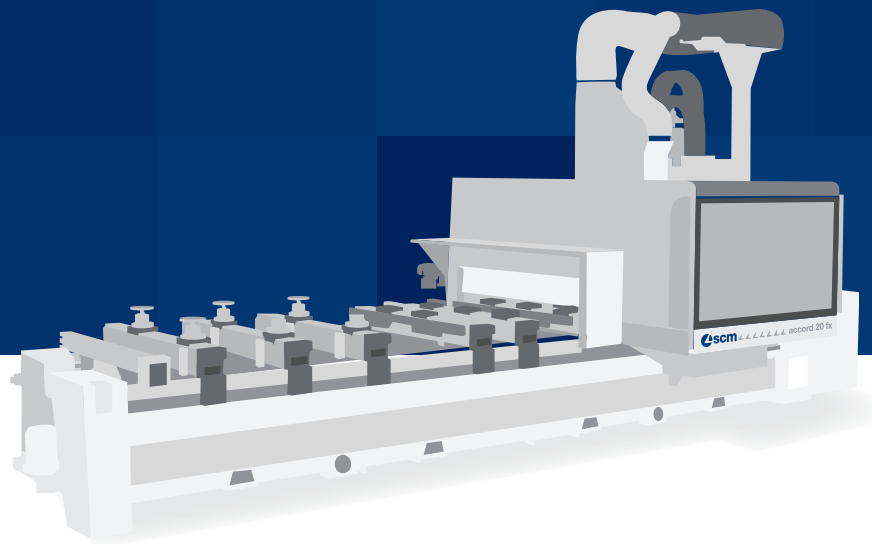




# accord 20 fx

CNC machining centre



# accord 20 fx

CNC machining centre

New-generation modular machining centre designed for machining operations involving heavy duty stock removal with high precision and top quality finish. Ideal for making door and window frames, doors, stairs and solid wood elements in general.

- **TOTAL FREEDOM OF USE**

Powerful, reliable machining heads with 5 interpolating axes made for any use, even the most heavy duty.

- **TOP QUALITY FINISH**


Precision and finishing at the highest level on the entire machining area, thanks to the rigid mobile portal structure.

- **MAXIMUM PRODUCTIVITY AND SAFETY**

Safety systems designed to exploit the maximum production capacity of the machine without limits on movement.





-  cutting.
-  planing.
-  **routing.**
-  sanding.

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technological advantages



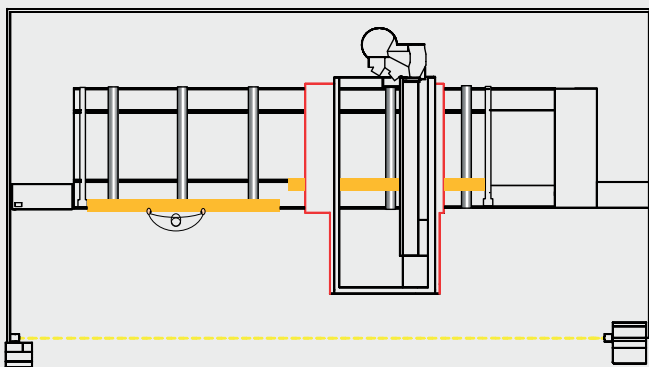
## TOTAL ABSENCE OF VIBRATIONS IN ANY SITUATION

Designed for maximum precision even in the presence of large machining areas, guaranteeing lasting stability.

