double-end tenoners

celaschi p40

automatic double-end tenoner



scm
woodworking technology

THE PERFECT COMBINATION



TO MEET YOUR NEEDS FOR



QUALITY PRODUCTIVITY AND BUDGET

6
CELASCHI P40

PERFORMANCES



Work piece transport system reaching feed speed up to 48 m/min.

High production yield and processing accuracy.

QUALITY



Entirely designed and made in Italy, every machine is subjected to rigorous checks during the assembly phase.

Extremely high quality technical perfection for maximum competitive advantage.

Reduced unproductive time in set-up operations and no compromise on accuracy working with electrospindles with HSK connection.

RELIABILITY



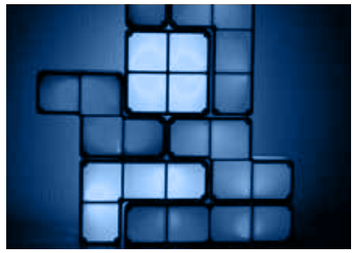
High quality materials guarantee long-lasting efficiency and reliability of the machine.

FLEXIBILITY



Possibility to process panels in a **wide range of materials** for the most varied applications.

CONFIGURABILITY



No limits to profiles to be implemented with the operating units provided with horizontal, vertical and angular adjustment.

EASE OF USE



Programming is immediate and at everyone's reach with just one touch from HMI.

Quick transition between the various operations and unproductive time reduced to a minimum.

Maximum ergonomics thanks to the new console with 21.5" touch screen which allows a control of the machine functions in the most effective and quickest way possible.

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MAESTRO Software

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Integrated solutions

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Modularity

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Technical data

OVERVIEW OF TECHNICAL FEATURES

TECHNOLOGICAL ADVANTAGES

Maximum ergonomics, *thanks to the new console with 21.5" touch screen.*

Programming is immediate and at everyone's reach *with the new software* ***Maestro active square*** *with a modern and intuitive graphical interface.*



Correct hold-down of the work piece *by pressure system with adjustable belt with electronic positioning.*



Total absence of vibrations *thanks to the robust monobloc structure in steel strongly ribbed.*

Possibility to process work pieces of large *dimensions, thanks to the mobile beam opening up to 6100 mm (on request).*

Silence, cleaning and safety *thanks to the complete protection enclosure with opening by gas springs.*



Wide visibility *thanks to the large window and to LED lightning.*



Stability and longevity *thanks to the use of cutting edge work piece transport chains.*



Readiness and positioning *accuracy with recirculating ball screws, high performance self-lubricated guides and Brushless rapid positioning.*



Possibility to choose from ***manual, automatic and semiautomatic loading system.***



Adaptability even to larger and more flexible work pieces *thanks to the central, self-centering support with rollers.*



Efficient shavings extraction with hoods *tailored to each tool.*



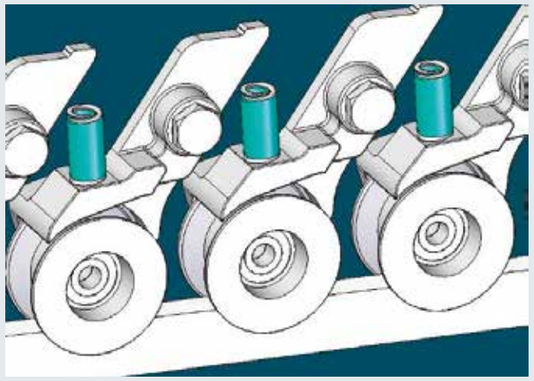
Flexibility and productivity *thanks to the operating units with electronic positioning controlled by inverter and equipped with HSK connection.*

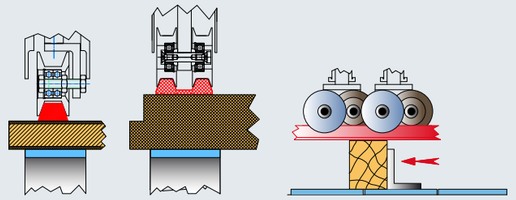
WORK PIECE TRANSPORT SYSTEM

HIGH PROCESSING ACCURACY AND PRODUCTION YIELD EVEN IN HEAVY DUTY CONDITIONS



Top pressure beams with spaced pulleys and vertical adjustment according to work piece density, dimensions and profile to always guarantee a precise and uniform movement.
IDEAL EVEN FOR THE MOST DELICATE COVERING.

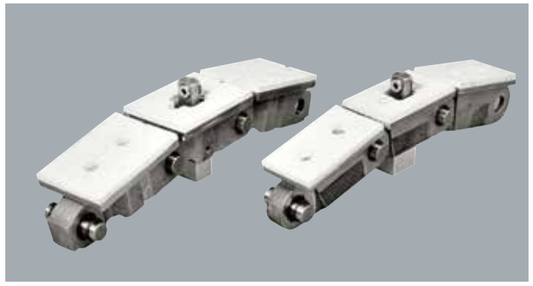




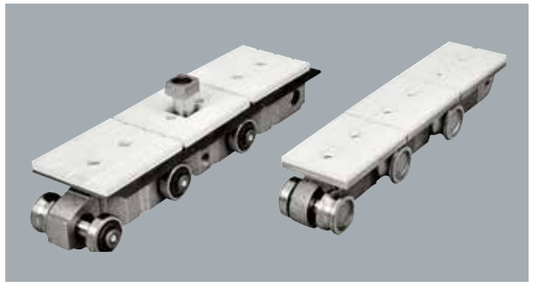


Feed chain tracks are the result of modern concepts aimed at meeting the most varied and severe production requirements.
Made of a high precision chain with minimum deformability and adjustable speed, they guarantee smooth sliding and uniform feed as well as precision, stability and silence.

Sliding feed chain from 52 or 65 mm for feed speed up to 36 m/min.



Rolling feed chain from 60 or 75 mm for feed speed up to 48 m/min.





