



Sanding-Finishing Machine centres & Lines

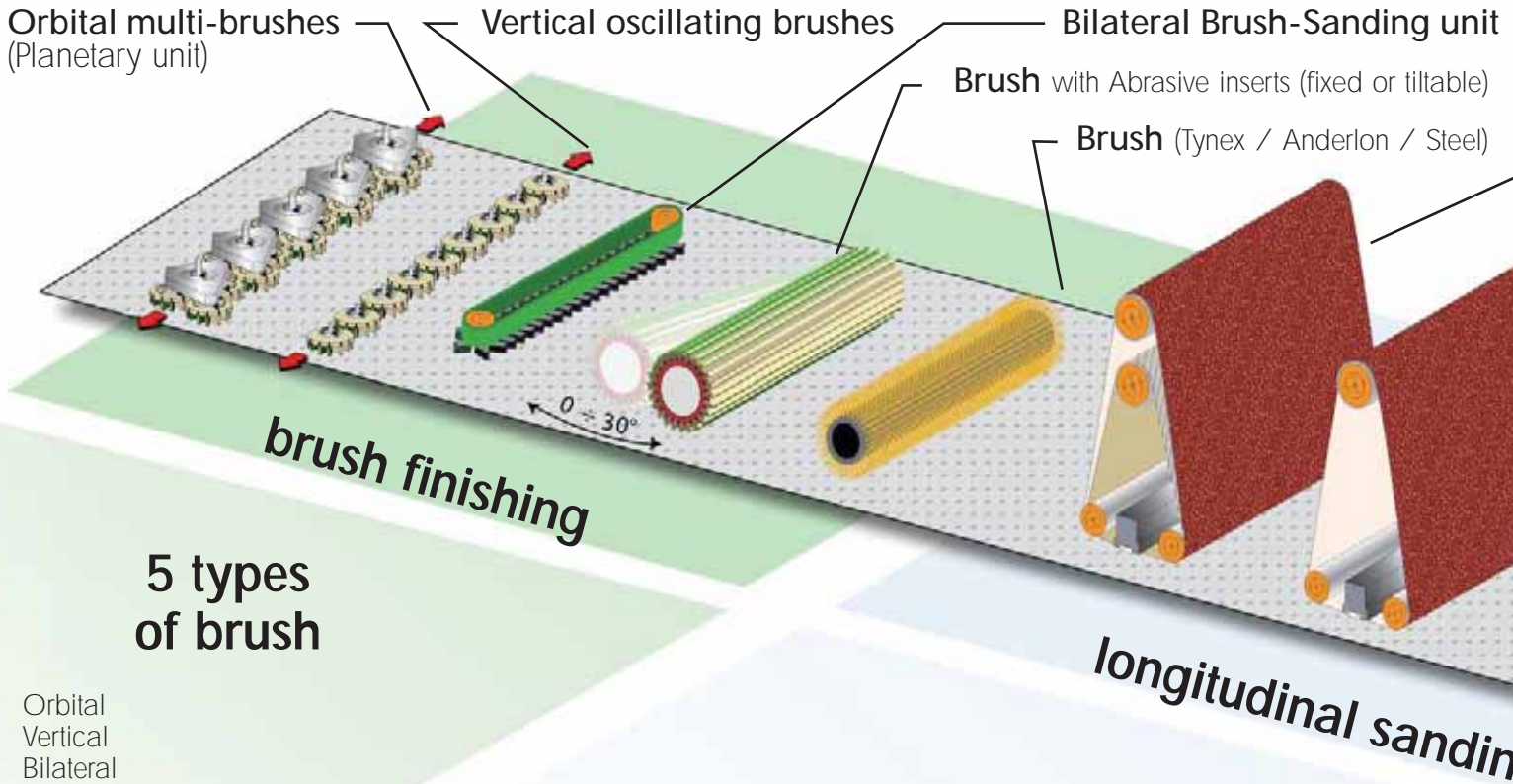


WOOD

S

EN

Available Working Units

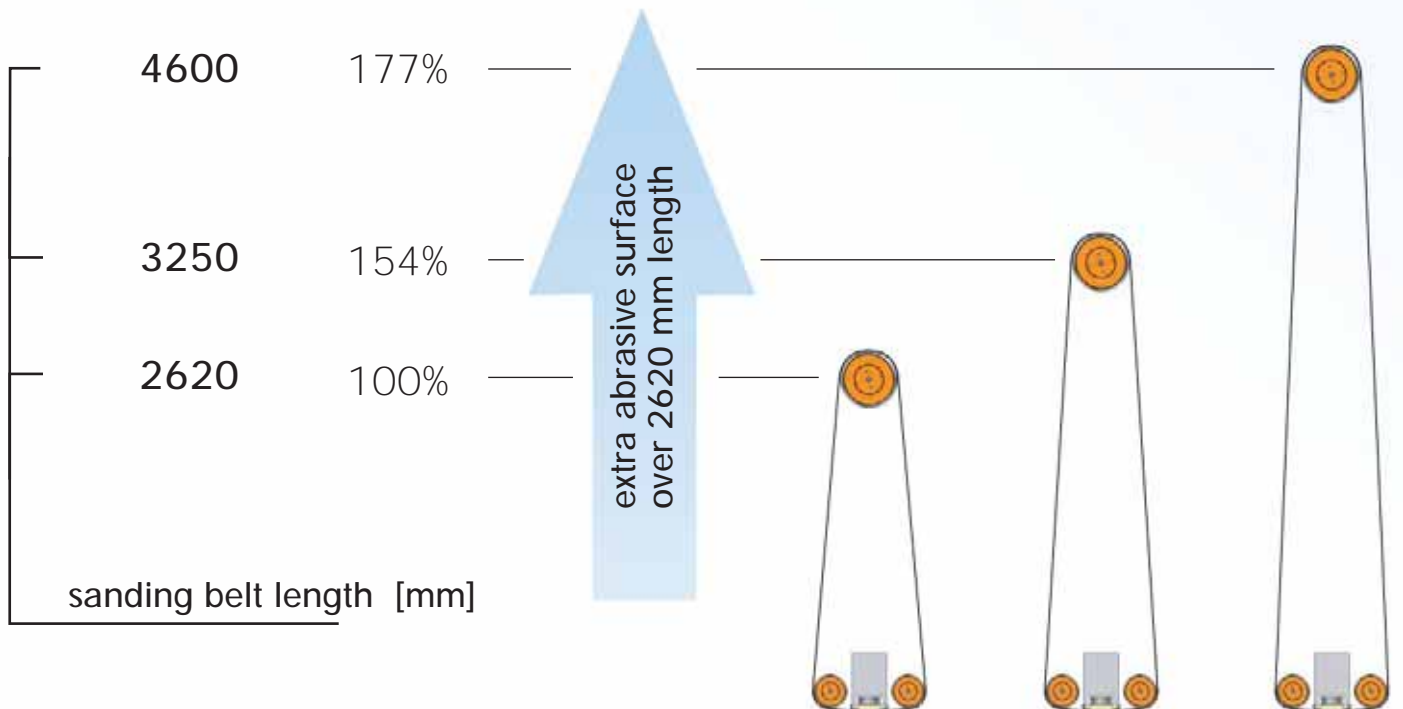


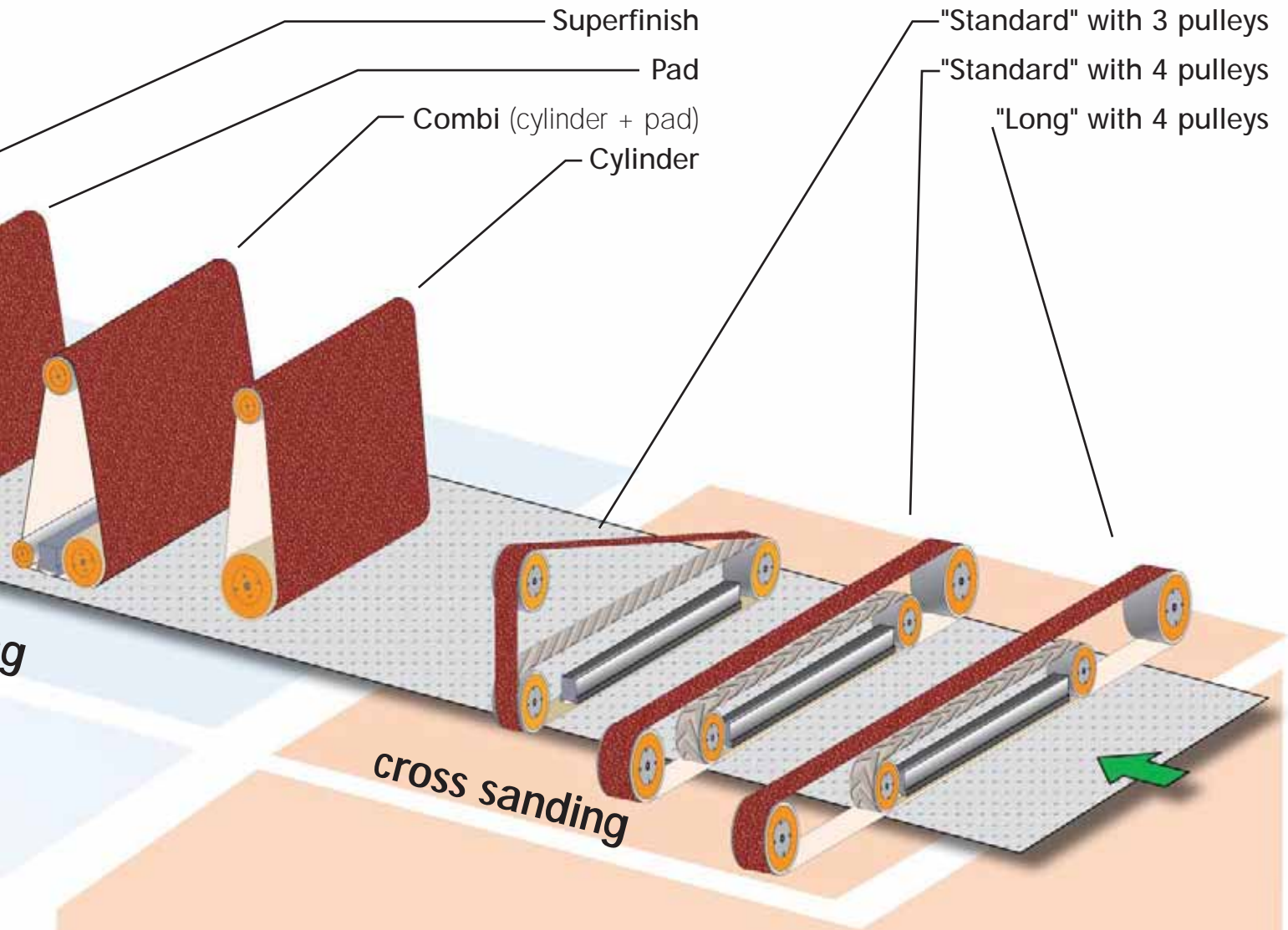
5 types of brush

- Orbital
- Vertical
- Bilateral
- Longitudinal for structuring
- Longitudinal for finishing

4 modes of process with 3 lengths of longitudinal belt

- Cylinder
- Combi (cylinder + pad)
- Sectioned pad
- Superfinish unit





2 modes of process with 3 lengths of cross belt

sanding belt length [mm]

lamellar bel length [mm]

