

double-end tenoners

# celaschi p60

automatic double end tenoner



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automatic double end tenoner

Ideal for squaring, tenoning, profiling, sizing, shaping, drilling, sanding etc. on any type of material:  
solid wood, panels, non wood materials (PVC, fibre cement, rock wool, heat and acoustic insulating material, chalk etc.)

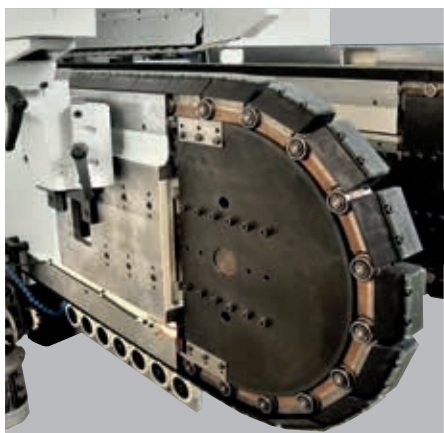
- **LARGE VARIETY IN TERMS OF MACHINING, DIMENSIONS AND SHAPES THANKS TO THE MODULAR MACHINE STRUCTURE AND MACHINING UNITS AVAILABLE.**
- **HIGH PRODUCTION CAPACITY AND MACHINING PRECISION THANKS TO THE “ALL SYSTEM” WORKPIECE TRANSPORT SYSTEM THAT CAN REACH FEED CHAIN SPEED UP TO 250 M/MIN.**
- **FLEXIBILITY AND LOW SET UP TIMES THANKS TO THE HSK TECHNOLOGY, ELECTRONIC ANTI-SPLINTERING DEVICE AND “FULL CNC” CONFIGURATIONS.**
- **TAILOR-MADE SOLUTIONS TO MEET ANY PRODUCTION REQUIREMENT AND FIT TO THE AVAILABLE SPACE.**





# celaschi p60

technological advantages



## **“ALL SYSTEM” WORKPIECE TRANSPORT SYSTEM**

High machining precision and long lasting reliability in every working conditions. High feed speeds on 24/7 working shifts thanks to the “All System” workpiece transport system:

- Type rolling chain: feed chain speed up to 250 m/min.
- Automatic dogs with wide face to not damage the boards and CNC height adjustment.
- Top pressure hold down system with pressure spring-loaded wheels that are mounted on a movable connecting rod.



## **CNC SHAPING DEVICE “COPYTRONIC”**

Machining components for furniture, table tops, bed frames, garden furniture, wardrobes and kitchens etc. with shaped profile or rounded corners is easier than ever.

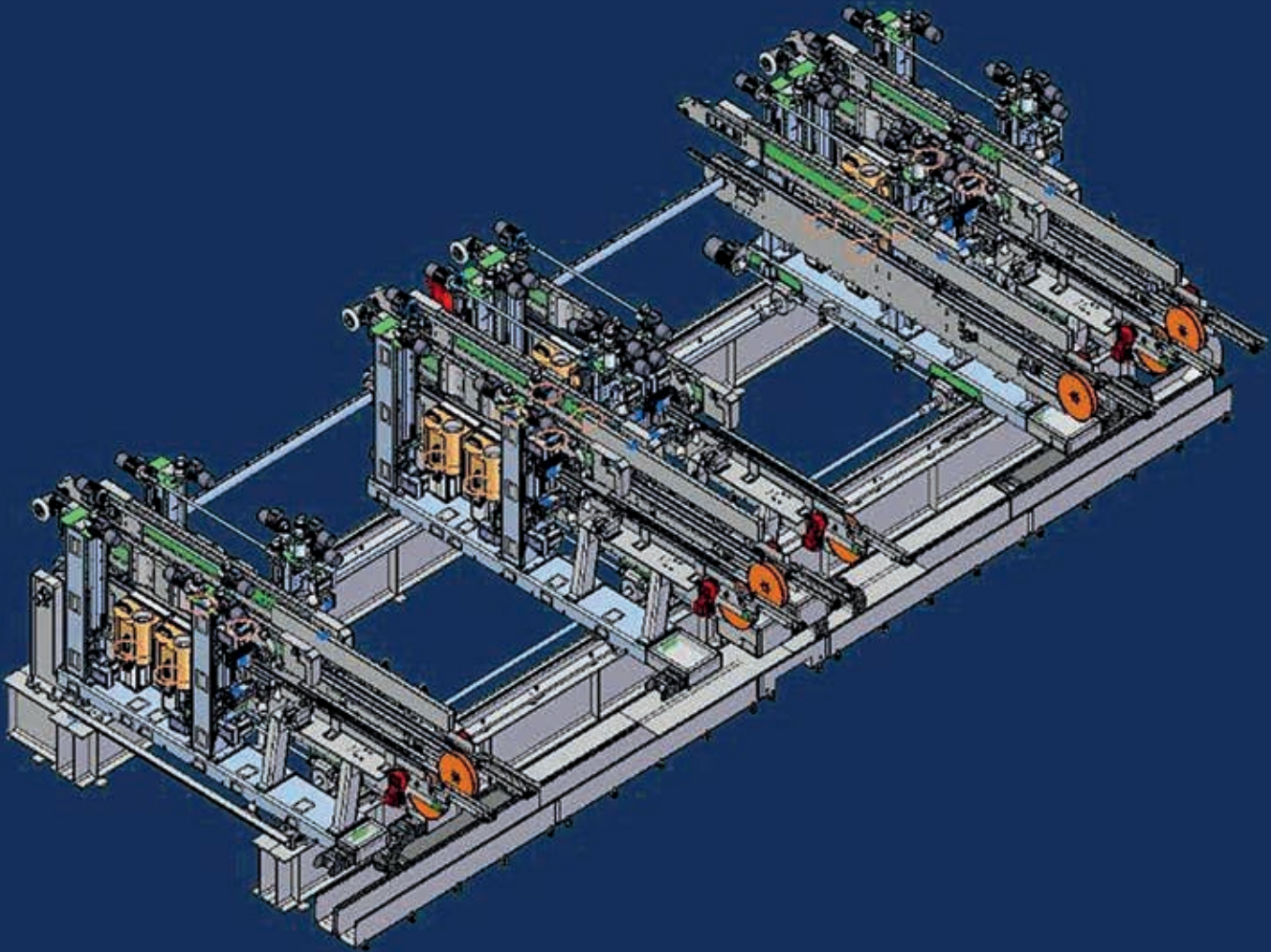
Copytronic allows for a high production even on small and diversified batches.



## **“COLIBRÌ” ELECTRONIC ANTI-SPLINTERING DEVICE**

Colibrì prevents splintering during tenoning or storm profiling, also with profiled or shaped workpieces, with low maintenance interventions.

Perfect finish independently of: type of wood, quantity of machined workpieces and number of tools.



