sarmax

YOUR BEST PARTNER IN SANDING TECHNOLOGY

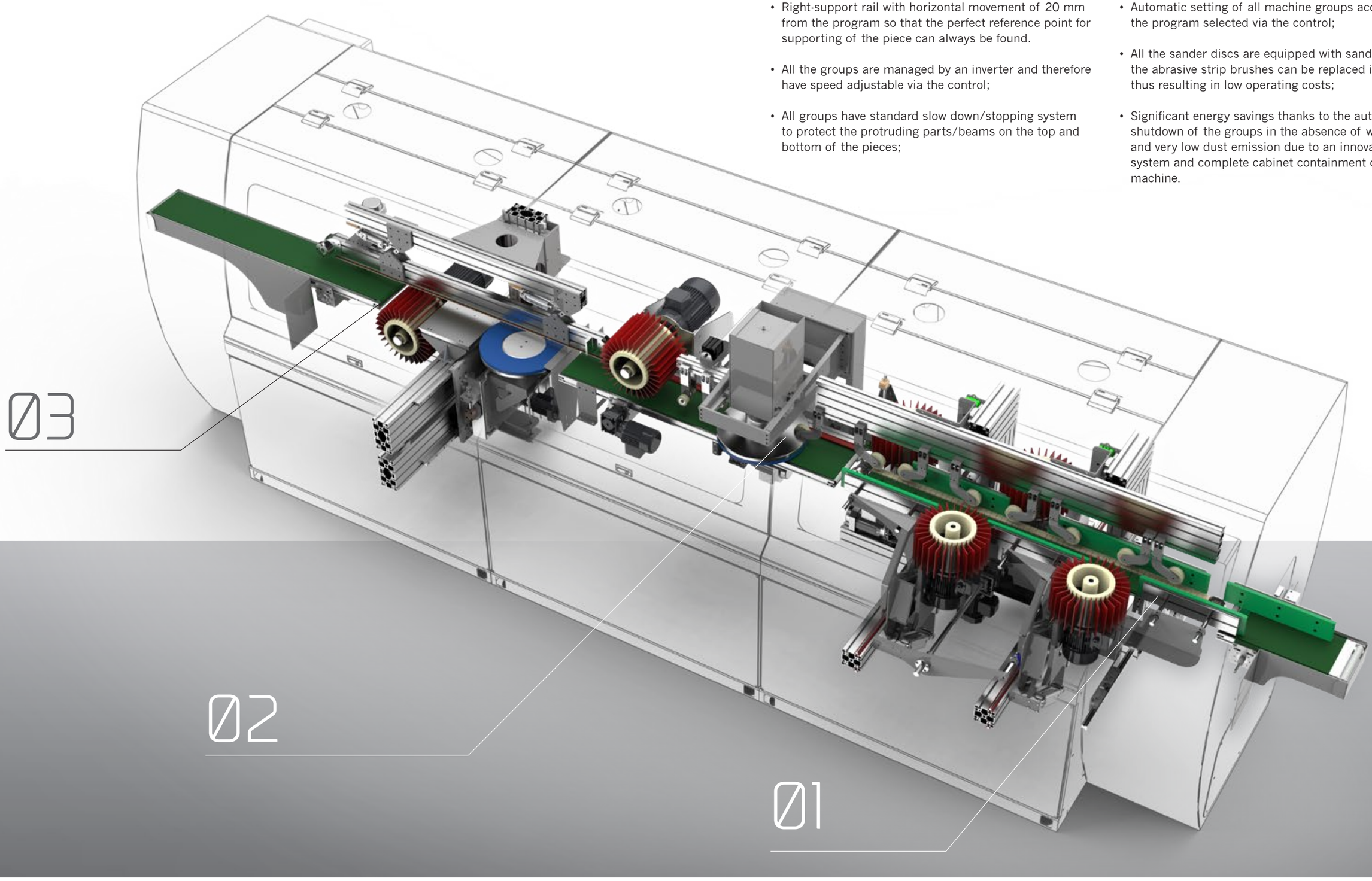
FIBERTECH·S

The FIBERTECH·S finishing line has been designed for the sanding of individual pieces: beads, window frames or doors, square structures of all types; unfinished products, veneered or painted items.
FIBERTECH·S 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·S 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.