5450

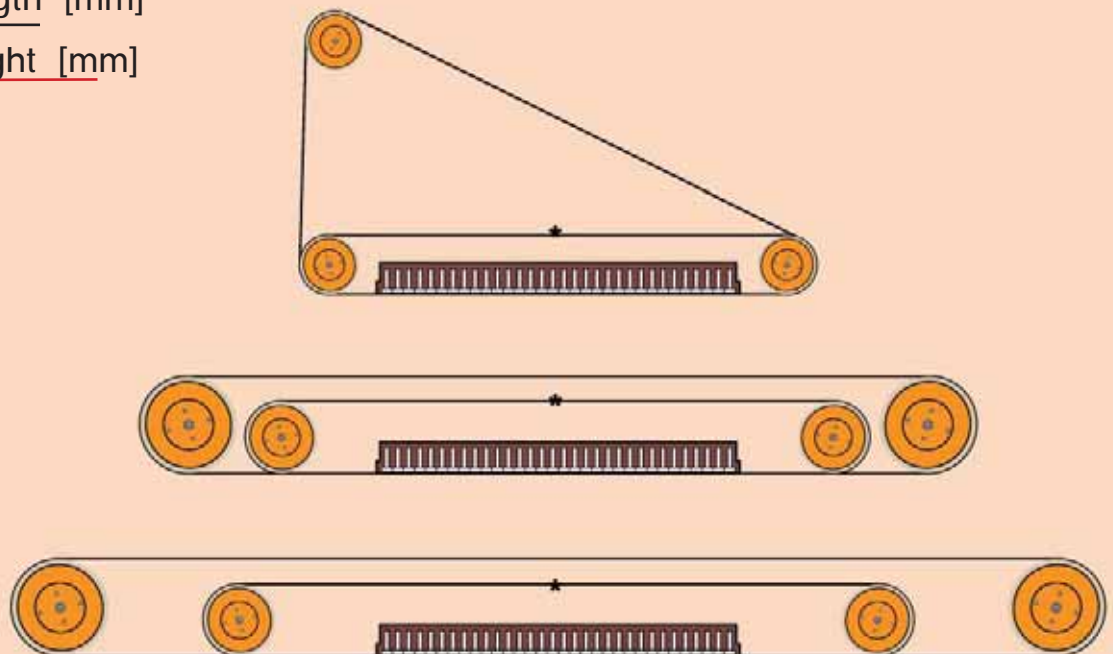
4500

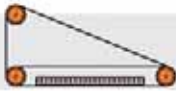


7350

5510

9500

6200



	sanding belt length [mm]	lamellar belt length [mm]	resolution width [mm]
Xi "Standard" with 3 pulleys 	5450 x 150	4500 x 150	8 / 10 / 16 / 32
X7 "Standard" with 4 pulleys 	7350 x 150	5510 x 150	8 / 10 / 16 / 32
X9 "Long" with 4 pulleys 	9500 x 150	6200 x 150	8 / 10 / 16 / 32



X7 / X9 Lamellar belt (chevron belt) is running at different speed than abrasive belt to improve the quality of surface finish.