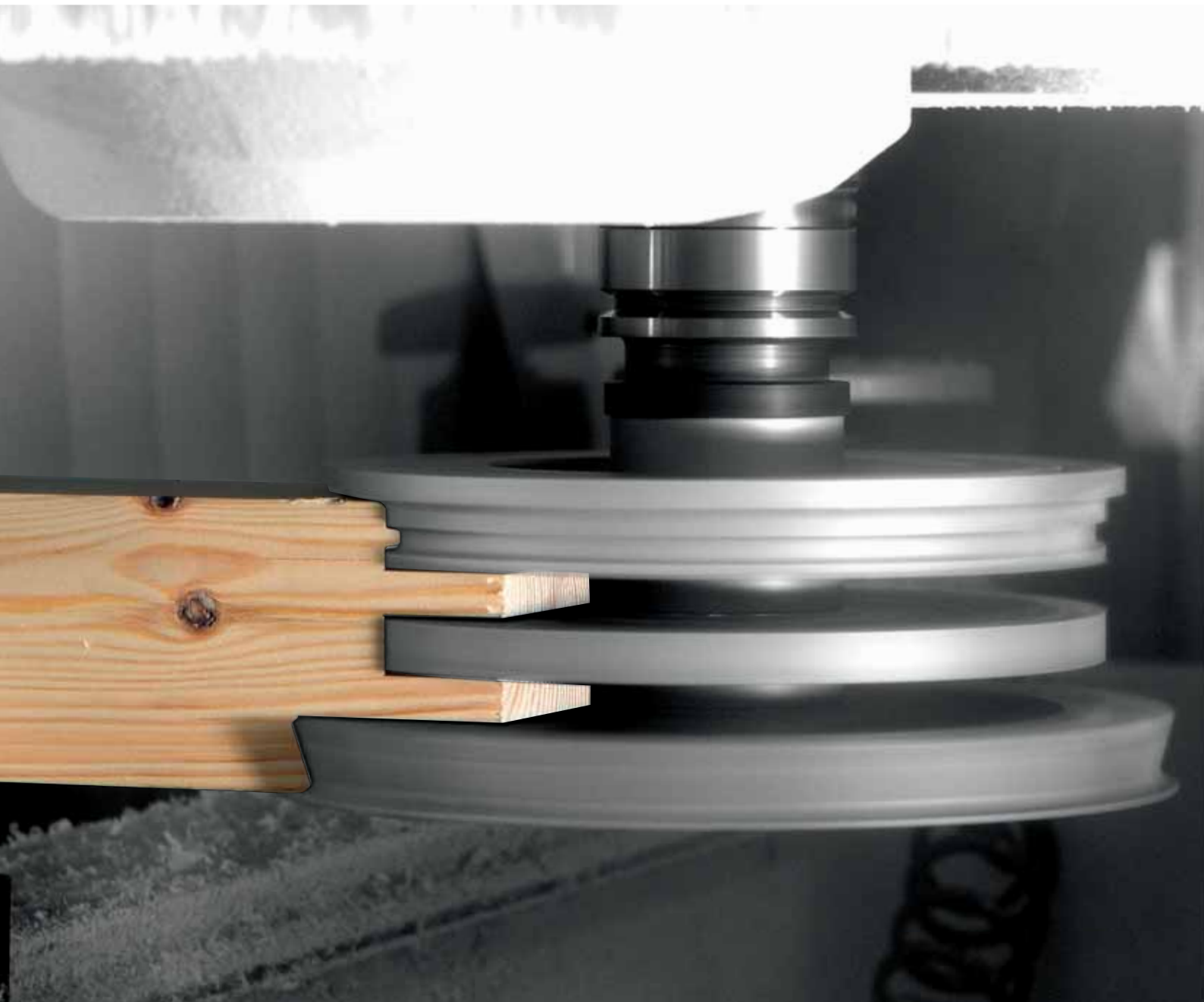


## CONFIGURABLE MACHINING HEAD

for any production requirement. Allows to perform all types of machining, from power routing with 5 interpolating axes to additional processes with specific auxiliary units.



**SAFETY SYSTEMS WITH NO FLOOR SENSOR**  
allowing easier loading of parts and exploiting the maximum length of the table for pendulum machining operations.



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machining head:  
main routing unit



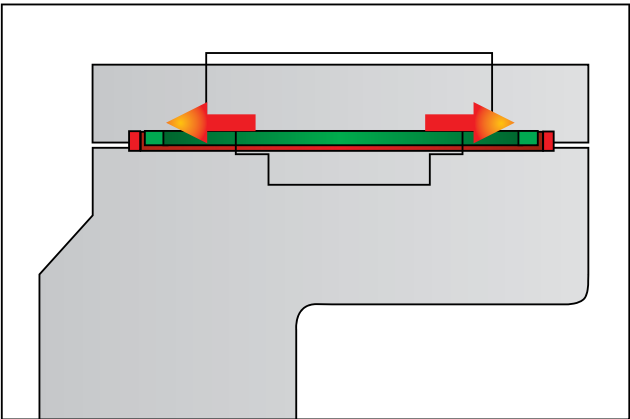
Compact and powerful, the Prisma head can use any type of tools, even large tools for intensive machining operations typical for door and window frames.



