

BRUSHING MACHINES

B

SERIE

BLI series



BA series

BL series

BLR series

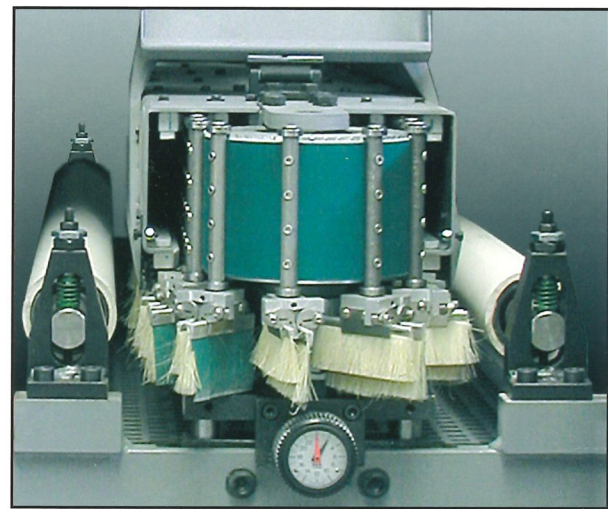
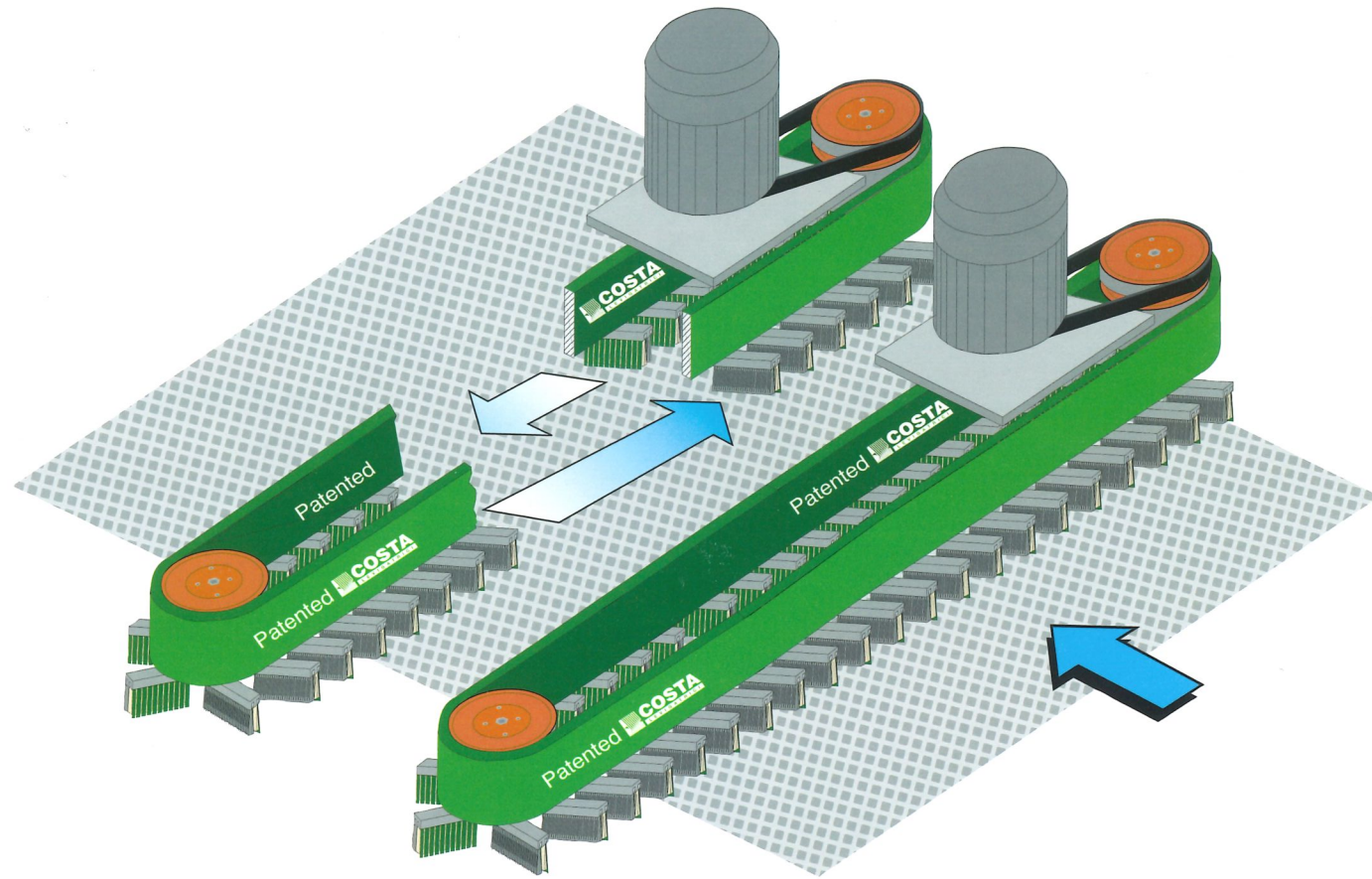


Bilateral cross brushing unit

XL

is our new system for bilateral brush-sanding (patent pending), is utilized in our machines to :

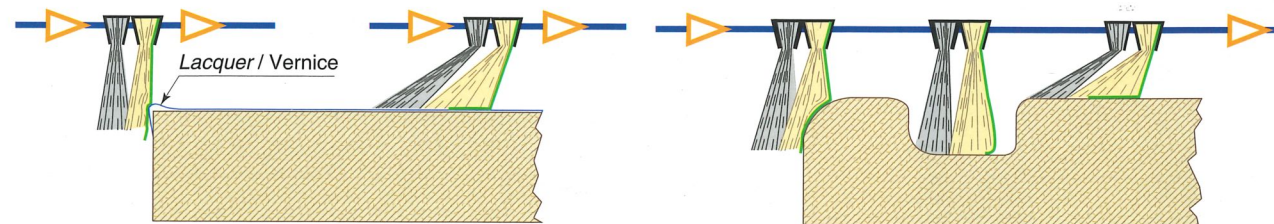
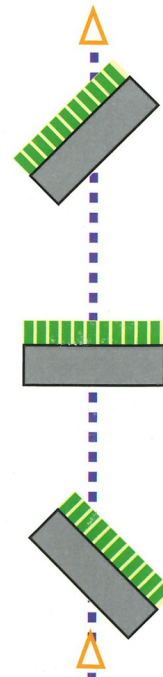
- complete cross sanding in recesses and edges;
- break the sharpness of edges (lacquer);
- help to remove fuzz from edges and surface.



XLS is equipped with:

- micrometrical setting of the working pre-load;
- motor power 2,2 kW controlled by inverter for variation of brushing speed range from 1 to 4 m/s;
- two dust hood collectors for proper cleaning of elements;
- quick change of abrasive inserts from the service side; the abrasive inserts that can be prepared by the utilizers themselves.

The sanding pads are inclinable of +/- 45° in respect of the feed direction.



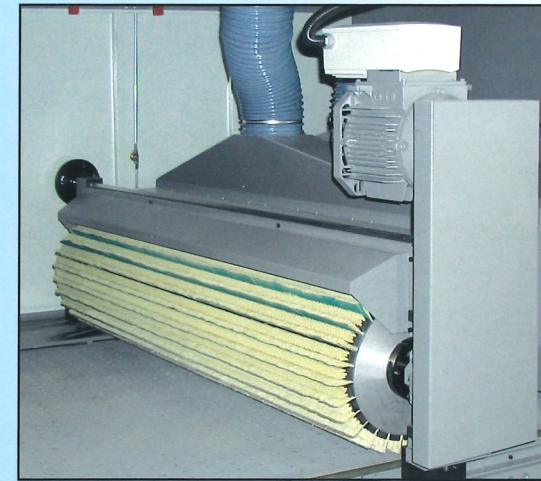
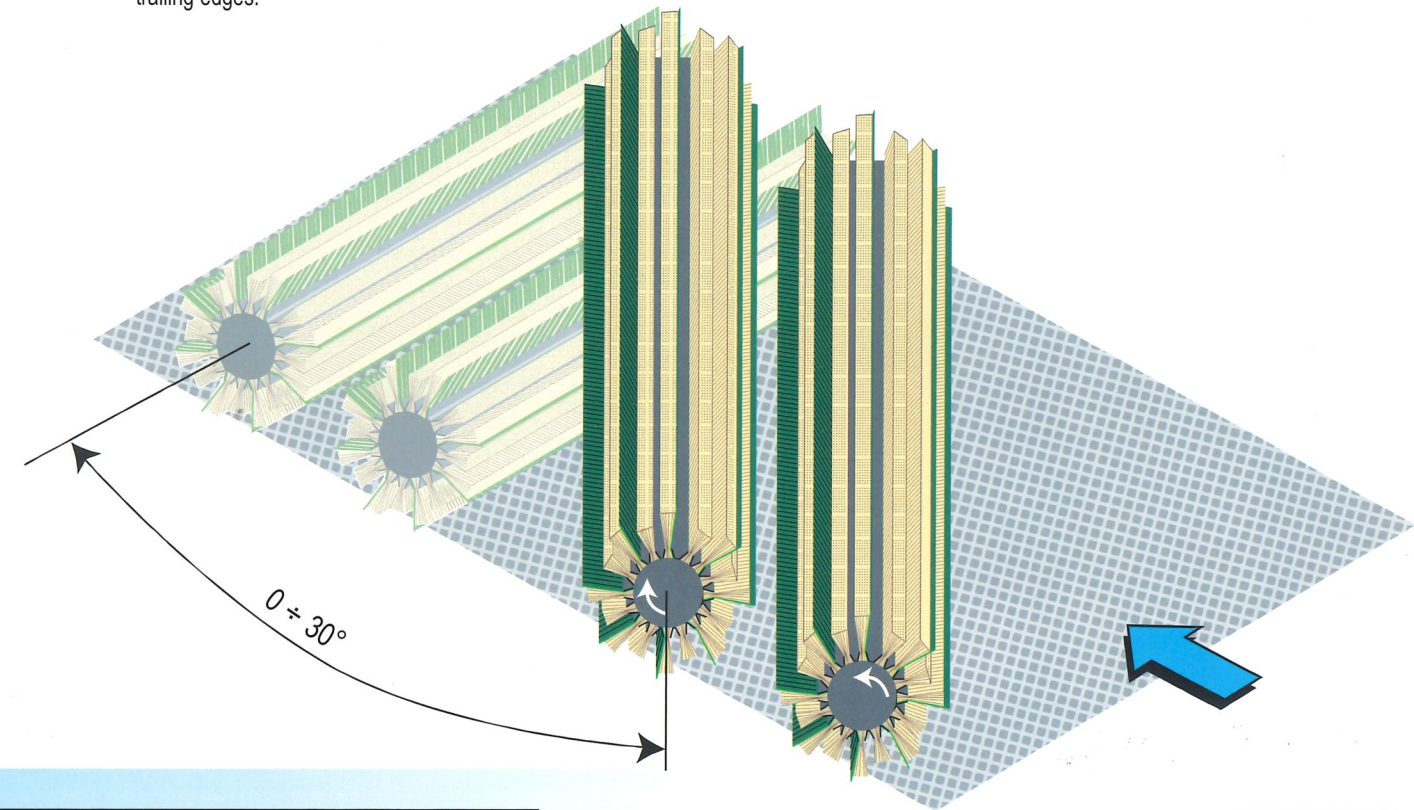
Longitudinal - inclinable brush units