**CELASCHI P60**

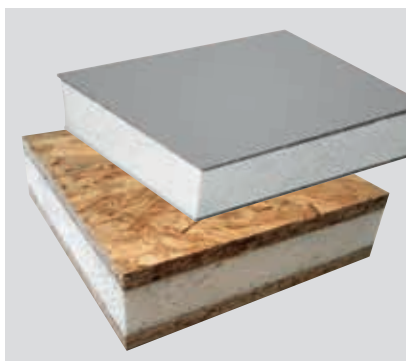
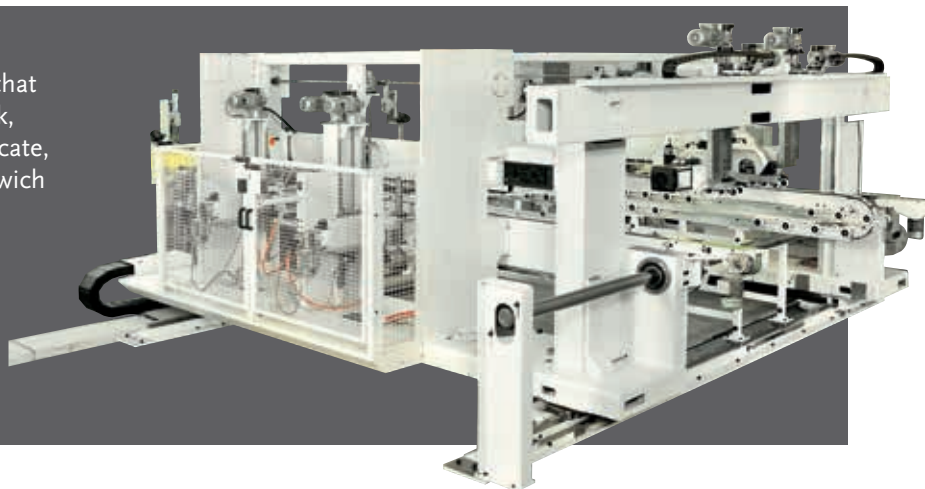
Possibility of machining up to 4 workpieces in parallel, at the same time.

# celaschi p60

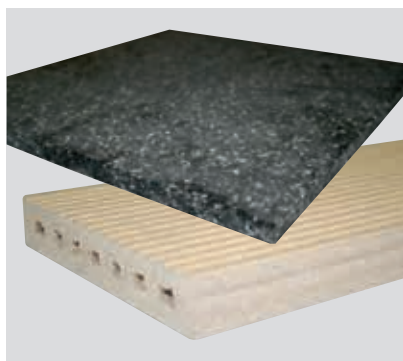
non wood applications

There are numerous non wood materials that can be machined: chalk, fibre cement, cork, mineral wool, PVC, rock wool, calcium silicate, linoleum, polyurethane, polystyrene, sandwich panels etc. for applications in:

- attics
- partition walls
- flooring bases
- flooring
- garden furniture



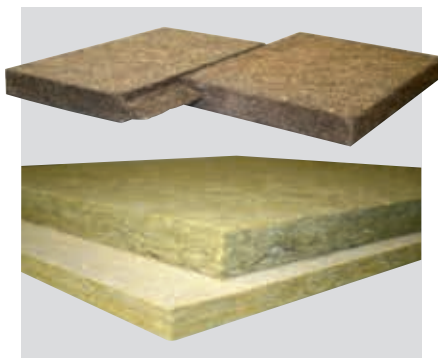
SANDWICH PANEL  
ALUMINIUM-POLYSTYRENE AND OSB-POLYSTYRENE



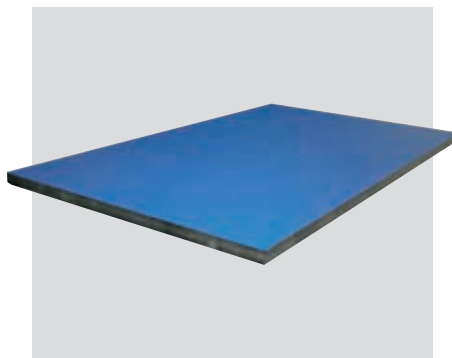
PVC - EXPANDED PVC - PVC WOOD



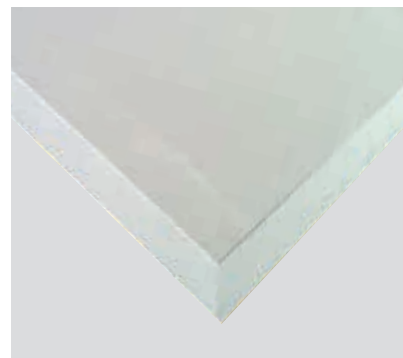
CALCIUM SILICATE



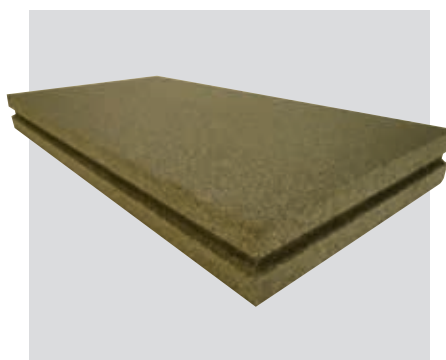
WOOD WOOL AND ROCK WOOL PANELS



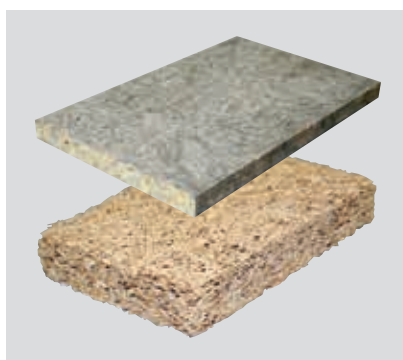
MELAMINE



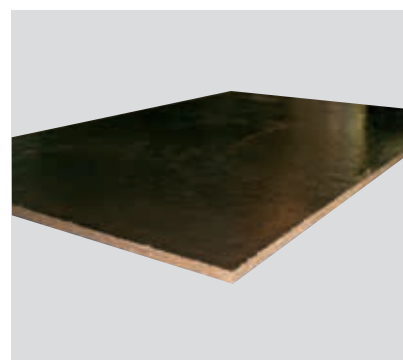
CHALK



EXPANDED POLYSTYRENE  
EXPANDED POLYSTYRENE WITH GRAPHITE



FIBRE CEMENT  
FIBRE CEMENT- PRESSURE-TREATED WOOD

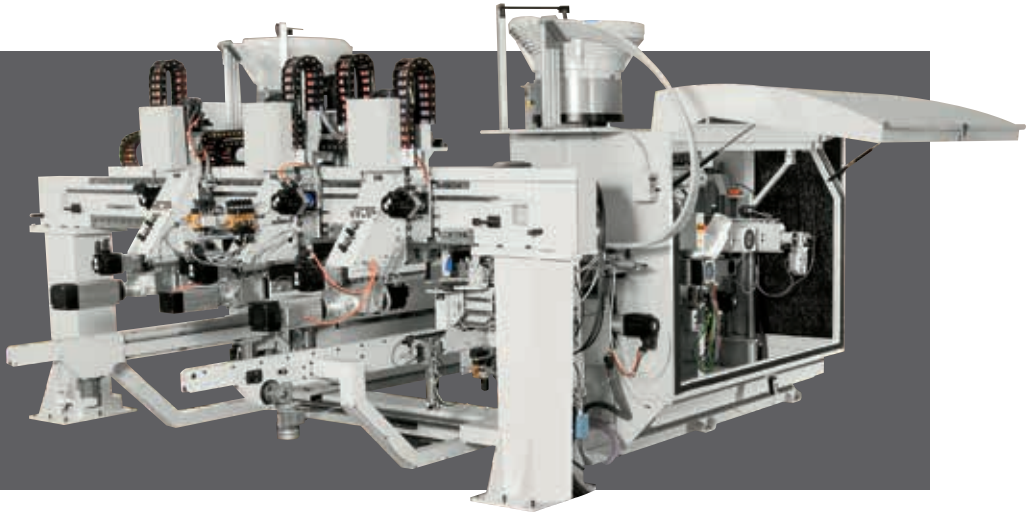


CARTON - ALUMINIUM SANDWICH PANELS

solid wood applications

In the solid wood applications the following parts can be machined:

