



## MULTI-HEAD MACHINES

# BORING SYSTEM

## 323

Semiautomatic, multispindle 3-head boring machine with n.1 horizontal fixed boring head and n. 2 turnable vertical boring heads

For **horizontal** and **vertical drilling** into **wood-based panels**; for the production of big-size pieces of **furniture**. The ideal solution for **bookcase**, **bookshelf** and **wardrobe manufacturers**.

- Small footprint: 2 sqm
- The quick set-up devices and the 3 boring heads, working simultaneously, considerably speed up the working process with respect to a single-head boring machine

More than 3.000 machines manufactured, over thirty years' experience .100% made-in-Italy machines abiding by the highest quality standards as a result of the "Lean" manufacturing process, also known as "Toyota System".

### TECHNICAL FEATURES MODEL

N.2 vertical, turning,parallel boring heads, with 23 spindles each, sliding on prismatic guides and ball bearings; accurate positioning over digital read-out displays, micrometric adjustment devices and pneumatic locking system.

Boring-depth adjustment on numeric counters

N.1 fixed horizontal boring head with 23 spindles, with patented Spiral System for a quick boring-depth adjustment, and numeric counters for an accurate set-up of the boring height

Distance between first and last spindle on each head : 704 mm and 32 mm interaxis

Electric drives to select each boring head during a working cycle

Quick-change spindles

Ready to be connected to a dust collector

Manufactured according to EC standards

### STANDARD EQUIPMENT

N.3- 2 HP motors

N.2 hold-down clamps turning from 0° to 90° with well-dimensioned wooden bar 750x106x30 mm

N.15 quick-change chucks

N.1 - 3000 x 80 mm fence with 4 manual ref. stops with nonius, sliding on guides and ball bearings

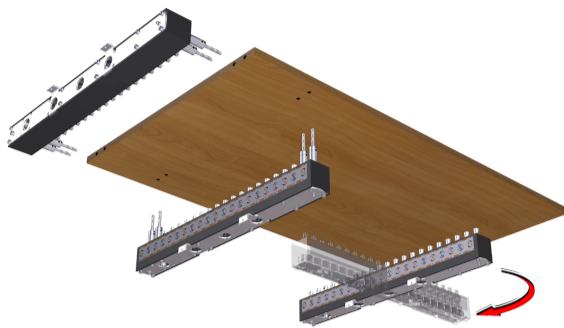
Reference stop for the long panels

Ready to be connected to a dust collector

Package: carton box

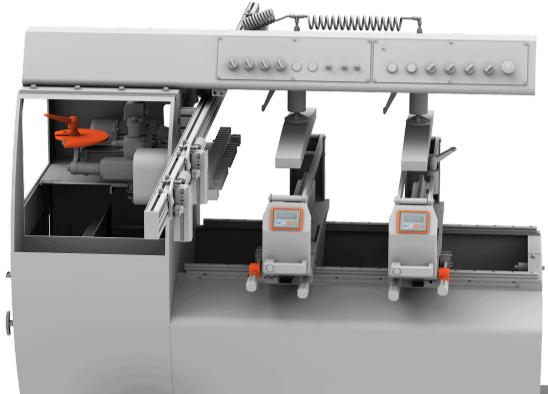
Manufactured according to EC standards

# MORE INFORMATION



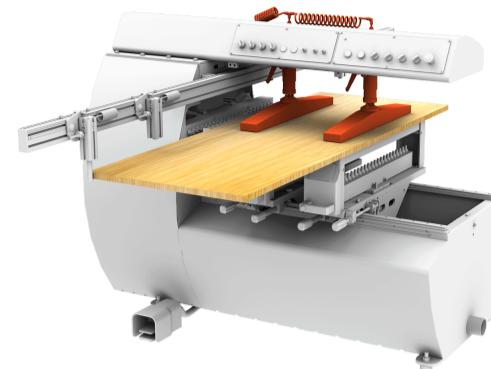
## HIGH PRODUCTIVITY

It performs all the drilling operations to build up a cabinet in just two working cycles: the two vertical boring heads drill the holes for the side panels while the horizontal boring head makes the holes for the panel joints.



## QUICK SET-UP

Quick and accurate positioning of the vertical boring-heads thanks to a pneumatic locking system, digital read-out displays and micrometric adjustment devices. Boring-depth and boring-height adjustment of the horizontal head is also easy and fast thanks to the "Spyral System" and the numeric counters.



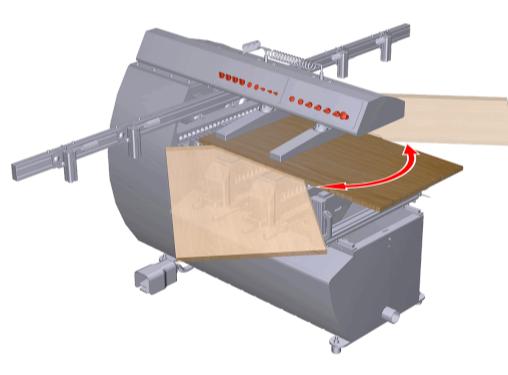
## EFFECTIVE PANEL HOLD-DOWN AND DRILLING ACCURACY

N.2 quick-adjustable, pneumatic, safety clamps, swivelling from 0° to 90°, ensure the perfect panel hold-down, which results into always accurate drilling operations.