FT

The FT brushing system is constituted by large dimensioned brush rollers - both longitudinal or inclined - that must be completed with the various abrasive inserts available. The brushes can be positioned longitudinally to the feed direction of work-pieces; to improve the brushing effect on the sides we can feed the panels inclined.

If however the work-pieces cannot be feed inclined for loading or line limitations, some of our machines can incline the brushes, maintaining the work-pieces perpendicular to the feed direction.

In general a set of two brushes are equipped with similar inserts, with opposed sense of rotation to obtain the same level of finish in leading and trailing edges.



FlexTrim (TM)

Wide range of brushes FlexTrim (TM) with abrasive inserts supported by vegetal brushes.

- Quick substitution of inserts with patented system "snap lock"
- FT4 - brush diameter 400 mm with 27 + 27 inserts
- FT3 - brush diameter 300 mm with 21 + 21 inserts

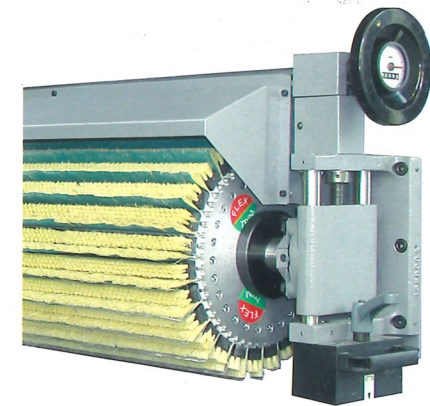
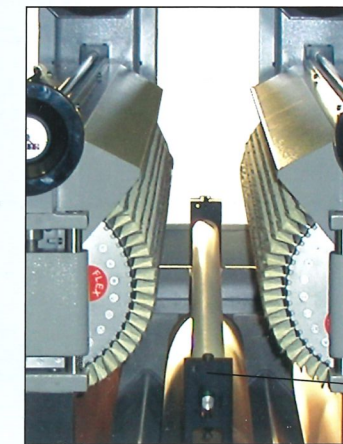
View of a brush unit FT4

- complete with inverter (on top of the motor) for the continuous setting of the rotation speed from 0 to 500 rpm
- complete with hood for dust collection
- (optional) is an oscillating air jet blower for cleaning the inserts

FT3
FT4



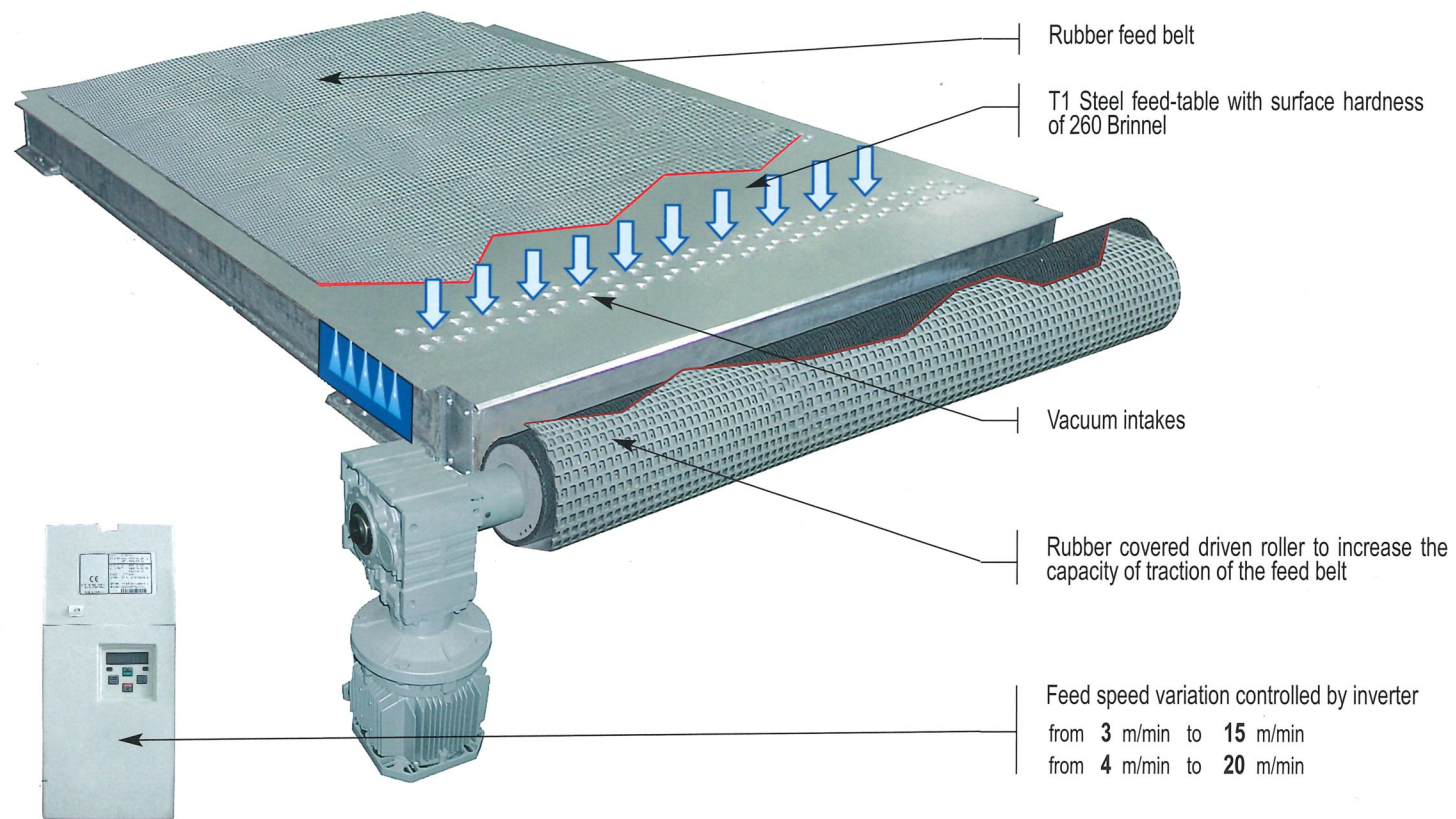
View of a brush unit FT4 with applied (optional) a sectioned & tilting spring-loaded rollers, made for the inclinable unit from 0° to 30° to maintain a good pressure on the work-pieces in all working conditions.