- windows
- solid and hollow core doors
- furniture
- garden furniture
- tables
- gazebos



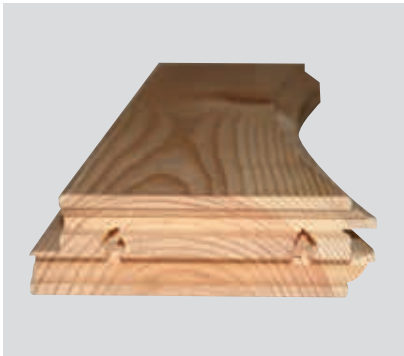
SHAPING



PROFILING



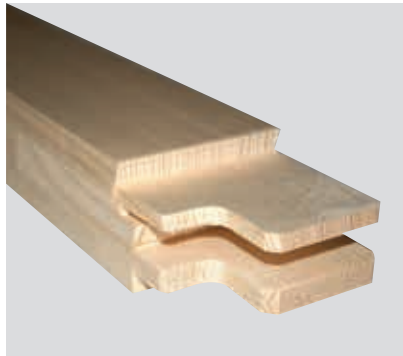
SQUARING



COUNTER-PROFILE AND DRILLING



TENONING



NOTCHED TENON - DOUBLE NOTCHED TENON



ASYMMETRIC PROFILING AND SHAPING



BLIND GROOVES



JOINTS

# celaschi p60

panel applications

Possibility of machining panels in chipboard, multi-ply, veneered, MDF, plywood, masonite, OSB, etc. used for:

- partition walls
- flooring bases
- hollow core doors
- furniture parts
- kitchen parts
- garden furniture
- semi-finished panels



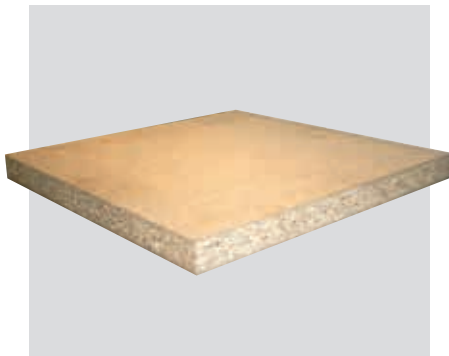
CORK



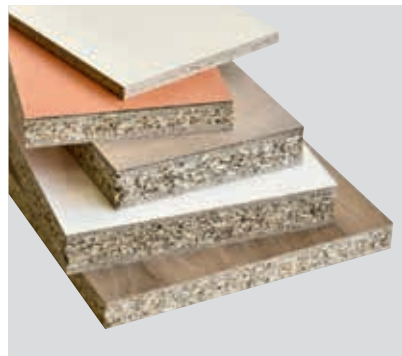
MDF - HDF



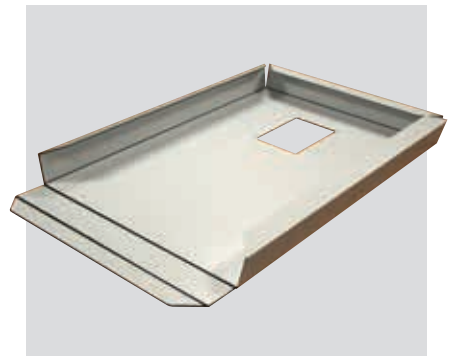
OSB



CHIPBOARD



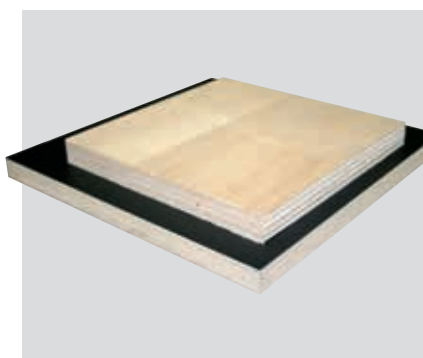
VENEERED PANELS



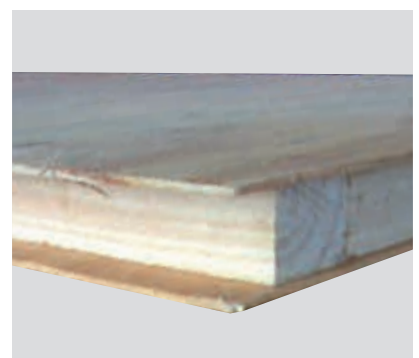
FOLDING



PANEL WITH MELAMINE COATING



PLYWOOD



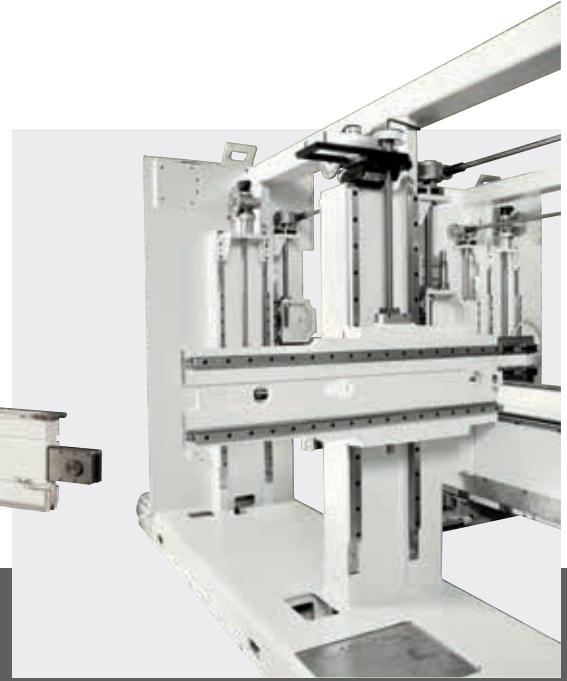
SELVEDGE



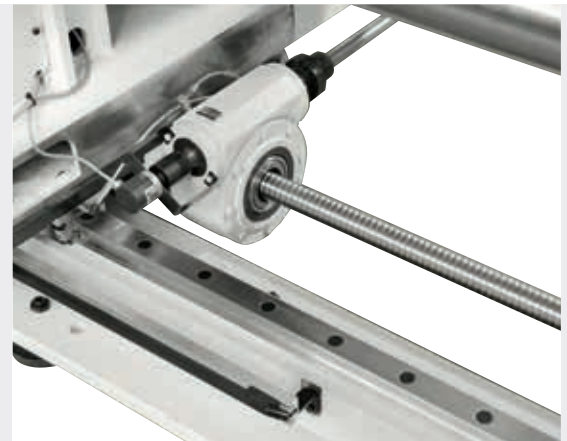
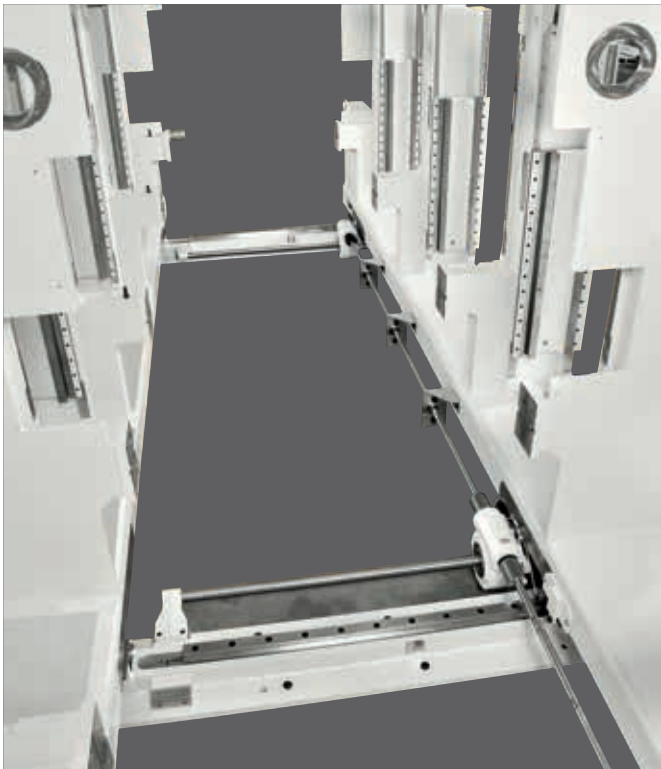
machine frame



Maximum precision, reliability and quality of finish thanks to the single-piece in steel, strongly ribbed structure.