PATENT PENDING

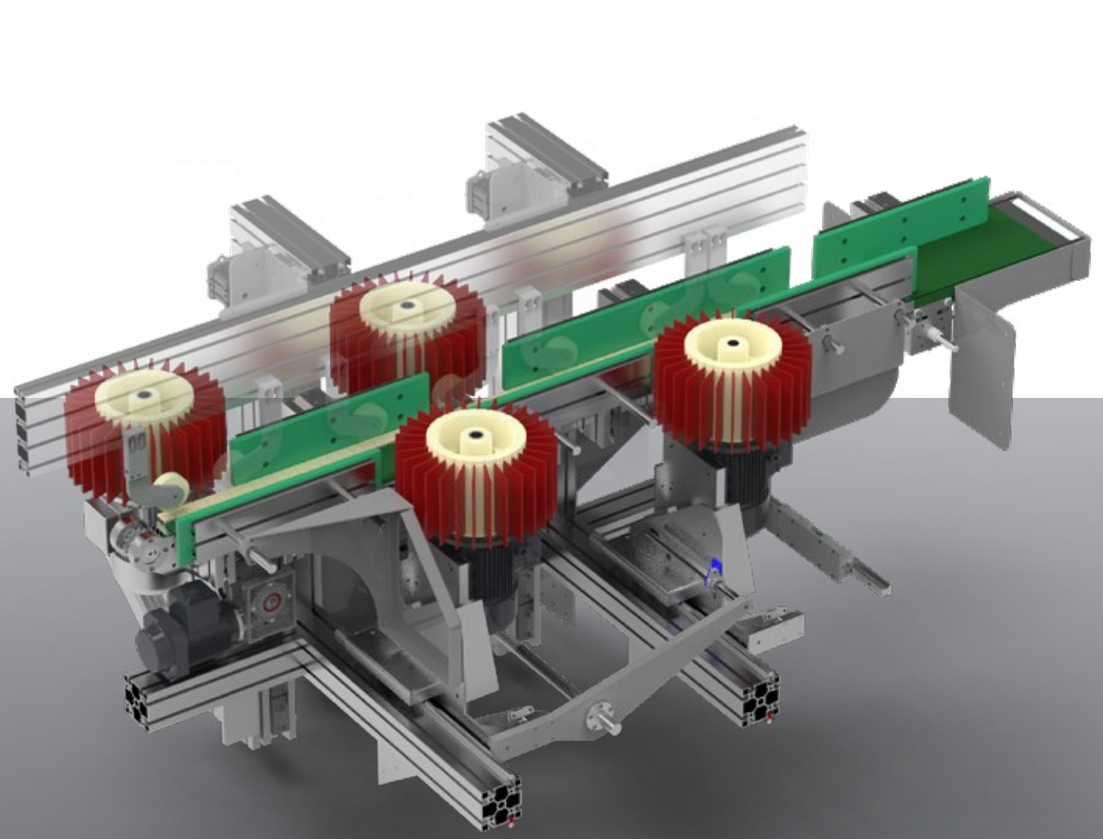
FIBERTECH·S



- Right-support rail with horizontal movement of 20 mm from the program so that the perfect reference point for supporting of the piece can always be found.
- 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.