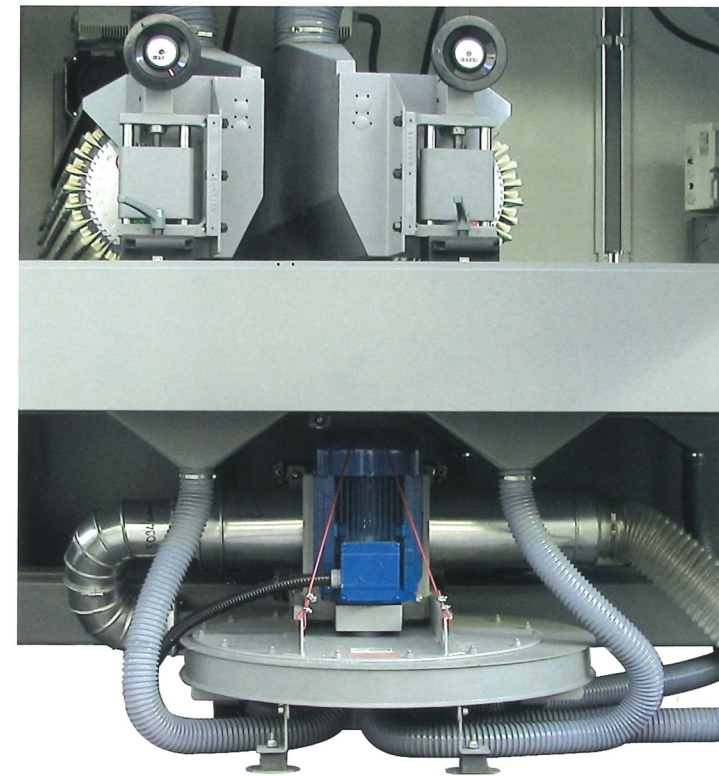
View of a brush unit FT4 with handle for pressure regulation

Intermediate pressure rubber rollers adjustable, utilized to maintain a good pressure on work-pieces and avoid that the short ones stop under the brushes.

Feed system

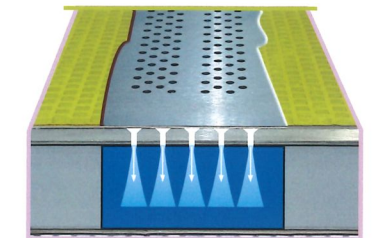


Vacuum hold system



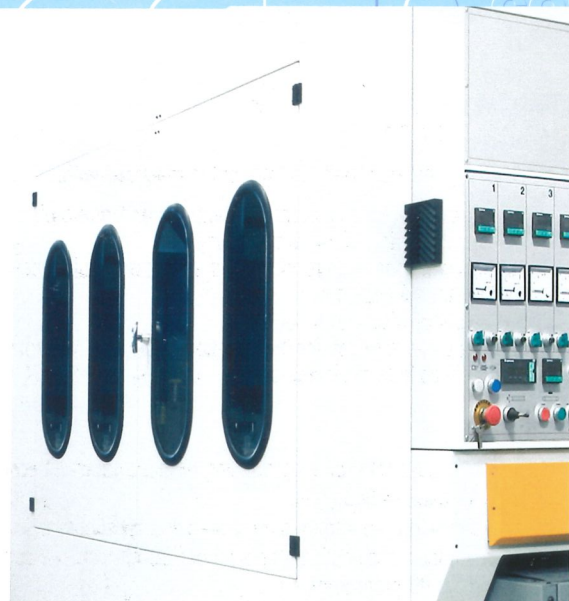
Machines of series BL-BLI can be equipped with both longitudinal pressure rollers for holding work-pieces in front and rear of each longitudinal unit (XL and FT long.) or with a vacuum plant when utilizing inclinable brushes 0° - 30°

A high speed ventilator generates a strong pull under each working unit to secure the traction of slippery or short panels.



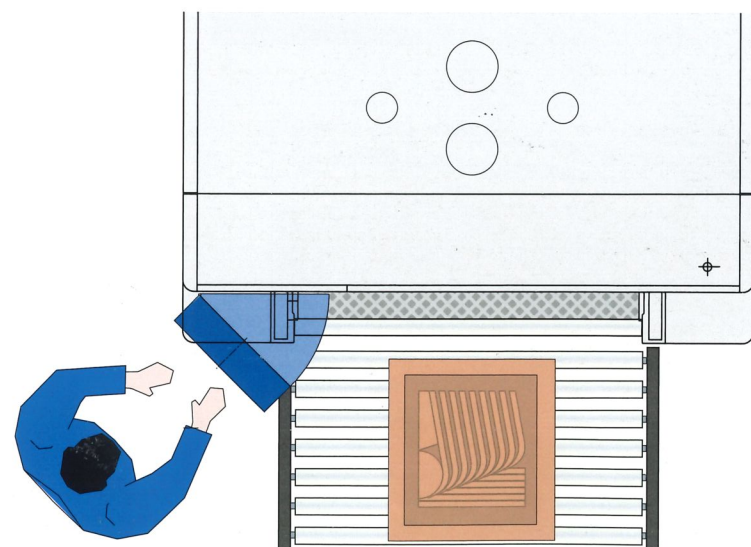
A sound-protected ventilator needed for the vacuum plant is inserted inside the machine frame

Options and accessories



The machines of Series B can have doors with glasses (options), to allow an inspection to the work-pieces and the working units without need to open doors (and stop the machine).

Another accessory (linked to doors with glass) is the lighting plant inside the machine, to have a better view of the inside.



Possibility to have a 45° inclined panel board very useful for machines positioned in line

Control systems



Electro-mechanic panel

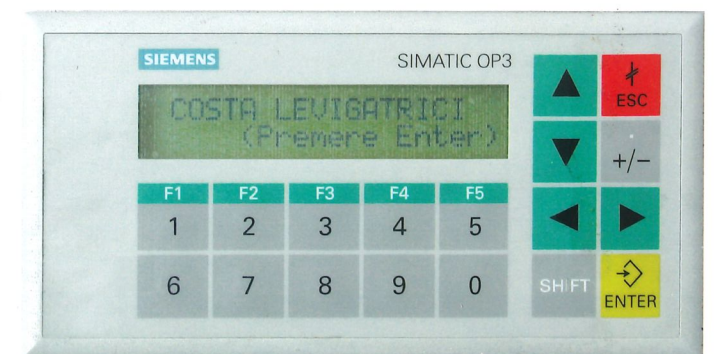
Control panel positioned in front of the machine, with:

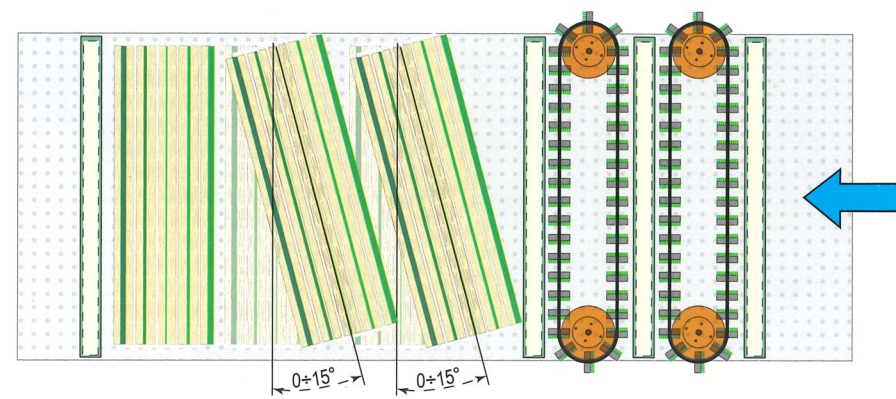
- push-buttons for all motors and amp-meter readers of power utilization of the working units;
- digital positioner with read-out of the thickness adjustment with decimal accuracy;
- emergency stop and reset;
- range change switch for the variation of the feed speed;
- diagnostic leds of electric-pneumatic-safety problems;

PLC

A PLC is available for programming all parameters of process for each working unit.

These working programmes are stored and recallable with a code number, according to the type of PLC chosen, we can store from 99 programmes to



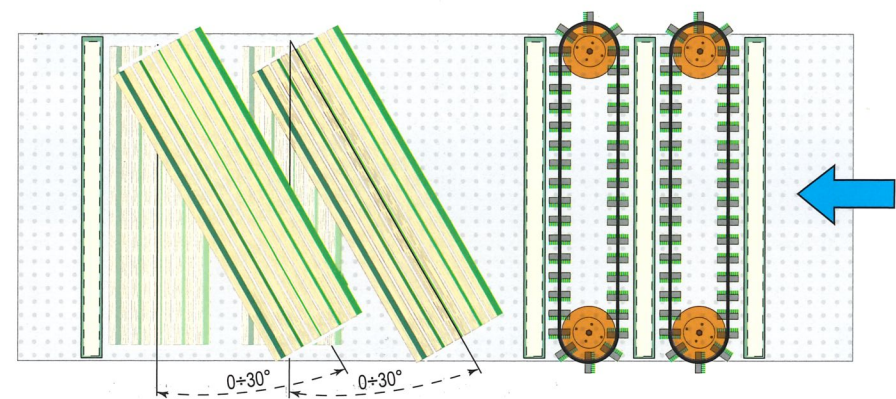


BLI-XL-35

machine with:

- 2 bilateral cross units XLS
- 2 brushes FT4 (inclinaable from 0° to 15°)
- 1 brush FT4 (fix)

This is the most efficient "combined" brushing system that assures a good lateral brushing action with 2 + 2 passes on the opposed sides and recesses, and then again with the 2 following counter-rotating large brushes in leading and trailing edges, and finally finishes in the direction of feed with the final longitudinal brush the top surface of panels.

