



Flexible Solutions for Calibrating & Finish Sanding



wood

SK

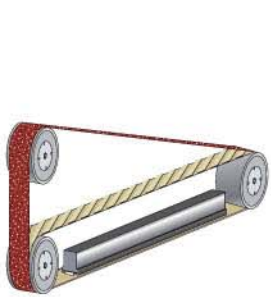
EN



Constant pass-line, width 1350

Main working units

The SK machine with 2 heads can be equipped with anyone of these main working units inside the frame, plus an external cleaning unit



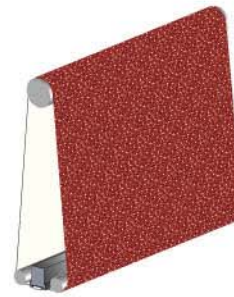
Cross belt (X)



Cylinder (C)



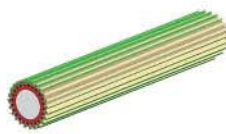
Combi (U)



Pad (T)



Superfinish (Tsf)



Brush (G)

Scotch Brite™ - Steel - Anderlon - Tynex - with abrasive inserts



Vertical oscillating brushes (V)

External working units



Rotary blowers (JR)



Brush Ø 140mm (S14)

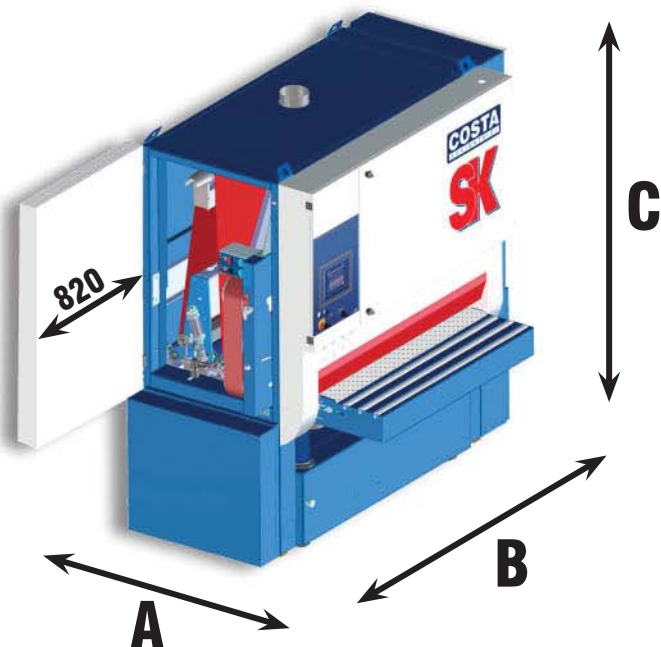


Brush Ø 180mm (S18)



Extractable brush Ø 180mm (SE18)

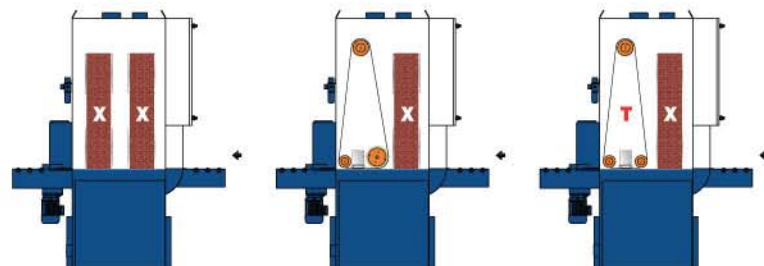
With the addition (optional) of a rear feed table, we can add up to 2 brush units Ø 180mm, and/or rotary blowers.



