sarmax



YOUR BEST PARTNER IN SANDING TECHNOLOGY

FIBERTECH·M

The FIBERTECH·M finishing line has been designed for the smoothing/sanding of assembled items such as fixtures, doors, frames, panels and much more; it is able to process raw, veneered or painted pieces.

FIBERTECH·M, thanks to the innovative and patented system of cross-cutting via rotary discs of the product fibres, ensures a perfect cut of the same, a result impossible to obtain with traditional systems. This system prevents lifting after the application of water-based primers or other wood preservatives, almost always avoiding the intermediate sanding normally required with traditional sanding systems, thus resulting in significant time-saving and above all preventing the removal of an important part of the previously applied product.
In practice this means important labour saving in many manual processes, greater safety at work and above all longer life of the product with no, or at least insignificant, removal of the previously applied protective materials.

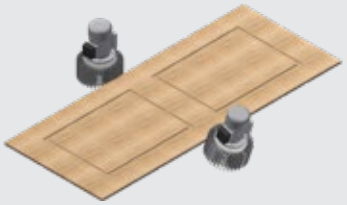
The FIBERTECH·M line has been designed in a modular manner in order to allow the machine to be composed with the number and type of operating groups most suited to the needs of each customer.



Operator group

GROUP VERTICAL BRUSHES

- N° 2 vertical sanding brushes Ø 300 mm and length 140 mm, adjustable 0 ·35° with motor power Kw 0,55 each, variable rotating speed by inverter (300 ÷ 1200 rpm) and lateral adjustment on linear guides. Automatic slow down/stopping to avoid damaging the protruding parts.



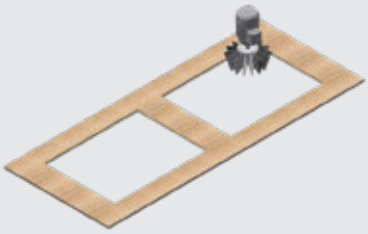




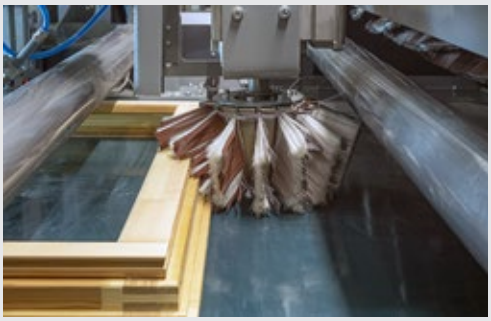


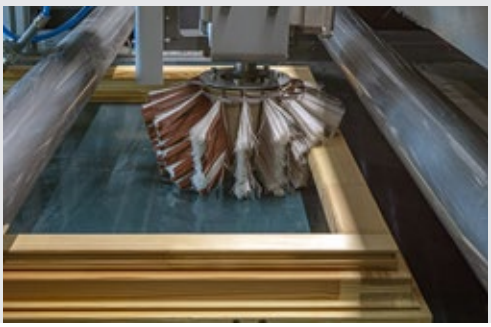
GROUP CENTRAL BRUSH

- Vertical dipping brush Ø 300 mm and motor power Kw 0,55 with automatic vertical positioning (CNC) and variable rotating speed by invert (300 ÷ 1200 rpm) for sanding of top, bottom and all internal profiles. Thanks to a self-learning function of the width and number of profiles, the brush will automatically identify the width and the number of all profiles without any programming.





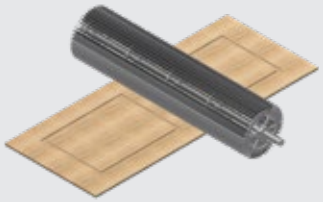


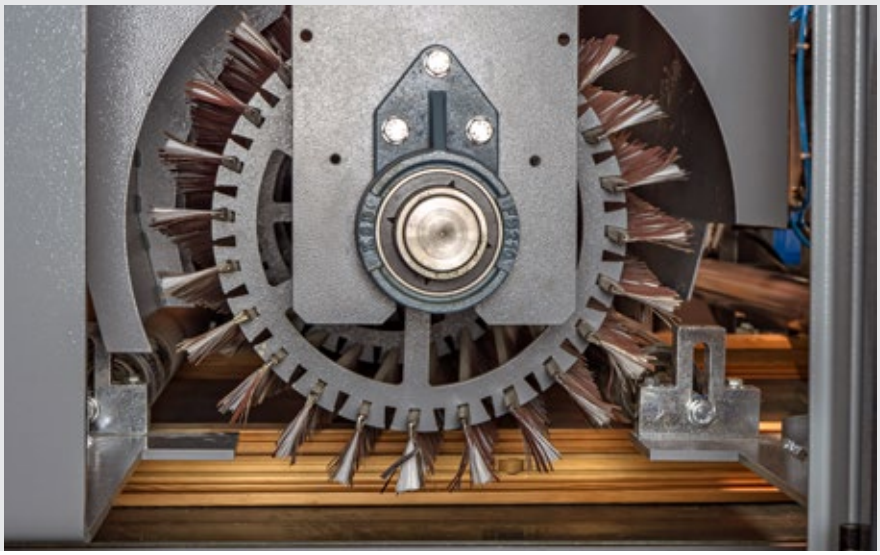


Operator group

GROUP HORIZONTAL BRUSH

- Horizontal cylindrical brush with abrasive strips Ø 400 mm and length 1720 mm, motor power Kw 3. Removable laterally by quick pneumatic release on linear guides for quick abrasive strip change, variable rotating speed by inverter (300 ÷ 1200 rpm) and automatic slow down/stopping to avoid damaging the protruding parts.