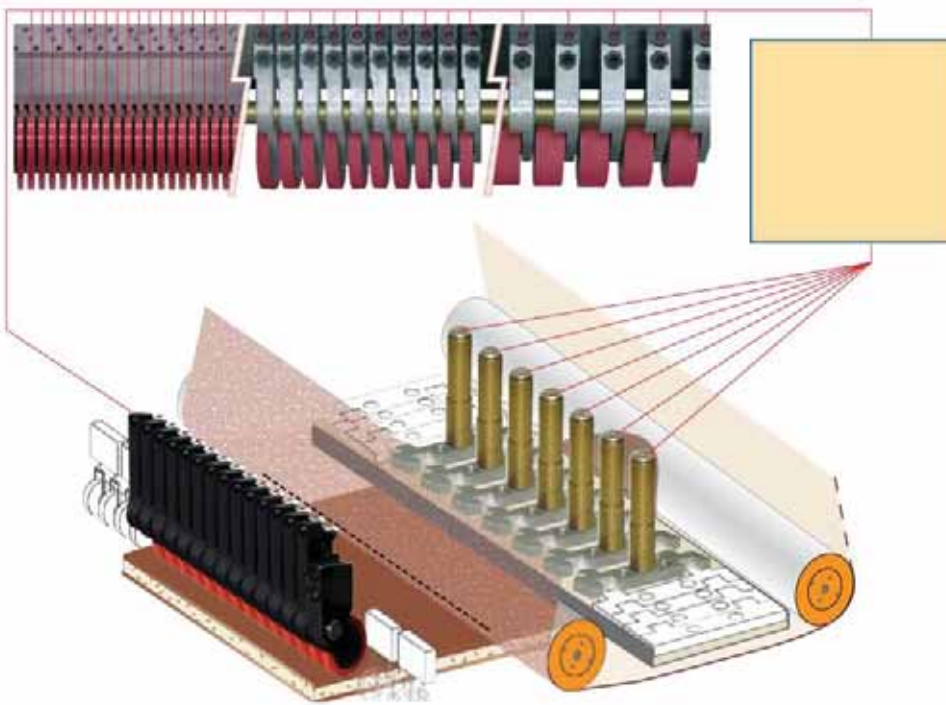
Xi Lamellar belt is running at same speed as the abrasive belt.

View of the standard air jet blowers positioned right beside the dust-hood intake of the cross belt unit (X7).
A lamellar jet blower is available (optional), as well as a double set of blowers (one in each side of the cross belt unit).

Dust hood in opposite side of internal cross belt unit (Xi),turnable 90° to easy the change of sanding belt.



		resolution width [mm]	sanding belt length [mm]
T1	Pneumatic pad	---	2620 / 3250 / 4600
CA16	Electronic sectioned pad (constant pressure)	8 / 10 / 16 / 32	2620 / 3250 / 4600
CA32	Electronic sectioned pad (constant pressure)	8 / 10 / 16 / 32	2620 / 3250 / 4600
VA16	Electronic sectioned pad (variable pressure)	8 / 10 / 16 / 32	2620 / 3250 / 4600
VA32	Electronic sectioned pad (variable pressure)	8 / 10 / 16 / 32	2620 / 3250 / 4600
Tsf	Superfinishing unit	8 / 10 / 16 / 32	2620 / 3250 / 4600



Tsf - The "superfinishing" process assures a very homogeneous surface finish, especially with very fine grit belts that tend to clog quickly. A feature very important for the staining-lacquering process, thank to the highly homogeneous sanding, that is eliminating all variation of finish quality (thus equalizing the absorption of stain-lacquers on the sanded surfaces).

		diameter [mm]	hardness [Sh]	sanding belt length [mm]
C25	Calibrating cylinder (steel or rubber covered)	250	20 ÷ 90	2620 / 3250
C33	Sanding cylinder (rubber covered)	330	20 ÷ 90	2620 / 3250
C40	Sanding cylinder (steel or rubber covered)	400	20 ÷ 90	2620 / 3250 / 4600

Electronic Grit-Set (optional)

Centesimal positioning of the working level of the cylinder unit.
Exclusion of cylinder in emergency (stand-by) standard.

Pneumatic Grit-Set

It is utilized to position by pre-set steps the working level of the cylinder unit.
Exclusion of cylinder in emergency (stand-by) standard.

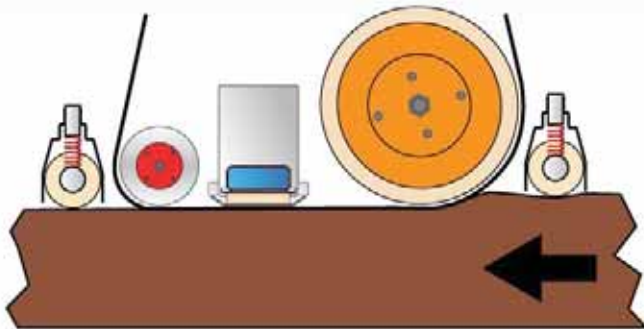


	diameter [mm]	sanding belt length [mm]
UCK	200	2620
UTK	120	2620

UCK - combi unit cylinder + pad

It is a multifunctional unit to calibrate and to fine-sand with the utilization of one or the other of the two units (or both at same time), with possible up to 30 kW motors.