## QUICK AND ACCURATE PANEL POSITIONING

N.4 reference stops with magnify glass and nonius sliding on ball bearings along the aluminum fence (3000x80 mm)



## COMFORT

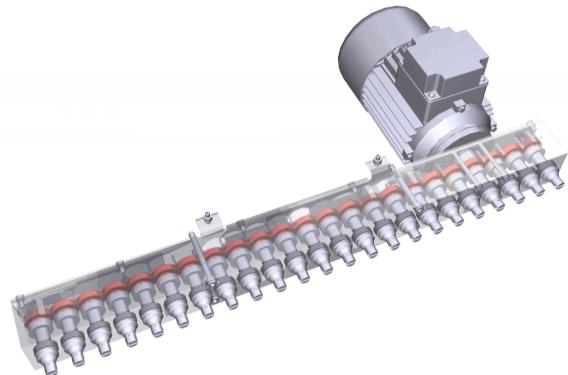
Easy positioning of the long panels thanks to the "Cantilever" structure and to the wide and solid panel holders made of steel. The panel drive is on the front side, easily accessible for the operator.



## FAST AND EFFECTIVE

Thanks to the quick-set-up devices and the 3 boring heads working simultaneously, it considerably speeds up the drilling process with respect to a single-head boring machine. Perfectly suited to process big-size panels.

# MORE INFORMATION



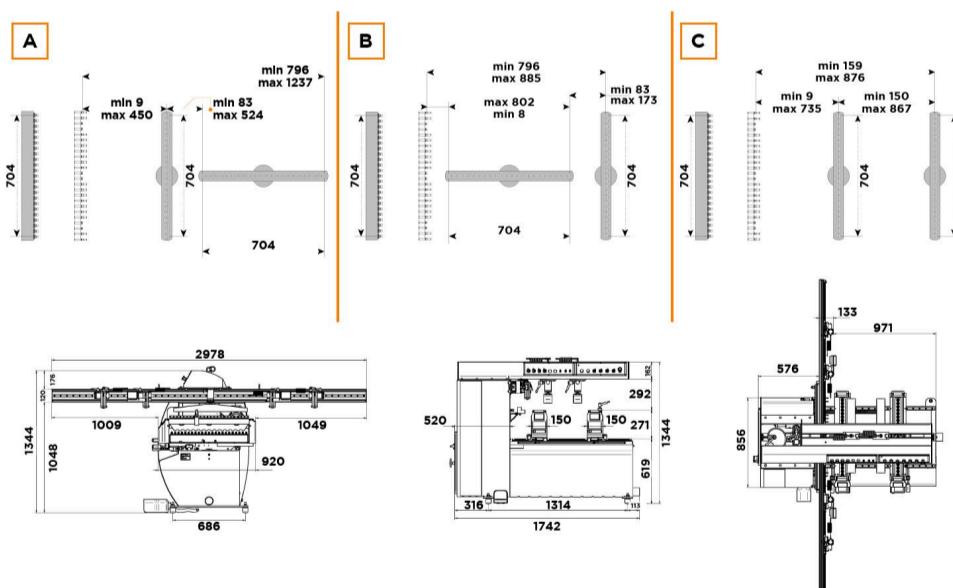
## SOLID STRUCTURE

Made of steel, built to last. Eco-friendly, rust-resistant powder coating. Boring heads are made of aluminium, while internal gears are made of rectified steel.

---

# DATA SHEET

<b>Boring heads</b>	N. 3
<b>Distance between the heads min. - max.</b>	150 - 867 mm
<b>Spindles each head</b>	N. 23
<b>Left and right spindles for each head</b>	N. 11 - N. 12
<b>Spindle interaxis</b>	32 mm
<b>Total interaxis</b>	704 mm
<b>Distance between rear head n°1 and rear fence (min. - max.)</b>	9 - 450 mm
<b>Distance between front head n°2 and rear fence (min.- max.)</b>	159 - 876 mm
<b>Max. tool diameter</b>	40 mm
<b>Max. boring depth</b>	50 mm verticale / 65 mm orizzontale
<b>Height of the working table</b>	900 mm
<b>Max. panel thickness</b>	60 mm
<b>Max. panel dimensions</b>	870 x 3000 x 60 mm
<b>N° motors</b>	HP 2 / KW 1,5 - RPM 2800 ( x 3 )
<b>Standard pneumatic pressure</b>	BAR 6/8
<b>Air consumption per working cycle</b>	NL 30
<b>Dust-collection hood diam.</b>	80 mm
<b>Overall dimensions (incl. full extended side roller tables) (incl. long fence mounted)</b>	1790 x 1000 x 1350 mm
<b>Net weight</b>	750 kg
<b>Package dimensions (machine)</b>	1900 x 1150 x 1500
<b>Fence package dimensions (each carton - n.2 cartons on the whole)</b>	
<b>Total gross weight</b>	850 Kg



