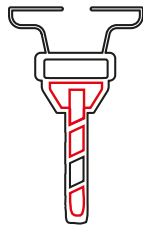




masterwood<sup>®</sup>  
woodworking technology



# Master Drill



drilling woodworking centers

# TF 600S

## automatic drilling center



## Why choose TF 600S

1

**Higher speed of executing any processing**

2

**Complete machining on 6 sides of the panel**

3

**Double symmetrical upper boring head equipped with routing unit and integrated saw blade**

TF 600S is the through feed machining center for very high-performance drilling. The machine is designed for all manufacturers of cabinets and furnishings who want to combine high productivity with flexibility. TF 600S perfectly machines all 6 sides of the panel. Integration into production lines is possible in the TF 600SA version.

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4

**Lower head** with integrated routing unit

5

**Higher productivity** by processing two panels simultaneously

6

**Maximum stability** of the working piece is guaranteed by the patented working table



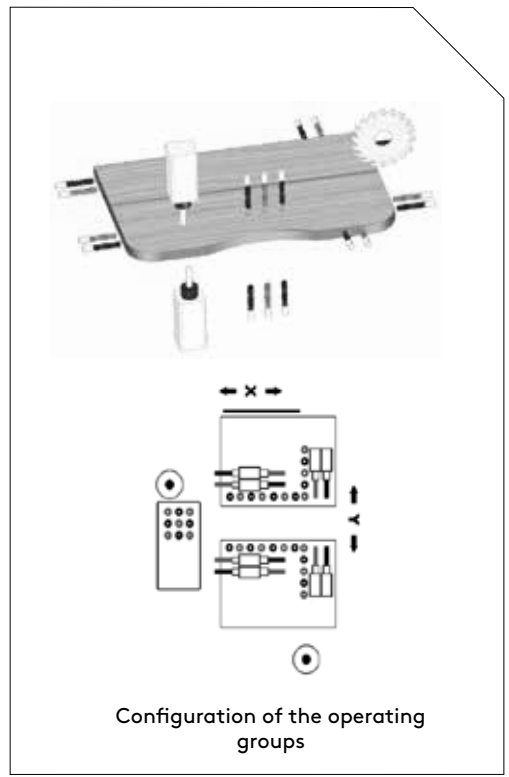
# TF 600S



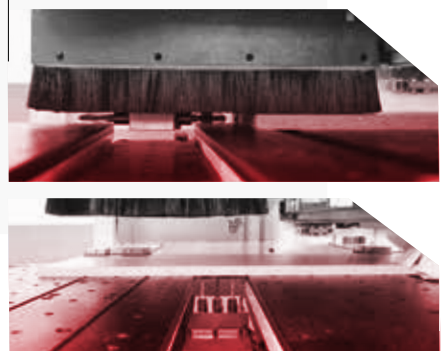
1  
The tightness of the panels are entrusted to a pair of **independent grippers** managed by the high speed MCS (up to 130 m/min). The two grippers also provide a **thickness check** of the panel.

2  
The machine is equipped with a **bar code reader** for automatic program loading. Import of various formats (.dxf, .mpr, .xml, .bbp, etc ..) and integration with ERP/MES systems.

3  
**Maximum flexibility and productivity** thanks to a wide possible configuration of the operating groups. The automatic activation of the pressers placed on the double upper heads guarantees an **optimal finished quality**.

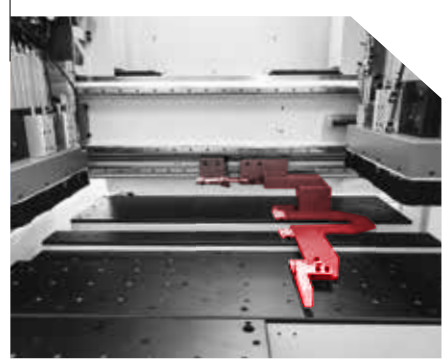


4



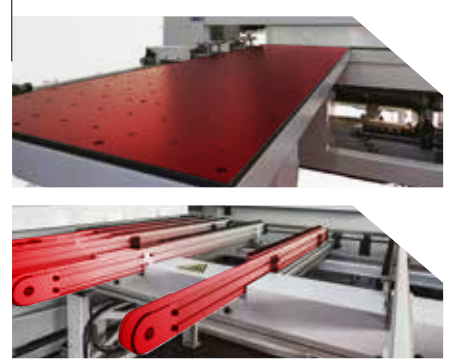
**Continuous workpiece support.** The working table, managed by the MCS, lifts up and down, and moves right and left, allowing all the machining options and giving the widest possible sustaining surface for the panel.