THE QUALITY OF YOUR PRODUCTS IS BORN FROM OUR **METICOLOUS ATTENTION IN THE MANUFACTURING OF MACHINES**



WORK PIECE TRANSPORT SYSTEM INCREASINGLY RELIABLE AND PERFORMING

Thanks to the chain tracks feeding performed by Gantry axis.



Chains' dogs made of strengthened and rectified steel, ensuring perfect squaring.

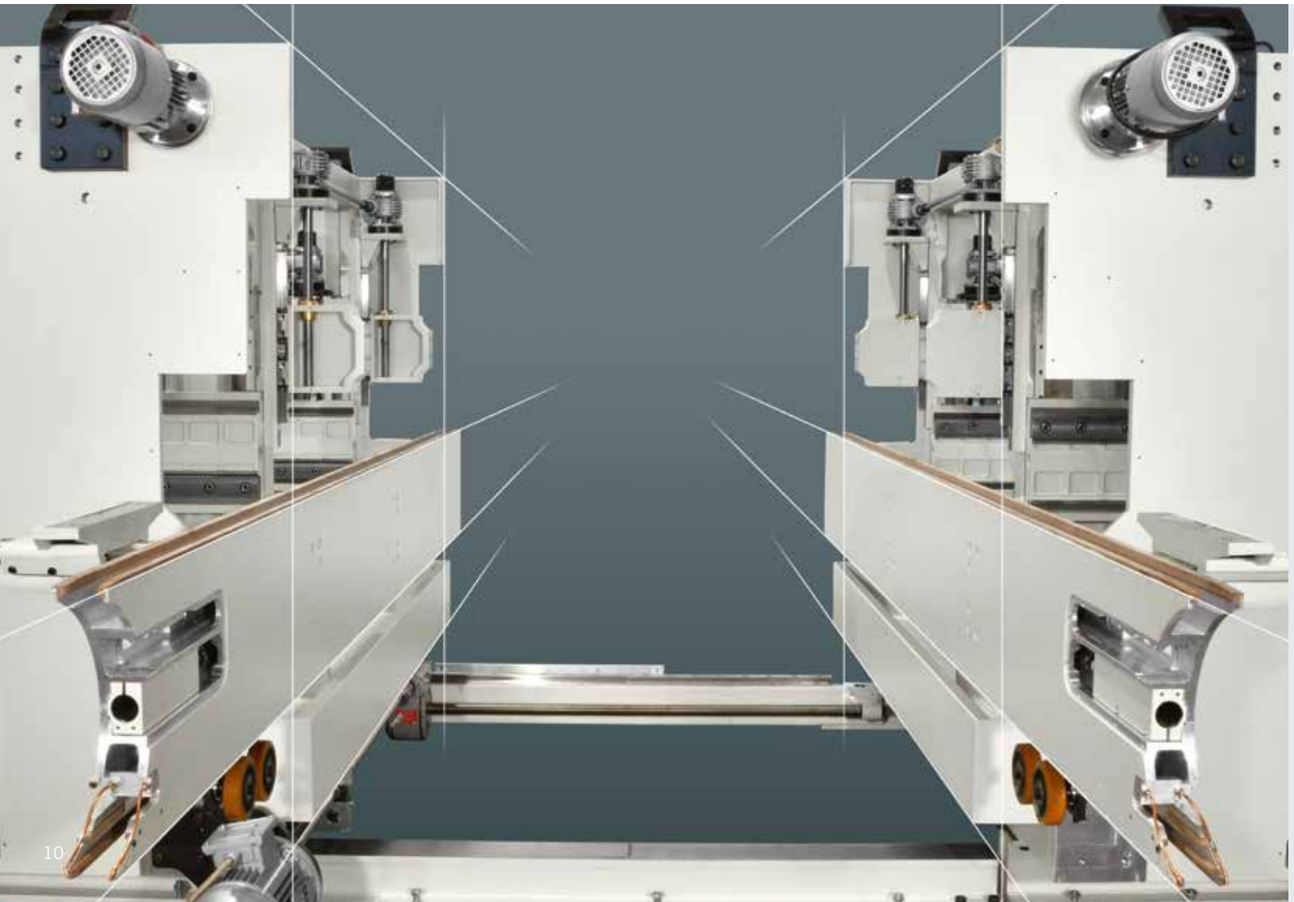
ELECTROSPINDLES WITH HSK CONNECTION:

Great finish quality and total absence of vibrations using electrospindles with HSK connection: the most performing on the market, with speed of rotation up to 12000 rpm, power up to 18 kW and with the possibility of mounting tools up to 250 mm in diameter.

SAFETY AT THE HIGHEST LEVELS

thanks to the OVERSPEED and ZEROSPEED functions.





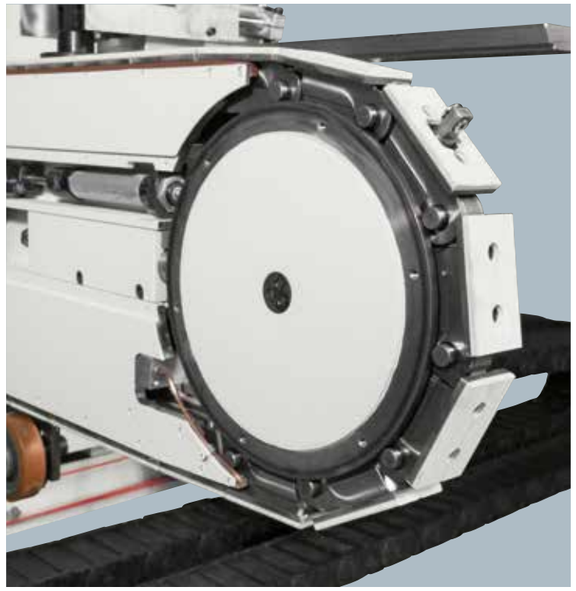




A quality control system ensures compliance of the products, in strict observance with EC regulations.
From flatness and parallelism of the machine base to the final tuning, each machine during the assembly phase is subjected to about 60 intermediate checks.