Dimensions

	A [mm]	B [mm]	C [mm]
Standard version	1864	2020	2305÷2455
Cross belt version	1864	2405	2305÷2455
Table addition version	2214	---	2305÷2455

Some possible Combination of working units foreseen for the SK with



with 2 main working units

Longitudinal
Sanding
belt length

2620 mm

Cross belt
length

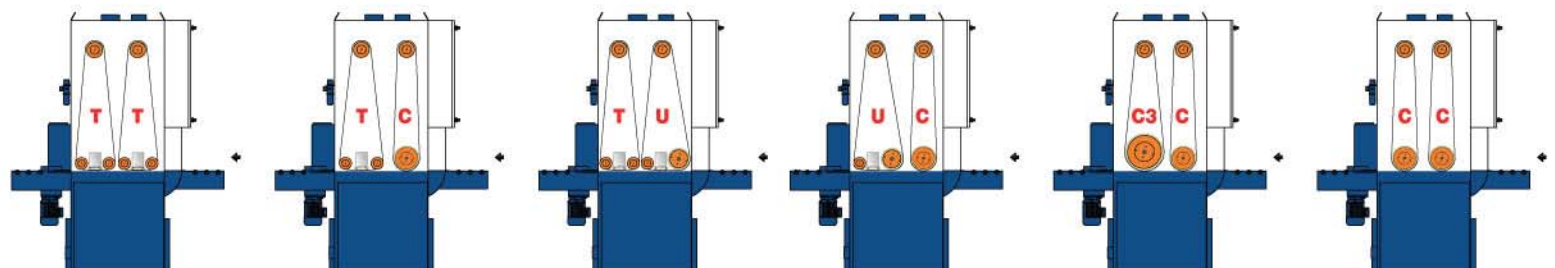
5100 mm

Constant
pass-line

920 mm

model **SK X U**

2 heads

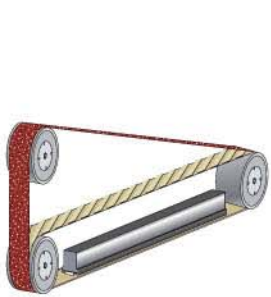




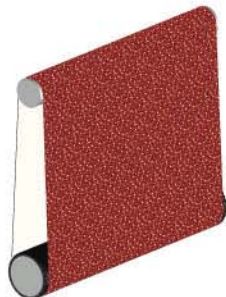
Constant pass-line, width 1350

Main working units

The SK machine with 3 heads can be equipped with anyone of these main working units inside the frame, plus an external cleaning unit



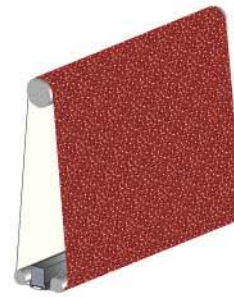
Cross belt (X)



Cylinder (C)



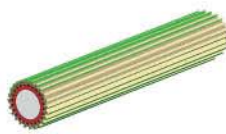
Combi (U)



Pad (T)



Superfinish (Tsf)



Brush (G)

Scotch Brite™ - Steel - Anderlon - Tynex - with abrasive inserts



Vertical oscillating brushes (V)

External working units



Rotary blowers (JR)



Brush Ø 140mm (S14)

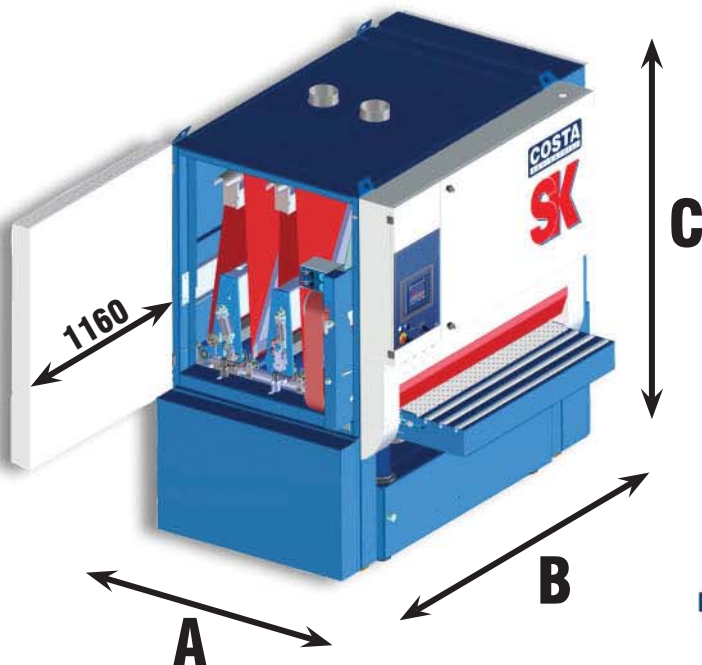


Brush Ø 180mm (S18)