5



**Panel dimensions check.** The side-align mechanism ensures the perfect alignment, stabilizes and locks the panel for **higher precision** during the process

6



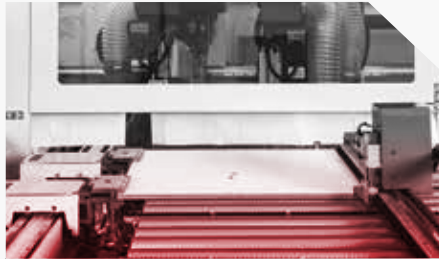
The **loading side** is equipped with an air floating system, which helps the handling of the panels and guarantees maximum delicacy, avoiding any scratches. The **unloading side** has conveyors and anti-scratch bristles.

# TF 600SA automatic work cell

Masterwood offers solutions to integrate all your machines into the production process. With regard to CNC drilling machines, Masterwood have designed various solutions for managing the workflow whilst satisfying the various needs of the industry. TF 600SA maintains all the technical characteristics of TF 600S by applying them to the automation concept.



Automatic bar code reader



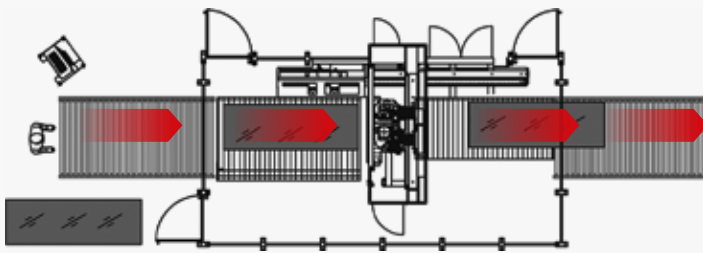
Automatic side-aligner and roller conveyor for loading. The machine can be modulated according to the needs of the work cell





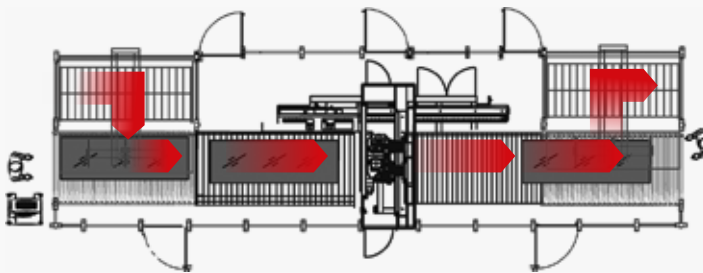
# Possible configurations

1



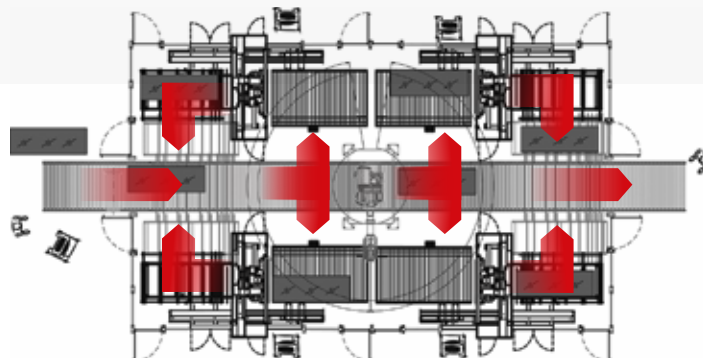
Configuration with **loading and unloading on motorized rollers**. The cell can be integrated into a production line thus maximizing the productivity.

2



**Automatic configuration** with loading and unloading managed by two stackers. Possibility of manual loading on motorized roller to increase the flexibility.

3



**Configuration with robot loading.** The robot placed in the center of the cell continuously feeds the machines. Loading and unloading can be managed both manually and with various automation solutions



# TF 100 2.0

TF 100 2.0 is the machining center to carry out all drilling, milling, blade cutting and pin insertion operations. TF 100 2.0 is perfect for all small and medium-sized companies in the furniture sector who want a complete, compact and flexible machine.

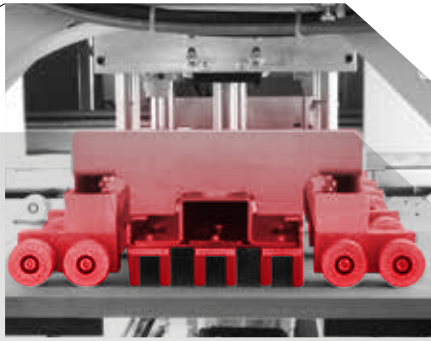


**Maximum modularity** of the operating units with dedicated tool change

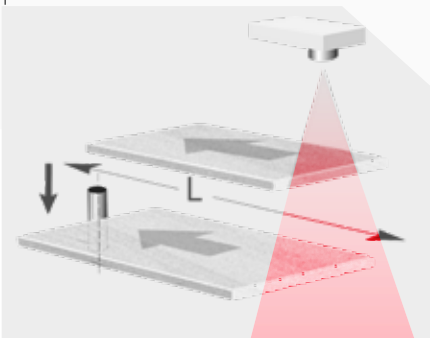


**Easy loading** with new panel alignment system, anti-scratch surface and sinking reference stop. Possibility to add a roller conveyor for loading and unloading (opt.)

