Designed to be the very best.
Optimum performance to size ratio and integration in the Netline process.

**tech z5**
cnc machining centre with bars worktable.
- 5 axes
- “Prisma 5” flexibility of use
- “PRO-SPEED” protections

**tech z2**
cnc machining centre with bars worktable.
- 3-4 axes
- customisation and flexibility
- “PRO-SPEED” protections

**tech z1**
cnc machining centre with bars worktable.
- 3-4 axes
- ease-of-use
- “PRO-SPACE” protections
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.

<table>
<thead>
<tr>
<th>5 AXES CNC MACHINING CENTRE WITH BARS WORKTABLE</th>
<th>TECH Z5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z5-31</td>
<td>Z5-52</td>
</tr>
<tr>
<td><strong>Axes</strong></td>
<td></td>
</tr>
<tr>
<td>Working area along X-Y-Z axis</td>
<td>mm</td>
</tr>
<tr>
<td>Panel length along Y axis</td>
<td>mm</td>
</tr>
<tr>
<td>Panel length (for alternated work process)</td>
<td>mm</td>
</tr>
<tr>
<td>Vectorial speed X-Y axes (optional)</td>
<td>m/min</td>
</tr>
<tr>
<td><strong>Boring head</strong></td>
<td></td>
</tr>
<tr>
<td>Vertical spindles up to</td>
<td>no. - rpm</td>
</tr>
<tr>
<td>Horizontal spindles up to</td>
<td>no. - rpm</td>
</tr>
<tr>
<td>Integrated blade in X</td>
<td>Ø mm - rpm</td>
</tr>
<tr>
<td><strong>Electro spindle</strong></td>
<td></td>
</tr>
<tr>
<td>Standard motor power (S6)</td>
<td>kW (Hp)</td>
</tr>
<tr>
<td>Max. speed</td>
<td>rpm</td>
</tr>
<tr>
<td>Tool changer on the carriage in X / base</td>
<td>places</td>
</tr>
<tr>
<td><strong>Installation</strong></td>
<td></td>
</tr>
<tr>
<td>Exhaust air consumption / speed</td>
<td>m³/h - m/sec</td>
</tr>
<tr>
<td>Exhaust outlet diameter</td>
<td>mm</td>
</tr>
<tr>
<td>Total weight machine</td>
<td>kg</td>
</tr>
</tbody>
</table>
## tech z2

Customisation and flexibility.

### 3-4 AXES CNC MACHINING CENTRE WITH BARS WORKTABLE

<table>
<thead>
<tr>
<th></th>
<th>TECH Z2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Z2-27</td>
</tr>
<tr>
<td><strong>Axes</strong></td>
<td></td>
</tr>
<tr>
<td>Working area along X-Y-Z axis (mm)</td>
<td>2700 - 1300 - 160</td>
</tr>
<tr>
<td>Panel length along Y axis (mm)</td>
<td>1550</td>
</tr>
<tr>
<td>Panel length (for alternated work process) (mm)</td>
<td>1210</td>
</tr>
<tr>
<td>Vectorial speed X-Y axes (optional) (m/min)</td>
<td>83</td>
</tr>
</tbody>
</table>

**Boring head**

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical spindles up to no. - rpm</td>
<td>18 (10X / 4+4Y) - 8000</td>
<td>18 (10X / 4+4Y) - 8000</td>
<td>18 (10X / 4+4Y) - 8000</td>
</tr>
<tr>
<td>Horizontal spindles up to no. - rpm</td>
<td>8 (4X / 4Y) - 8000</td>
<td>8 (4X / 4Y) - 8000</td>
<td>8 (4X / 4Y) - 8000</td>
</tr>
<tr>
<td>Integrated blade in X Ø mm - rpm</td>
<td>125 - 10000</td>
<td>125 - 10000</td>
<td>125 - 10000</td>
</tr>
</tbody>
</table>

**Electro spindle**

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard motor power (S6) kW (Hp)</td>
<td>12 (16,5)</td>
<td>12 (16,5)</td>
<td>12 (16,5)</td>
</tr>
<tr>
<td>Max. speed rpm</td>
<td>24000</td>
<td>24000</td>
<td>24000</td>
</tr>
<tr>
<td>Tool changer on the carriage in X / base places</td>
<td>8 / 10</td>
<td>8 / 10</td>
<td>8 / 10</td>
</tr>
</tbody>
</table>

**Installation**

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Exhaust air consumption / speed m³/h - m/sec</td>
<td>3400 / 30</td>
<td>3400 / 30</td>
<td>3400 / 30</td>
</tr>
<tr>
<td>Exhaust outlet diameter mm</td>
<td>200</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Total weight machine kg</td>
<td>2400</td>
<td>2700</td>
<td>2900</td>
</tr>
</tbody>
</table>
Customisation and flexibility due to a wide choice of equipment presets with bars worktable and Penta function.
# Tech Z1

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

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## 3-4 Axes CNC Machining Centre with Bars Worktable