REDUCTION OF UNPRODUCTIVE TIME

The chain tracks for workpiece transport ensure maximum reliability even under heavy duty conditions.
The coupling precision avoids the vibrations and extends the bearings life.





Automatic lubrication system of the guides for the mobile beam positioning, of pressure beams and each brushless axis. It avoids the ordinary manual maintenance of handling machine parts.



Perfect extraction with conveniently sized hoods for each tool.



POSITIONING OF MOBILE BEAM THROUGH PRISMATIC RECIRCULATING BALL GUIDES

It guarantees greater smoothness and less wear over time in favour of precision.



Protective accordion devices against abrasive dust prolong the life of mechanical parts and significantly reduce maintenance.

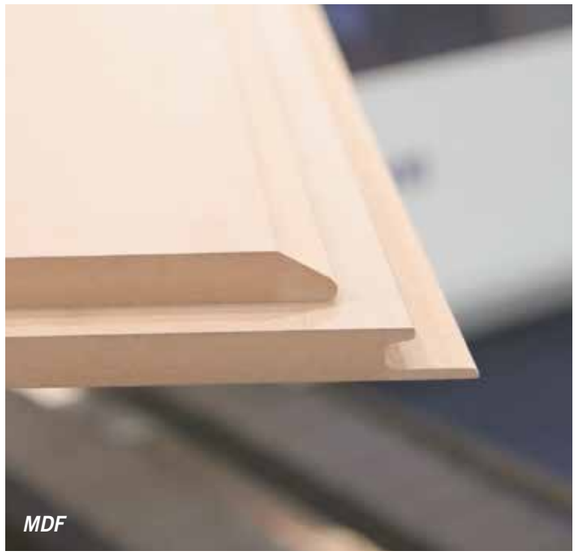


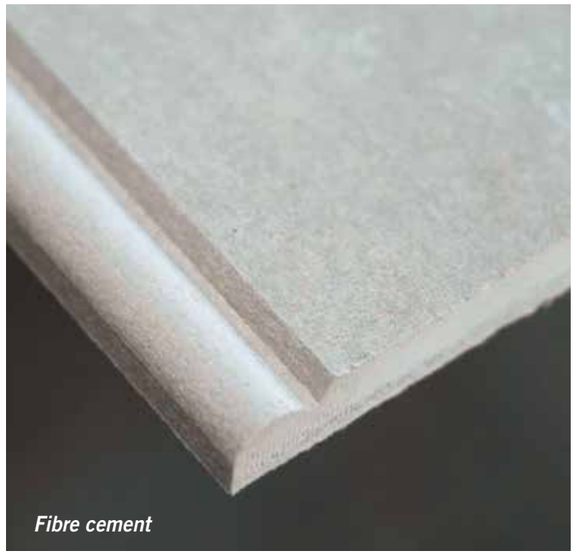
MATERIALS AND APPLICATIONS

Exceptional finish quality on many materials, even in the “extra wood” sector, for the production of furniture elements, partition walls, hollow core doors, coatings, false ceilings and much more.