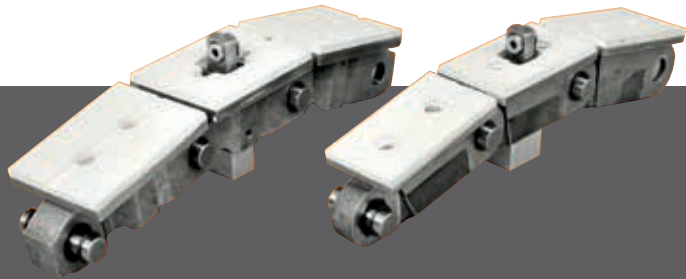
This solution ensures long-lasting stability and maximum precision even during heavy-duty machining operations or several work shifts per day. The machining units move on prismatic guides with RDS screws.



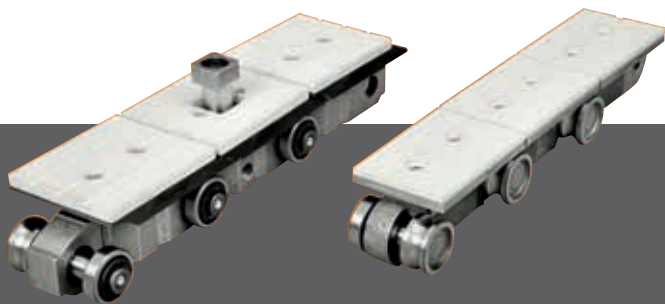
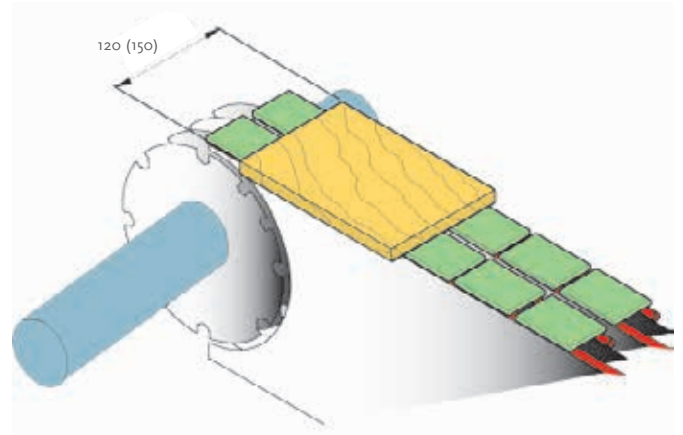
To ensure a fluid and precise movement the movable stand moves with RDS screws and self-lubricating THK guides.

# celaschi p60

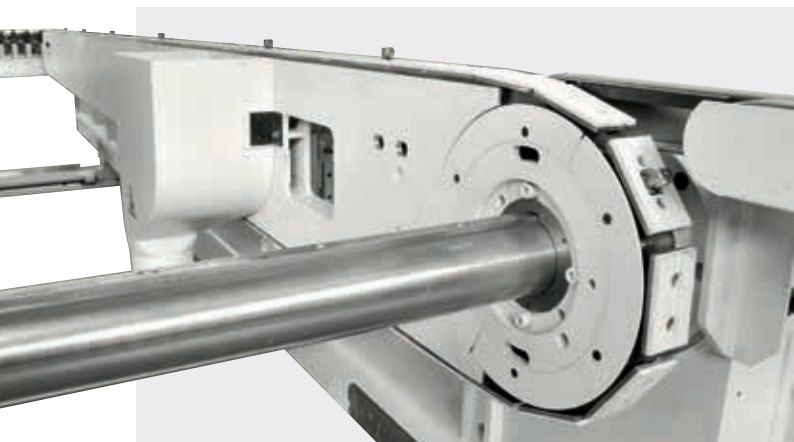
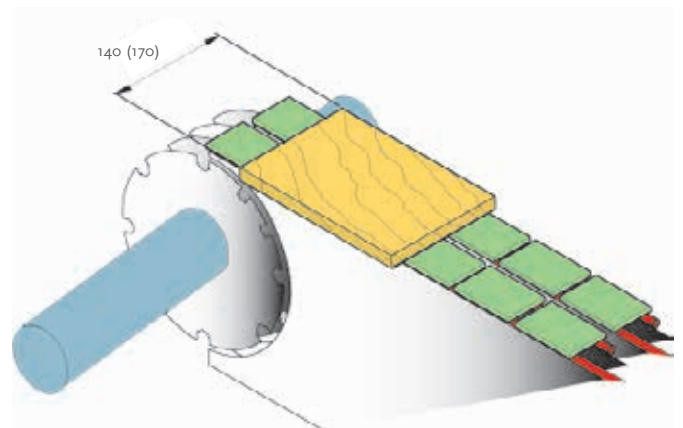
“ALL SYSTEM” workpiece transport system



Type sliding feed chain:  
- 52 or 65 mm wide  
- feed speed up to 36 m/min.



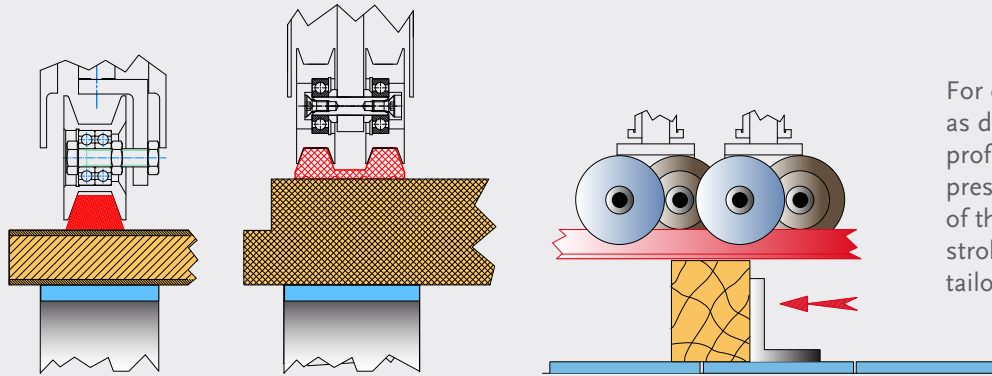
Type rolling feed chain:  
- 60 or 75 mm wide  
- feed speed over 60 m/min.



To ensure stability, precision and holding of the workpieces, the chains' pads are in low friction material, non-deformable material that is easy to be replaced.



Based on the type of requested machining, material and workpiece dimensions, the chains' dogs can have variable height with manual or automatic insertion/exclusion, they can be either in front or at the back of the workpiece.