Extractable brush Ø 180mm (SE18)

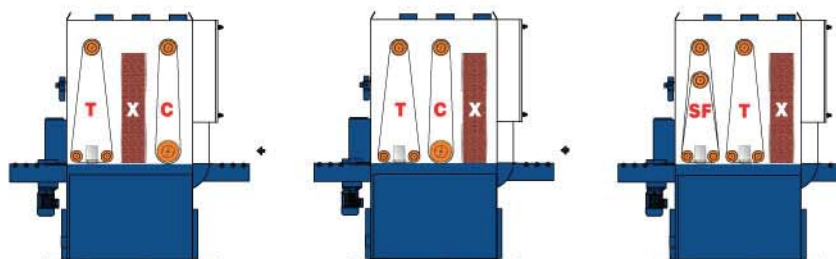
With the addition (optional) of a rear feed table, we can add up to 2 brush units Ø 180mm, and/or rotary blowers.



Dimensions

	A [mm]	B [mm]	C [mm]
Standard version	2204	2020	2305÷2455
Cross belt version	2204	2405	2305÷2455
Table addition version	2555	---	2305÷2455

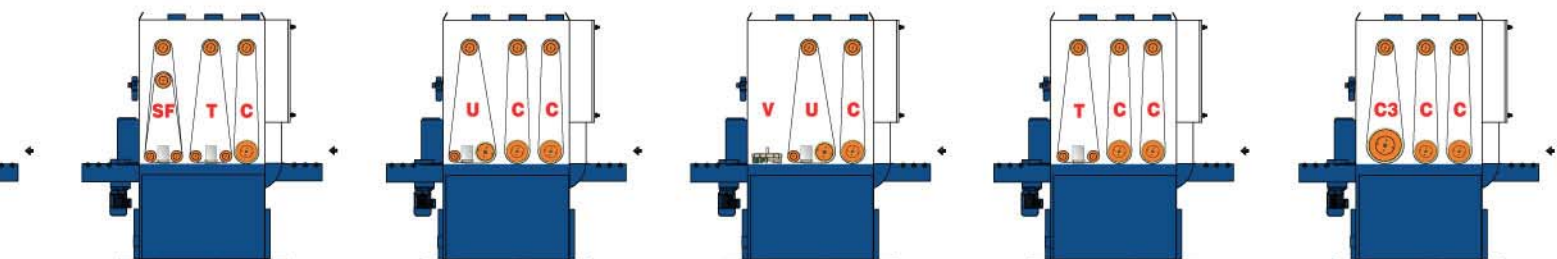
Some possible Combination of working units foreseen for the SK with



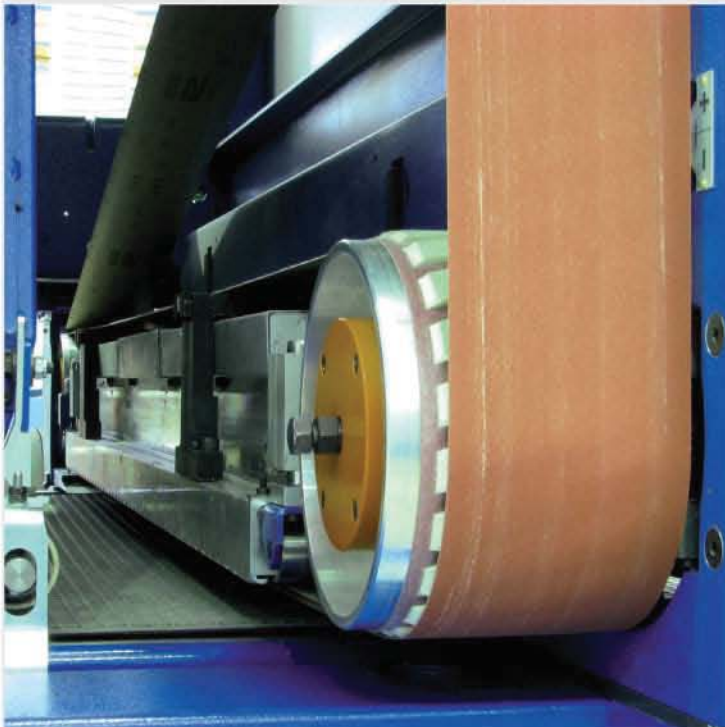
with 3 main working units



3 heads



CROSS BELT (X)



with **sectioned pad** unit with electronic control of time entry of contact elements.