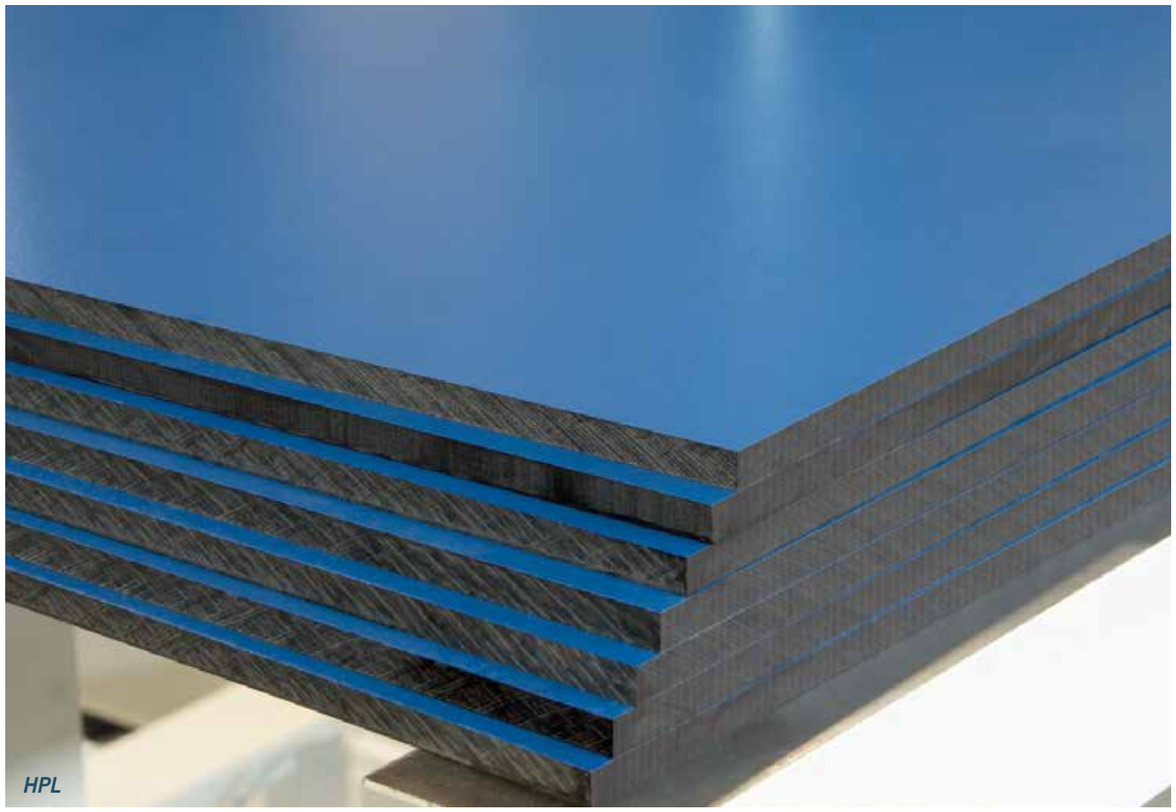

Solid wood


Solid wood


MDF


Fibre cement


Chipboard


HPL

OPERATING UNITS





Independent scoring unit

Power: 3 kW at 6000 rpm
Tool diameter max: 180 mm

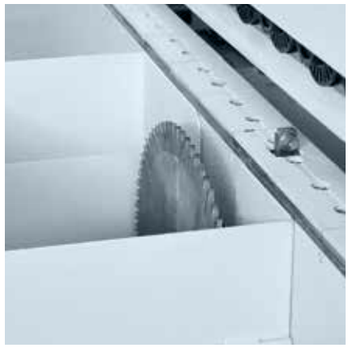


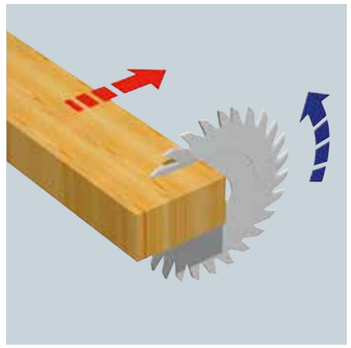


Scoring and hogging unit

Pneumatic or brushless automatic devices guarantee no chipping on the work piece bottom and rear side during crosswise processing.

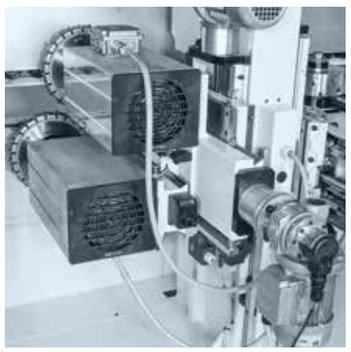
Power: 3 kW at 6000 rpm
Tool diameter max: 180 mm





Operating unit with cutting-off saw blade

Power: 6 kW at 4500 rpm
10 kW at 4500 rpm
Tool diameter max: 300 mm

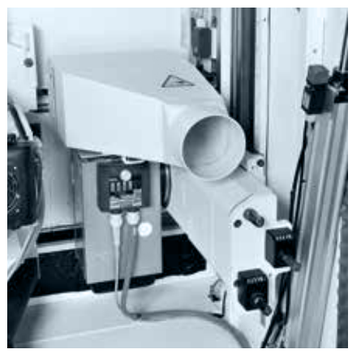




Double hogging unit

It can host tools up to 250 mm diameter, it allows easy squaring of panels with high thickness.

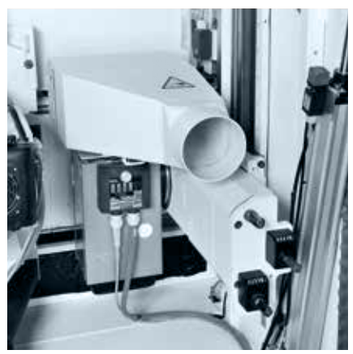
Power: 2x6 kW at 6000 rpm
2x10.5 kW at 6000 rpm
2x13.2 kW at 6000 rpm
Tool diameter max: 250 mm





Operating unit

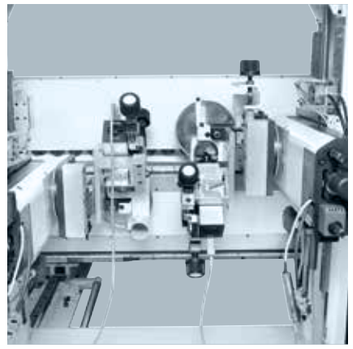
Power: 6 kW at 6000 rpm
10.5 kW at 6000 rpm
13.2 kW at 6000 rpm
Tool diameter max: 220 mm





Operating unit with HSK 63F electrospindle

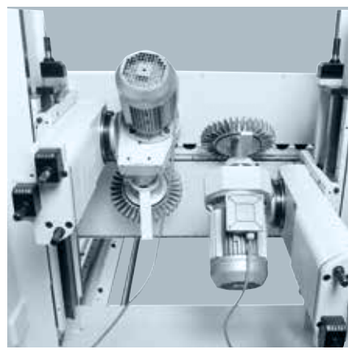
Power: 1.4 kW at 750-12000 rpm
5-8,5 kW at 1000 - 12000 rpm
9-10 kW at 9000 - 10000 rpm
Tool diameter max: 180 mm

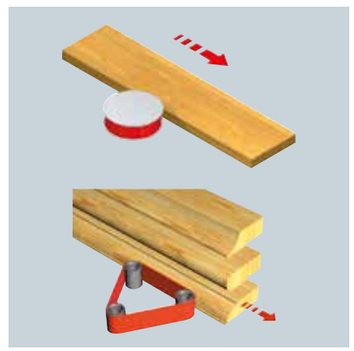




Edge trimming unit top and/or bottom

Power: 1.1 kW at 12000 rpm
2x1.1 kW at 12000 rpm





Sanding and/or brushing unit

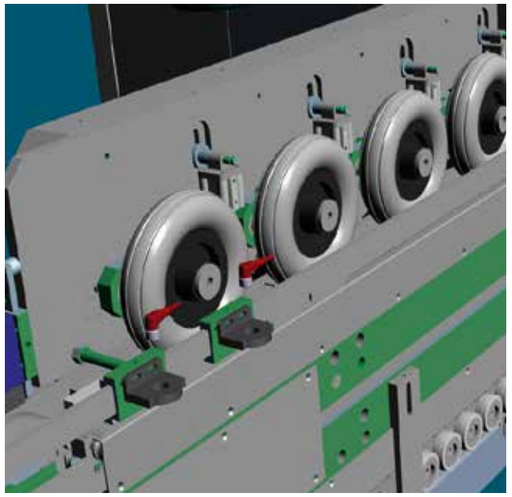
Always perfect finish quality with the system of mechanical or electronic wear compensation.