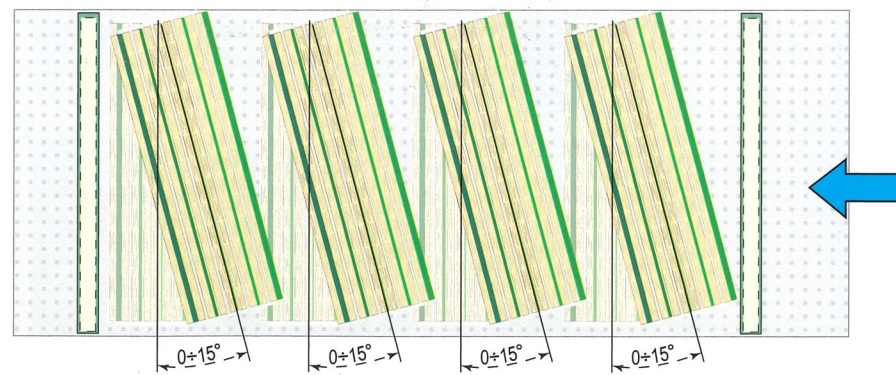


BLI-XL-25

machine with:

- 2 bilateral cross units XLS
- 2 brushes FT4 (inclinaable from 0° to 30°)

This is a very efficient "combined" brushing system that assures a good lateral brushing action with 2 + 2 passes on the opposed sides and recesses, and then finishes with the 2 following final passes of the counter-rotating large brushes in leading and trailing edges and the top surface of panels

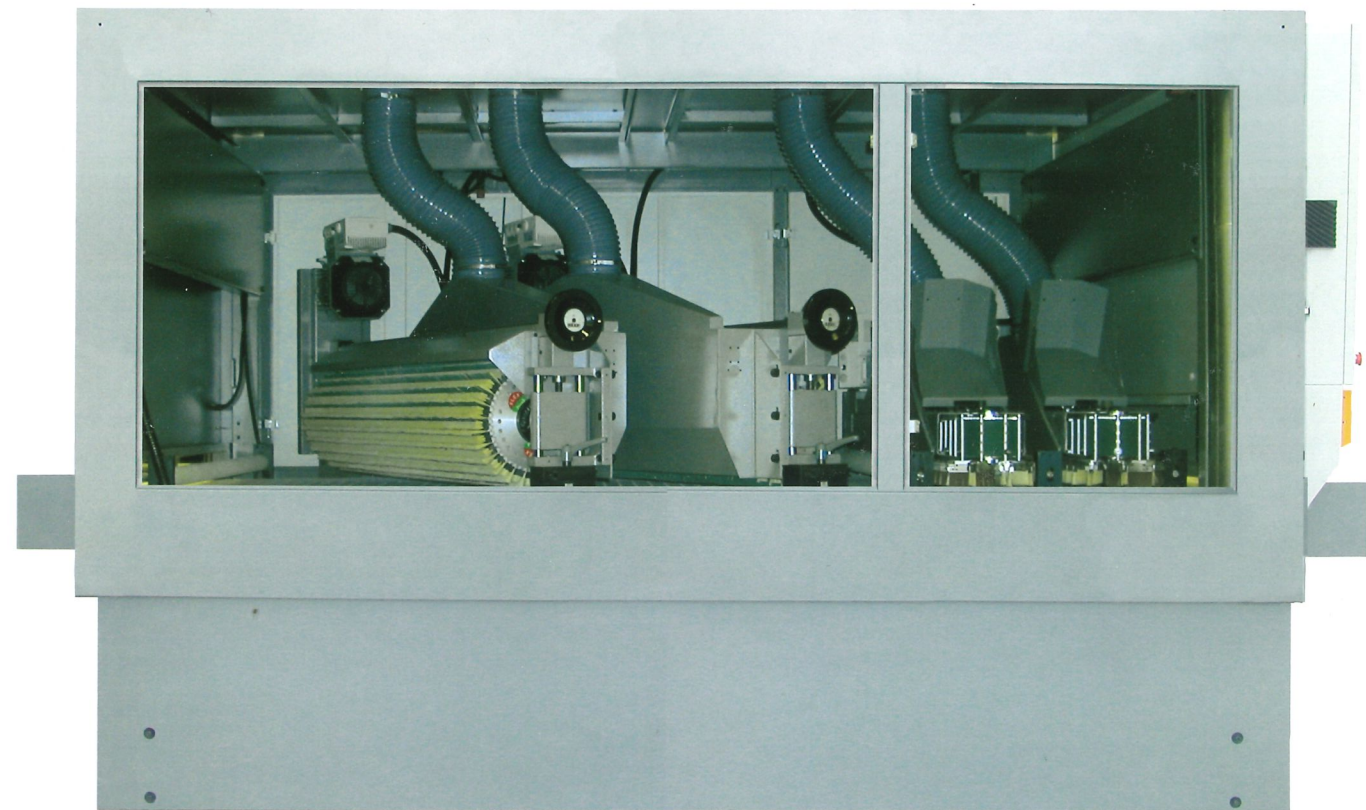


BLI-F4-45

machine with:

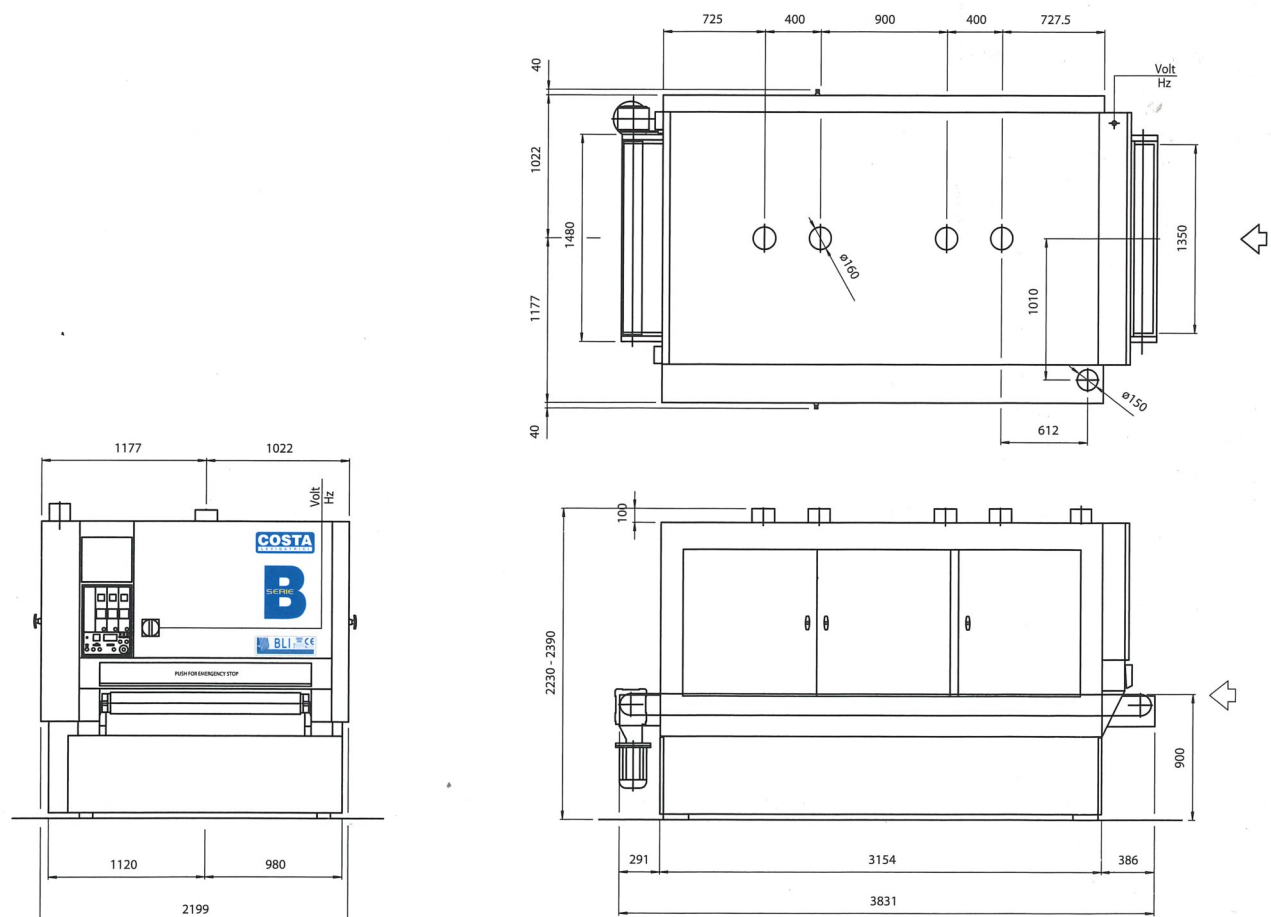
- 4 brushes FT4 (inclinaable from 0° to 15°)

This is an efficient brushing system that assures a good lateral and longitudinal brushing action with the counter-rotating large brushes in leading and trailing edges and the top surface of panels



Series BLI represents our larger available brushing machine, with a wide possibility of composition, see examples by the side.

