cups 145x145 mm H50
- ▶ Loading assistance device and second row of stops
- ▶ Automatic centralised lubrication
- ▶ 90/108 m³/h 50/60 Hz vacuum pump
- ▶ Xilog Maestro software and Telesolve



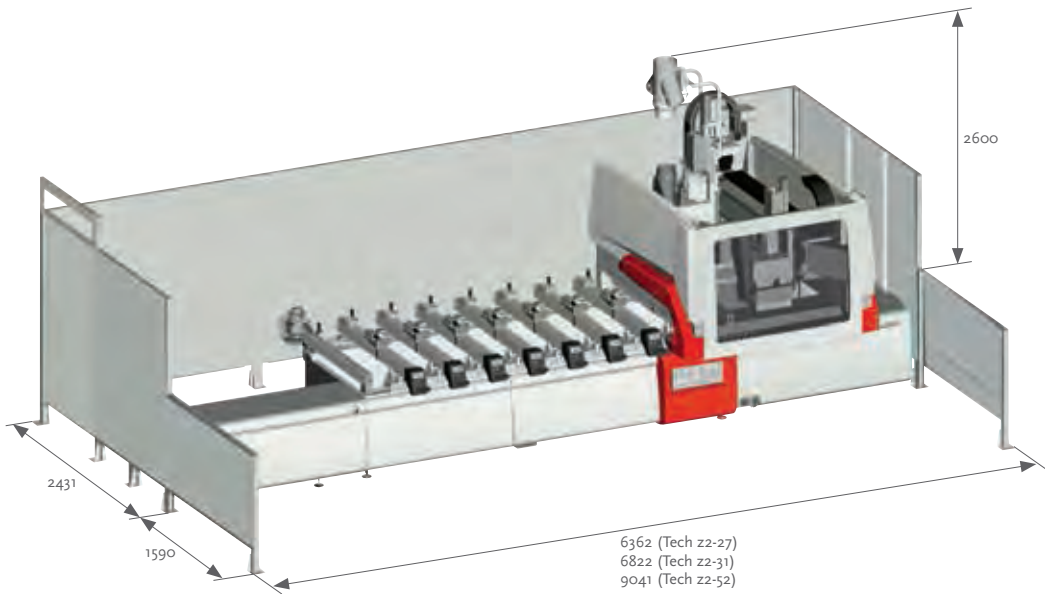
tech

Overall dimensions and axes stroke.