Belt sander for an optimal finishing on any type of profile.

Power: 1.8 kW at 700-2000 rpm

SOLUTIONS FOR AUTOMATIONS

Possibility of choosing the machine configuration: only lengthwise, only crosswise, lengthwise and crosswise processing.



Device for automatic feeding of panels from handling equipment to machine infeed.

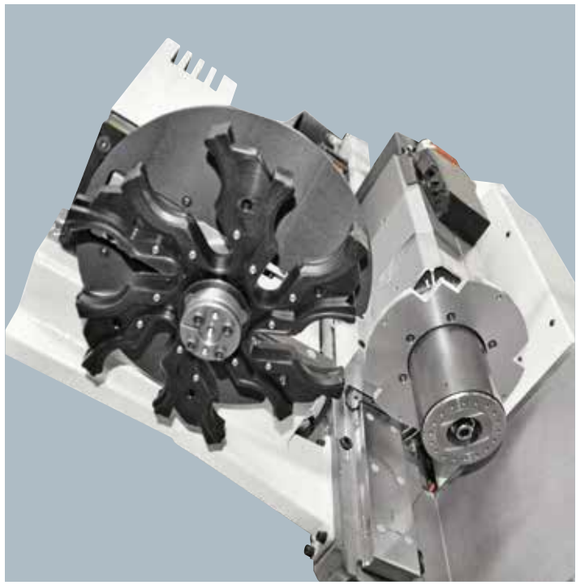


Double belts at machine infeed and/or outfeed with speed regulated by inverter.



Aligning device to center the panel perfectly.

NO WORRIES



AUTOMATIC TOOL CHANGE: RAPID 6
6-position tool store for maximum tool diameter up to 150 mm. Plastic collets for tool locking. Fast rotation by brushless axis.



SIMPLE CONTROLS, ADVANCED TECHNOLOGY
Automatic set-up of programs by barcode.



Maximum comfort with LED lighting.

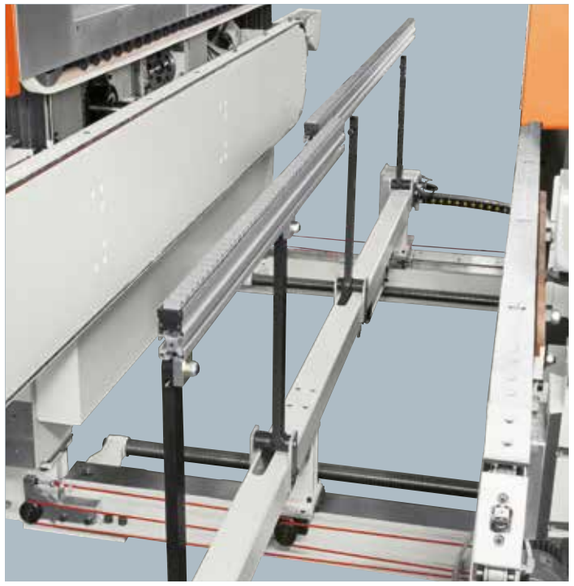


Easy internal cleaning thanks to the discreet and functional wiring.

The complete protection enclosure reduces noise and dust to a minimum while ensuring a wide view of machine inner part and complete operator safety.



SAFETY PLC
Control of all safety functions.



CENTRAL SUPPORT FOR FLEXIBLE WORKPIECES.
It can be a plain shaft support or with rollers; manually adjustable, fixed or retractable self-centering.



EYE-M PRO CONSOLE

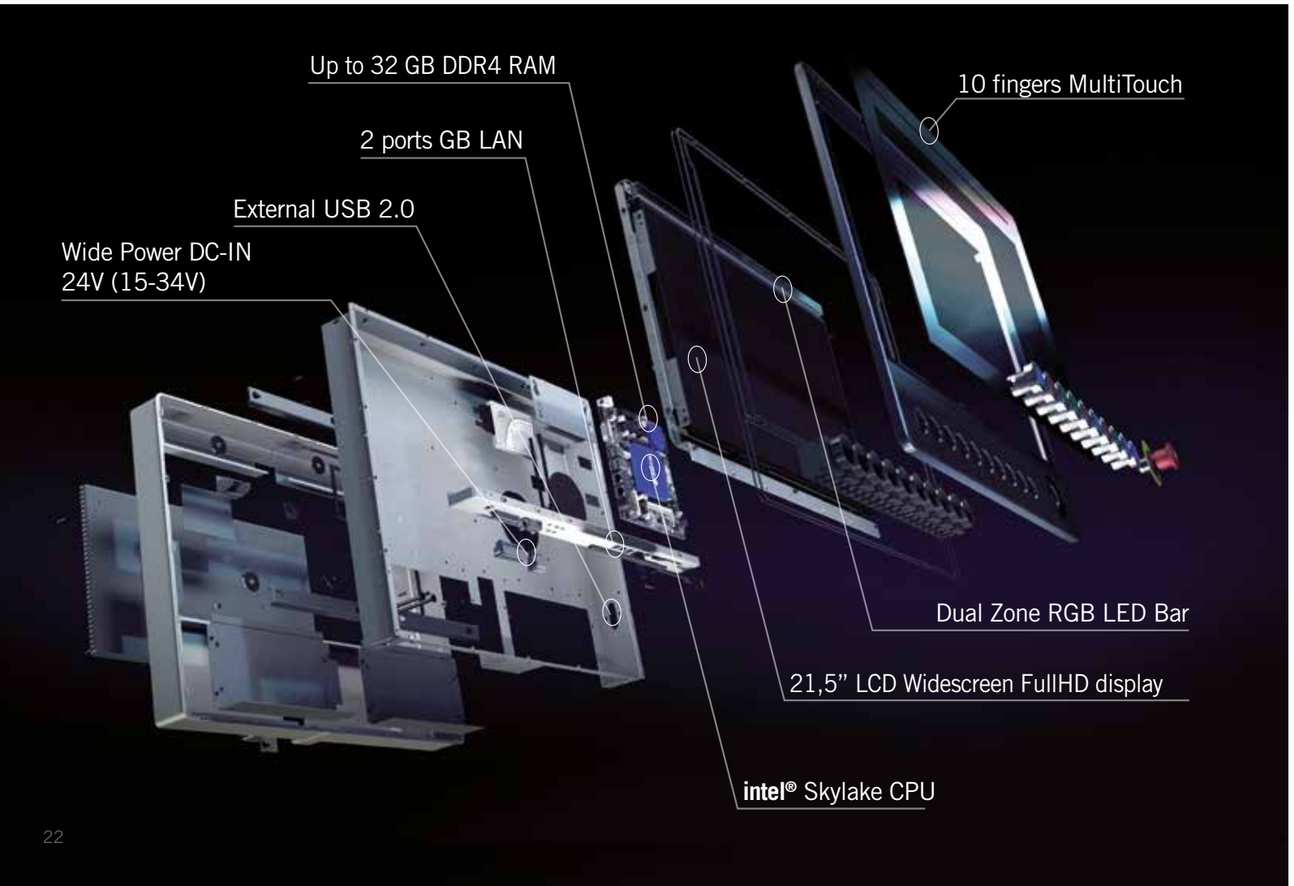
Programming is at everyone's reach thanks to touch screen control panel, with an intuitive, powerful, customized operator interface.