Possibility of working with blades with a diameter up to 350 mm oriented in any direction.



Thanks to its particular geometrical configuration and to its small dimensions the Prisma head allows to work on horizontal axis without the need to raise the piece.



TTS (Total Torque System): SCM's exclusive system that provides the Prisma 5-axes unit with the same stiffness found on 3-axes units.

Clean working environment: the conveyor helps to eliminate shavings and sawdust. Available for heads with 3 and 5 axes.

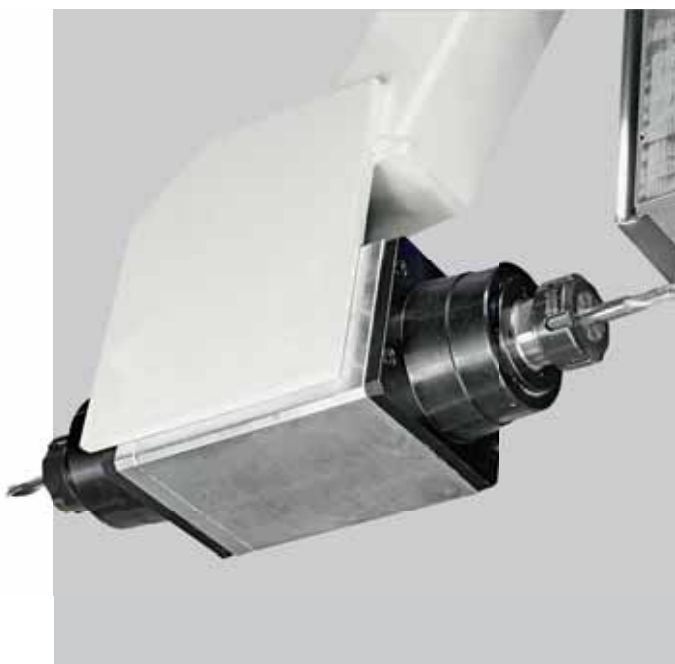
# accord 20 fx

aggregate machining units



## **BRC UNIT:**

cutting, routing and drilling, both vertically and horizontally, without the need for the tool changer. Fast and precise, it allows all the accessory machining to be performed with a single aggregate.



Horizontal unit with two outputs ideal for frequent and heavy machining.



From 14 to 30 independent spindles. The wide range of modules available provides the optimal solution to any drilling requirement.



tool magazine



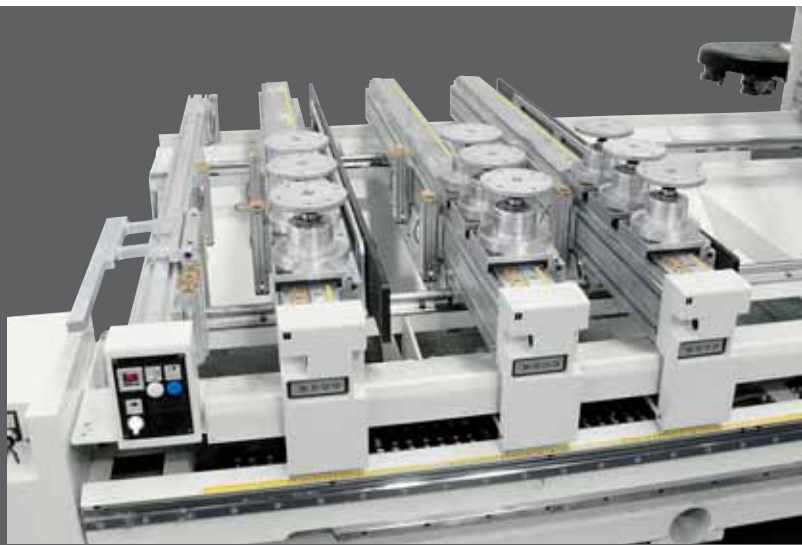
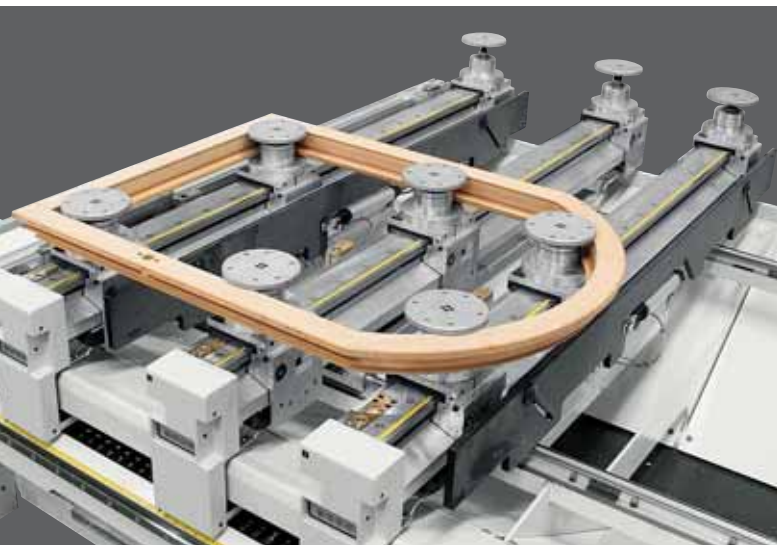
Tool magazine Rapid 16 or 24 fixed to the mobile portal to always have on board all the necessary tools.