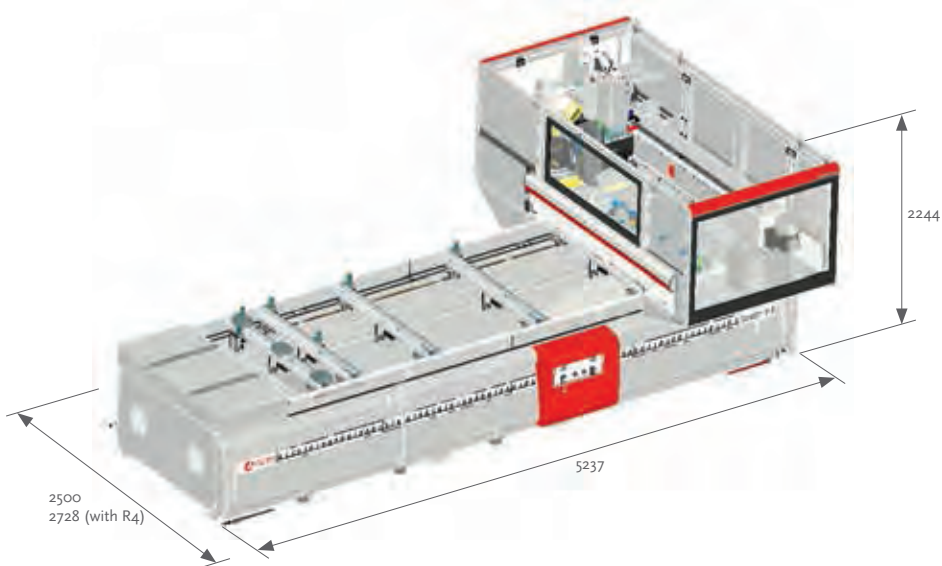
tech z5 ▶

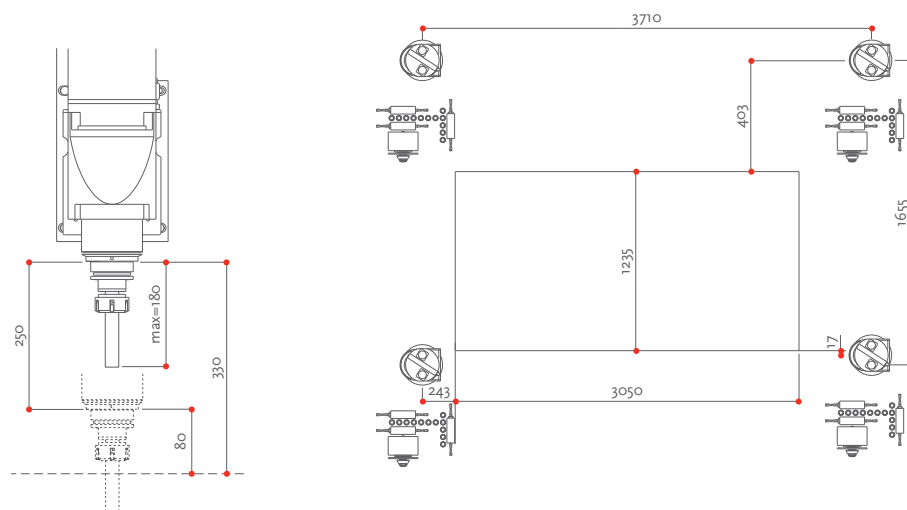
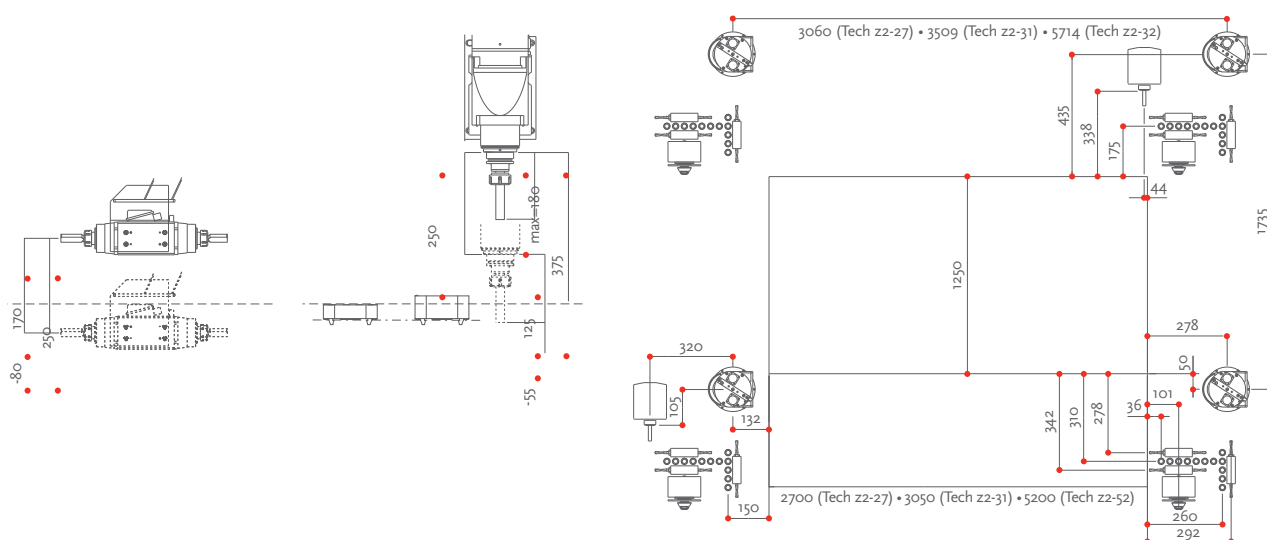
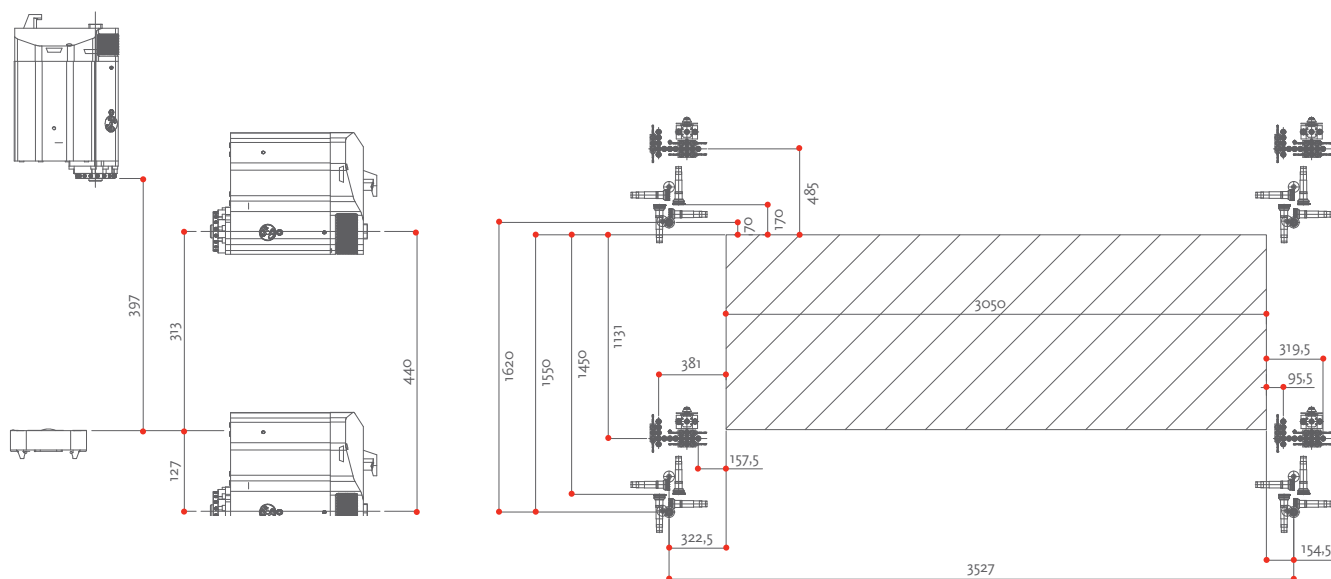


tech z2 ▶



tech z1 ▶





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 **dmc**
 **superfici**
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 **mahros**
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 **Cms**
advanced materials technology

 **Brembana**
stone technology

 **Brembana**
glass technology

 **CmsPlast**
plastic technology

 **Tecnocut**
waterjet technology

 **Balestrini**

1 large integrated group
18 production sites
19 foreign branches
28 specialist brands
more than 60 years in business
80% exports
350 agents and dealers
390 registered patents
500 support technicians
3.000 square metres of showroom
10.000 classical and professional
machines manufactured per year
240.000 square metres
of production space



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the best global partner that is very close to woodworking companies.



The technical data can vary according to the requested machine composition. In this catalogue, machines are shown with options. The company reserves the right to modify technical specifications without prior notice; the modifications do not influence the safety foreseen by the CE Norms.





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