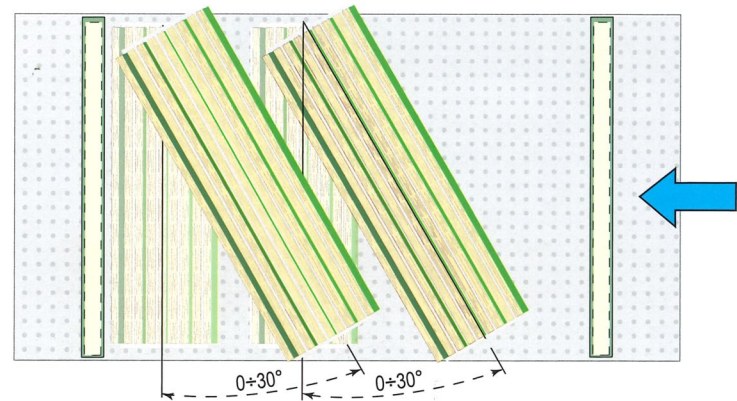
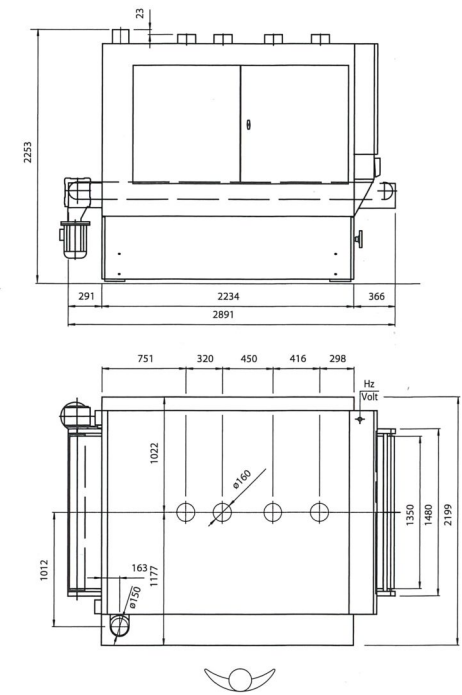
- Is available with constant pass-line at 900 mm from floor, with movable head carrying the working units that allows a working thickness from 0 to 160 mm;
- working width 1350 mm;
- rubber feed belt drive system equipped with inverter 2,5 kW for variation of feed speed from 5 to 25 m/min in continuous;
- vacuum feed table standard with electro-ventilator 7,5 kW;
- pressure unit for longitudinal units with rubber covered rollers spring-loaded;
- brush units with motors controlled by inverters 2,2 kW each;
- in rear of machines we can insert another cleaning brush and / or rotary blowers.



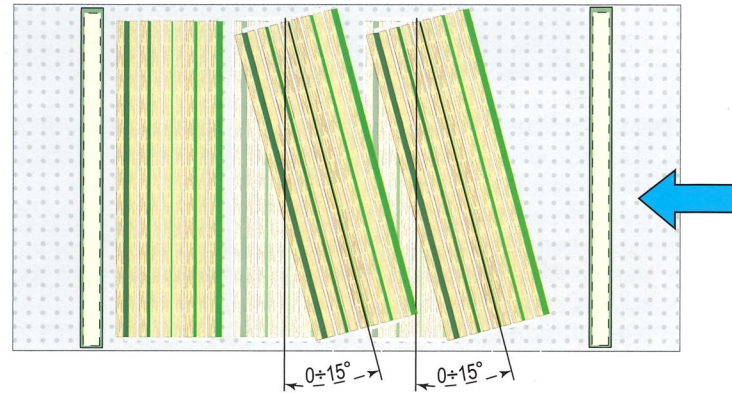


Series BL represents our medium-large model in the field of brushing machines, with a good possibility of composition, see examples by the side.

- Is available with constant pass-line at 900 mm from floor, with movable head carrying the working units that allows a working thickness from 0 to 160 mm;
- working width 1350 mm;
- rubber feed belt drive system equipped with inverter 2,5 kW for variation of feed speed from 5 to 25 m/min in continuous;
- vacuum feed table standard with electro-ventilator 5,5 kW;
- pressure unit for longitudinal units with rubber covered rollers spring-loaded;
- brush units with motors controlled by inverters 2,2 kW each;
- in rear of machines we can insert another cleaning brush and / or rotary blowers.



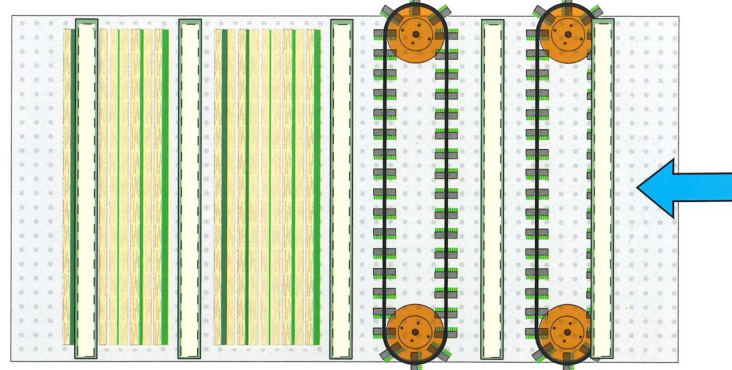
BL-F4-25
machine with:
2 brushes FT4 (inclinable from 0° to 30°)



BL-F4-35
machine with:
2 brushes FT4 (inclinable from 0° to 15°)
1 brush FT4 (fix)

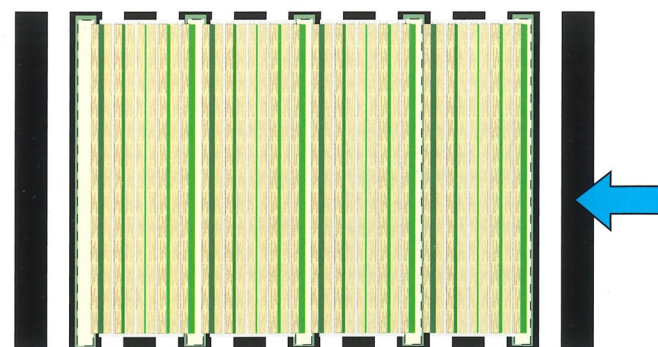
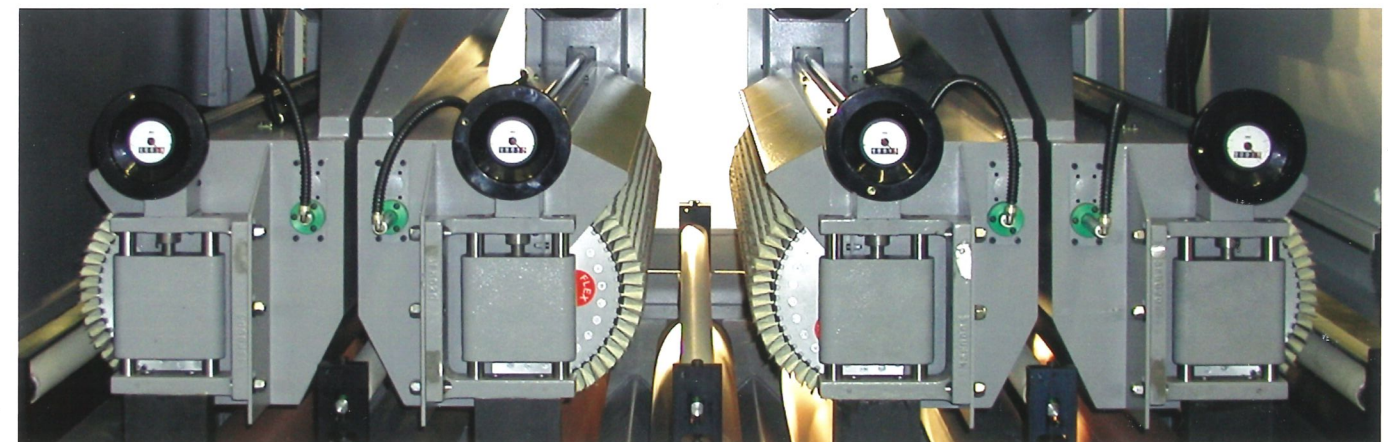


BL-F4-40
machine with:
4 brushes FT4 (fix)

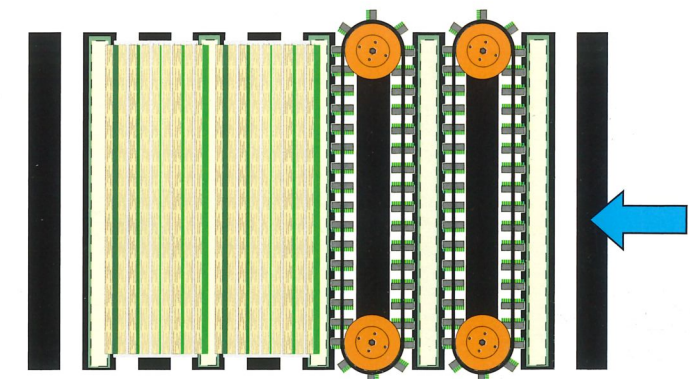


BL-XL-20
machine with:
2 bilateral cross units XLS
2 brushes FT4 (fix)

Series BL for specific applications can be equipped with rollers feed system, in such case its denomination is BLR (see pictures that follows). Rubber covered roller of large diameter consent an high feed speed. The machine in the following picture is utilized in a plant to lap inert sheet material. The working units are equipped (optional) with oscillating air jet blowers.