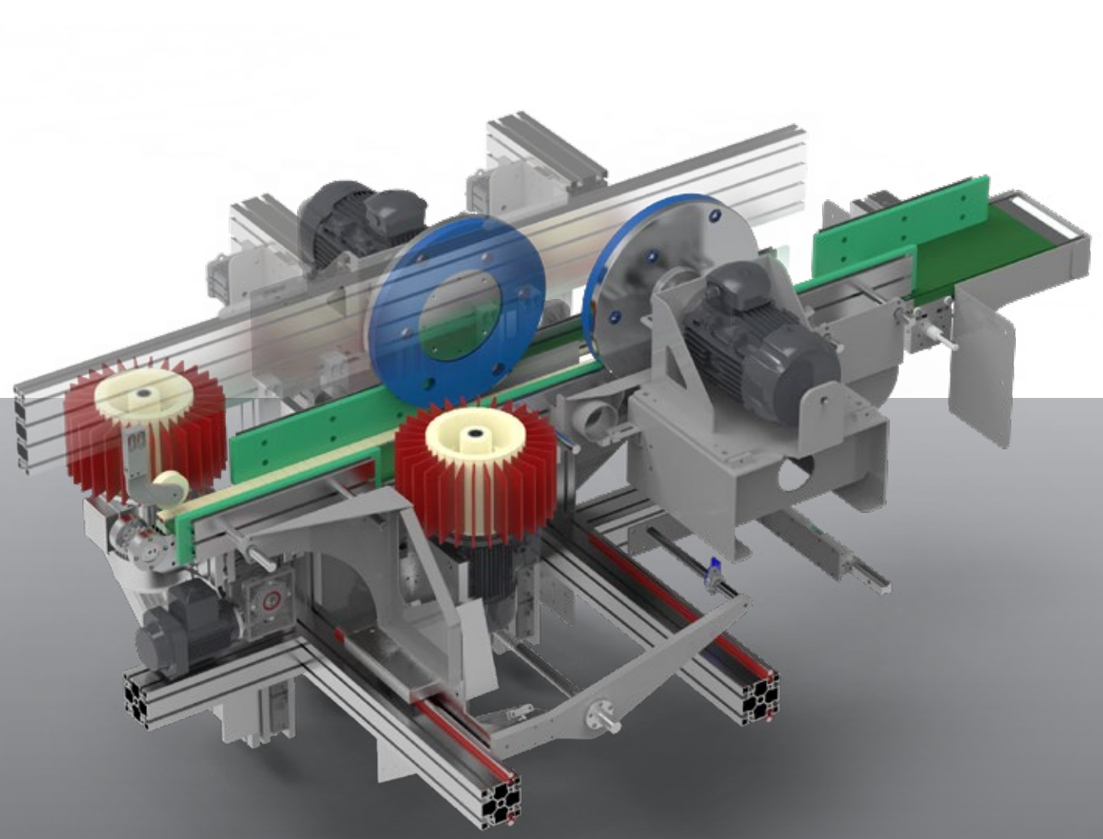
Group 01/a

- 2 Right vertical cylindrical brushes D. 350, 1.1 kW power with variable rotation speed by inverter (converse to or favouring advancement). Automatic program inclination according to the profile of the product. Horizontal adjustment on linear guides according to the desired removal. Unit slow down/stopping system to protect the protruding parts of the piece.
- 2 Vertical left cylindrical brushes D. 350, 1.1 kW power variable rotation speed through inverter (converse to or favouring advancement). Automatic program inclination according to the profile of the product. Automatic horizontal positioning on linear guides according to the width of the piece. Unit slow down/stopping system to protect the protruding parts of the piece.