# ACCESSORIES

Quick-drill of hinge holes



## Drilling aggregate for hinges, type "Salice"

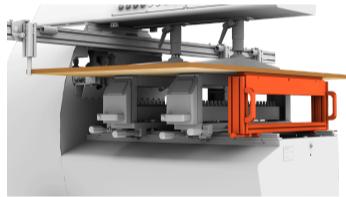
To drill the three hinge holes in one single working cycle

DRILL-BITS NOT INCLUDED

**CODICE: 00008391**

Ergonomics

Increase the accuracy of the working process



## Additional panel support

It provides an additional support for the long panels, increasing their stability during the working process

**CODICE: 26800215**

Quick-drill of hinge holes



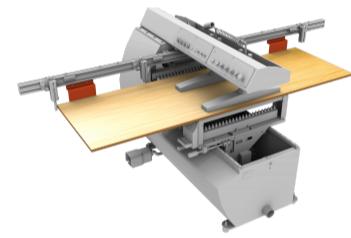
## Drilling aggregate for hinges, type "Blum"

To drill the three hinge holes in one single working cycle

DRILL-BITS NOT INCLUDED

**CODICE: 00008392**

Increase the accuracy of the working process



## Supports for long panels on the aluminum fence

It provides an additional support for the long panels, increasing their stability during the working process

N.2 supports for long panels on the aluminum fence

**CODICE: 26850623**

Quick-drill of hinge holes



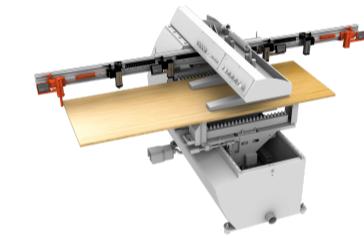
## Drilling aggregate for hinges, type "Hettich"

To drill the three hinge holes in one single working cycle

DRILL-BITS NOT INCLUDED

**CODICE: 00008393**

Quicker set-up



## Pneumatic ref. stops

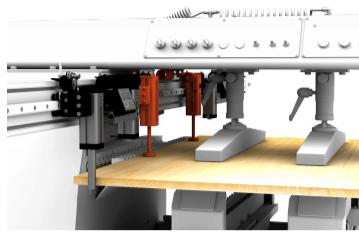
For an even quicker and more accurate set-up

N.2 pneumatic ref. stops with digital read-out display, sliding on the long fence

**CODICE: 26850624**

# ACCESSORIES

Quicker set-up



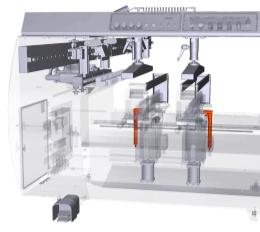
## Hold-down clamps on the aluminum fence

To increase the hold-down pressure on the working panel and consequently its stability during the drilling process

N.2 hold-down clamps on the aluminum fence

**CODICE: 26850622**

Increase the accuracy of the working process



## n.2 dynamic brakes

For a constant and even movement of the two vertical boring heads during the drilling process

**CODICE: 26800403**

Improve the comfort



## Independent idle-roller table 500x1500 mm

To make the handling of large-size panels easier for the operator

Independent idle-roller table 500x1500 mm (idle-roller surface only) 562x1540 mm (incl. frame), adjustable height from 770 to 1.175 mm, max. capacity 45 Kg/m. It can be installed both sides of the machine

**CODICE: 27304100**

Special voltages

## Single-phase Motor

To have the machine working in small handcraft shops having an electric system running on 220 Vts

**CODICE:**

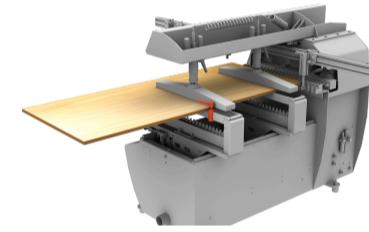
Special voltages

## "CSA" standards

Electrical standards abiding by the Canadian wiring regulations

**CODICE:**

Increase the accuracy of the working process



## Reference stop for long panels

It provides an additional reference point for the positioning of long panels, increasing their stability and consequently the accuracy of the working process.

**CODICE: 26800203**

# ACCESSORIES

## Ergonomics



## Recommended tools



### Tool set made up of 3 drill-bits for hinges

Recommended drill-bit set for drilling aggregate for hinges, made up of n. 2 left-handed drill-bits 8mm diameter and n.1 right-handed drill-bit 35 mm diameter

Tool set made up of 3 drill-bits for hinges

### Quick-change bush / chuck

By using these quick-change tool-holders, You can mount Your drill-bits on the boring head in just "one click"

**CODICE: 36000061**

**CODICE: 26845821**