TR-10/12 side tool magazine to have available the maximum of the tools.

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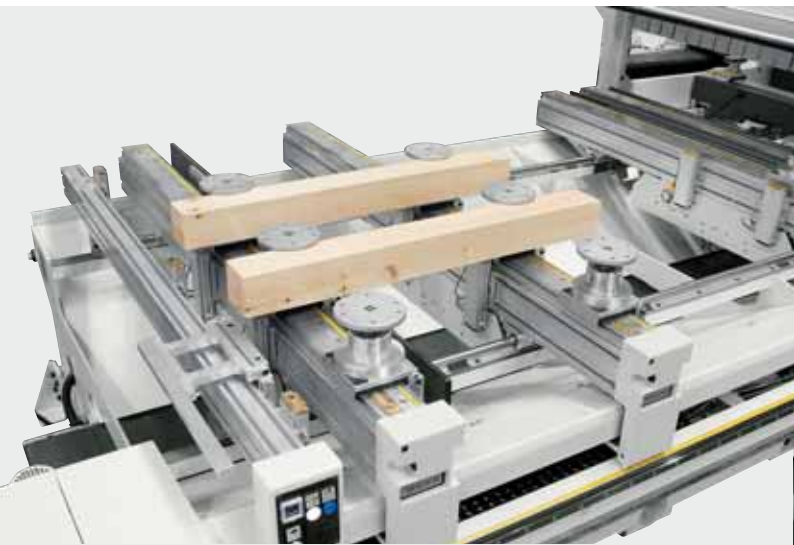
Matic worktable



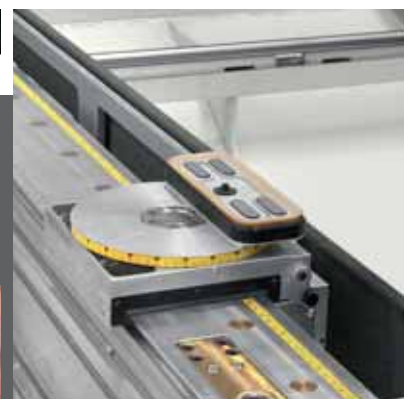
Matic is the fully automatic worktable managed directly by the software on the machine. Complete set-up in seconds, all bars and supports moving simultaneously, each driven by an independent motor. The many technical devices give this table lasting safety and reliability.



Switching from clamps to suction cups and vice versa is fast and practical. The quick coupling perfected by SCM allows operators to switch at the press of a button, without the need for external tools.



Perfect for machining pre-finished door and window frames, the pieces are loaded and unloaded easily and ergonomically using the area of plane near the operator and then transported into the working position automatically. The supports have cleaning blowers which remove all shavings from the sliding zone and on the workpiece hold-down base during clamp changes.



