THE SOLUTION THAT COMBINES QUALITY AND TECHNOLOGY
Modular machining centre designed and developed to satisfy the requirements of furniture manufacturers.

author m400
numerical controlled machining centre
THE PERFECT COMBINATION OF SAFETY AND PRODUCTIVITY: PHOTO-BUMPERS
High production capacity and greater freedom of movement also during alternated work process due to the safety system that brings together the bumpers devices with the photocells for the detection of the operator’s position inside the loading/unloading area.

TOTAL LACK OF VIBRATIONS: MOBILE GANTRY STRUCTURE
Performance without comparison with the mobile gantry structure that allows for high machining speeds whilst guaranteeing the best end products quality.

SUPERIOR TECHNOLOGY FOR MACHINING WITH 5 AXES: PRISMA ELECTROSPINDLE
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 PERFECT DRILLING: RO.AX SPINDLE
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. The sturdiness of drilling heads is proven by the reduced maintenance costs: five times less than that imposed by the majority of other machine manufacturers.

UNIQUE CREATIVITY: Xilog Maestro
CAD/CAM programming software to design all the production processes. Developed in Windows® environment it ensures easy programming with an advanced, simple and intuitive sketching environment that features all the tools necessary to design the parts, their layout on the work table, tools management and the relative machining operations. All the procedures are contained in a perfectly integrated and high performance software.
Vertical, horizontal, tilting machining and large dimensioned cuts with blade with 3-4-5 axes routing units up to 15 kW motor power.

**POWERFUL AND RELIABLE**
Ease-of-use and flexibility with the 5-axes machining unit, unique in its category in terms of performance. Wide range of specific electrospindles to carry out any type of machining.

Prisma machining unit geometry allows it to operate at angles of up to 10° below the work piece supporting surface.
Production of doors and other horizontal machining that require heavy duty routing (grooves, hinge or lock recesses), with high precision and speed, by means of the two outlet horizontal spindle.

High quality finish even on heavy machining with the exclusive TTS (Total Torque System) lock system, that provides the spindle with the stiffness of a 3-axes unit.

Clean working environment with the conveyor facilitating removal of shavings and sawdust produced by machining.
The higher drilling capacity in its category up to 25 independent vertical spindles and 12 horizontal spindles, complete with blade unit.

INDESTRUCTIBLE AND WITH LOW MAINTENANCE
The sturdiness of drilling heads is proven by the reduced maintenance costs: it is recommended only after more than 1000 hours of work.

THE PERFECT DRILLING: RO.AX SPINDLE
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.

Easy grooves machining on the sides of the furniture thanks to the integrated blade unit with 0-90° rotation.
Wide range of tools available to the operator with the rear RAPID 16 or 24 positions tool changer.

TR side tool changer with 10 or 12 positions.
Mobile control panel with PC-Office
Personal Computer with 17” LDC colour display that allows the programming directly on the machine.

“ALL” AT YOUR FINGERTIPS: TECPAD CONTROL
Management of machine controls with the 7” colour remote control with touch-screen function that facilitates and speed up the setting operations.
SET UP TIMES IN MASKED TIME: TV MATIC WORK TABLE

Work table with automatic simultaneous positioning of bars and suction cups or clamps. The requested configuration is performed in just a few seconds with a guaranteed safety against the risks of collision between tool and work table.

From a single panel can be obtained more elements and automatically re-position them to carry out all machining without interrupting the production cycle; at the end the work pieces are returned to the initial position to facilitate the unloading from the work table.

Simple and quick substitution of suction cups or clamps through the exclusive rapid docking device.

Easy positioning of heavy work pieces and large panels with the lifting support.
TOTAL CUSTOMISATION: TV FLEXMATIC WORK TABLE
This automatic table allows the management of a variable number of suction cups on the bar, according to the dimensions and shape of the work piece to be machined, in order to always have the best holding without risks of collision. Available also with manual version TV FLEX.

It is possible to position directly on each bar all necessary suction cups and clamps to lock the work pieces of any shape and dimension.

Wide range of accessories to satisfy all machining necessities, available for all work tables.
 VERY HIGH FLEXIBILITY: MULTI-FUNCTION WORK TABLE
Extremely stiff work table made of extruded aluminium, designed to maintain a perfect planarity over time, even after repeated mechanical stresses. It is ideal also for nesting machining.
Possibility to work small work pieces with the coaxial mechanical presser.

Optimal work piece holding with the high capacity vacuum up to 1000 m³/h.

It is possible to fix custom references thanks to the exclusive “T-shaped” grooves available on the work table. Easy and quick positioning of locking accessories such as MPS suction cups and the practical MODULSET system with the surface channels structure.
author m400
loading/unloading automation

Precise and rapid panels positioning on the work table with a dedicated suction cups system.

