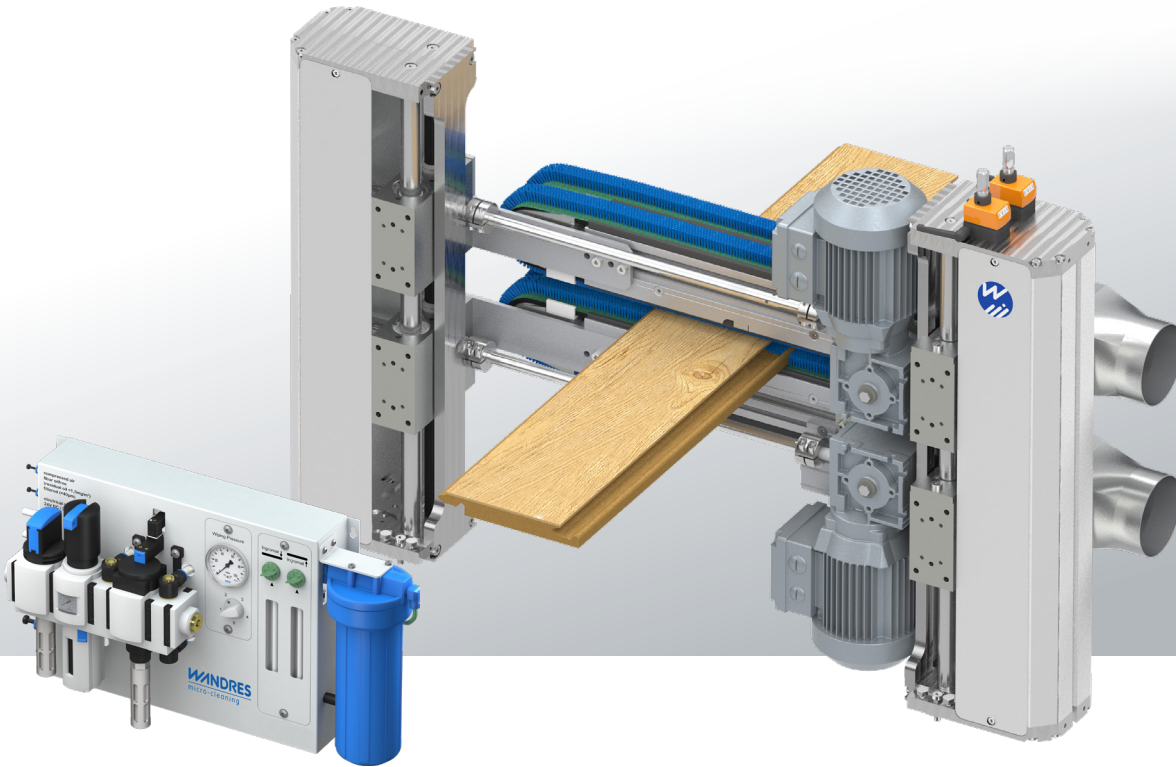




Combi Sword Brushes Una XL 121.. and Una XL 123..