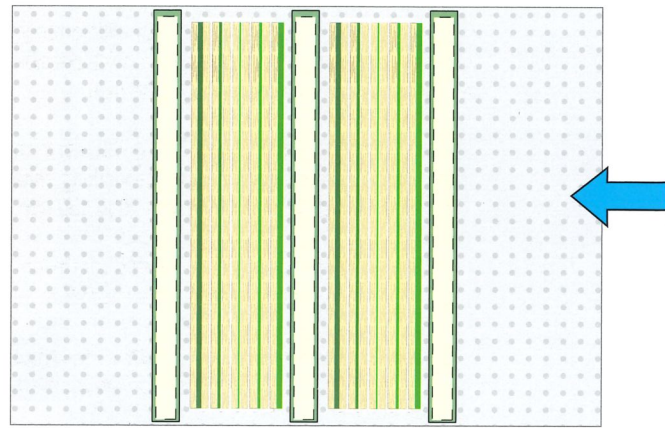
BLR-F4-40
machine with:
4 brushes FT4 (fix)



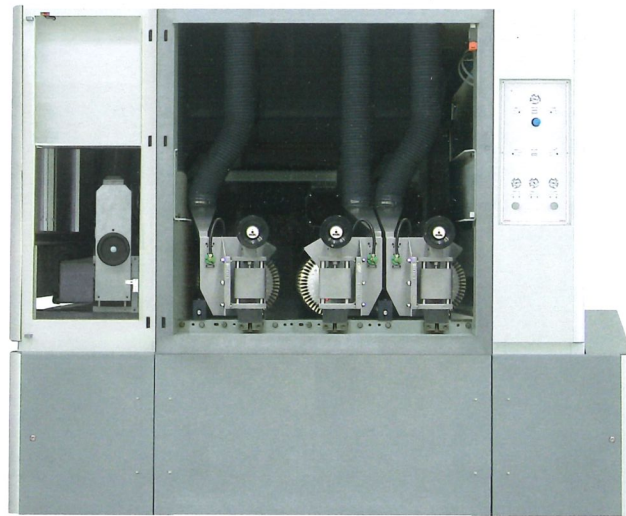
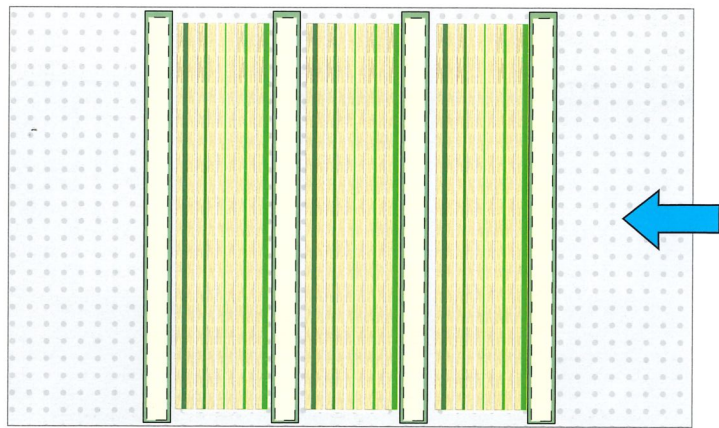
BLR-XL-20
machine with:
2 bilateral cross units XLS
2 brushes FT4 (fix)

BA-F series "Longitudinal brushing machines"

BA-F / BA-L series

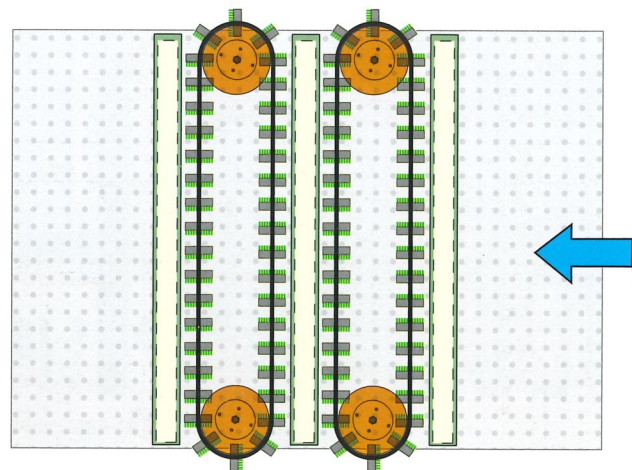


BA-F3-2 machine with 2 brushes FT3 (fix)



BA-F3-3 machine with 3 brushes FT3 (fix)

BA-L series



BA-L2 machine with 2 bilateral cross units XLS

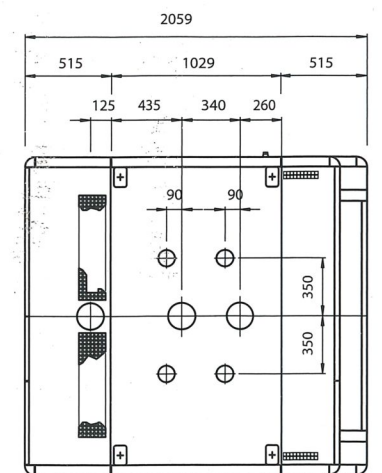
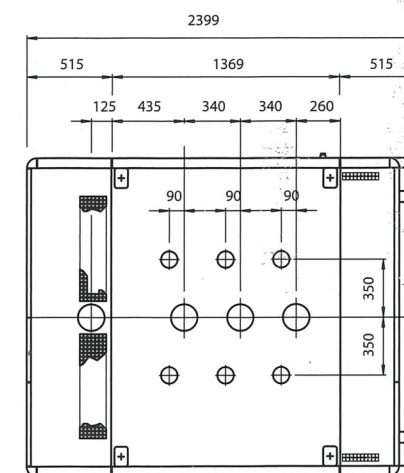
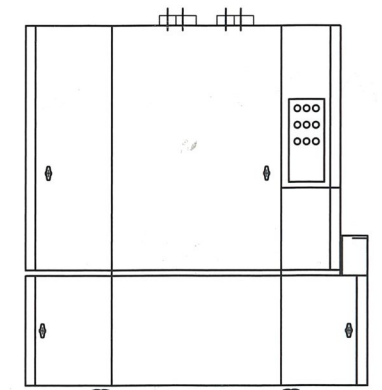
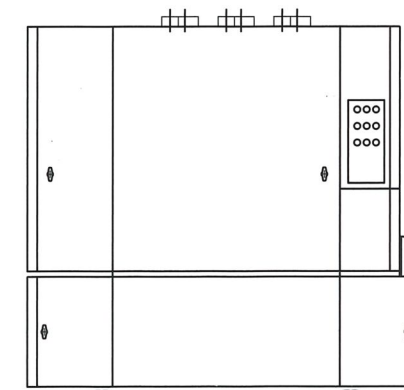
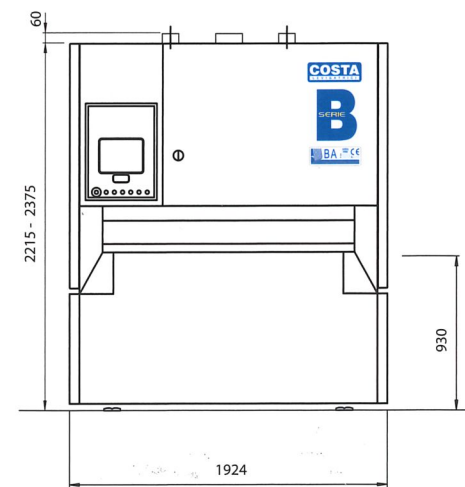


Series BA-L represents our proposal of middle range in the field of brushing machines, with a wide possibility of composition, see examples by the side

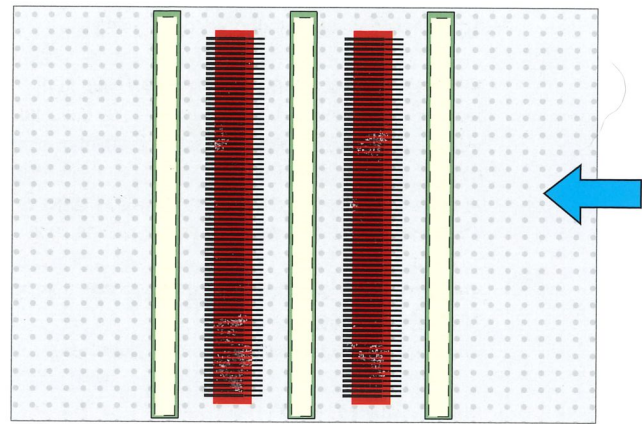
- Is available with constant pass-line at 930 mm from floor, with movable head carrying the working units that allows a working thickness from 0 to 160 mm;
- working width 1350 mm
- rubber feed belt drive system equipped with inverter 2,5 kW for variation of feed speed from 5 to 20 m/min in continuous;
- vacuum feed table with electro-ventilator - pressure unit for longitudinal units with rubber covered rollers spring-loaded;
- brush units with motors controlled by inverters 2,2 kW each.-

This middle Series is similar to the bigger range in the base compositions, only with brush units only longitudinal (no possibility of inclination) of smaller diameter, 300 or 250-200 mm

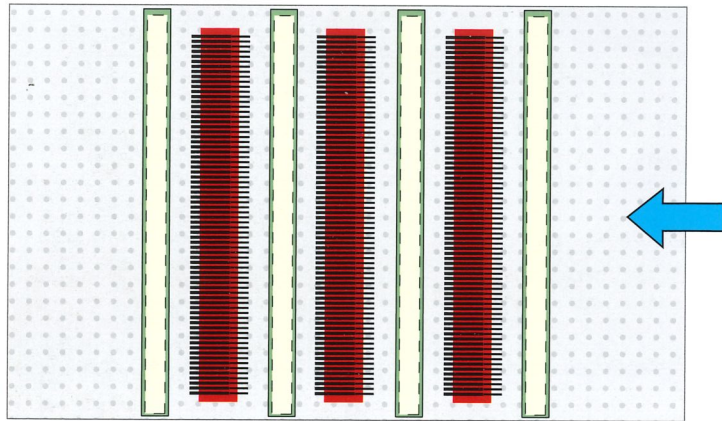
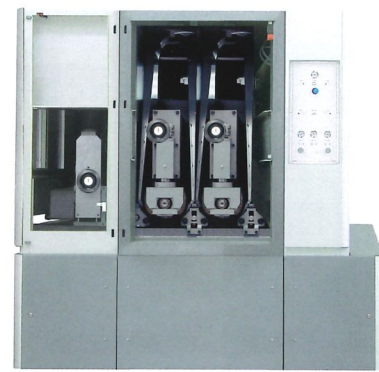
In rear of machines we can insert another cleaning brush and / or rotary blowers.