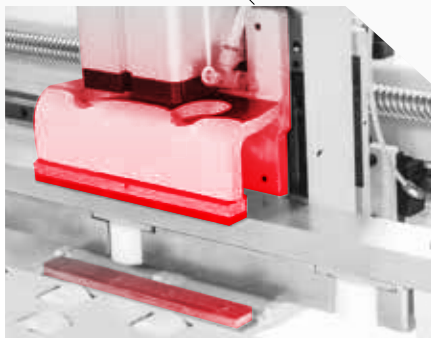




**Greater stability** guaranteed by the new pressure module that can be activated during drilling, trimming and cutting operation (opt.)



**Perfect finishing** on the final assembly of the pieces. Automatic reading of the panel length and thickness measurement with automatic adjustment of the holes position on the edges



**Maximum panel tightness** ensured by the gripper which guarantees high precision during processing

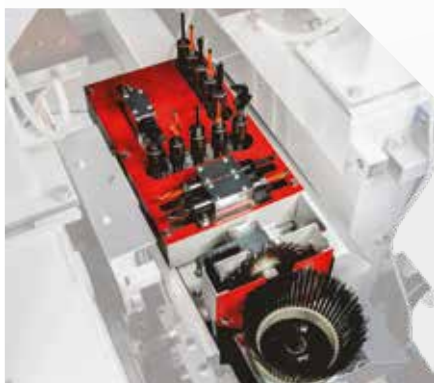
# Speedy I e II Special edition

Masterwood offers closed specifications dedicated to furniture manufacturers.

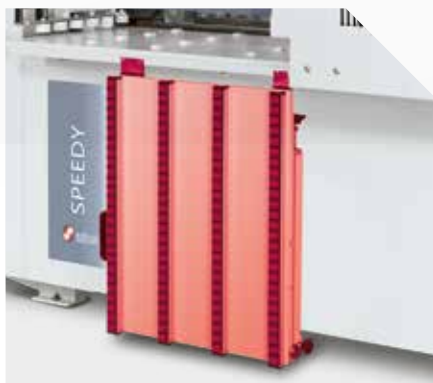
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## Speedy I



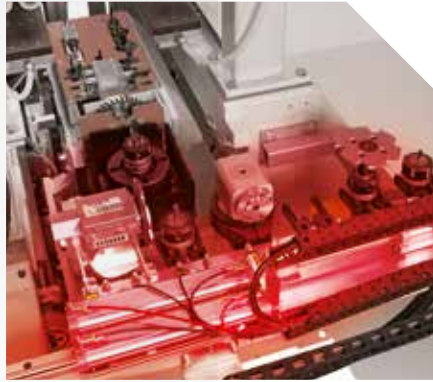
Operator group configuration: drilling head, integrated saw blade and milling unit (4.5 kW).



Loading and unloading with retractable roller conveyors



## Speedy II



Operator group configuration: drilling head, integrated saw blade, milling unit and 6-position dedicated tool changer (4.5 kW).



Possibility of using aggregates for the processing of doors and "lamello" application.

# Masterwood

## 1960's'

Two historic companies producing woodworking machinery were born in Rimini: **F.lli Muti**, world leader in the production of chisel mortising and mortising machines and **Zangheri & Boschetti**, specialized in automatic multiple boring machines.

## 1990

**Masterwood** was born from the merger of the two companies. The combination of experience and know-how immediately made the company a reference point among producers of CNC woodworking centers for both panel and solid wood.

## 2003/04

**Masterwood** acquires **Tecnos GA srl**, a manufacturer of hardware and software for industrial automation.

## 2014/18

New industrial plan focused on the **sales** and **service network**. During this period Masterwood invests considerable resources in strengthening the commercial force and in improving **after-sales services**.

## 2019

Masterwood joins the Sino-Korean group **KDT machinery**, an Asian giant in the production of machinery for wood processing.