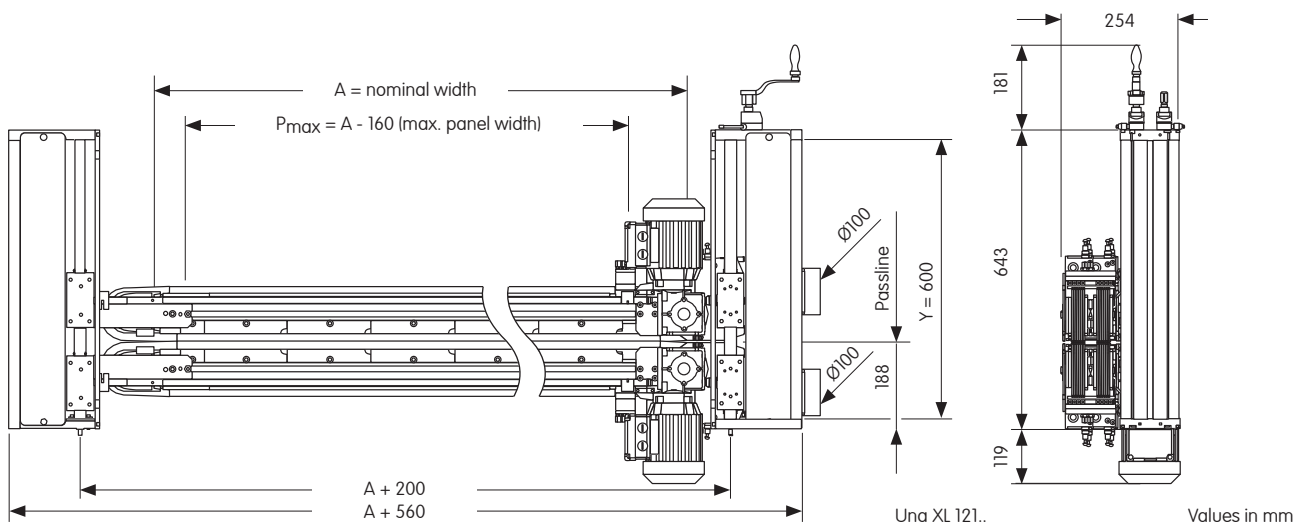


Brief description

The Combi Sword Brush Una XL 121../ Una XL 123.. is ideal to clean floor laminates from above and from below at high production speeds. Two Sword Brushes, type BIX 102 wipe transversally from one edge of the panel to the other edge. Their micro-moistened filaments (Ingromat® system) remove large amounts of electrically charged, abrasive laminate dust particles. An integrated pressure buffer provides for a consistent wiping pressure onto the material surface and a premium cleaning result. Where large amounts of particles occur, we recommend a reinforced self-cleaning mechanism to ensure consistent and high-quality cleaning results.

Technical details

- 2 x Sword Brush BIX 102.. with pressure buffer, Ingromat® system and an Ingromat® regulator and filter unit IR 100.. as well as a control and pneumatic cabinet (option)
- Adjustment frame VEG 25 with mechanical height adjustment (standard). An electrical and/or pneumatic height adjustment is available as an option.



Ordering example

The subject panel has a max. width of

$P_{max} = 1500$ mm.

Minimum nominal width of Combi Sword Brush:

$A_{min} = P_{max} + 160$ mm = 1660 mm

The most suitable Combi Sword Brush has a nominal width of $A = 1700$ mm.

Order no. [2258-059](#)

describes Combi Sword Brush

Una XL 121/600/1700

Self-cleaning nozzles

Standard Order no. [4163340](#)

Reinforced Order no. [4158462](#)

We recommend the reinforced version for applications with high levels of dust.

Best.-Nr.