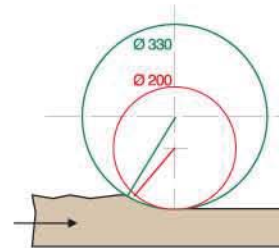
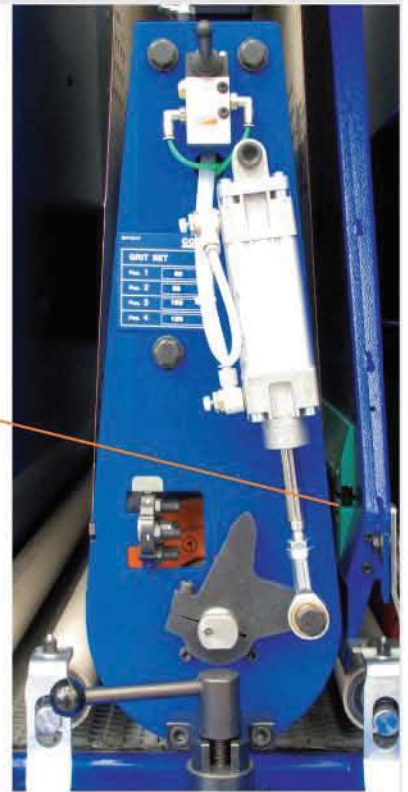
Xi sanding belt length 5100 x 120 mm width

Complete with lamellar felt belt - length 4540 x 120 mm

CYLINDER (C20 - C33)

completed with a four position **grit-set**, to compensate the thickness variation of the different abrasives belt grits. Quick exclusion of the cylinder unit in emergency.

Oscillating **air jet blowers** (optional) for sanding belt cleaning. The air jet blowers are recommended in conjunction with fine belt grits or with resinous woods, to prevent clogging (of belts) with dust.



For calibrating a smaller diameter cylinder is more aggressive, the angle of contact is more open, the surface of contact is narrower, this means less friction and more take away.

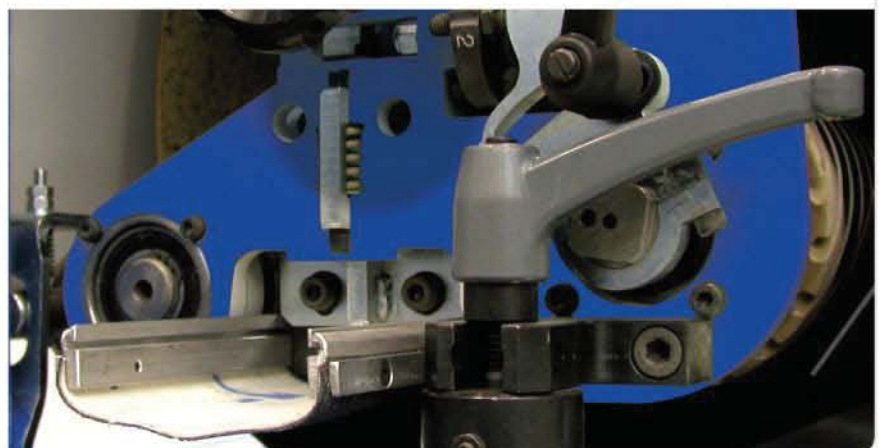
COMBI (cylinder + pad) (U)



Multifunctional unit to calibrate and fine-sand with the utilization of one or the other of the two units (or both at same time)

- Cilinder rubber covered Ø 120 mm, with pneumatic control of the positioning system in-out.
- T1 pneumatic pad unit (standard), or electronic controlled sectioned pad (optional)

View of the extractable frame for quick change of felt and graphite cloth of the pad.