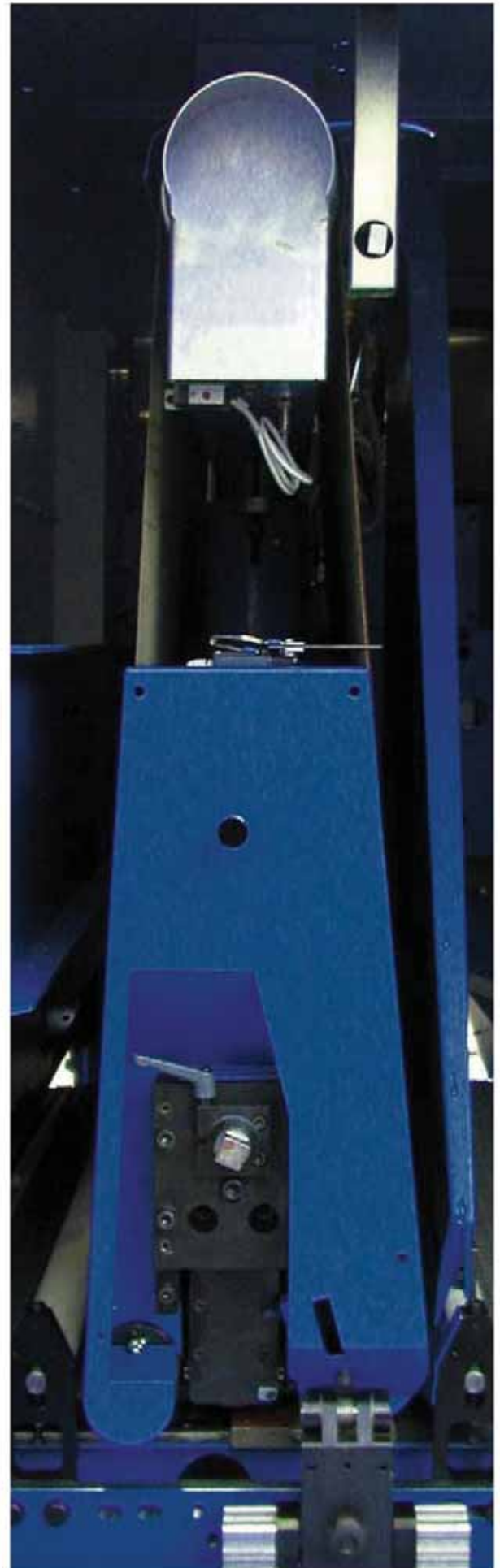
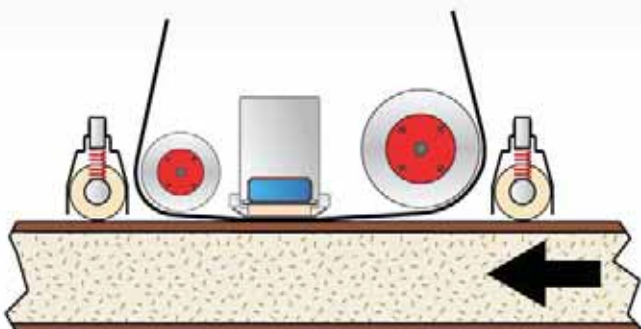
- Cilinder rubber covered Ø 200 mm, with a fine positioning system, with electronic grit-set (optional) or with pneumatic control in-out (standard)
- T1 pneumatic pad unit (standard)
- CA32 with pitch of sections 32 mm (optional)
- CA16 with pitch of sections 16 mm (optional)



UTK - combi unit cylinder + pad

It is a unit to fine-sand with the possibility of light calibrating operations

- Cylinder steel Ø 120 mm, with pneumatic positioning system IN-OUT
- T1 pneumatic pad unit (standard)
- CA32 with pitch of sections 32 mm (optional)
- CA16 with pitch of sections 16 mm (optional)



Brush Finishing units

longitudinal units

G

Brush (Tynex / Anderlon / Steel)
diameter: 250 [mm]



L

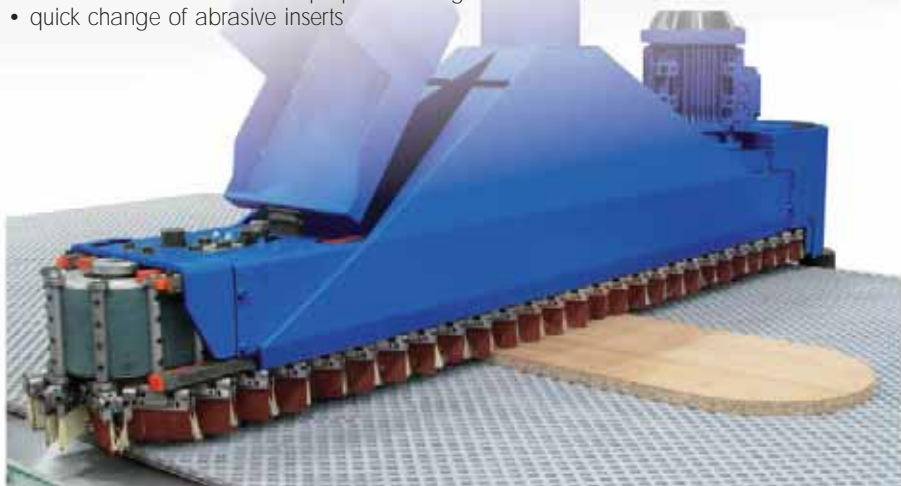
Bilateral Brush-Sanding unit

L - is our 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.

L is equipped with:

- micrometrical setting of the working pre-load;
- motor controlled by inverter for variation of brushing speed range from 1 to 8 m/s;
- two dust hood collectors for proper cleaning of elements;
- quick change of abrasive inserts



R

Orbital mu

The working unit R is completely extractable and requires standard brushes, that have a length of 250 mm. This working unit can be inserted inside the machine depending on the feed speed required. The orbital brushes rotate on their axis and brush all the working surface, increasing the brushing improves by three times. To consider also the overall dimensions of the pieces between the front and rear pressure rollers.



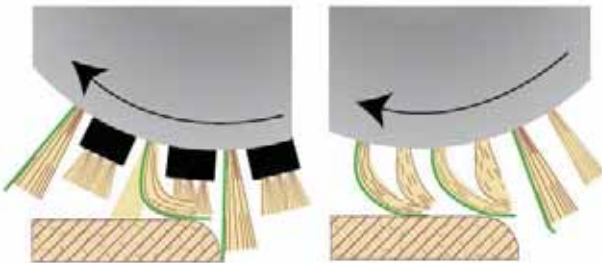
cross units

F

Brush with Abrasive inserts (fixed or tiltable)
diameter: 250 - 330 - 400 [mm]

The increasing utilization of water-soluble lacquers leads to the problem of raised wood fibres. Our brushes with interchangeable inserts (of various types and brands) are an industrial solution to the effective elimination of fuzz and raised fiber before and during the finishing problem.

This wide adaptability is given by the possibility of inserting sanding strips with different abrasive paper grit-hardness - A - in the same roller (ex. 120 + 220 + 260), with the ability to change the back supports - B - also with different flexibility to increase or lower the brushing action on the work pieces.



Multi-brushes (Planetary unit)

able, easy to maintain and to change the brushes; low buying cost, or specific for special operations. In the structure, the number of working units varying. At the same time they rotate in number of three, covering up to 3 times the brushing effect. Also the corner of the unit that allows the passage of short workpieces. The distance between the rollers is only 385 mm.



V

Vertical oscillating brushes

Vertical brushes with cross oscillation (adjustable in frequency) equipped with interchangeable brush-sanding elements.