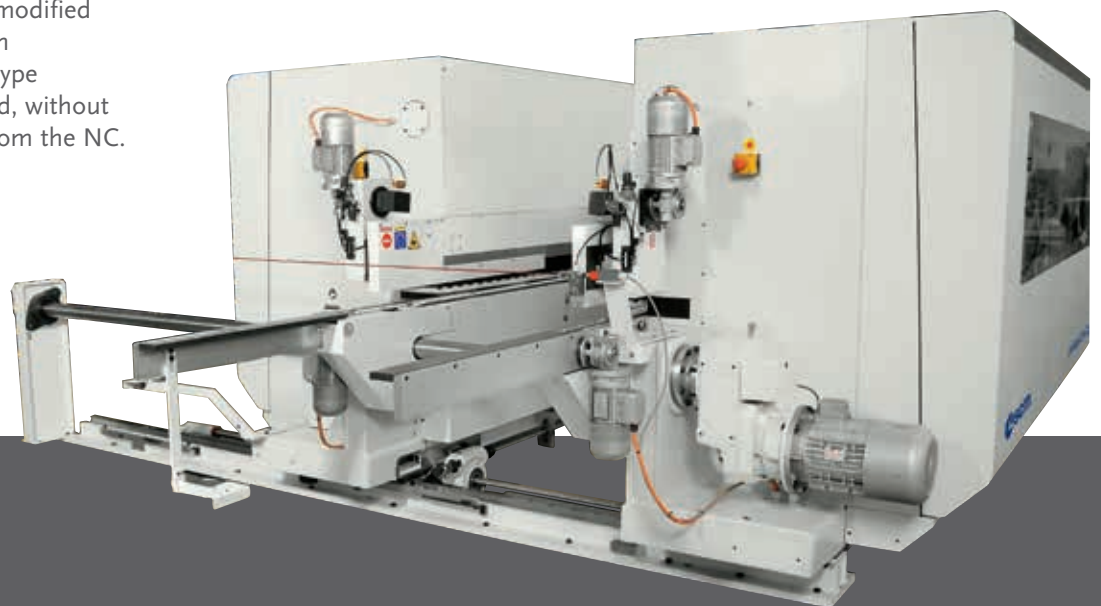


For custom requirements such as density, dimensions and profile of the workpiece, the top pressure belts, center to center of the hold down pulleys, stroke of the pulleys can be tailor made.



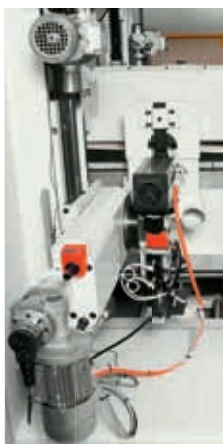
Correct workpiece clamping independently of the dimensions and production capacity thanks to the belt/pulleys system.

The feed speed can be modified based on the production capacity, finishing and type of wood being machined, without wasting time, directly from the NC.

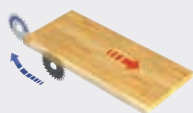


# celaschi p60

machining head units



Independent scoring head unit



Hogger



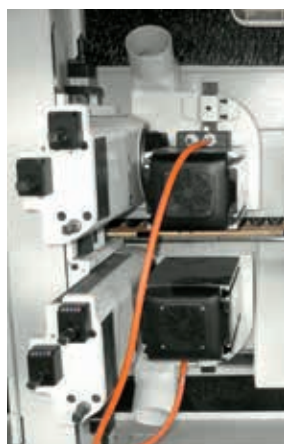
Cut off saw



Top & bottom hoggers



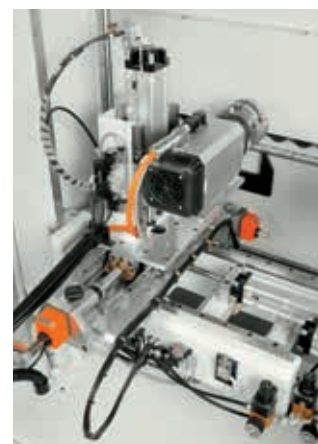
Machining head unit for planing/profiling tools



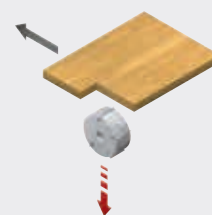
Cope roughing head units



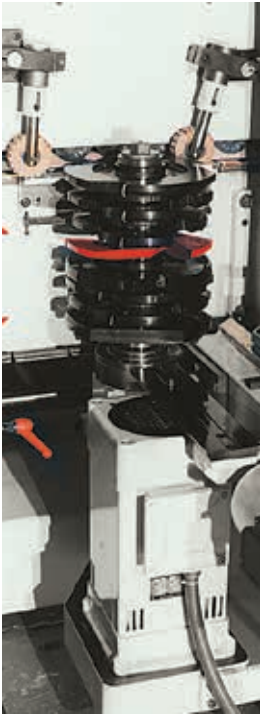
Multiplier device for machining head units



TC100: machining head unit for notching



belt driven heads



HD belt driven head  
• shaft L max 320 mm  
• power max 13 kW



Tool holder spindle with HSK85S taper

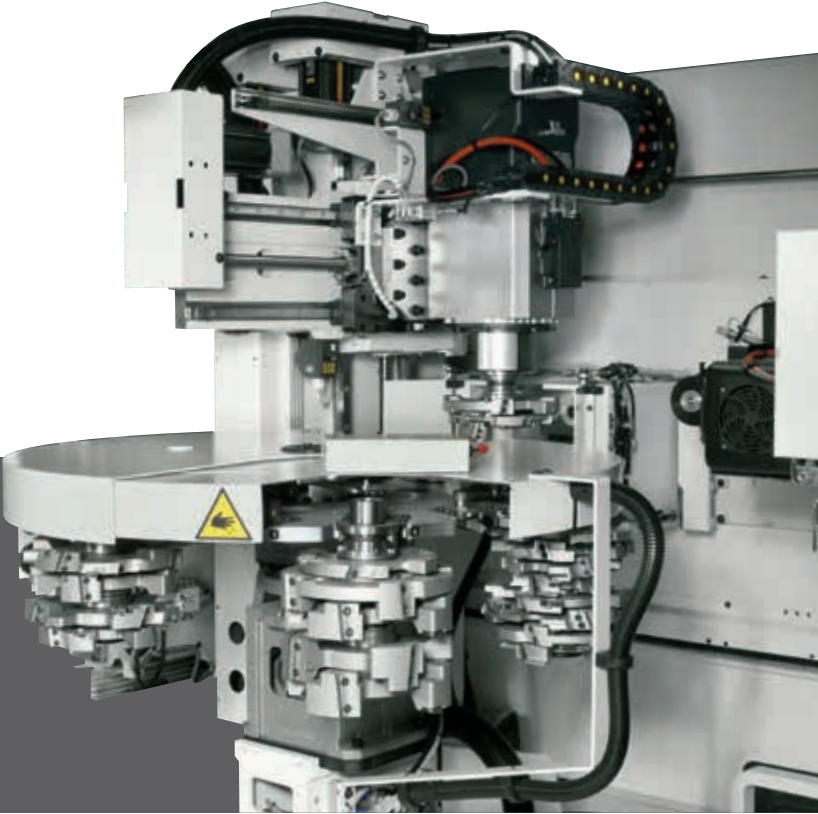
4 position automatic tool changer for tool diameter up to 320 mm