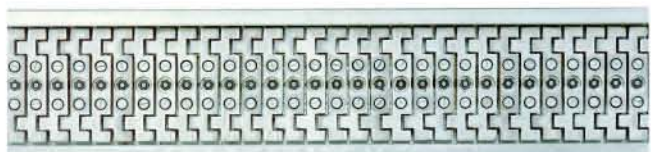


ELECTRONIC CONTROLLED SECTIONED PAD (CA16 - CA32)

The sectioned pads are recommended for simultaneous processing on multiple work-pieces, or on shaped panels to obtain high sanding accuracy on the edges, or to follow with constant pressure uneven surfaces; an in-feed sensing system detects the dimension and shape of the work-pieces; a number of contact actuators work independently on the panels, each controlled by the electronic logic to determine the timing for the correct position of contact of each individual segment and to set the proper pressure according to the requirement of the program.



DB - Definition Barrier
to detect size and form of panels
to process with sectioned pads



CA 16 - contact actuators
pitch of 16 mm between sections



CA 32 - contact actuators
pitch of 32 mm between sections



SUPERFINISH PAD UNIT (Tsf) (applicable only in last position)

The "superfinishing" process assures a very homogeneous surface finish, especially with very fine grit belts (that tend to clog quickly).

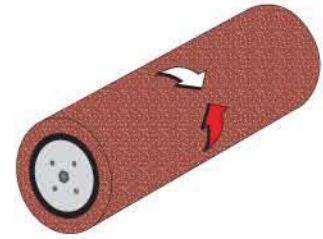
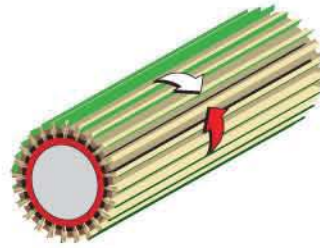
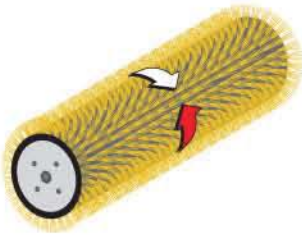
A very important unit for the staining-lacquering process, thank to the homogeneous sanding, eliminating all variation of finish quality (thus equalizing the absorption of stain-lacquers on the sanded surfaces with superfinish).

The lamellar felt belt has a length of 2120 mm and gives further advantages:

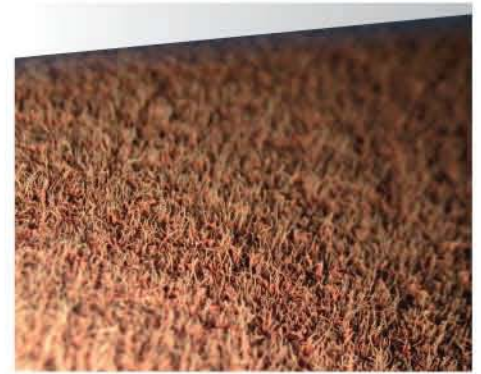
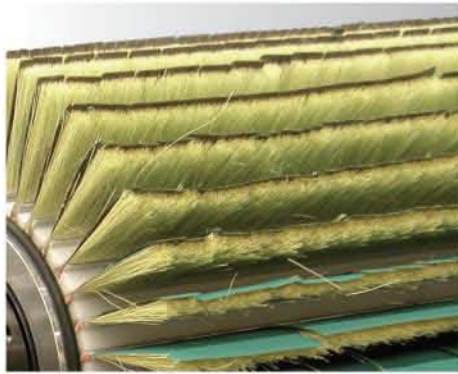
- the air flow between the felt stripes of the lamellar belt cools the abrasive belt;
- it is possible to utilise pads wider than normal;
- utilizing lamellar belts with different ratio full/empty of the lamellas, it is possible to diversify the finishing of the surface;
- thank to the independency of the tensioning and tracking systems, in case of necessity we can take out the lamellar belt and work with the sanding belt only.