TELEASSISTANCE

The new **eye-M PRO** console allows connection via internet with the SCM Service. Our engineers can so access remotely at all machine levels to perform diagnostics, solve problems or update the machine logic in real time.



3 possible installations: in the electrical cabinet, machine onboard, on independent mobile support.



The integrated LED bar allows the operator to know at any time the status of the machine, even at a distance, at a glance.



Maestro Digital Systems

SMART SOFTWARE AND DIGITAL SERVICES TO ENHANCE PRODUCTIVITY OF WOODWORKING AND FURNITURE INDUSTRIES.

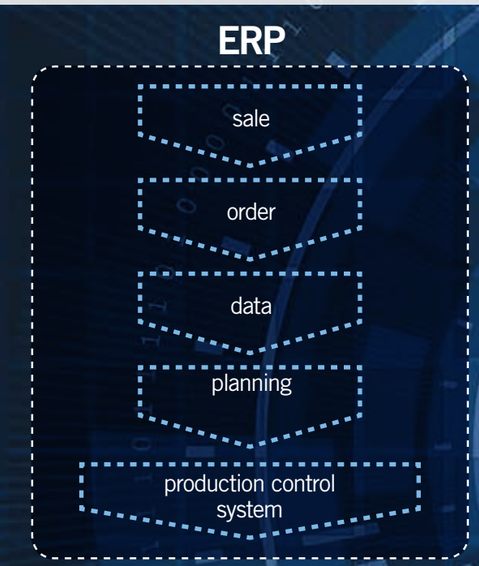
SCM accompanies woodworking companies throughout their whole process combining machines with matching software solutions and digital services, with a constant strive to enhance company productivity.

The software solutions powered by SCM are developed to optimize machine usage as well as the entire process, providing integration with the different software existing in the company.

Maestro active square

Maestro active square is the human machine interface software for double-end tenoners. The software allows to create working programs and monitor the machine in real time during processing. At the end of the process, historical data and reports can be sent to the company information system.







SOFTWARE

Factory

Maestro
active square

THE SOFTWARE THAT MAKES YOUR WORK EASY

FUNCTIONS

Real time control of the process
Maestro active square allows creating, saving and editing of working programs and their immediate start.
It also detects the machine status, monitors the production and records historic data.

Full control of production performances
The creation of customizable reports by operator, shift, program, forecast period (and much more) allows to monitor, optimize and improve the production performance.

Organize your production
Maestro active square allows to create different users with different roles and authorizations (e.g. operator, maintainer, administrator, ...). Besides, it is possible to detect activities, productivity and events that occurred in a specific time interval.

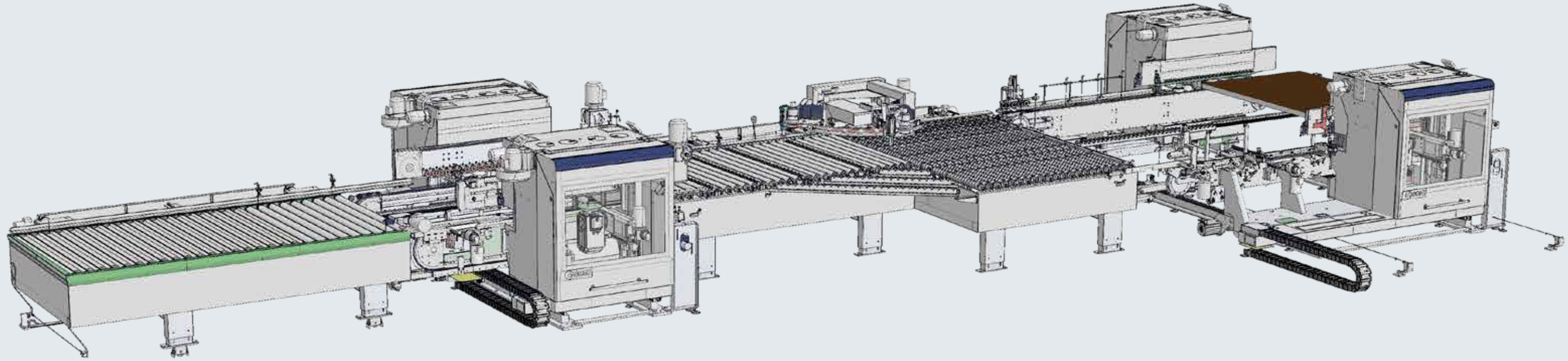
Total quality of the finished product
With Maestro active square the quality of the finished piece is no longer put at risk by worn tools. The new “Tool Management” function sends notification messages as the tool reaches its end of life and recommends its replacement at the most appropriate time.