electrospindles

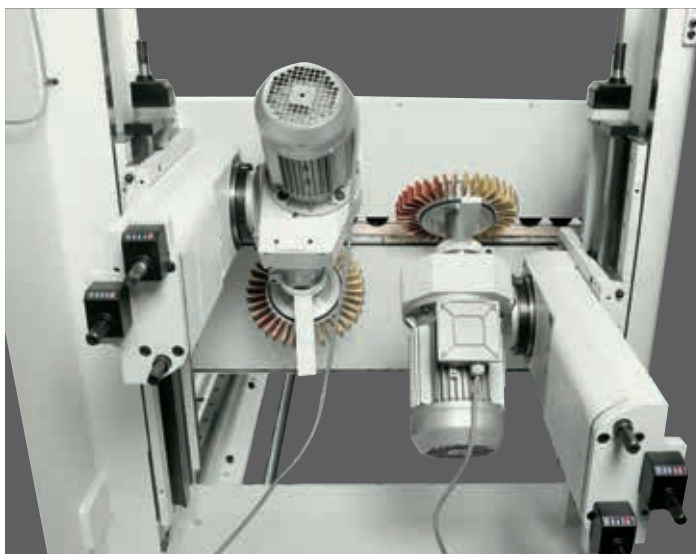


Electrospindle with HSK 63F / 85S taper  
• power up to 18 kW  
• speed up to 12,000 rpm  
• 12/24 position tool changer



# celaschi p60

sanding units



Sanding and/or  
brushing unit.



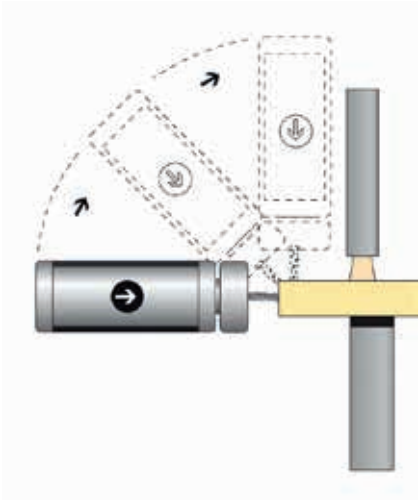
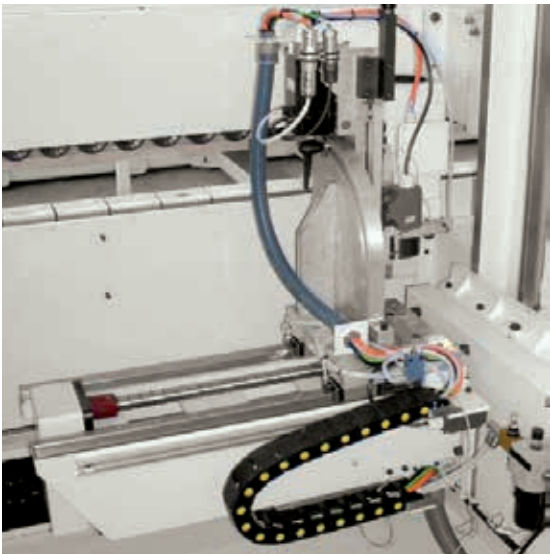
Belt sander  
for flat surfaces.



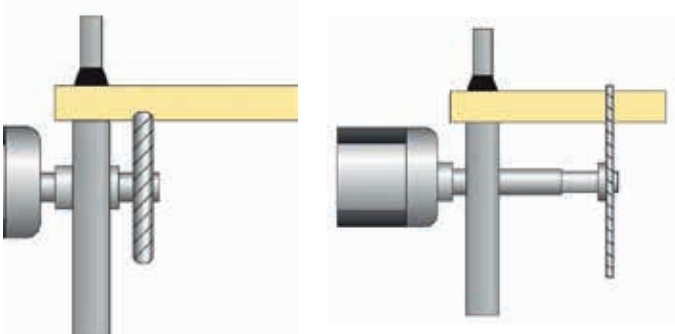
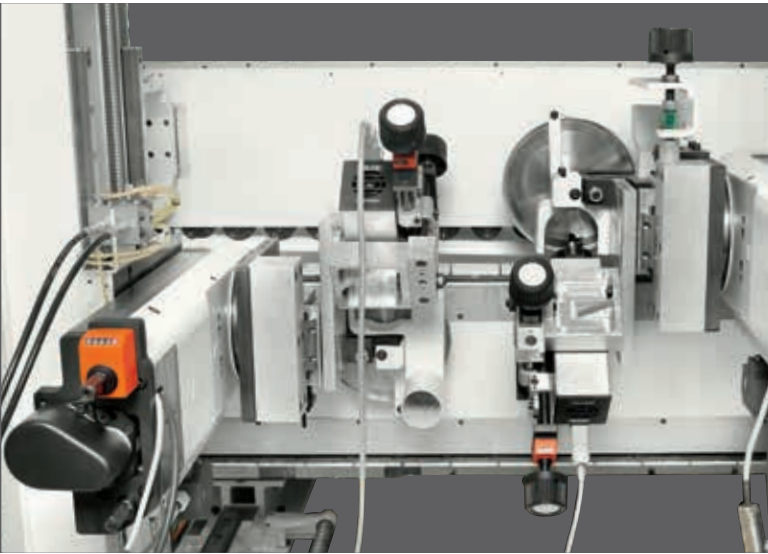
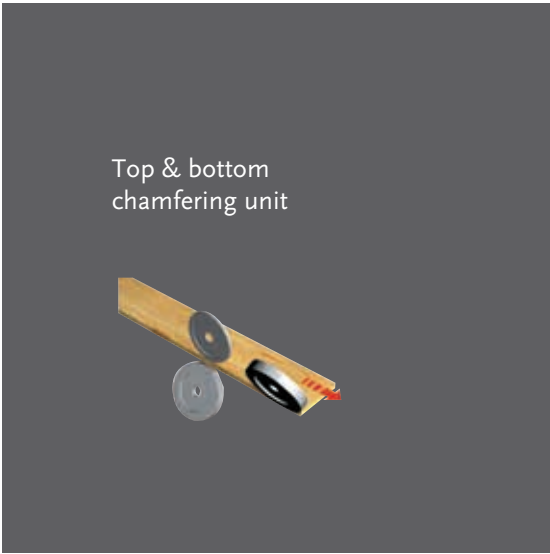
Belt sander  
for profiled surfaces.



special units



M35: horizontal drilling unit  
M70TR: vertical and/or horizontal drilling unit



Panel sizing unit.