The V unit is completely extractable, for quick and easy change of the brush tools (quick-lock system for rapid change of tools). The V utilizes readily available, low-cost, brushes as well as more specific brush tools with different materials and diameters for special utilization. These units can be assembled in any position inside our machines-frames, in variable number, depending on the required feed speed.



Panel cleaning units

SE

Extractable brushes
diameter: 180 - 250 [mm]

SE18 - SE25 unit can be equipped with motors from: 1,5 - 2,2 - 4 - 5,5 kW, that can be fitted with inverters for rotational speed variation.

The brushes can be:

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



Z1 Z2

Single & Double
Antistatic bars

Antistatic bars help lowering the static electricity from the panels.



JR JRO

The rotary blowers are helping to remove fine dust from the surface of the panels.

The new version of rotary blower system are fitted with nozzles that can blow away dust from inside the holes of the panels.



Rotary blowers
Rotary blowers
with lateral oscillation

ng to blow away the very
well as from the sides of

owers with lateral oscil-
jet blowers with special
y more effectively the dust
panels.



**J⁴⁰
EL**

Electronic controlled blo-
wers with 40 sections

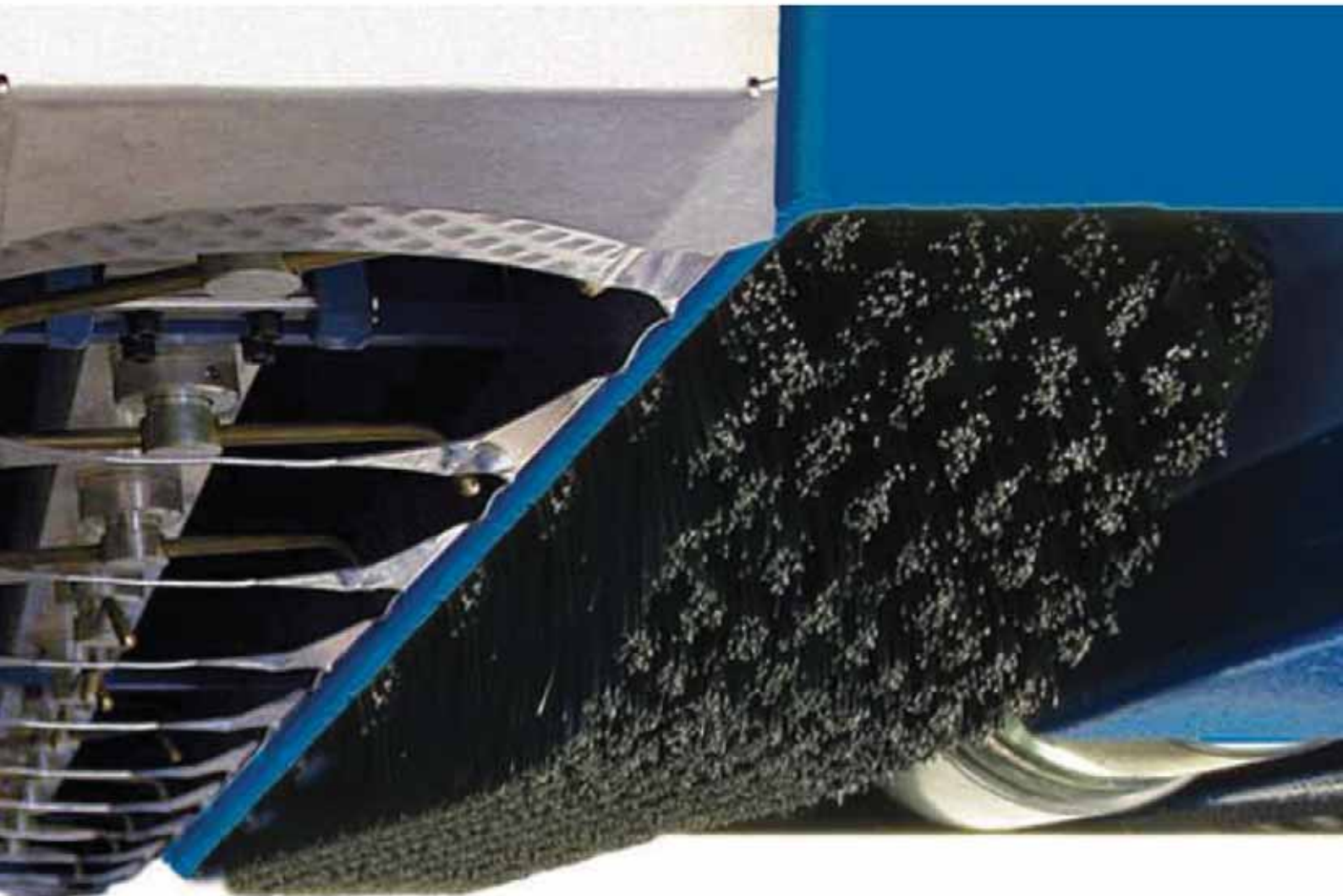
Special high-pressure jet blowers with electronic control
for the activation of the nozzles only in corresponden-
ce of the holes.



Sx

Ultra-fine antistatic
cleaning brush

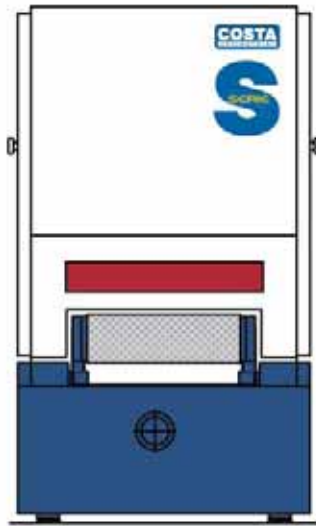
Brush complete with integrated micro-moistening,
self-cleaning mechanism (compressed air nozzles, roto-
rack), motor with inverter



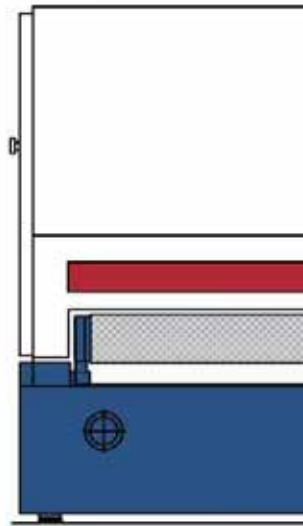
Main Technical Features

working widths

"Narrow machines"
from 350 to 1150 [mm]