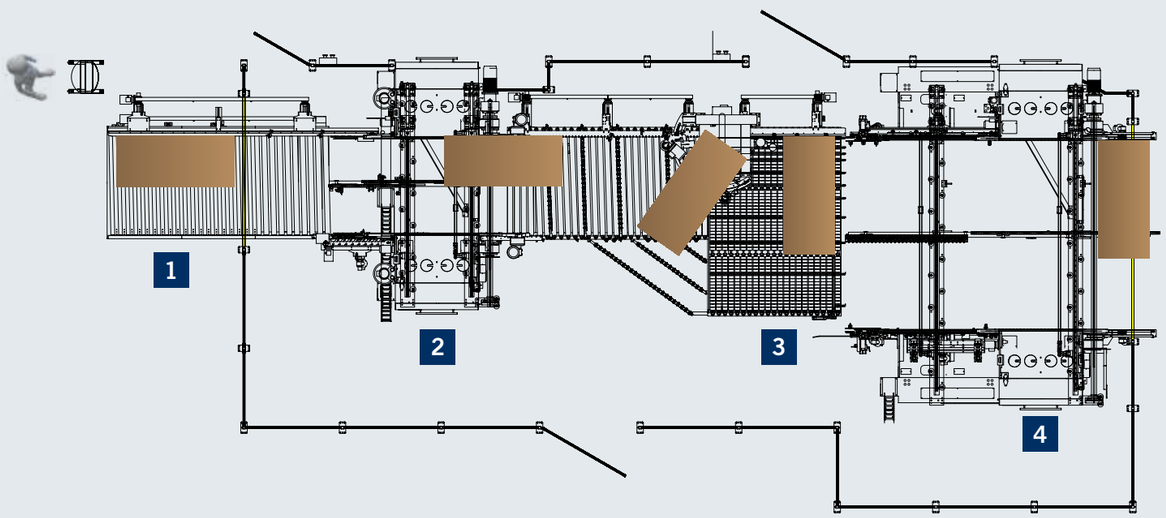
Simplified diagnostics
Maestro active square guides the operator in the identification phase of alarms and warning indicators for the easy resolution of errors.

INTEGRATED SOLUTIONS

EVERY PROBLEM IS A CHALLENGE FOR US

In close collaboration with you, we identify, study and realize complete and tailor-made solutions according to the type of products, productivity and available space. **Celaschi p40** has all the requirements to be used successfully in squaring lines for mass production.



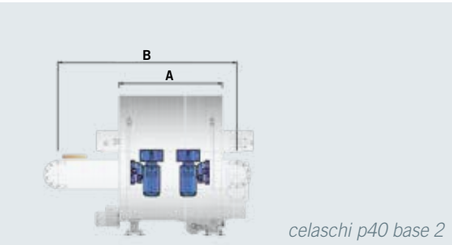


SQUARING LINE

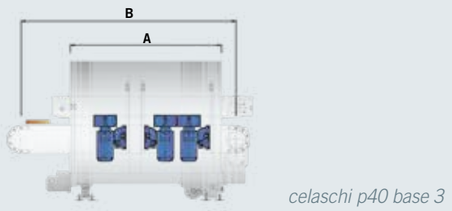
1. Loading roller conveyor
2. Squaring machine for lengthwise processing
3. 90 ° Transfer
4. Squaring machine for crosswise processing

MODULARITY

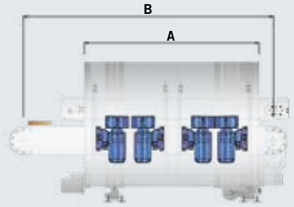
Celaschi p40 is characterized by 4 different versions and a variety of standard and optional accessories, that make it a machine suited to the processing needs of today and tomorrow.



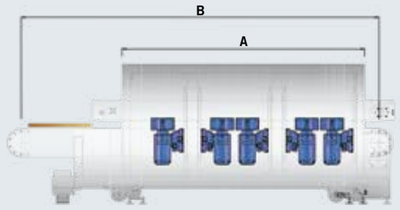
celaschi p40 base 2



celaschi p40 base 3



celaschi p40 base 4



celaschi p40 base 5

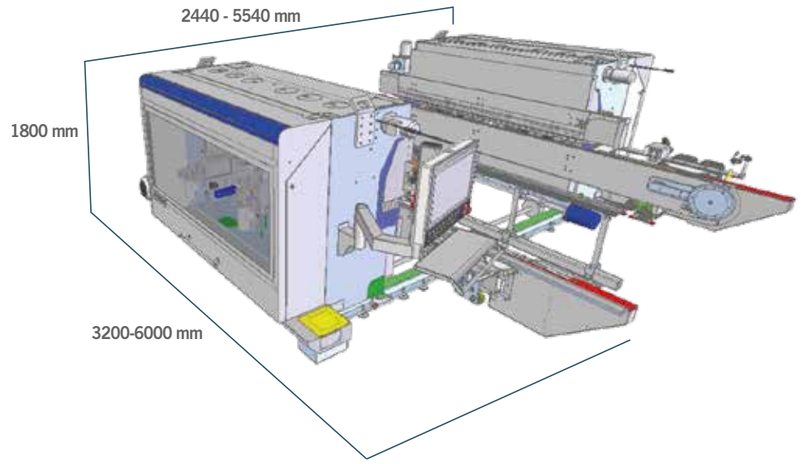
	A [mm] Beam length	B [mm] Chain tracks centre distance for work piece feed
Celaschi p40 base 2		
Loading working length 400 mm	1300	2250
Loading working length 850 mm	1300	2700
Loading working length 1300 mm	1300	3150
Loading working length 2180 mm (on request)	1300	4050
Celaschi p40 base 3		
Loading working length 400 mm	1900	2700
Loading working length 850 mm	1900	3150
Loading working length 1300 mm	1900	3600
Celaschi p40 base 4		
Loading working length 400 mm	2200	3150
Loading working length 850 mm	2200	3600
LLoading working length 1300 mm	2200	4050
Loading working length 1700 mm (on request)	2200	4500
Celaschi p40 base 5		
Loading working length 850 mm	3050	4500
Loading working length 1300 mm	3050	4950