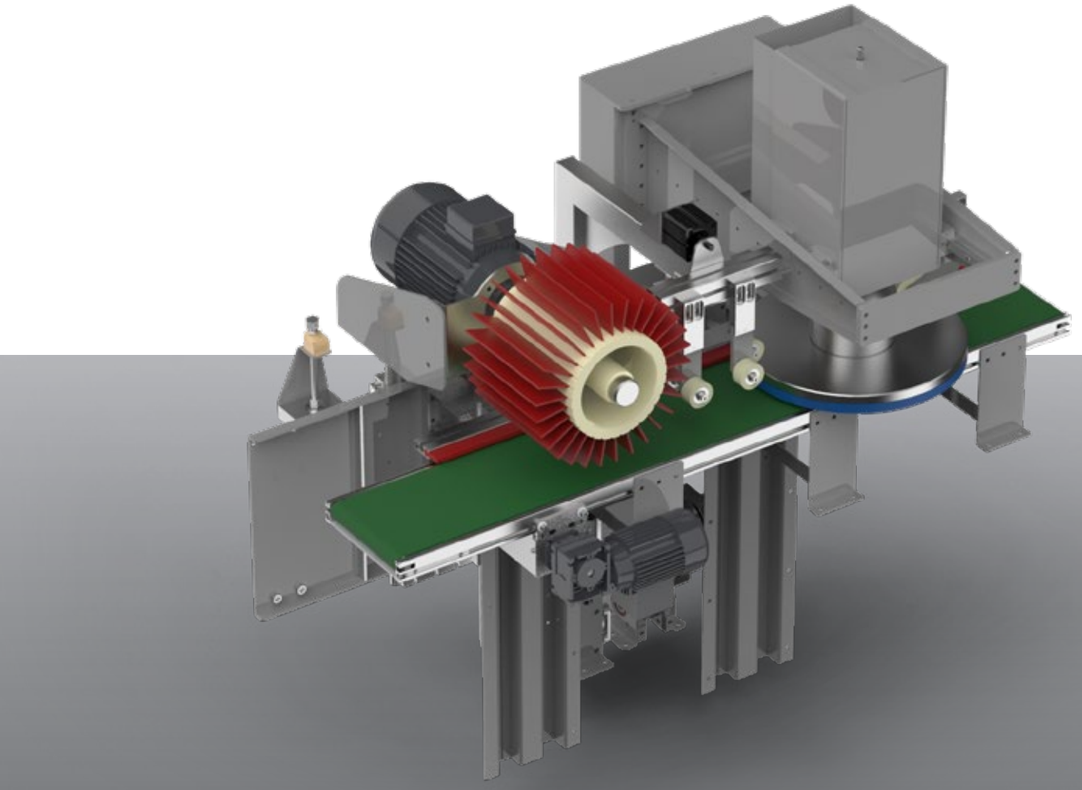
Group 01/b

- 1 Right vertical cylindrical brush D. 350, 1.1 kW power with variable rotation speed by inverter (converse to or favouring advancement). Automatic program inclination according to the profile of the product. Horizontal adjustment on linear guides according to the desired removal. Unit slow down/stopping system to protect the protruding parts of the piece.
- 1 Right vertical sanding disc D. 350, 1.1 kW power with variable rotation speed by inverter (converse to or favouring advancement). Horizontal adjustment on linear guides according to the desired removal. Unit slow down/stopping system to protect the protruding parts of the piece.
- 1 Vertical left cylindrical brush D. 350, 1.1 kW power variable rotation speed through inverter (converse to or favouring advancement). Automatic program inclination according to the profile of the product. Automatic horizontal positioning on linear guides according to the width of the piece. Unit slow down/stopping system to protect the protruding parts of the piece.
- 1 Left vertical sanding disc D. 350, 1.1 kW power with variable rotation speed by inverter. Automatic vertical positioning on linear guides according to the width of the piece. Unit slow down/stopping system to protect the protruding parts of the piece.



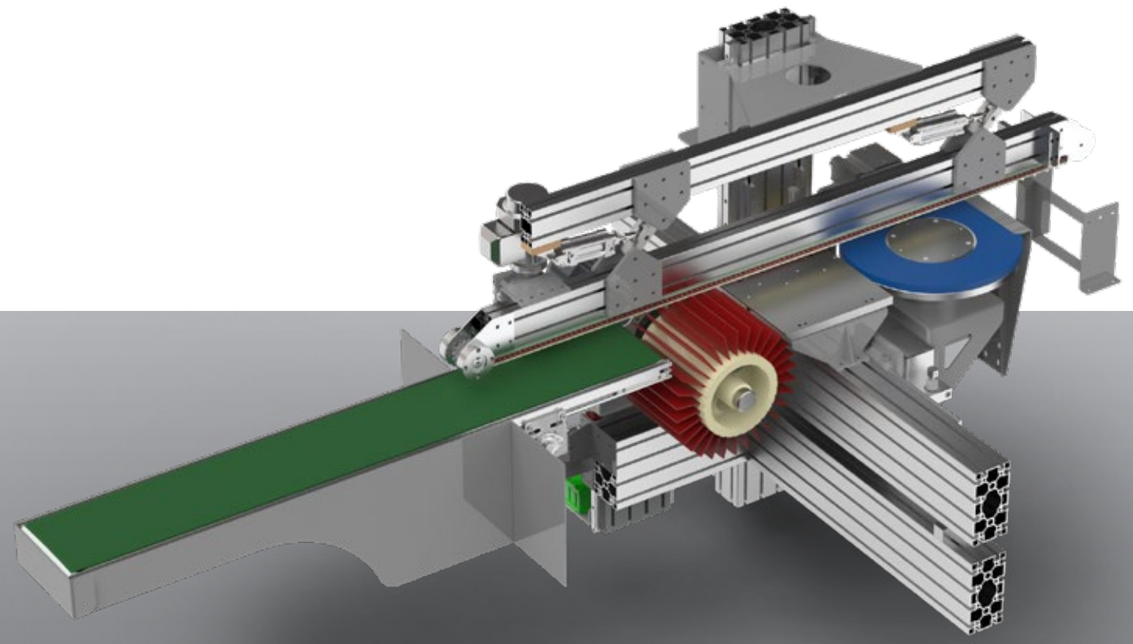
Group 02

- Upper sanding disc 400 mm 1.5 KW power, variable rotation speed by inverter. Possibility of horizontal movement of 200 mm for sanding always at the centre of the piece thereby always obtaining the perfect cross cut. This also facilitates changing of the abrasive strip bringing the group outside the advancement therefore allowing greater accessibility to the operator. 160 mm vertical travel with movements on linear guides and automatic control positioning according to the piece height. Unit slow down/stopping system to protect the protruding parts of the piece.
- Upper cylindrical brush module D. 300, 1.1 kW power with variable rotation speed by inverter. Automatic vertical positioning on linear guides according to the width of the piece. Unit slow down/stopping system to protect the protruding parts of the piece.