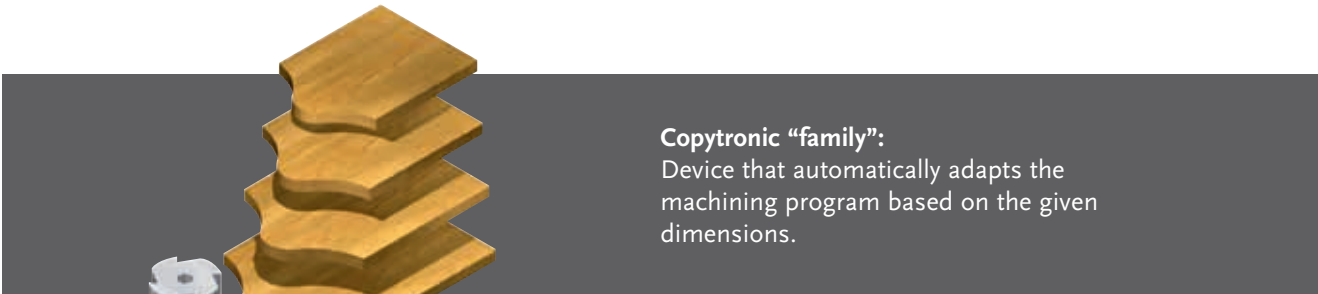
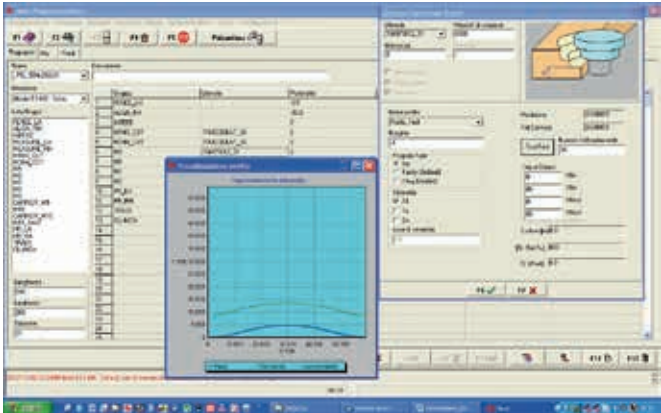
# celaschi p60

CNC shaping device

### Link Copytronic

Allows for the production of shaped profiles flexibly, efficiently and without wasting time. Celaschi p60 becomes a machining centre for the production of:

- kitchen door components
- rustic furniture parts
- table surfaces
- bed frames
- garden furniture parts
- wardrobe and kitchen components

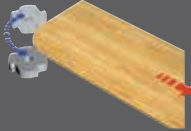


**Copytronic "family":**  
 Device that automatically adapts the machining program based on the given dimensions.

Interpolating units for positive or negative shaping as well as asymmetric.



**Copytronic**  
 Interpolating units for front and rear corners rounding with the possibility of profiling or sanding.



# celaschi p60

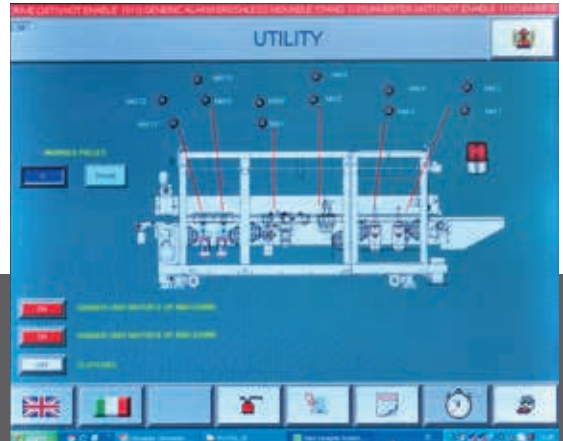
control unit

Multilevel control unit to meet any requirement based on data management, integration level and investment.

## Link 10

Modular software and hardware can be used to:

- save quotas/programs (self-learning)
- manage various integrated machines
- display or manage the actual-target quota



## Link 100 PC

Simple integration, management and communication.

The operator interface ensures optimum communication with operator and with the machine:

- save programs
- recall and execute programs
- enter data for a complete order
- check workpieces completed/to do in real time
- rejects management
- re-start
- tele-service

**Sav€nergy.** High performance, high energy saving

## Sav€nergy

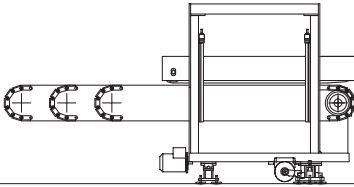
- Optimised compressed air consumption
- Automatic stand-by of motors not machining, manual or from NC
- Opening of the exhaust outlets related to the machining in progress
- Electro-spindle heat exchanger management based on the operating temperature