Order code

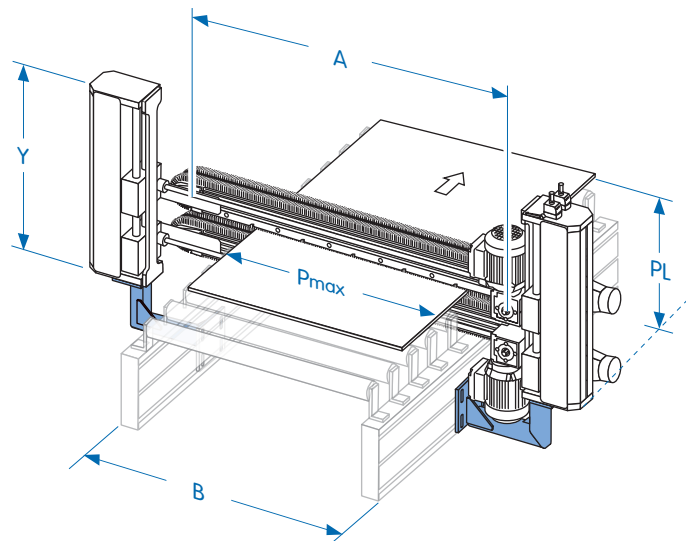
Una XL 121/600

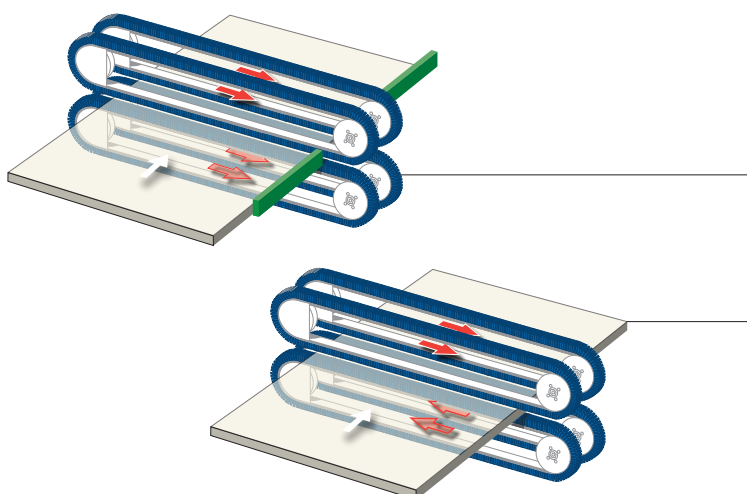
Una XL 123/600

		Nominal width A	
		in mm	in inches
2258-	2390-		
-003	-003	400	15.75
-004	-004	520	20.47
-005	-005	650	25.59
-058	-058	700	27.56
-006	-006	850	33.46
-045	-045	900	35.43
-007	-007	1000	39.37
-008	-008	1100	43.31
-031	-031	1200	47.24
-009	-009	1300	51.18
-030	-030	1400	55.11
-010	-010	1500	59.06
-011	-011	1650	64.96
-059	-059	1700	66.93
-012	-012	1750	68.89

Explanation

- A Nominal width of Sword Brush = distance between deviation roller shafts.
- PL Pass line = distance between screw down area and lower panel surface = 188 mm (standard, other measures available)
- B Width of roller conveyor = $A - 300$ (-40/+25) mm (with mounting kit 4160483 for Homag roller conveyor)
- P_{max} max. panel width = $A - 160$ mm
- Y Nominal measure of adjustment frame

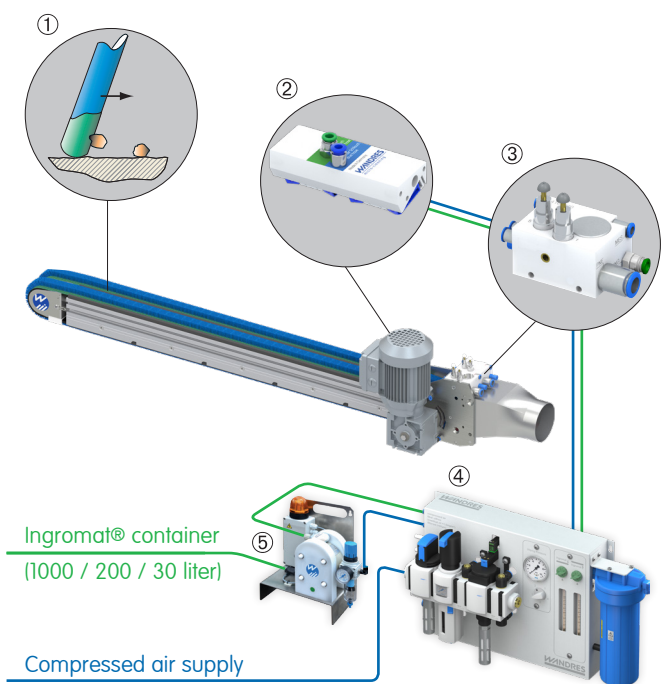




Wiping direction

Una H-X 121..
Wiping direction 1
linear brushes wipe in the same direction towards the guide rail.