Suction cups can be adjusted through 360° by simply pressing the push-button on the base.



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"Pilot" and "Start" worktable



Worktable with manual movement: maximum freedom of use. Thanks to the quick coupling system for adding and removing clamps and suction cups with the utmost practicality.



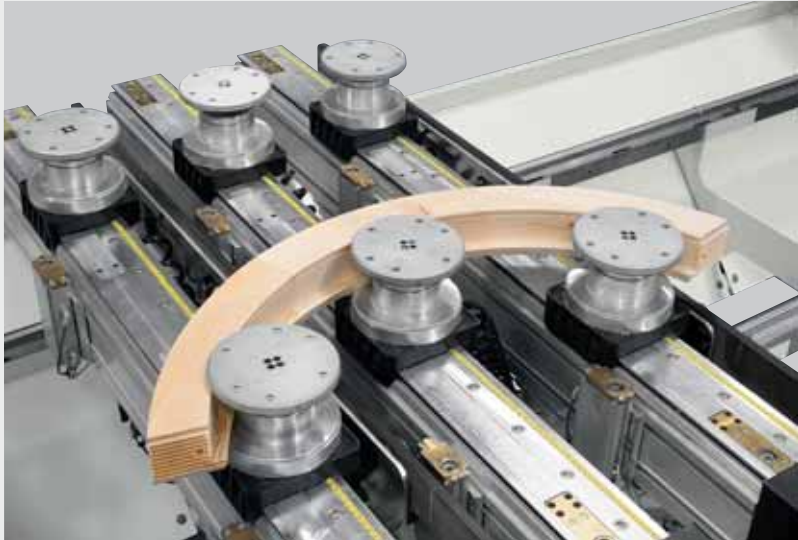
In the "Pilot" version positioning is guided and controlled by the workpiece program. Magnetic sensors detect the correct position of all components, eliminating the risk of collision.



On the color display 7" touch-screen of the mobile console "Tecpad" shows the position for each element and provides a real-time view of all movements until the correct position is reached.

Wireless console also available for maximum freedom of movement.

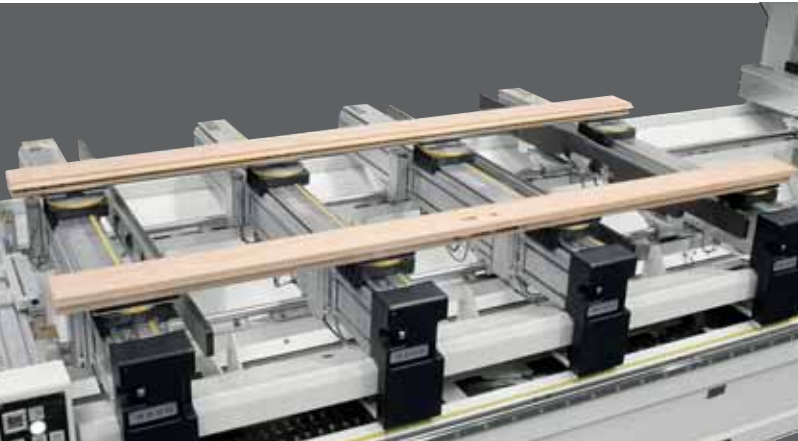
“Pilot” and “Start” worktable



Easy and safe positioning and clamping of any windows elements.



The optimal solution to hold-down workpieces of any shape.