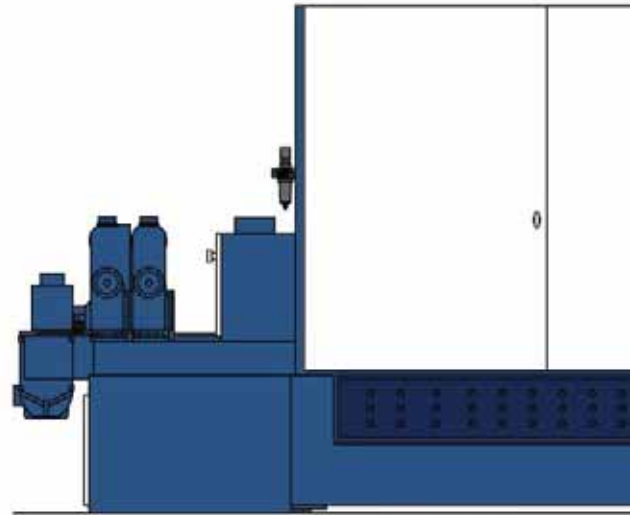
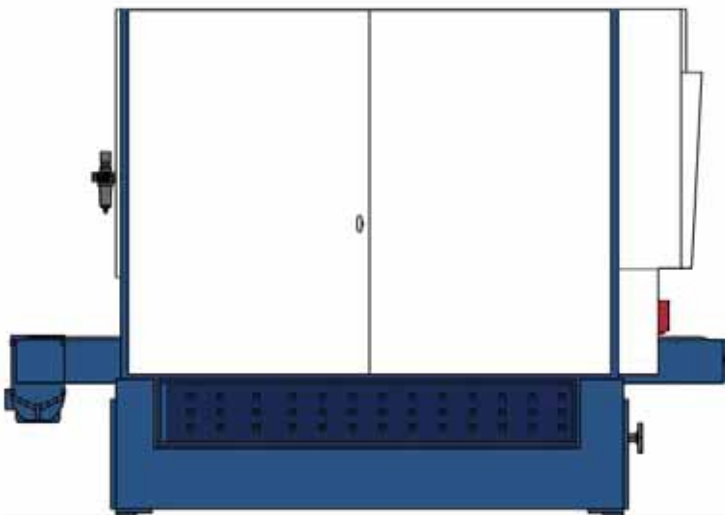
"Standard"
1350 / 1



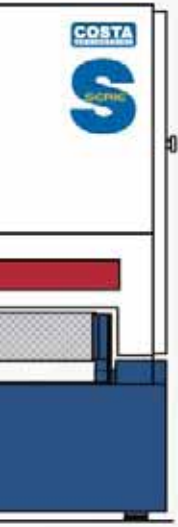
up to 6 working units inside the frame
(& up to 3 cleaning units in rear side)

6 internal + 2 external
(& up to 3 cleaning units in rear side)

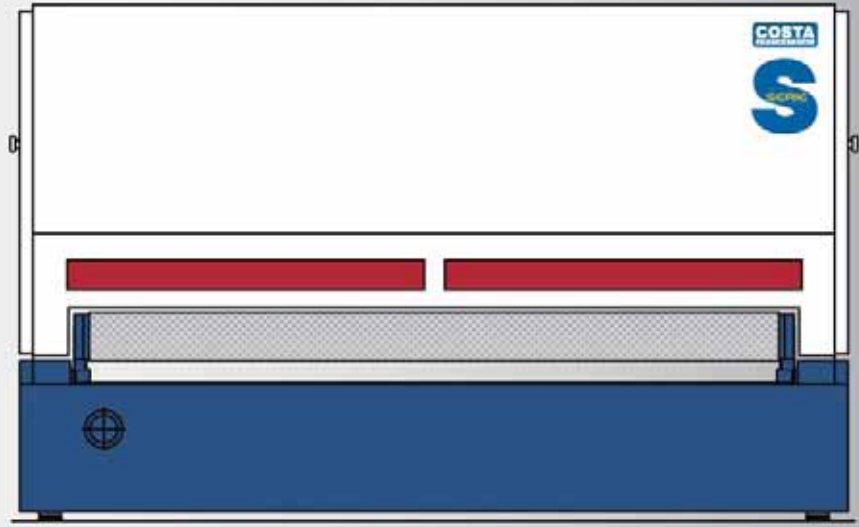
working units



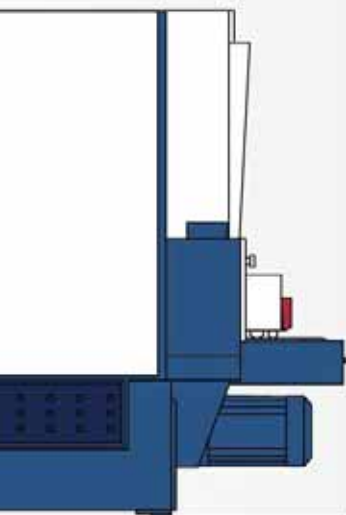
machines"
650 [mm]



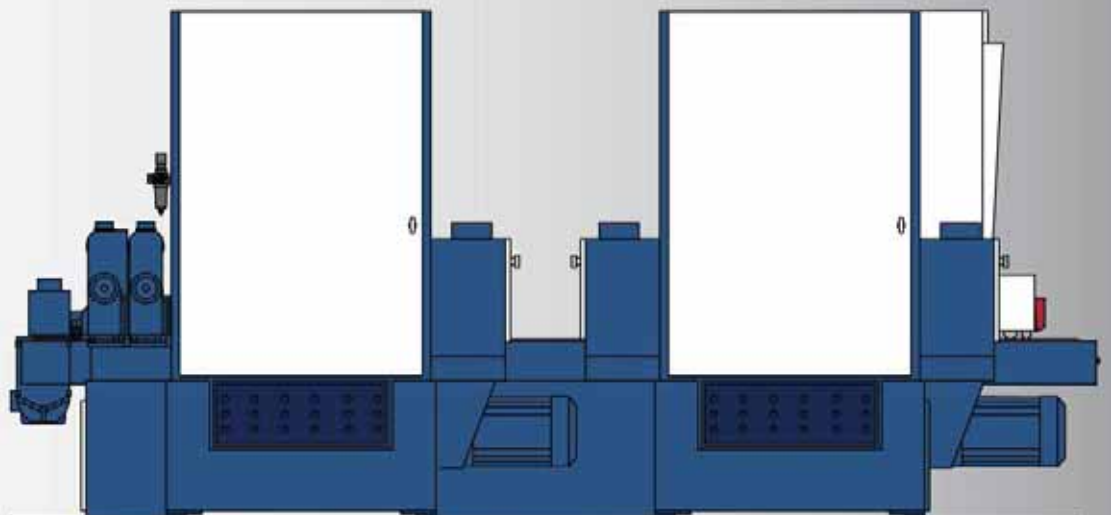
"Wide machines"
from 1900 to 3300 [mm]



nal working units
units in rear side)



multiple/frames combination
(& up to 3 cleaning units in rear side)



Automatic Multifunction Working Centres - 3250 / 4600 mm o

White-wood / lacquer sanding machine equipped with:
1 cross-belt unit , 2 cylinder units , 1 edge-easing unit, 1 finishing brush with interchangeable inserts, 1 sectioned pad with super-finish unit, a final cross-belt unit, and is completed with panel cleaning brush, antistatic bar and rotary blowers.