Lifting table for the management of panels stacks with height up to 700 mm.
100% productivity with the pusher that moves the processed work pieces on the unloading belt and simultaneously cleans the work table while the new panel to be machined is loaded.

Perfect work pieces holding at outfeed thanks to the guides positioned on the sides that drive the panels avoiding any possibility of falling off. The chips conveying device positioned between the work table and the unloading belt maintain a clean environment.

No dust with the upper extraction system with the work pieces cleaning and chips conveying system at the end of the belt in order to eliminate any machining waste.
Total flexibility, the cell can be also used with a “stand-alone” machining centre. The photo-bumpers safety system and the split guides allow the manual panels loading/unloading and the pendulum process to maximize the productivity.

For a higher productivity, in case the material and the machining allows it, the suction cup loading device can position two overlapping panels on the work table.
Work pieces labelling
Complete work cycle with the possibility to automatically apply the labels, in masked time, on the infeed panel before the machining.
It is also available the station for the manual labels positioning on the machined panel at the end of the unloading belt.
The precision of the suction cups positioning is ensured by the laser device which allows the visualisation of the precise locking point.

Perfect machining depth even on panels with irregular thickness thanks to the SYNCRON electronic system that detects the work piece surface and automatically adapts the Z axis height maintaining the tool position when processing.

A.C.

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

Automatic centralised lubrication managed by the control.

Electrical cabinet with air conditioner which maintains the temperature at around 18°C.
**DEVICES FOR PARTICULAR APPLICATIONS**

**Air blower on electrospindle**
For generic applications.

**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).
CAD/CAM programming software to design all the production processes.

Developed in Windows® environment it ensures easy programming with an advanced, simple and intuitive sketching environment that features all the tools necessary to design the parts, their layout on the work table, tools management and the relative machining operations. All the procedures are contained in a perfectly integrated and high performance software.
Maestro Apps
Unique know-how
Maestro APPS is a library of programming functions that are always available and easy to use, developed by the Scm Group for the production of parts for doors, windows, stairs, furniture and furnishings.

Maestro 3D
Unique in the creation of 3D objects
The module integrated in the Xilog Maestro suite is designed to program three dimensional objects on 5-axis machining centres.

Maestro Cabinet
Unique in the creation of furniture
This application is designed for the home and office furniture sector to design furniture and program cabinet production step by step.

Maestro Nest
Unique nesting process
The module integrated in the Xilog Maestro suite provides all the functions necessary to manage the “nesting” process: from a simple “rectangular” piece to the most varied and complex “free form” geometrical shapes.

Maestro ProView
Unique 3D display
3D Simulator that allows users access to a three dimensional model of their machine in their office and view the operations that will be carried out during the production in advance on their PC.
MINIMUM OVERALL DIMENSIONS AND MAXIMUM SAFETY: PRO-SPACE PROTECTIONS
Loading zone completely free to reduce the space occupied to the minimum.
The protections allow the machine to be used with a feed speed up to 25 m/min.

TOTAL FREEDOM AND HIGH PRODUCTIVITY: PRO-SPEED PROTECTIONS
Protection system for the machine use to the maximum speed of 60 m/min.
When the operator enters into the loading area, which is delimited by the front photocell barrier, the machine automatically reduces the speed to 25 m/min; when the operator leaves the loading area the system restore the maximum working speed.

GUARANTEED SAFETY: BUMPERS PROTECTIONS
Fully safe machining with the bumpers safety system with lock the machine in case of accidental contact with the operator.
### AUTHOR M400 OVERALL DIMENSIONS

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#### AUTHOR M400 BARS WORK TABLE

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#### AUTHOR M400 MULTI-FUNCTION WORK TABLE

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### TECHNICAL DATA

#### AUTHOR M400

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<td>Rotation speed (max.)</td>
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<td>Available tools on tool changer (max.)</td>
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<tr>
<td>Independent horizontal spindles (max.)</td>
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<td>Rotation speed (max.)</td>
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<td>Integrated blade in X, diameter</td>
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<td>0-90° integrated blade, diameter</td>
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<tr>
<td>Exhaust air consumption</td>
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<td>Exhaust air speed</td>
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<td>Exhaust outlet diameter</td>
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#### 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.

Maximum noise levels measured according to the operating conditions established by EN 1870-13:2007+A1:2009:
- Acoustic pressure in process (routing) 81 dB(A) (measured according to EN ISO 11202:2010, uncertainty K = 4 dB)
- Acoustic power in process (routing) 98 dB(A) measured according to EN ISO 3746:2010, uncertainty K = 4 dB)

Even if there is a correlation between above mentioned “conventional” noise emission values and average levels of personal exposure over eight hours of operators, these last also depend on the real operating conditions, duration of exposure, acoustic conditions of the working environment and presence of further noise sources, this means the number of machines and other adjacent processes.
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.