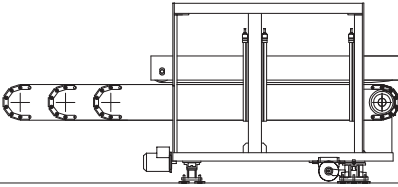
**SAV€NERGY**

modularity examples

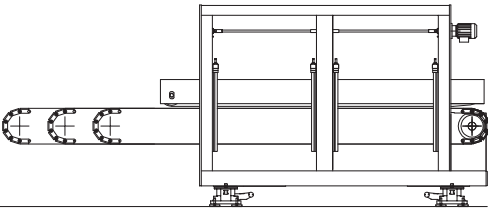
CELASCHI P6o - base 2



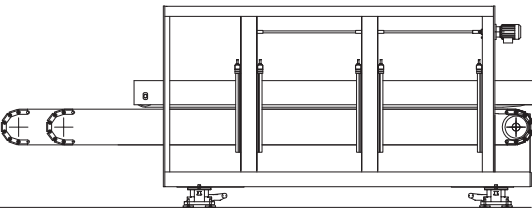
CELASCHI P6o - base 3



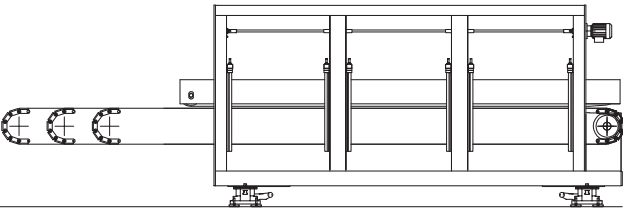
CELASCHI P6o - base 4



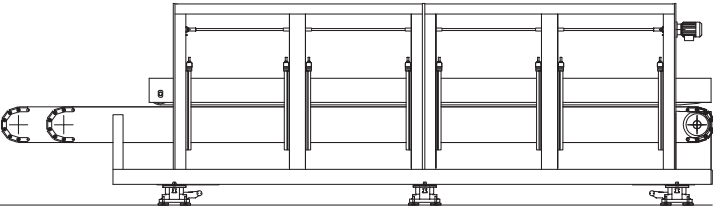
CELASCHI P6o - base 5



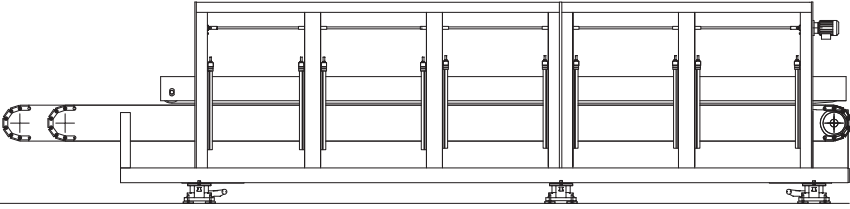
CELASCHI P6o - base 6



CELASCHI P6o - base 8

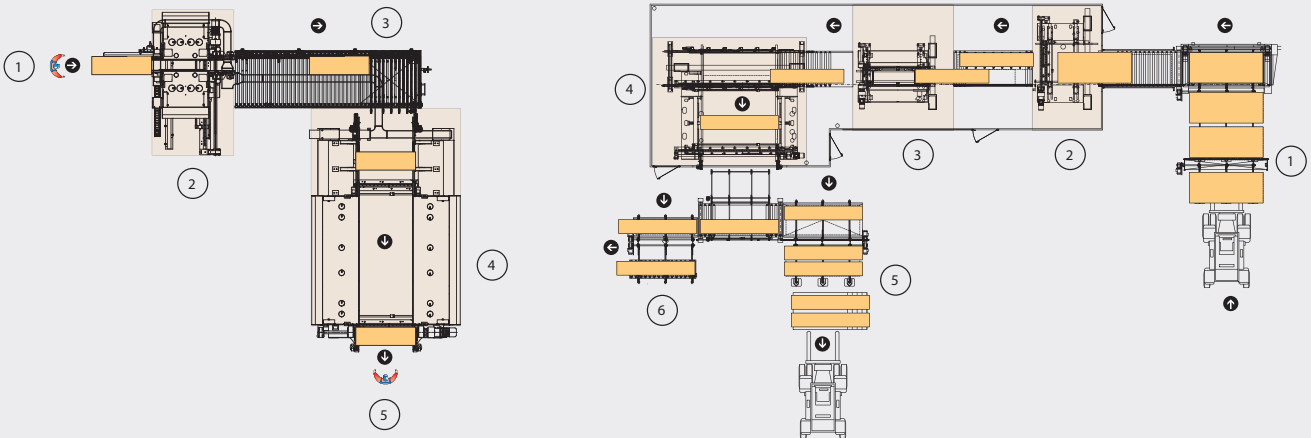


CELASCHI P6o - base 10



# celaschi p60

integrated solutions



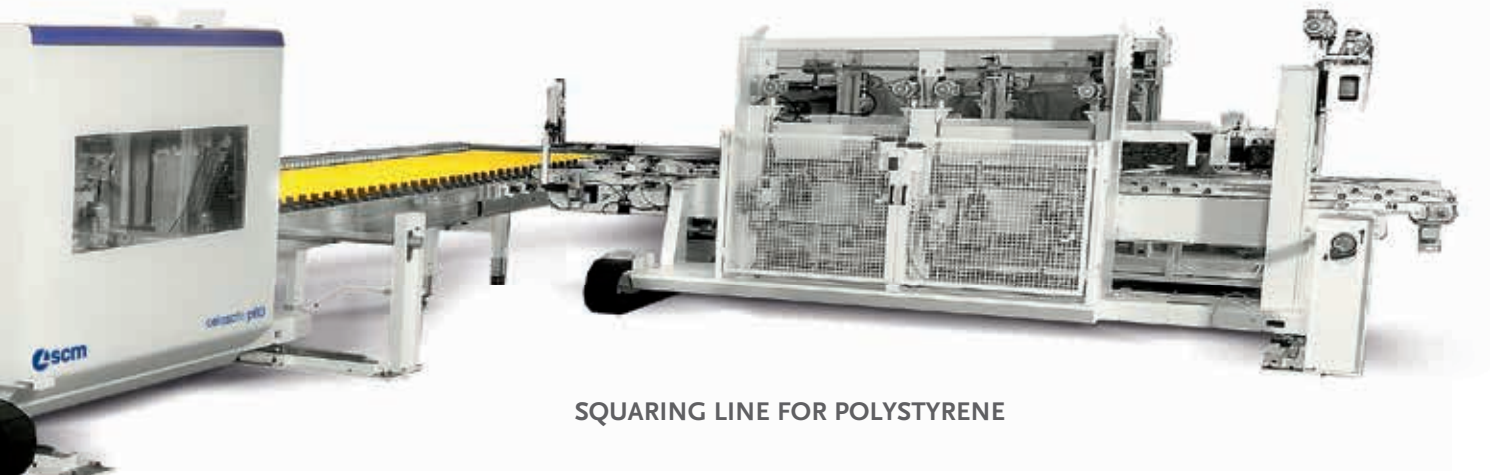
## SQUARING LINE

- 1) manual loading
- 2) longitudinal profiling
- 3) R 90° transfer
- 4) cross profiling
- 5) manual unloading

## PANEL SIZING AND SQUARING LINE

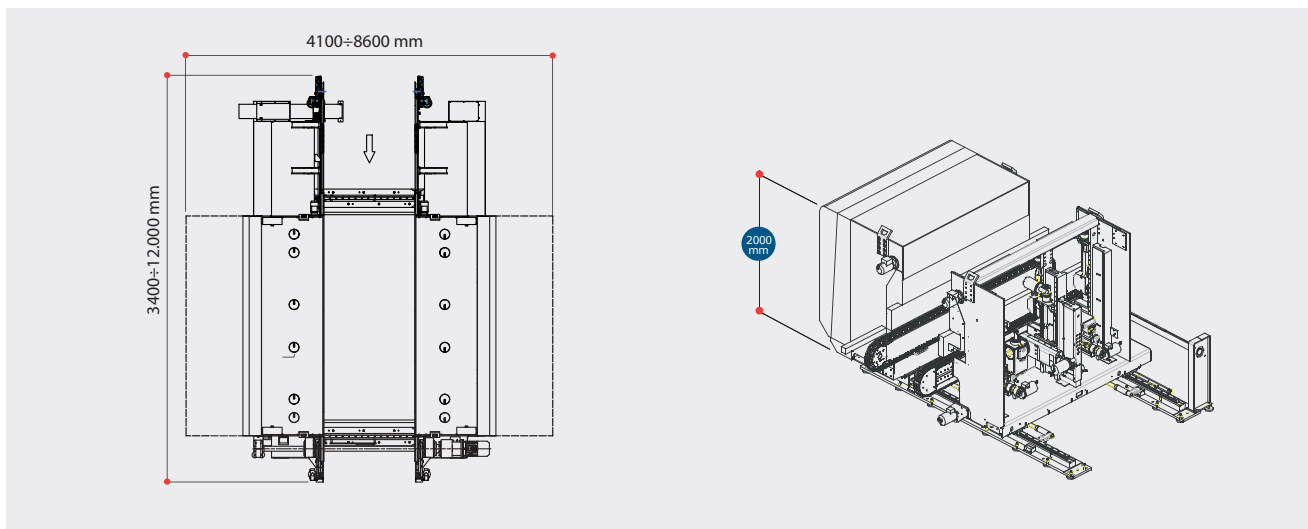
- 1) automatic loading
- 2) sizing
- 3) longitudinal profiling
- 4) cross profiling
- 5) unloading on pallet
- 6) automatic unloading with robot

Custom solutions based on the type of products, productivity and available space. Celaschi p60 has been developed with all the requirements to be used successfully in traditional lines and integrated NC systems.



SQUARING LINE FOR POLYSTYRENE

technical data



Automatic double end tenoner		CELASCHI P60
Min work width	mm	120 (*)
Max work width	mm	6100
Min/max workpiece height	mm	3 ÷ 200
Distance between dogs	mm	270 / 450
Workpiece dogs height	mm	14
Feed speed	m/min	up to 60
STD mobile upright movement speed	m/min	2,8

(\*) with No.2 chains. The dimensions can change based on the machining head units. Set-ups are available based on the type of workpieces being machined.

The technical data may change based on the chosen composition. For illustration purposes certain photos show the machines complete with accessories. The technical data may be subject to changes without notice, the changes do not influence the safety required by the EC standards.



# THE STRONGEST WOOD 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

**17.000** machines manufactured per year

**90%** export

**20** foreign branches

**350** 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

## SCM GROUP, A HIGHLY SKILLED TEAM EXPERT IN INDUSTRIAL

### INDUSTRIAL MACHINERY

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



WOODWORKING TECHNOLOGIES



TECHNOLOGIES FOR PROCESSING  
COMPOSITE MATERIALS, ALUMINIUM,  
PLASTIC, GLASS, STONE, METAL

# TECHNOLOGIES



equipment and components for machining the widest range of materials.

## MACHINES AND COMPONENTS

### 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

**Les**

ELECTRIC PANELS

**steelmec**

METALWORK

**scmfonderie**

CAST IRON

**scm**  
woodworking technology

*is more*



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