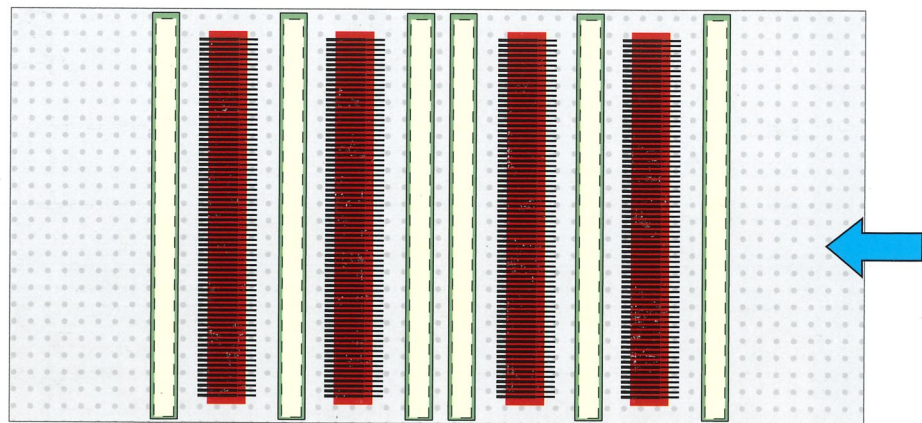
BA-R series "Grain highlighting machines"



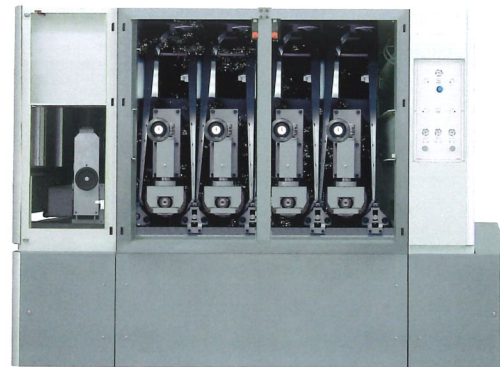
BA-R2 - grain highlighting machines with 2 steel brush units GS-25



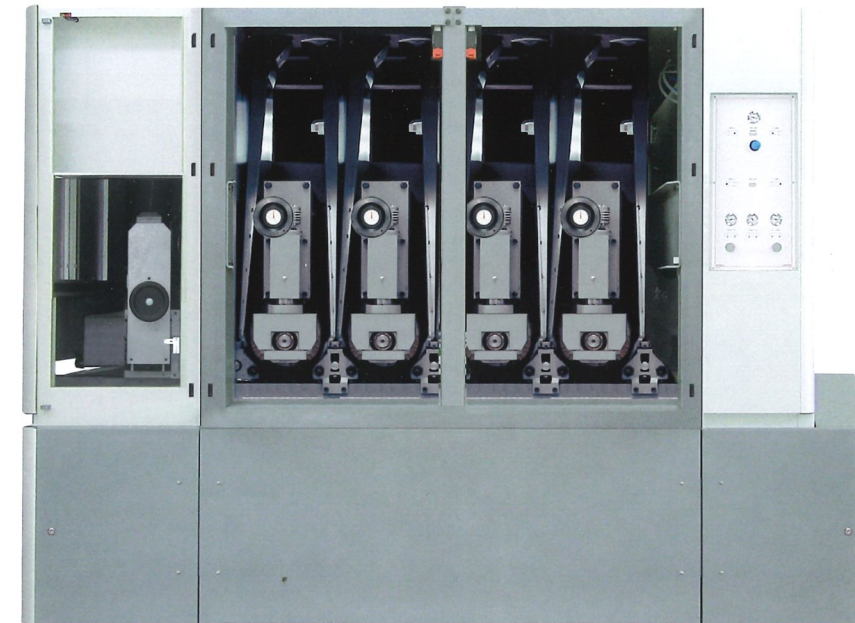
BA-R3 - grain highlighting machines with 3 steel brush units GS-25



BA-R4 - grain highlighting machines with 4 steel brush units GS-25



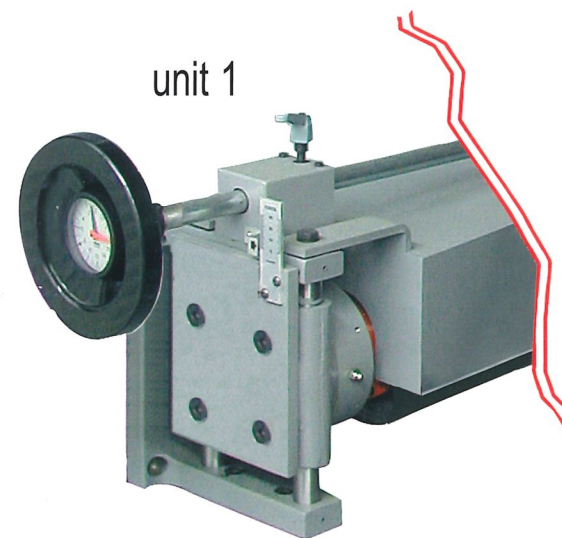
BA-R series "Grain highlighting machines"



Series BA-R represents our middle-range proposal in the field of brushing machines for grain highlighting

- Is available with constant pass-line at 930 mm from floor, with movable head carrying the working units that allows a working thickness from 0 to 160 mm;
- working width 1350 mm;
- rubber feed belt drive system equipped with inverter 2,5 kW for variation of feed speed from 5 to 20 m/min in continuous;
- pressure unit for longitudinal units with rubber covered rollers spring-loaded;
- brush units of two types (see following examples);

In rear of machines we can insert another cleaning brush and / or rotary blowers.

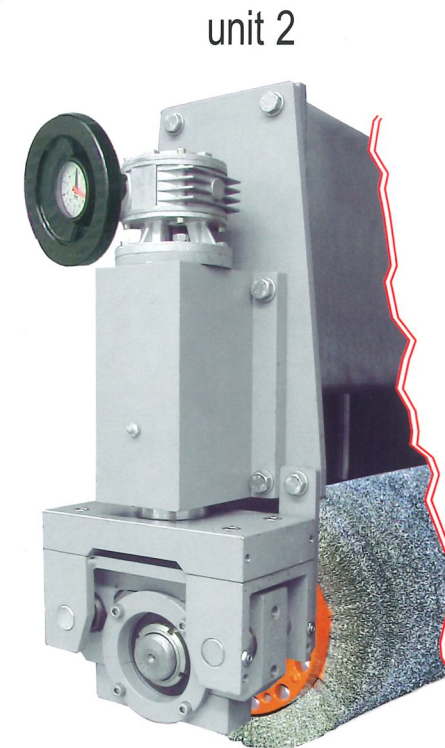


unit 1

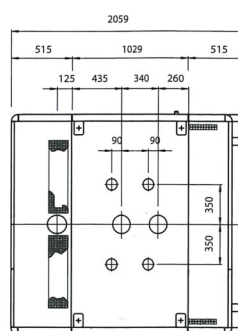
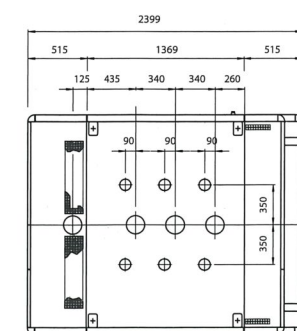
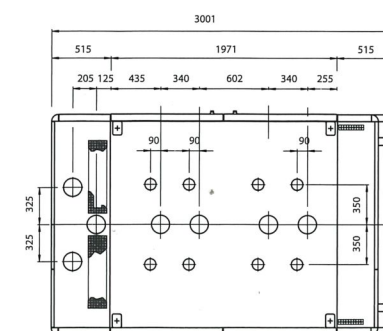
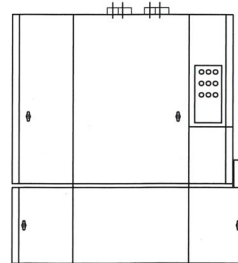
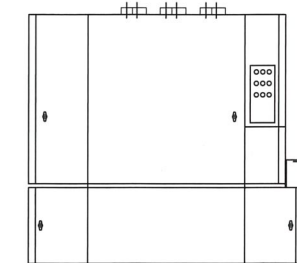
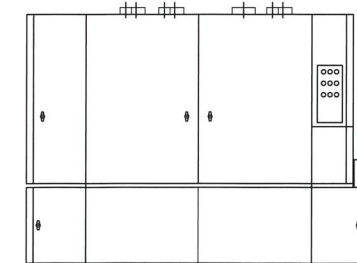
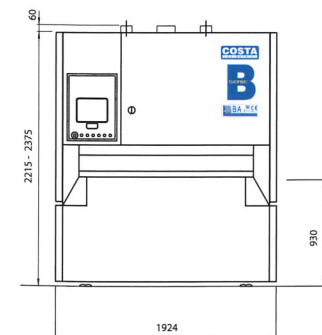
In Series BA-R the brush units have a diameter of 250 mm in steel, and are equipped with one speed motors from 4 kW (unit 1) with inversion of rotation and related dust hoods.

