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.

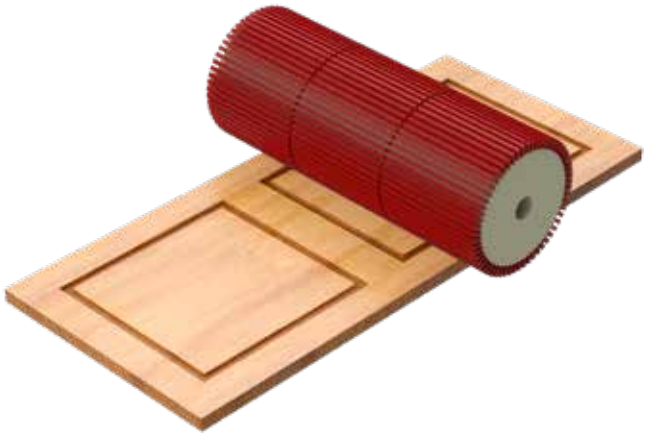
The FIBERTECH·M line has been designed in a modular manner in order to allow the machine to be composed with the number and type of operating groups most suited to the needs of each customer.

Operator group

- 0-35° adjustable vertical brushes 0.55 Kw power each, rotation speed adjustable by inverter, independent horizontal movement on carts and linear guides with sliding. Automatic slow down/stopping to avoid damaging the protruding parts.

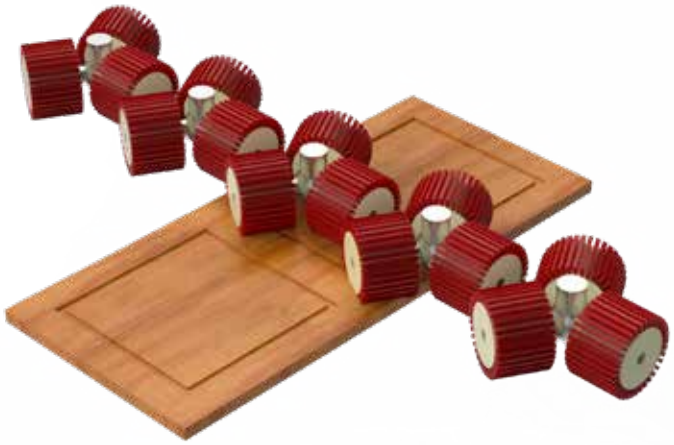
- Central brush d. 300 0.55 Kw power with electronic movement and rotation managed by inverter for the smoothing of internal profiles, top and bottom of windows and doors or cut out panels.

- Horizontal brush Ø 400 - 430 mm with abrasive sectors length 1620 mm. Removable from the side via quick pneumatic release on linear guides for quick change of abrasive strips or internal cleaning, 3 kW power, rotation speed adjustable by inverter, height adjustment of incidence or wear of abrasive strips by handwheel. Automatic slow down/stopping to avoid damaging the protruding parts.

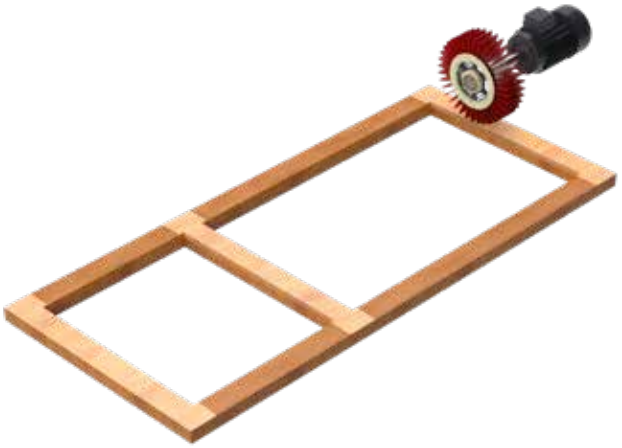


- 3 sanding discs Ø 400 mm 1.5 kW power each, rotation speed adjustable by inverter; horizontal translation by inverter on linear guides, automatic vertical positioning according to the height of the piece recalled by the program. Removable laterally by quick pneumatic release on linear guides for quick abrasive strip change. Automatic slow down/stopping to avoid damaging the protruding parts.