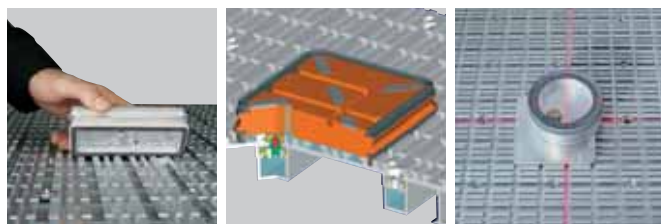
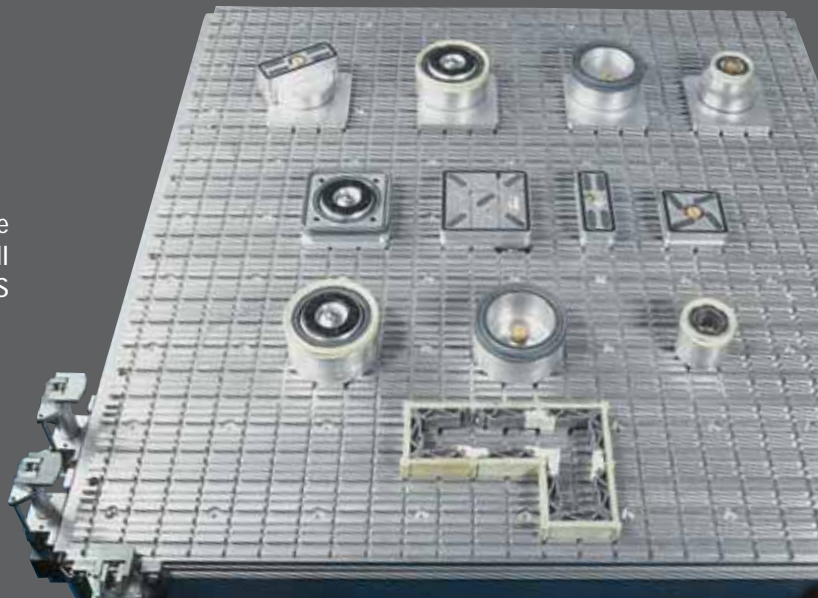
All the accessories necessary to position and hold down all the parts of a solid wood door simply and safely.



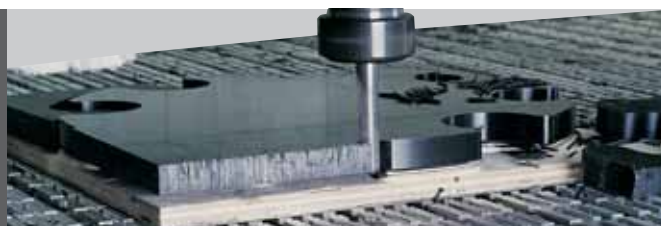
# accord 20 fx

multi-function worktable

The exclusive SCM multi-function worktable allows the use of a whole range of accessories designed to meet all workpiece support and hold-down requirements. The MPS system is extremely practical to use.



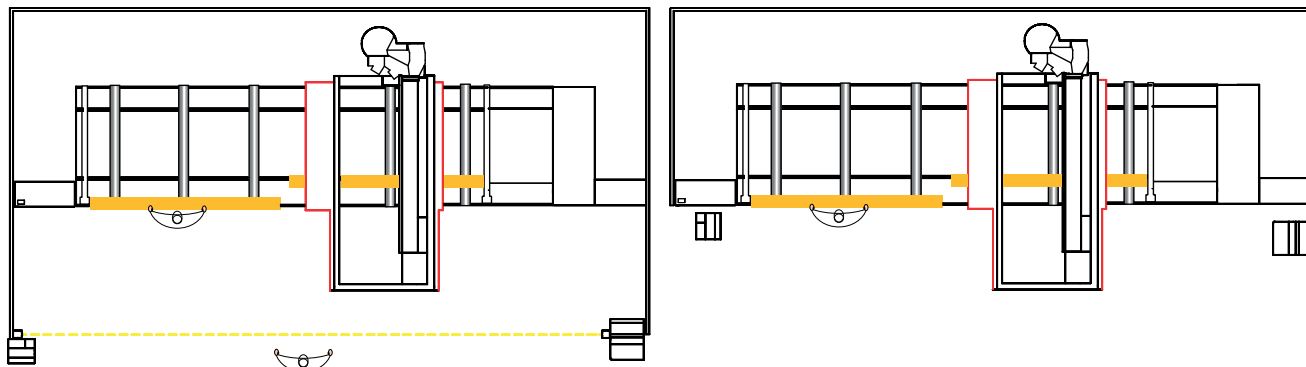
Fixturing operations are practical and easy. The exclusive aluminium profile has grooves and holes specially designed for optimum positioning of any type of support. This work is even faster using the laser pointer which shows the precise point where the suction cups must be placed.



The directly machined worktable guarantees lasting absolute precision and perfect flatness thanks to its high level of rigidity. Also ideal for machining plastics, resins and light alloys.