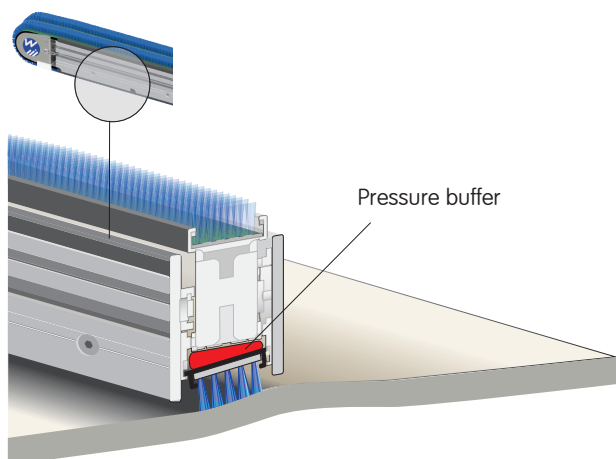
Una H-X 123..
Wiping direction 3
linear brushes wipe in opposite directions
Wiping forces cancel each other.



Ingromat® system

Ingromat® is an antistatic cleaning agent. The brush filaments are micro-moistened with Ingromat® thus providing an effective removal of even very fine dust particles

- ① Micro-moistened brush filament with Ingromat® (shown in green)
- ② Ingromat®-sprayer SQL 102..
- ③ 2 x Distributor block VTB 100..
- ④ Ingromat® regulator and filter unit IR 100..
Ingromat® filter, dosage and display of inner pressure of pressure buffer
- ⑤ Option: Ingromat® central supply pump e.g. IS 102

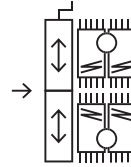


Pressure buffer

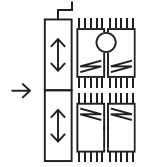
The linear brushes are mounted on a pressure buffer that provides flexibility and compensates irregularities and thickness variations of up to +/- 2 mm. Thus brush filaments are not excessively bent, they will remain in a vertical position. This provides a constituent wiping pressure and a premium cleaning quality.

Technical details

Una XL 121/600/A



Una XL 123/600/A



Electrical details

Brush drive motor	2 x 0.25 kW SEW motor, IP 54, UL-compatible 50 Hz; Δ 220 - 240 V; Υ 380 - 415 V; 0.66 A 60 Hz; Δ 240 - 266 V; Υ 415 - 480 V; 0.6 A
Main valve	2/2 control valve: 1 x 24 V DC; 1.5 W
Electrical height adjustment (HVE)	24 V DC; 160 W (AG04); 150 W (AG02); control via PLC
Pneumatic quick adjustment (HVP)	5/3 directional valve: 24 V DC (2 x for single-sided, 4 x for double-sided); 1.08 W

Pneumatic details

Compressed air quality	filtered (max. particle size < 40 μ m), oil free (residual oil < 1.5 mg/m ³ at 24° C)
Compressed air connection	1 x 1/2" female thread; 6 bar
Compressed air consumption	930 NI/min (with standard self-cleaning nozzles) 1130 I/min (with reinforced self-cleaning nozzles)

Fluidics

Ingromat® hose connection	1 x \varnothing 8 mm
Ingromat® consumption	2 x 0.6 - 1.5 l/h

Suction requirements

Suction connection	2 x \varnothing 100 mm; 2 x 14 m ³ /min
Vacuum	min. -500 Pa
Flow velocity	min. 28 m/s (measured at suction connection)

Acoustic emission

approx. 82 dB(A)
depends on the surface features and the geometry of the subject material

Linear brush

Type of linear brush	Quadro R6
Filament material	Polyamid 6.12
Filament length	17 mm
Filament diameter \varnothing	0.127 mm

Transport speed

Max. transport speed	100 m/min
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Dimensions of subject panel

Min. panel length	L_{\min} = 300 mm
Min. panel width	P_{\min} = 60 mm (upon request)
Max. panel width	P_{\max} = A - 160 mm

Technical information is subject to changes.

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