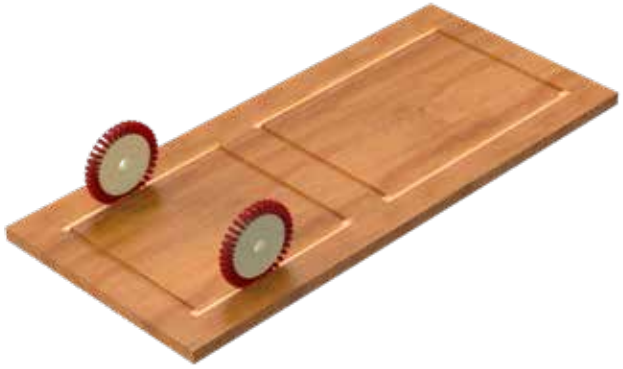
- Device consisting of 5 cylindrical brushes Ø 329 with independent vertical and horizontal rotation. Suitable for sanding pantographed parts or parts inside the piece.



- Transversal brush D. 320-340 with horizontal movement on linear guides. Counter-supported shaft. 1.5 kW power with variable rotation by inverter. Automatic vertical positioning according to the piece height and adjustment to vary the incidence. Particularly suitable for the sanding of cross-beams, blinds, etc. Machine side quick extraction system for abrasive strip change.



- Group consisting of 2 independent units, movement on linear guides with variable-speed 0.18 kW gearmotor via inverter and encoder positioning control, brush rotation via inverter. Independent electro-pneumatic vertical movement for each unit with two positions from 20 to 40 mm.



- 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;
- Group inclination according to the profile stored in the program itself;
- Rotation speed of each individual group;
- Automatic management of abrasive work loads and of their replacement;
- Advancement speed;
- Positioning of reference guides if required.

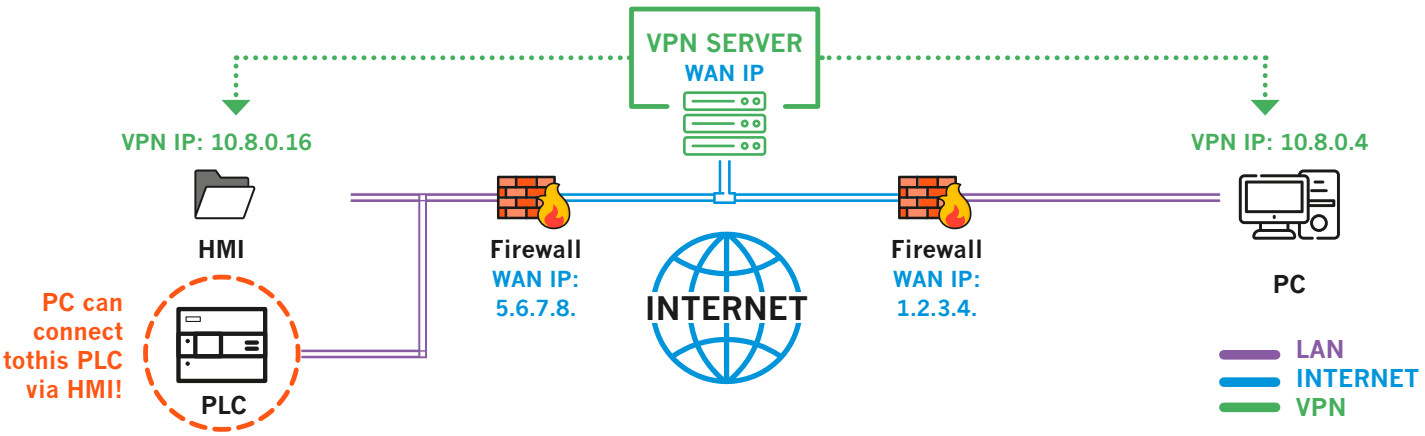
Functionality

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.

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.

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

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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