## “Pro Speed” and “Pro Space ” safety systems



“Pro Speed” : allows to use the machine at the maximum feed speed of 60 m/min when the operator is located outside the loading area and at a feed speed up to 25 m/min when the operator is located inside the loading area.

“Pro Space” : the loading area is completely free to minimize the space occupied. It allows to use the machine at a feed speed up to 25 m/min.

## Sav€nergy high performance and energy saving

### Sav€nergy

- Optimum feed speed depending on the material and tool
- Recovery of energy produced during electrospindle braking
- Optimisation of compressed air consumption
- Optimisation of vacuum pump speed of rotation, depending on the vacuum required
- Electrospindle heat exchanger management, depending on the operating temperature
- Automatic switch to stand-by for motors not being used for machining, manual or NC
- Opening of the exhaust outlets related to the machining in progress



**SAV€NERGY**

# accord 20 fx

xilog maestro **software** and proview **simulator**

## XILOG MAESTRO

**Xilog Maestro** is the new CAD/CAM powerful and user-friendly system dedicated to **SCM** machining centres.

Developed in the Windows® environment, it includes all the features and performance that allow easy, intuitive and effective programming even for people unfamiliar with Personal Computers or those using a machining centre for the first time.

- 3D graphics editor for workpiece, geometries, machining and worktables
- CAD mode geometries drawing functions
- Programming machining operations on angled faces
- Import DXF files: all formats with layer and geometries recognition
- Import Xilog Plus XXL and PGM files
- Macro writing via editor or scripting
- Additional software modules (optional) for door and window frames
- Production times calculation
- Teleservice



## PROVIEW

The **Proview** simulation software allows an accurate simulation of the programs to be run in the machine for:

- collision checks
- cycle time and productivity checks
- machining operation type and position checks

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.

SIN&ERT



CNC MACHINING CENTRE		
<b>Axes</b>		
X-Y axes speed	m/min	60
Workpiece passage	mm	170
<b>Electrospindle</b>		
3- and 4-axis electrospindles power	kW	8,5 - 12 - 13
Max. rotation	g/min	24.000
5-axis electrospindles power	kW	11
Max. rotation	g/min	24.000
Rear tool magazine	n° pos.	16 - 24
Side tool magazine	n° pos.	10 - 12
<b>BRC</b>		
Power	kW	3
Max. rotation	g/min	18.000
<b>Boring head</b>		
Spindles	n°	from 14 to 30
Power	kW	3
Rotation	g/min	2000 - 8000
<b>Installation</b>		
Suction opening diameter	mm	1 x 250
Suction air speed	m/sec	25
Suction air consumption	m3/hr	4400
Compressed air consumption	NL/min	170 - 300
Machine weight	Kg	6000 - 9000

BARS WORKTABLE	
Machining area X	Machining area Y
3680	1380
5020	1380
6360	1380
3680	1680
5020	1680
6360	1680

MULTI-FUNCTION WORKTABLE	
Machining area X	Machining area Y
3650	1320
4970	1320
6170	1320
3650	1600
4970	1600
6170	1600
3650	1840
4970	1840
6170	1840
3650	2120
4970	2120
6170	2120

 **scm**  
 **minimax**  
 **scm tecmatic**

 **scm**

 **routech**

 **celaschi**

 **dmc**

 **superfici**

 **sergiani**

 **gabbiani**

 **morbidelli**

 **mahros**

 **stefani**

 **cpc**

 **sag**

 **scmgroup**  
engineering

 **delmac**  
engineering

 **scmfonderie**

 **steelmec**

 **hiteco**

 **es**

 **csr**

 **CMS Cms**  
wood technology

 **CMS Cms**  
advanced materials technology

 **CMS Brembana**  
stone technology

 **CMS Brembana**  
glass technology

 **CMS CmsPlast**  
plastic technology

 **CMS Tecnocut**  
waterjet technology

 **CMS Balestrini**



| **1**  
large integrated  
group  
/

| **18**  
production sites  
/

| **29**  
specialist brands  
/

| **21**  
foreign branches  
/

| more than **50**  
years in business  
/

| **70%**  
exported  
/

| **350**  
agents and  
distributors  
/

| **365**  
registered patents  
/

| **500**  
engineers  
/

| **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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