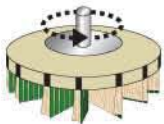
LONGITUDINAL BRUSHES (G)



Longitudinal brush unit Ø 180 mm with manual height adjustment and mechanical thickness read-out. Our brushes are available in various materials: steel, stainless steel, scotch brite, with interchangeable inserts and many others.



VERTICAL OSCILLATING BRUSHES (V)



Brush unit with vertical inserts quickly interchangeable to vary grit and rigidity.

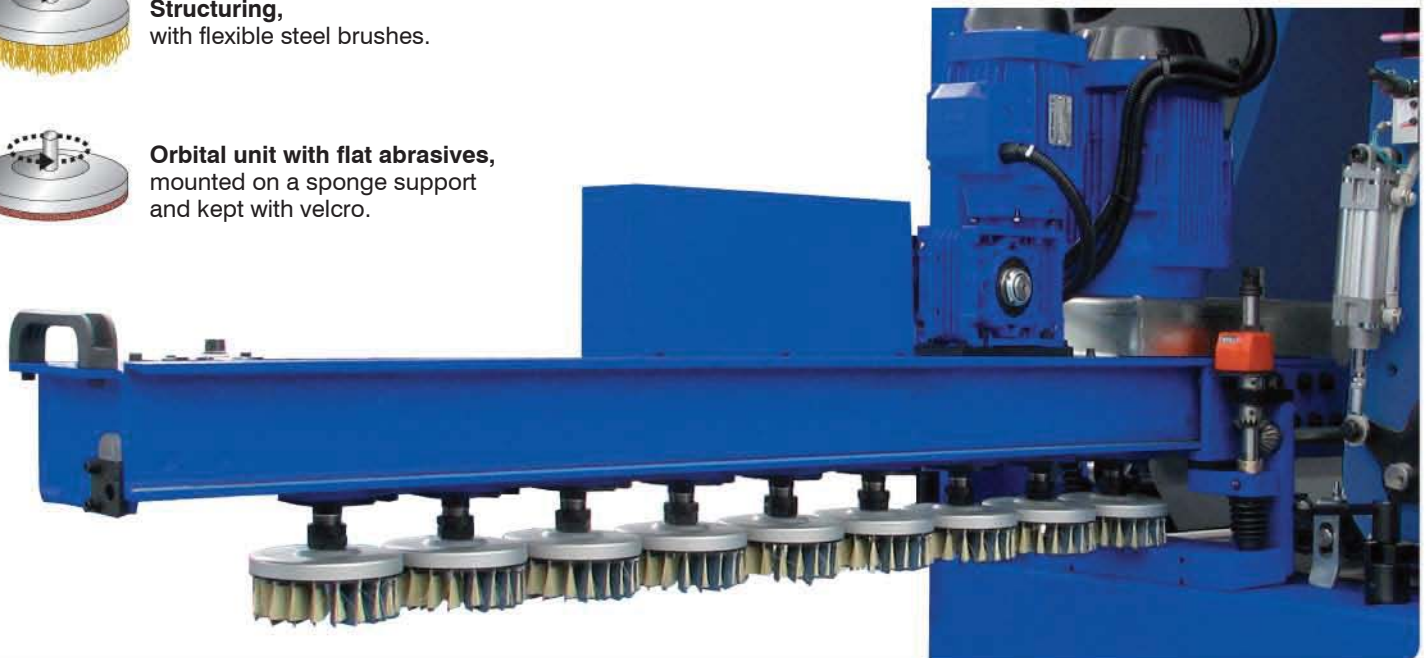


Structuring, with flexible steel brushes.



Orbital unit with flat abrasives, mounted on a sponge support and kept with velcro.

- standard with cross oscillation (adjustable in frequency) equipped with interchangeable brush-sanding elements.
- completely extractable, for quick and easy change of the brush tools (quick-lock system for rapid change of tools).
- with readily available, low-cost, brushes as well as more specific brush tools with different materials and diameters for special utilization.