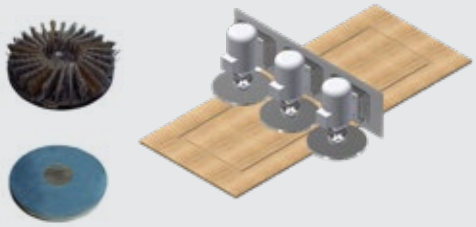




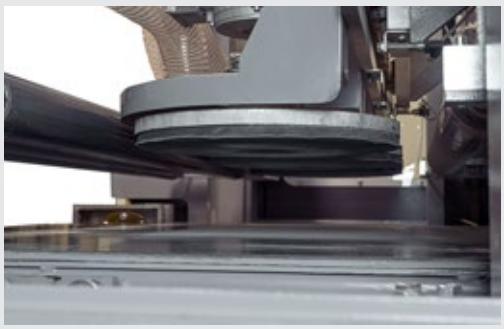


GRUPPO SANDING / STRUCTURING DISCS

- N° 3 sanding or structuring discs Ø 400 mm with motor power Kw 1,5 each, variable rotating speed by inverter (300 ÷ 1200 rpm); automatic vertical positioning, lateral oscillation on linear guides controlled by inverter and automatic slow down/stopping to avoid damaging the protruding parts.



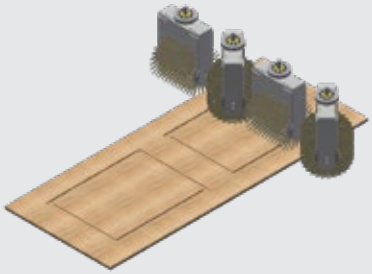






GROUP 3D UNIT

- 3D unit composed by 4 cylindrical brushes Ø 320 mm, motor power Kw 4 with combined rotation and independent speed on vertical and horizontal axe. This sanding unit thanks to the 3D action, the variable rotation speed by inverter (300 ÷ 800 rpm) and to the considerable deep of penetration (up to 30 mm), assure a perfect finishing on pantographed parts or internal parts of windows, sashes, doors and panels.





Characteristics common to all models

- All the groups are managed by an inverter and therefore have speed adjustable via the control.
- All groups have standard slow down/stopping system to protect the protruding parts/beams on the top and bottom of the pieces.
- Automatic setting of all machine groups according to the program selected via the control.
- All the sander discs are equipped with sandpaper and all the abrasive strip brushes can be replaced individually, thus resulting in low operating costs.
- Significant energy savings thanks to the automatic shutdown of the groups in the absence of workpieces and very low dust emission due to an innovative suction system and complete cabinet containment of the machine.



Hardware and Software Control

ELECTRONIC MANAGEMENT OF ALL THE MACHINE FUNCTIONS via PLC + User interface control via 11" colour touch screen that allows ease of use thanks to large and easily identifiable icons.

The user interface is designed for the complete management of machine cycles. The system allows all work data to be kept permanently in the memory and to recall it simply by selecting the work piece from the program list.

The number of storable programs is practically infinite and each of them manages:

- Positioning of the work groups and advancement according to the dimensions of the piece;
- Rotation speed of each individual group;
- Automatic management of abrasive work loads and of their replacement;
- Advancement speed.



Functionality

MANUAL MODE
Activation of the commands on the individual users. The operator, after choosing this operating mode, selects the user to be controlled from the interface. The commands are direct without any functional interlock.

CONFIGURATION MODE
Variation of the characteristic data of the machine, such as parameters and tooling.

AUTOMATIC MODE
This is the normal operating status of the machine. In this condition, the control system, based on the selected processes, manages the machine according to the defined sequences, detecting and signalling anomalous conditions.

REMOTE ASSISTANCE AND REMOTE CONTROL: (REQUIRES INTERNET CONNECTION)
It is possible to search for any faults and to correct incorrect production data by using the remote assistance service.

		FIBERTECH-M-2	FIBERTECH-M-3	FIBERTECH-M-4	FIBERTECH-M-5	FIBERTECH-M-6
Dimensions (width x length x height)	mm	1950x1950x2100	1950x2320x2100	1950x2600x2100	1950x2800x2100	1950x3120x2100
Work surface height	mm	900	900	900	900	900
Weight	kg	3300	3600	3950	4300	4600
Operational electrical voltage and frequency	Hz	400 V/50	400 V/50	400 V/50	400 V/50	400 V/50
Electrical panel protection degree	IP	55	55	55	55	55
Compressed air supply	bar	6	6	6	6	6
Extraction hoods	mm	Nr 2 x D. 120	Nr 4 x D. 120	Nr 5 x D. 120	Nr 6 x D. 120	Nr 7 x D. 120
Product dimensions:						
Minimum length	mm	560 (300 with vacuum)	560 (300 with vacuum)	560 (300 with vacuum)	560 (300 with vacuum)	560 (300 with vacuum)
Maximum width	mm	1500	1500	1500	1500	1500
Minimum thickness	mm	10	10	10	10	10
Maximum thickness	mm	120	120	120	120	120
Additional provisions:						
Certification		CE	CE	CE	CE	CE

Accessories on request:

- Vacuum cap 5.5 kw
- Motorised load belt
- Cup brushes
- Systems for automatic load/unload and for storage of pieces





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