White-wood / lacquer sanding machine equipped with:
1 cross-belt unit , 2 edge-easing units, 2 sectioned pads the second with super-finish unit, 1 cross-belt, and is completed with brush and scotch-brites™ + rotary blowers for panel cleaning



White-wood / lacquer sanding machine equipped with:

1 cross-belt unit , 1 brush with interchangeable abrasive inserts, 1 edge-easing unit, 1 cylinder, 2 sectioned pads the second with super-finish unit, 1 cross-belt unit, completed with panel cleaning brush, 1 scotch-brite™ and rotary blowers.



White-wood / lacquer sanding machine equipped with:

1 cross-belt unit , 1 cylinder and 1 sectioned pad with super-finish unit, 2 edge-easing units , 1 brush with interchangeable abrasive inserts, 2 cross-belt units, completed with rotary blowers.



Automatic Multifunction Working Centres - 2620 / 3250 mm o

White-wood / lacquer sanding machine equipped with:

1 cylinder unit, 1 cross-belt unit, 2 sectioned pads, 1 cross-belt unit, 2 brush units, and is completed with panel cleaning brush and rotary blowers.



White-wood / lacquer sanding machine equipped with:

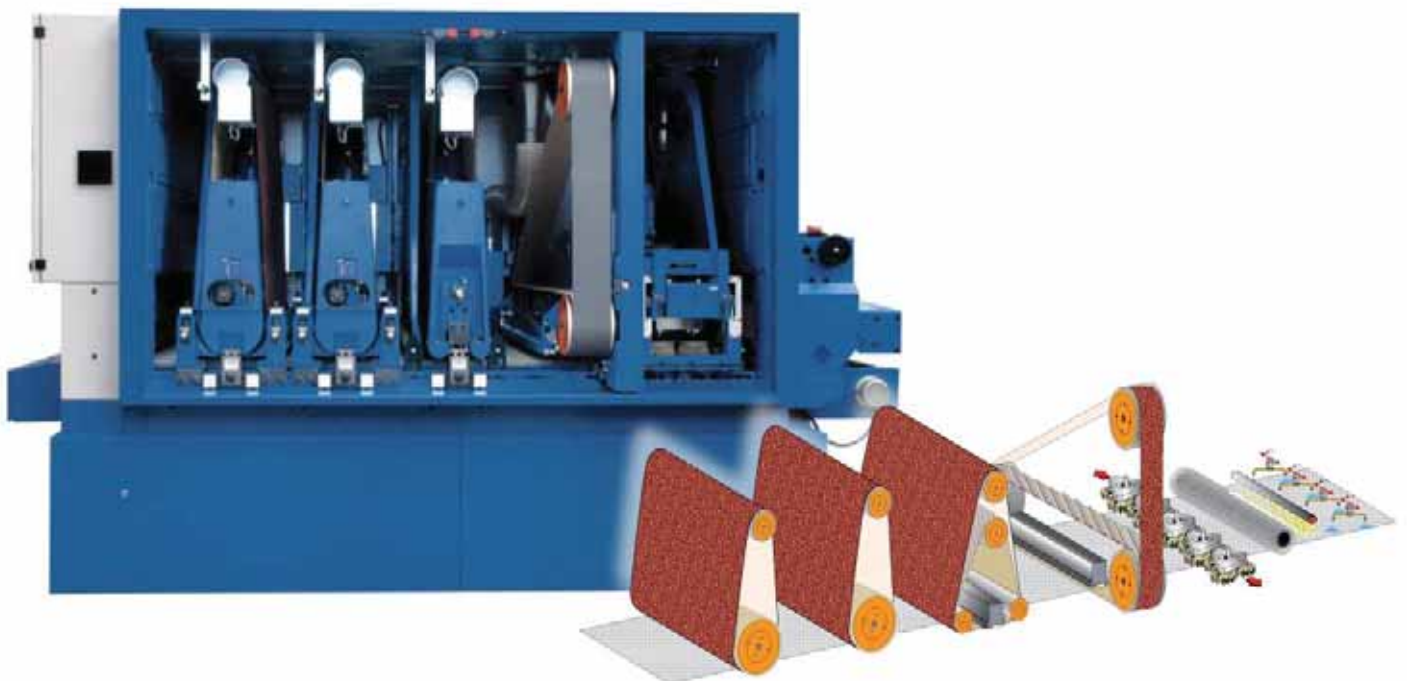
1 cylinder unit, 2 sectioned pads the second with super-finish unit, 3 brush units the third with abrasive inserts, 1 cross-belt unit, and is completed with panel cleaning brush and rotary blowers.



White-wood / lacquer sanding machine equipped with:
1 cross-belt unit , 1 cylinder and 1 sectioned pad with super-finish unit , 2 edge-easing units , 1 brush with interchangeable abrasive inserts, 2 cross-belt units , completed with rotary blowers.

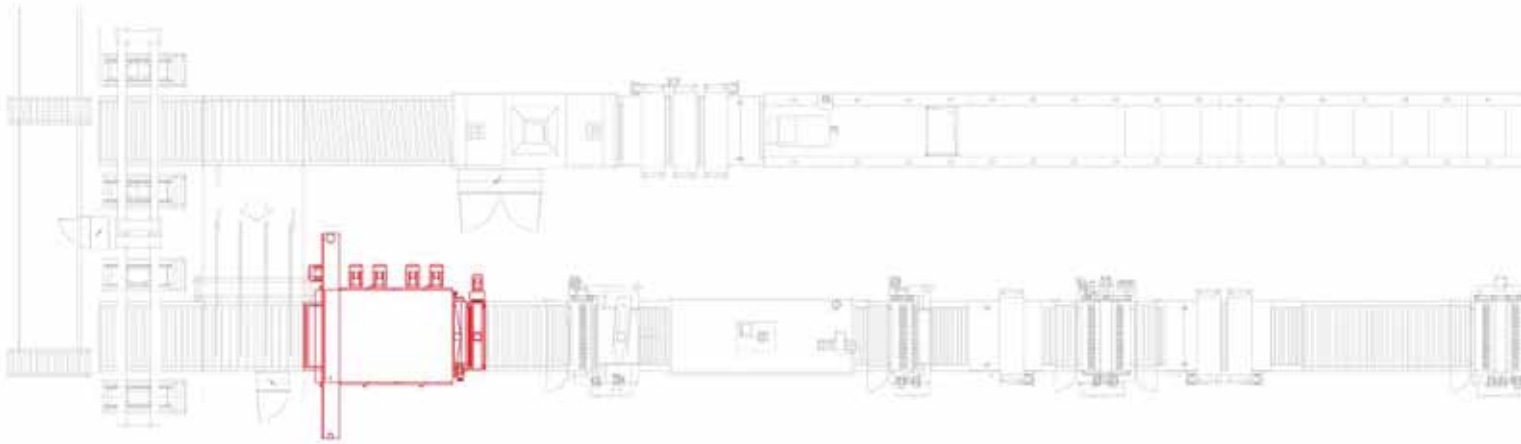


White-wood / lacquer sanding machine equipped with:
2 cylinder units, 1 sectioned pad, 1 cross-belt unit, 1 orbital multi-brushes unit, and it is completed with panel cleaning brush, antistatic bar and rotary blowers.