Group 03

- Lower sanding disc 400 mm 1.5 KW power, variable rotation speed by inverter. Possibility of horizontal movement of 200 mm for sanding constantly in the middle of the piece plane thereby always obtaining the perfect cross cut. This also facilitates changing of the abrasive strip bringing the group outside the advancement therefore allowing greater accessibility to the operator. Vertical adjustment on linear guides according to the desired removal and elevation display via Siko.Unit slow down/stopping system to protect the protruding parts of the piece.
- Lower cylindrical brush module D. 300, 1.1 kW power with variable rotation speed by inverter. Horizontal adjustment on linear guides according to the desired removal and elevation display via Siko. Unit slow down/stopping system to protect the protruding parts of the piece.



Upper or lower two-stage sanding disc (optional)

PATENT PENDING

Possibility of horizontal movement of the upper pressure group and of the automatic advancement for the lower groups from the program according to the geometry of the piece.

Possibility of timed intervention of the upper disc for greater protection of the beams at the top and bottom of the piece.

The double stage, consisting of a disc of ...mm inside the main sanding disc, allows contemporaneous sanding on pieces that have on the upper or lower side 2 planes of different thickness (door jambs, windows with integrated clamp, etc.) Another important function is that of being able to mount the supports or guides in the inner disc, in this case without rotation, to support pieces with particularly complex geometries.

Horizontal movement of 200 mm to bring the disc to the centre of the piece in order to always obtain the position for a perfect cross cut. This also facilitates changing of the abrasive strip bringing the group outside the advancement and therefore allowing greater accessibility to the operator.

Combined with the disc with horizontal movement, a left support guide can be applied which, adapting to the movement of the disc, guarantees further support for the workpieces.

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 was designed for the complete and intuitive 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;
- Ggroup 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.

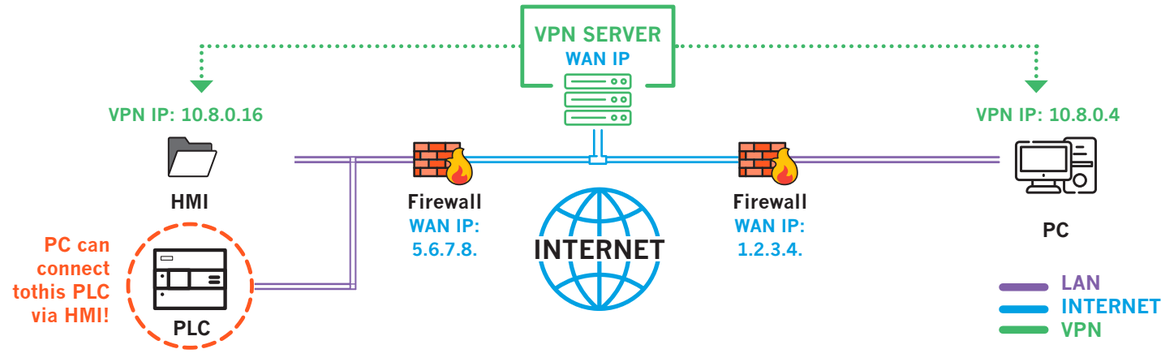
Functionality

MANUAL MODE
Activation of the controls 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-S-4	FIBERTECH-S-6	FIBERTECH-S-8	FIBERTECH-S-10
Dimensions (length x width x height)	mm	3460 x 1400 x 1800	5200 x 1400 x 1800	5200 x 1400 x 1800	6900 x 1400 x 1800
Work surface height	mm	900	900	900	900
Weight	kg	3200	3200	3200	3200
Operational electrical voltage and frequency	Hz	400 V/50	400 V/50	400 V/50	400 V/50
Maximum electric power used	Kw	7	11	15	18
Electrical panel protection degree	IP	55	55	55	55
Compressed air supply	bar	6	6	6	6
Extraction hoods	mm	Nr 4 x D. 120	Nr 5 x D. 120 mm	Nr 6 x D. 120 mm	Nr 6 x D. 120
Product dimensions:					
Minimum length	mm	350	350	350	350
Maximum width	mm	200	200	200	200
Minimum thickness	mm	10	10	10	10
Maximum thickness	mm	120	120	120	120
Certification		CE	CE	CE	CE

Accessories on request:

- Horizontal positioning of electronic sanding discs
- Two-stage sanding discs with electronic horizontal positioning
- Left-containment guide with electronic horizontal positioning
- Cup brushes to replace the sanding discs
- Vertical sanding discs with electronic inclination
- Self-learning piece system: an input module reads the size and shape of the piece automatically positioning all the operating groups
- Systems for automatic load/unload and for storage of pieces

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