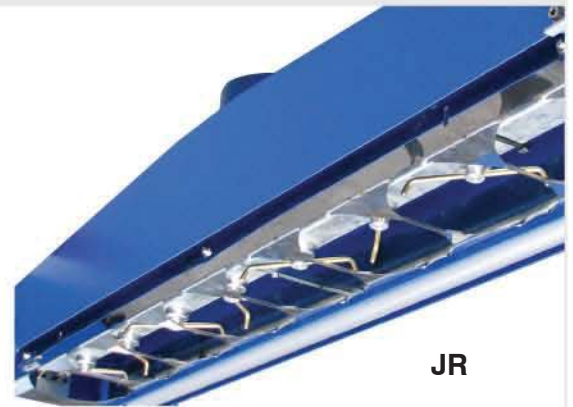
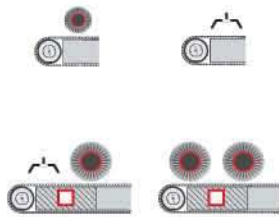


PANEL CLEANING UNITS (optional)

Are positioned in the rear side of the machine, normally we can insert:
1 unit S14 (brush Ø 140 mm) or
1 JR unit (rotary cleaning blowers).

With the option "rear feed table addition" we can add up-to 2 of the following units:

- Ø 180 Brush;
- Ø 180 Scotch-brite™ unit;
- Ø 180 Extractable brush SE18 unit;
- Rotary cleaning blowers.

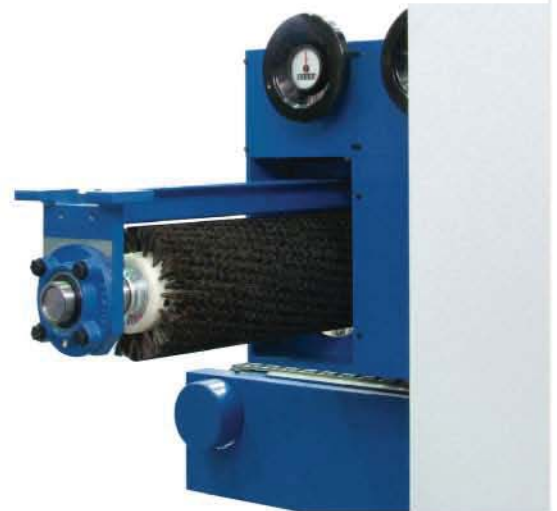


JR

SE18 Interchangeable Brush Unit Ø 180 mm

The brushes can be:

- vegetal fibers for the dust removal;
- scotch-brite™ for finishing on veneer and lacquers;
- with interchangeable inserts for the elimination of wood fibres;
- steel or tydex for structuring.



Electric plant certified CE, made with high quality components of primary Brands, with coded connections, general schemes in instruction book or in CD.

Electronic frequency converter to make possible the easy variation of the sanding belts cutting speed from 1 to 16 or 20 m/s, where the low cutting speed is needed for fine sanding or low take away, and the high cutting speed is required for high take away.



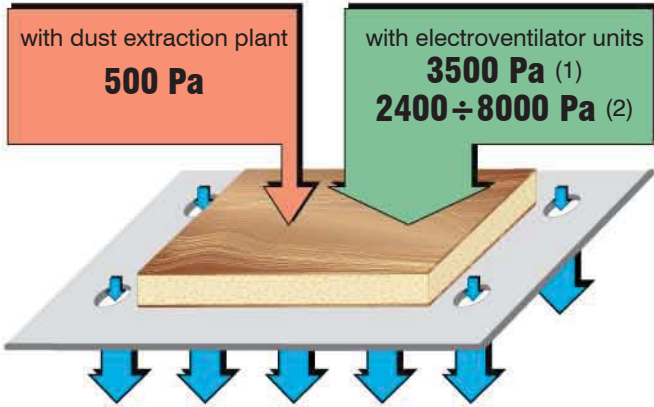
The PLC panel VISION enable the visualization in a colour touch-screen monitor of the actual setup data and operation of the machine, and to store many complete working programmes.



Push-buttons control panel (optional) with leds to signal eventual emergencies. This panel is reducing the machine price, and is mainly utilized in machines equipped only with cylinder units.