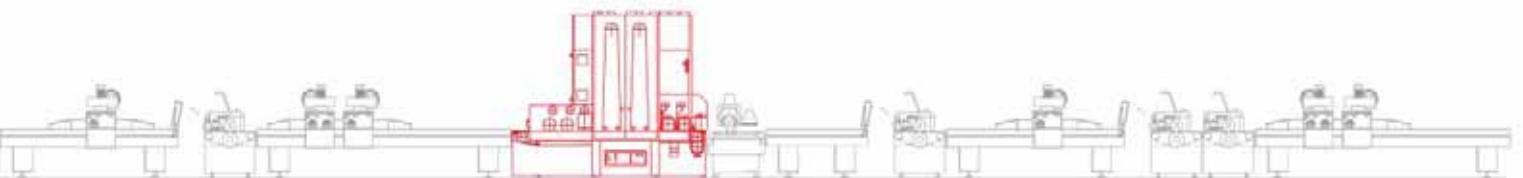
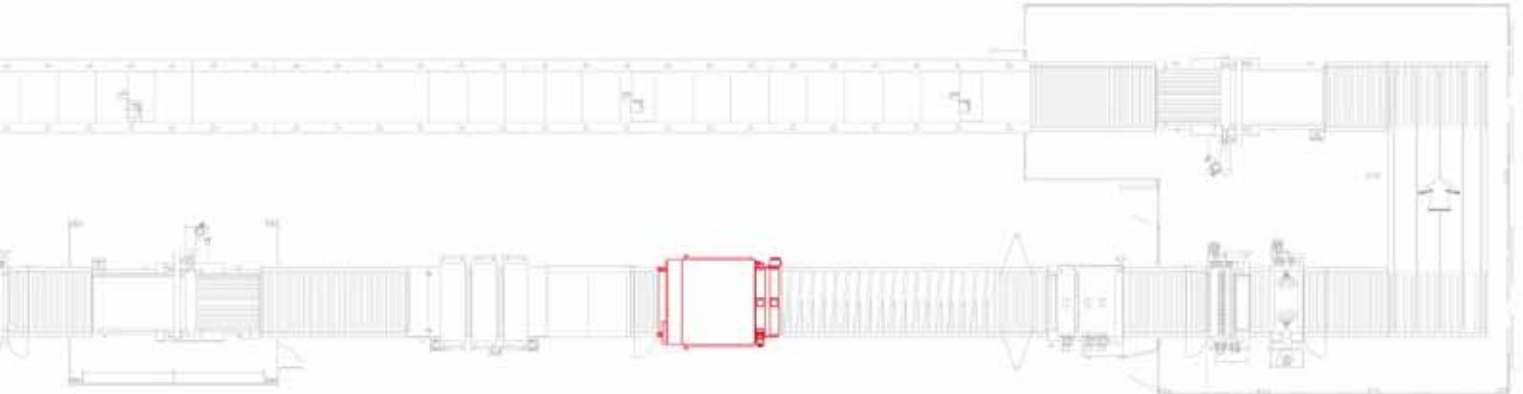


COMPLETE PROCESSING LINES - Finishing Sanding Machines


Our high speed finishing sanding machines are particularly fitted to be included in complete finishing line thanks to the very long sanding belts (up to 460m). The length of the sanding belts is resulting in longer lasting time and higher productivity due to the lower requirement of belt change (and line stops) especially



0 [mm] longitudinal and from 7350 to 9600 [mm] or more for the cross belts).
ally in high feed speed lines.



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

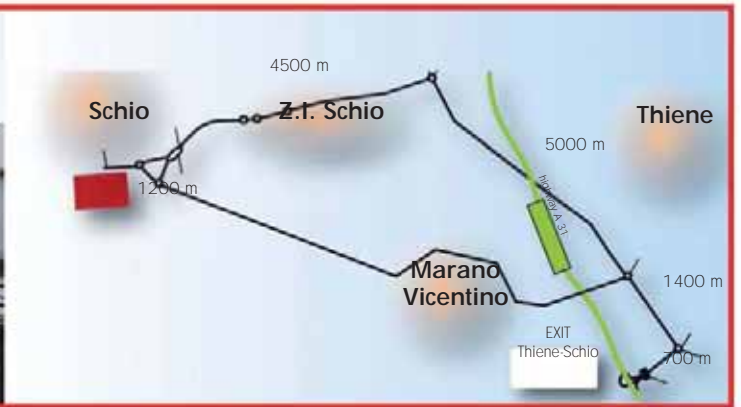
Car Directions

To the Factories in Sandrigo
 Highway A31 - Exit Dueville - 3,5 km

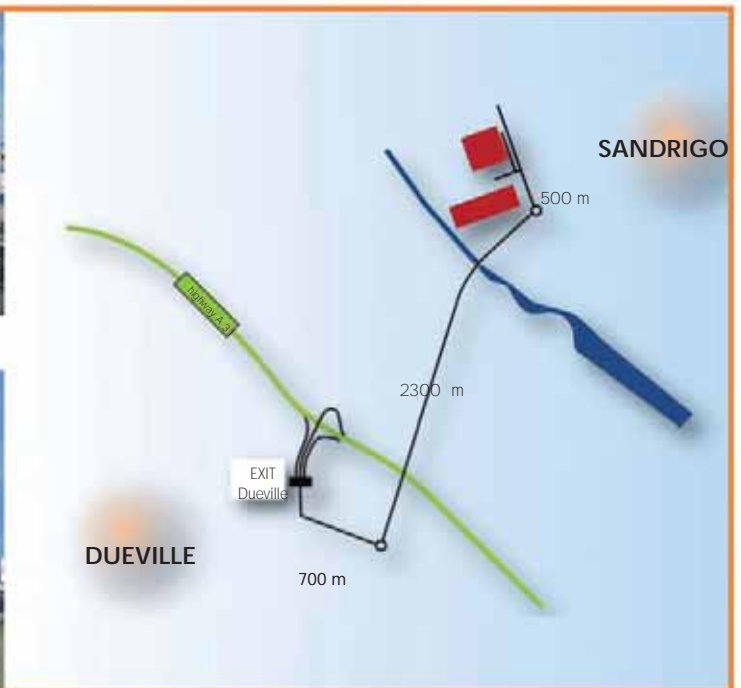
To the Main Office in Schio
 Highway A31 - Exit Thiene-Schio - 13 Km



Headquarter of Schio Via Venezia, 144 - 36015 Schio



Factory of Sandrigo 2 / Sandrigo3 Via G.Galilei, 5 / Via Galvani, 3-5 - 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