TECHNICAL DATA

celaschi p40
automatic double-end tenoner

WORK PIECE TRANSPORT SYSTEM		
Maximum speed	m/min	48
Chain tracks centre distance	mm	2250 - 4950
Dogs pitch	mm	450
MOBILE BEAM		
Maximum beam opening	mm	3100*
Positioning speed	m/min	2,8 - 10
WORK PIECE DIMENSIONS		
Width	mm	150 - 3160*
Thickness	mm	3 - 150
TOP PRESSURE BEAMS WITH ELECTRONIC POSITIONING		
Vertical stroke	mm	20
Vertical adjustment	mm	3 - 150
Positioning speed	m/min	0,25

**special executions on request*





ENERGY ONLY WHEN YOU NEED IT

Sav€nergy allows you to operate with the devices only when really necessary. The machine moves in stand-by automatically when there are no panels to process.

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 prescribed by CE Norms.

Maximum recorded noise levels based on functioning parameters established by ISO 7960 - 1995 Annex E. Acoustic pressure while working 89 dB(A) (measured according to EN ISO 11202:2010, K variance = 4dB). Acoustic power while working 104 dB(A) (measured according to EN ISO 3746:2010, K variance = 4dB). Despite the existence of a correlation between "conventional" noise emission values mentioned above and average personal exposure of the operators during the 8 hours, these also depend on the specific functioning conditions, length of exposure, acoustics characteristics of the working environment and by the presence of additional sources of noise, that is the number of machines and adjacent processes.

PROMPT AND EXPERT TECHNICAL SUPPORT THROUGH **A NETWORK OF 1000 TECHNICIANS AND AN INVENTORY OF 36,000 SPARE PARTS.**

HIGHLY SPECIALISED TECHNICIANS, EFFICIENT MANAGEMENT AND 6 SPARE PARTS BRANCHES AROUND THE WORLD GUARANTEE A CLOSE, SAFE AND EFFECTIVE TECHNICAL SUPPORT.

SERVICE

SCM provides a service that goes beyond the purchase, to guarantee the long term performance of your technological production system and peace of mind for your business.

A COMPLETE RANGE OF AFTER-SALES SERVICES

- installation and start-up of machines, cells, lines and systems
- tailored training programs
- telephone support to reduce times and costs when machines are not working
- preventive maintenance programs to guarantee long term performance
- complete renovation of machines and plants to renew the added value of the investments
- custom upgrading to update machines and plants and meet new production requirements

SPARE PARTS

SCM Group can count on 140 spare parts professionals worldwide to meet any request with real time shipments.

36,000 SPARE PARTS
Our spare parts inventory, with a value of 12 million euros, covers every single machine

SPARE PARTS GUARANTEED
We guarantee also hard to find parts, with 3,5 million euros invested in "critical" spare parts.

IMMEDIATE AVAILABILITY
Over 90% of orders received are carried out the same day thanks to the huge inventory available.

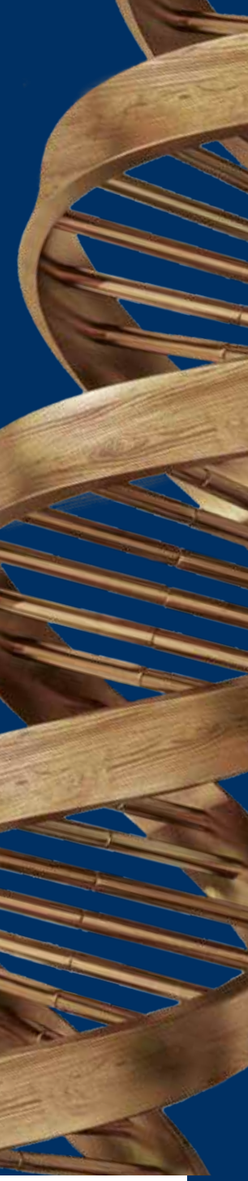
6 BRANCHES AROUND THE WORLD
The spare parts service can count on worldwide support (Rimini, Singapore, Shenzhen, Moscow, Atlanta, São Bento do Sul

500 SHIPMENTS A DAY



THE STRONGEST WOOD TECHNOLOGIES ARE IN OUR DNA

SCM. A HERITAGE OF SKILLS IN A UNIQUE BRAND
Over 65 years of success gives SCM the centre stage in woodworking technology. This heritage results from bringing together the best know-how in machining and systems for wood-based manufacturing. SCM is present all over the world, brought to you by the widest distribution network in the industry.



65 years history
3 main production sites in Italy
300.000 square metres of production space
20.000 machines manufactured per year
90% export
20 foreign branches
400 agents and dealers
500 support technicians
500 registered patents

In SCM's DNA also strength and solidity of a great Group. The SCM Group is a world leader, manufacturing industrial equipment and components for machining the widest range of materials.

SCM GROUP, A HIGHLY SKILLED TEAM EXPERT IN INDUSTRIAL MACHINES AND COMPONENTS

INDUSTRIAL MACHINERY

Stand-alone machines, integrated systems and services dedicated to processing a wide range of materials.

- scm — WOODWORKING TECHNOLOGIES
- Cms — TECHNOLOGIES FOR PROCESSING COMPOSITE MATERIALS, ALUMINIUM, PLASTIC, GLASS, STONE, METAL

INDUSTRIAL COMPONENTS

Technological components for the Group's machines and systems, for those of third-parties and the machinery industry.

- HITECO — SPINDLES AND TECHNOLOGICAL COMPONENTS
- es — ELECTRIC PANELS
- steelmec — METALWORK
- scmfonderie — CAST IRON

scm woodworking technology | *is more*

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