To improve both the structuring depth and the feed speed we can insert more powerful brush units 5,5 - 7,5 - 11 - 15 kW (unit 2)

In the brush unit, in addition to the steel brushes or inox at different density, we can insert anderlon or tynex brushes, and/or finishing brushes with softer material to eliminate fuzz prior to staining.



unit 2



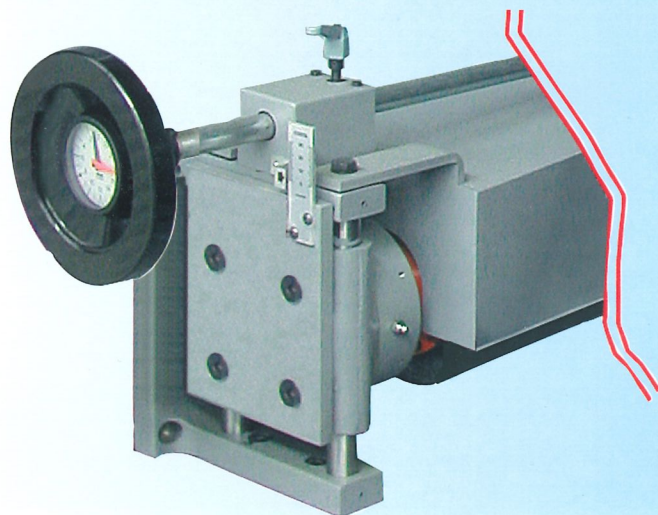
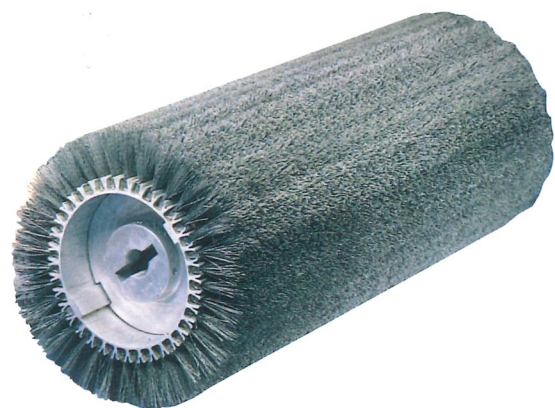
S180

Nylon + Natural fiber

High density nylon brush, horse hair, vegetal fiber, animal bristles.

Applications

Surface cleaning.



ST2



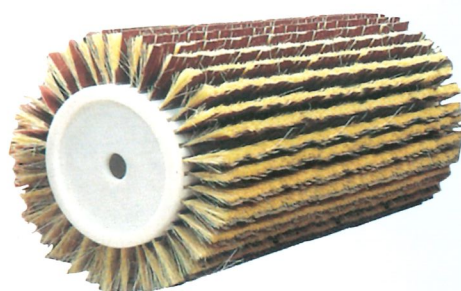
Tynex (TM) - Anderlon (TM)

Brush with silicon carbide impregnated nylon bristles. Available in variable grit (46÷500).

Applications

Grain highlighting of wood surfaces.

FTR-2



Flex trim (TM)

Wide range of flex trim (TM) brushes with abrasive paper strips and vegetal fiber flexible support brushes. Quick substitution with the patented "snap lock" system.

Applications

Multi purpose applications like denibbing, sharp edges rounding, surfaces finishing, etc..

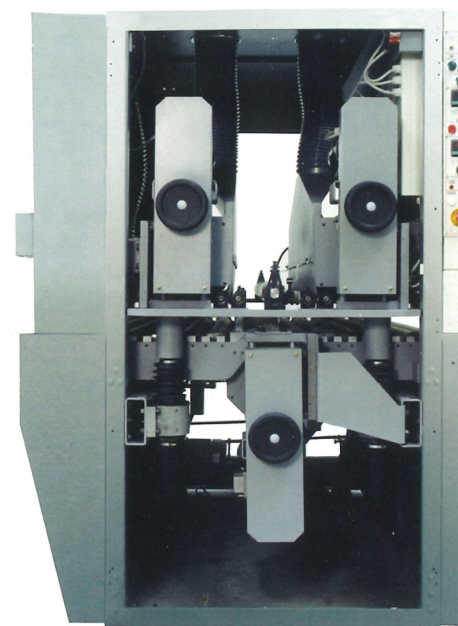
SB2

Scotch-brite (TM)

Structure of non-woven synthetic fibres impregnated with abrasive grain of aluminium oxide or silicon carbide. Available in variable grit (80÷1000) and various density.

Applications

Surface preparation before coating/painting, denibbing on wood and MDF, surface finishing.



Brush-cleaning unit with only top or with bottom + top units, to insert in finishing lines at constant working height, with driven rollers drive system; the brushes are particularly flexible with very long helicoidal bristles, rotating opposite one another. They are equipped with a thickness opening system, adjustable from their own control panel or from the line control system. Standard equipped with:

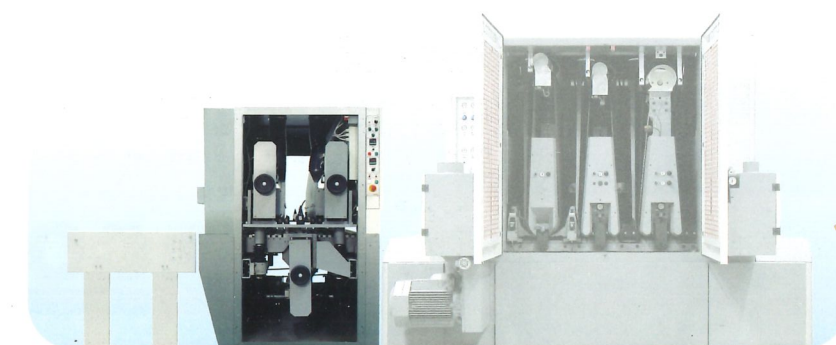
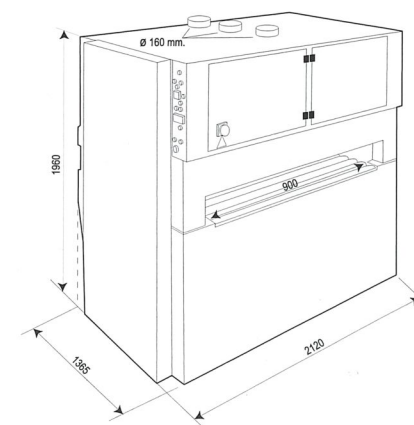
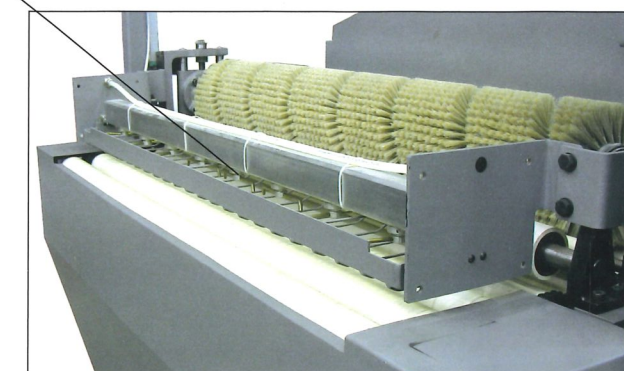
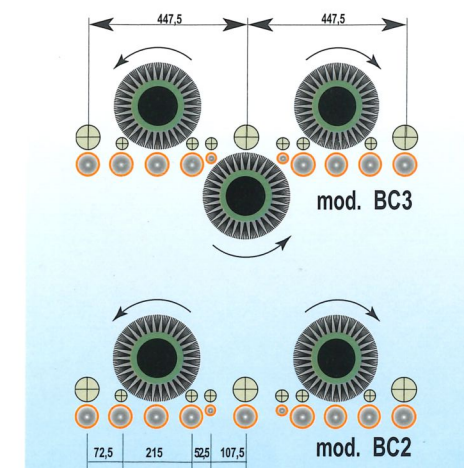
Model BC3

- 1 Bottom brush Ø 250 mm, motor 1,1 kW
- 2 Top brush Ø 250 mm, motor 1,1 kW (each)

Model BC2

- 2 Top brushes Ø 250 mm, motor 1,1 kW (each)

Optional : antistatic or de-jonizing bars - rotary air jet blowers in machine rear



The other lines in our range of products:



Universal Sanding-Calibrating Machines

A
SERIE



Sanding machines

S
SERIE



Sanding-Calibrating Machines

- Top Machines
- Bottom Machines
- Top+Bottom Machines

K
SERIE



We reserve the right to change features without any notice

 **COSTA**
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