<table>
<thead>
<tr>
<th>Tech Z1</th>
<th>Z1 PRO 3i</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Axes</strong></td>
<td></td>
</tr>
<tr>
<td>Working area along X-Y-Z axis</td>
<td>mm</td>
</tr>
<tr>
<td>Panel length along Y axis</td>
<td>mm</td>
</tr>
<tr>
<td>Panel length (for alternated work process)</td>
<td>mm</td>
</tr>
<tr>
<td>Vectorial speed X-Y axes</td>
<td>m/min</td>
</tr>
<tr>
<td><strong>Boring head</strong></td>
<td></td>
</tr>
<tr>
<td>Vertical spindles up to (B, C version)</td>
<td>no. - rpm</td>
</tr>
<tr>
<td>Horizontal spindles up to</td>
<td>no. - rpm</td>
</tr>
<tr>
<td>Integrated blade in X</td>
<td>Ø mm - rpm</td>
</tr>
<tr>
<td><strong>Electrospindle</strong></td>
<td></td>
</tr>
<tr>
<td>Standard motor power (S6) (B, C version)</td>
<td>kW (Hp)</td>
</tr>
<tr>
<td>Max. speed</td>
<td>rpm</td>
</tr>
<tr>
<td>Tool changer on the carriage in X / base</td>
<td>places</td>
</tr>
<tr>
<td><strong>Installation</strong></td>
<td></td>
</tr>
<tr>
<td>Vacuum pump integrated in the base (optional)</td>
<td>m³/h</td>
</tr>
<tr>
<td>Exhaust air consumption / speed</td>
<td>m³/h - m/sec</td>
</tr>
<tr>
<td>Exhaust outlet diameter</td>
<td>mm</td>
</tr>
<tr>
<td>Total machine weight</td>
<td>kg</td>
</tr>
</tbody>
</table>
Designed “for all woodworking and furniture workshops”, it is the perfect solution for the production of customised furniture and for machining of panels.
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

**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.

**“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.
Exclusive features.

"AUTOSET": 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).

"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.

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.

http://goo.gl/fBp9q

http://goo.gl/BFKty

http://tech z2
“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 21 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 25, tech 22
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)
tech
Tool changers.

**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.

**R8 tool changer**
Faster machine tool changeover due to the tool changer mounted on the machining head support.

**R4 tool changer**
with pneumatic positioning on the machining head support.
Ideal equipment for panel machining with alternated work processing.

*tech z5*

*tech z2*

*tech z1 pro*
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)*

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*
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.

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)

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 22, tech 21 pro**

### Devices for particular applications

- **Air blower on electrospindle**
  - for generic applications.
  - standard for tech 21 pro
  - optional for tech 25, tech 22

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

- **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).

- **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

OUR SOFTWARE PARTNERS
xilog maestro: simply-pro

- ease-of-use
- intuitive
- immediate

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

SOFTWARE scmgroup

http://goo.gl/fBp9q
**tech**

Machines set-up for all requirements.

<table>
<thead>
<tr>
<th>“A” PANEL MACHINING</th>
<th>▼ tech z5</th>
<th>▼ tech z2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>“B” GENERIC APPLICATIONS</th>
<th></th>
<th>▼ tech z5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>“C” FULL OPTIONAL</th>
<th>▼ tech z5</th>
<th>▼ tech z2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote machine control</td>
<td>Optimised centralised exhaust outlet</td>
<td>Optimised centralised exhaust outlet</td>
</tr>
<tr>
<td>F18L boring head with inverter</td>
<td>12 kW electrospindle with R8 tool changer</td>
<td>F18L boring head with inverter</td>
</tr>
<tr>
<td>TR10 and R16 tool changers</td>
<td>No.2 outlets electrospindle for horizontal power routing</td>
<td>12 kW electrospindle with TR10 and R8 tool changers</td>
</tr>
<tr>
<td>No.6 TVN tables, 12 suction cups 145x145 mm H50</td>
<td>Interpolating Vector axis and Penta digital control</td>
<td>No.6 TVN tables, 12 suction cups 145x145 mm H50</td>
</tr>
<tr>
<td>Loading assistance device and second row of stops</td>
<td>Automatic centralised lubrication</td>
<td>Loading assistance device and second row of stops</td>
</tr>
<tr>
<td>Automatic centralised lubrication</td>
<td>90/108 m³/h 50/60 Hz vacuum pump</td>
<td>Automatic centralised lubrication</td>
</tr>
<tr>
<td>90/108 m³/h 50/60 Hz vacuum pump</td>
<td>Xilog Maestro software and Telesolve</td>
<td>90/108 m³/h 50/60 Hz vacuum pump</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>“D” DOORS APPLICATIONS</th>
<th>▼ tech z5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote machine control</td>
<td>Optimised centralised exhaust outlet</td>
</tr>
<tr>
<td>F18L boring head with inverter</td>
<td>12 kW electrospindle and R8 tool changer</td>
</tr>
<tr>
<td>No.2 outlets electrospindle for horizontal power routing</td>
<td>Set-up for angular heads with preloading</td>
</tr>
<tr>
<td>No.6 TVN tables, 12 suction cups 145x145 mm H50</td>
<td>Automatic centralised lubrication</td>
</tr>
<tr>
<td>Loading assistance device and second row of stops</td>
<td>90/108 m³/h 50/60 Hz vacuum pump</td>
</tr>
<tr>
<td>Automatic centralised lubrication</td>
<td>Xilog Maestro software and Telesolve</td>
</tr>
</tbody>
</table>
### tech z1 pro

- 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.4 TVN tables, 12 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

### tech z1 pro (minimum set-up)

- Remote machine control
- Centralised exhaust outlet
- F18L boring head with inverter
- 9.5 kW electrospindle and TR10 tool changer
- Centralised lubrication with manual pump
- 90/108 m³/h 50/60 Hz vacuum pump
- Xilog Maestro software and Telesolve

### tech z1 pro (full optional)

- "Tecpad" remote machine control with 7" colour touch-screen display
- Centralised exhaust outlet
- F18L boring head with inverter
- 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
Overall dimensions and axes stroke.
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
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.