VACUUM HOLD PLANT (standard from dust system - optional with electroventilator)

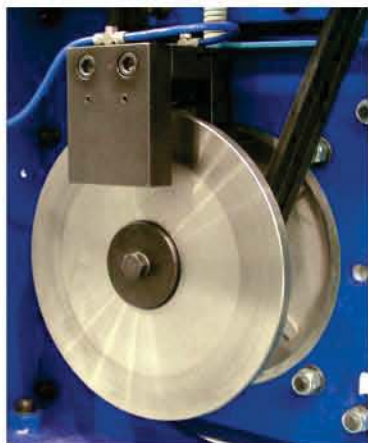
Vacuum hold system from dust extraction plant (providing to have a good air speed).
Help improving holding of small and/or slippery work-pieces to the feed belt.



Electroventilator unit 3 kW (optional - 1) to obtain a much tighter hold of work-pieces on the feed belt.
Possible an even higher pull with 5,5 kW electroventilator with inverter (optional - 2) for very small work-pieces.




Feed table extensions are supplied standard and are positioned in front and rear of the machine to easy the handling of work-pieces



All motors of the working units are complete with their disk brakes, capable to stop the machine in a few second in case of emergency




Location - Italy - Veneto



Airports
 Venezia: 90 Km - 1h drive
 Treviso: 75 Km - 1,5 h drive
 Verona: 65 Km - 45 min drive
 Bologna: 160 Km - 2h drive

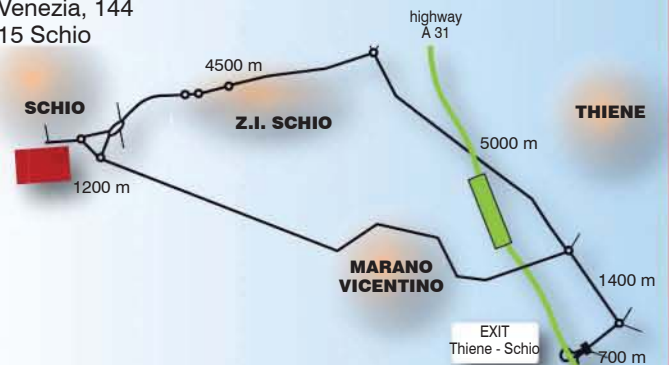
Train Station
 Vicenza: 30 km - 30 min drive

Car Directions
 To the Factories in Sandrigo
 Highway A31 - Exit Dueville - 3,5 km
 To the Main Office in Schio
 Highway A31 - Exit Thiene-Schio - 13 Km



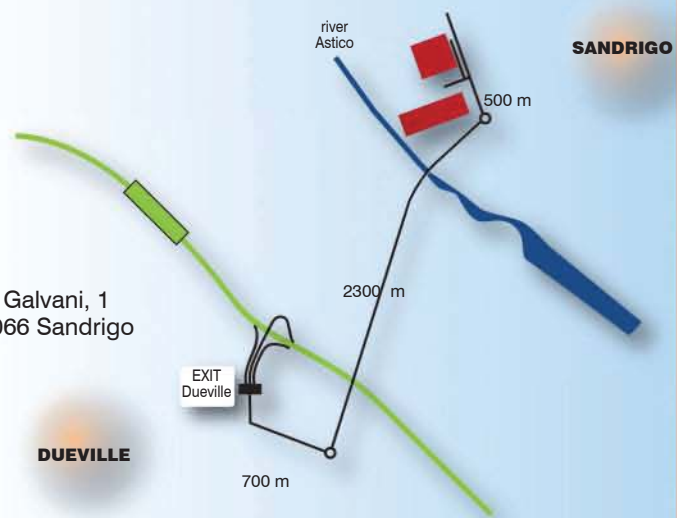

Headquarter of Schio

Via Venezia, 144
 36015 Schio



Factory of Sandrigo 2

Via G.Galilei, 5
 36066 Sandrigo



Factory of Sandrigo 3

Via Galvani, 1
 36066 Sandrigo

We reserve the right to change features without any notice



Costa Levigatrici S.p.A.
 Via Venezia, 144 - 36015 Schio (VI) Italy
 Tel. (+39)0445-675000 - Fax (+39)0445-675110
 www.costalev.com - info@costalev.com