## 2020-....

**New industrial plan** focused on increasing global operations. The main purpose is complete the range of products offered, rationalize the models and increase our presence worldwide.



beam saw machines



5 axis CNC working centers



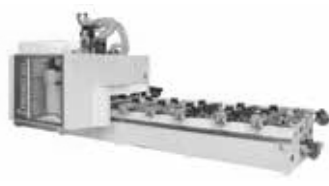
nesting machines



drilling solutions



lines and cells for door production



3/4 axis CNC working centers



edgebanding machines



machine for windows production



# Real Applications

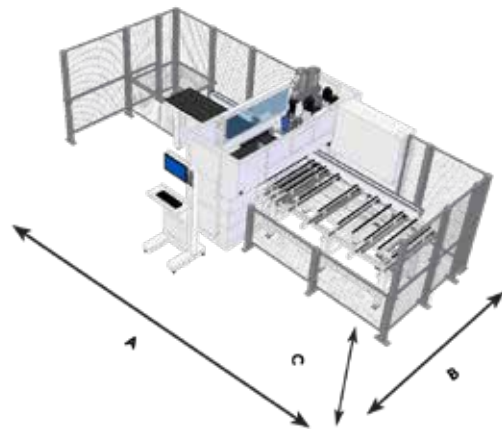


# Technical data

## TF 600S

Overall dimension (mm)

A	7470
B	3840
C	2190

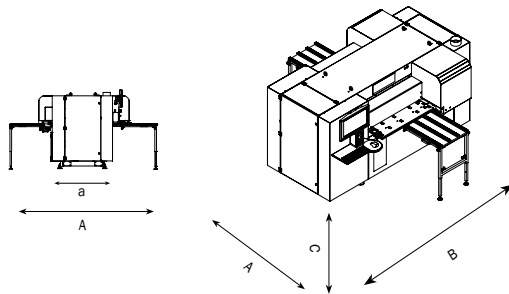


	unit	TF 600S	TF 600SA	TF 500
Max. grippers speed (x axis)	m/min	130	130	130
Max. programmable speed (y-z axis)	m/min	75-30	75-30	75-30
<b>Workpiece dimension</b>				
Panel length (min - max)	mm	250-2800	250-2500	250-2800
Panel width (min - max)	mm	50-1200	50-1200	50-1200
Panel thickness (min - max)	mm	9-60	9-60	9-60
<b>Upper drilling head</b>				
X axis vertical spindles		double 7+7	double 7+7	single 7
Y axis vertical spindles		5+5	5+5	5
X axis horizontal spindles		2x2 + 2x2	2x2 + 2x2	2x2
Y axis horizontal spindles		2+2	2+2	2x2
<b>Lower drilling head</b>				
vertical spindles		Std 9	Std 9	-
Integrated saw blade diam.	mm	Ø 120	Ø 120	Ø 120
<b>Routing unit</b>				
upper electrospindle power	kW	3.5	3.5	5.5
lower electrospindle power	kW	3.5	3.5	-
<b>Installation and transportation</b>				
Power supply*	kW	25.85	*	*
Dust extraction outlet*	mm	Ø200 + Ø200+ Ø100	Ø200 + Ø200+ Ø100	Ø200
Air extraction speed*	m/sec	25÷30	25÷30	25÷30
weight*	kg	4000	*	4000

\*variable according to machine configuration

# TF 100 2.0

## Speedy I, Speedy II



### Overall dimension (mm)

A	3060 (a 1920)
B	3280
C	1785

	unit	TF 100 2.0 Speedy I - Speedy II
Max. gripper speed (x axis)	m/min	25
Max. programmable speed (y-z axis)	m/min	50 - 25
<b>Workpiece dimension</b>		
Panel length (min)	mm	250
Panel width (min - max)	mm	80 - 1000
Panel thickness (min - max)	mm	10 - 60
<b>Drilling head</b>		
X axis vertical spindles		5
Y axis vertical spindles		5
X axis horizontal spindles		2*2
Y axis horizontal spindles		2*1
motor power	kW	1,7
spindles rotation speed	rpm	4000
<b>Integrated saw blade diam.</b>	mm	Ø 125
<b>Routing unit</b>		
electrospindle power	kW	4.5
<b>Installation and transportation</b>		
Power supply	kVA	8.7 (13.7 opt)
Working air pressure	bar	7÷8
Compressed air consumption	NI/min	700
Dust extraction outlet	mm	Ø 150
Air extraction speed	m/sec	25÷30
Air extraction consumption	m³/h	1500
Weight	kg	1500



[www.masterwood.com](http://www.masterwood.com)



masterwood

Via Romania, 20  
47921 Rimini - Italy  
Telephon +39 0541 745211  
Telefax +39 0541 745350  
[www.masterwood.com](http://www.masterwood.com)