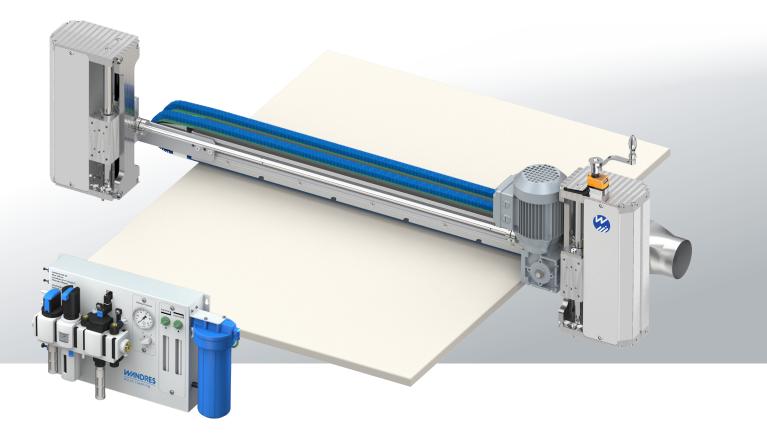


Combi Sword Brush Una XL 111...

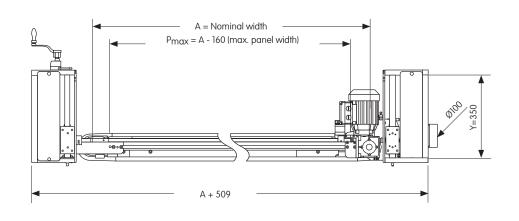


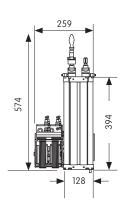
Brief description

The Combi Sword Brush Una XL 111.. is ideal to clean heavily contaminated boards and panels at high production speeds e.g. floor laminate panels. One Power Sword Brush (type BIX 102) with two linear brushes wipes transversally across the surface. The machine uses the Ingromat® system and is equipped with micro-moistened brush filaments that remove even large amounts of electrically charged, abrasive laminate dust. An integrated pressure buffer provides for a consistent wiping pressure onto the material surface and premium cleaning results.

Technical details

- 1 x Sword Brush BIX 102/1M/A with reinforced self-cleaning mechanism, pressure buffer, Ingromat® system and an Ingromat® regulator and filter unit IR 100.. (standard), with 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.





Values in mm

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. 2259-059 describes Combi Sword Brush Una XL 111/350/1700

Self-cleaning nozzles

Standard version order no. 4163340
Reinforced version order no. 4158462
We recommend the reinforced version for all applications where large quantities of dust occur.

Explanation

A Nominal width of Sword Brush =
Distance between deviation roller shafts.

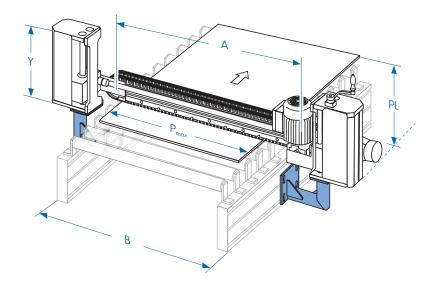
PL Pass line = Distance between screw down

area and lower panel surface

P_{max} Max. panel width = A - 160 mm Y Nominal measure of adjustment frame

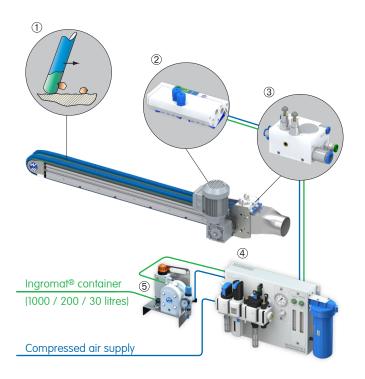
B Width of roller conveyor = A-300 mm (-40/+25 mm) (for standard Homag roller conveyor with fastening kit 4160483)

| Order no. | | | |
|----------------|--------|---------------|---------------------------|
| Una XL 111/350 | | | |
| → 12259- | Horind | width Horizal | widt inde ⁵ |
| - 003 | 400 | 15.75 | |
| - 004 | 520 | 20.47 | |
| - 005 | 650 | 25.59 | |
| - 058 | 700 | 27.56 | |
| - 006 | 850 | 33.46 | |
| - 045 | 900 | 35.43 | |
| - 007 | 1000 | 39.37 | |
| - 008 | 1100 | 43.31 | |
| - 031 | 1200 | 47.24 | |
| - 009 | 1300 | 51.18 | |
| - 030 | 1400 | 55.11 | |
| - 010 | 1500 | 59.06 | |
| - 011 | 1650 | 64.96 | |
| - 059 | 1700 | 66.93 | |
| - 012 | 1750 | 68.89 | |



Una XL 111/350/A with Y = 350 mm

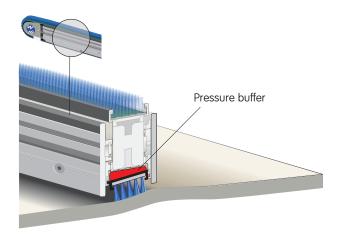




Ingromat® system

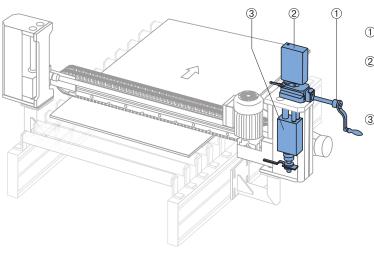
Ingromat® is an anti-static cleaning agent. The brush filaments are micro-moistened with Ingromat® and effectively remove even the most tiniest dust particles.

- Micro-moistened brush filament with Ingromat[®] (shown in green)
- ② Ingromat® sprayer SQL 102..
- 3 2 x Distributor block VTB 100..
- 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 brush is 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 for a consistent wiping pressure and a premium cleaning quality.



Height adjustment

To adjust a cleaning module to the subject panel's thickness, the Sword Brush is mounted at an adjustment frame.

Manual height adjustment (HVM): Normally, adjustment takes place manually via a crank.

- Electrical height adjustment (HVE): An electrical actuator (available as an option) provides for a connection to the overall control which automatizes thickness adjustment completely.
- Pneumatic height adjustment (HVP): Additionally, the cleaning module may be rapidly removed from the surface with the help of a pneumatic cylinder (e.g. for crash situations). Different types with various strokes are available.

Both the mechanical and the electrical height adjustment may be combined with the pneumatic quick adjustment.

www.wandres.com



Technical details

Una XL 111/350/A

Electrical details

Brush drive motor 1 x 0,25 kW SEW motor, IP 54, UL compatible

50 Hz; \triangle 220 - 240 V; 1.14 A; Υ 380 - 415 V; 0.66 A 60 Hz; \triangle 240 - 266 V; 1.03 A; 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: 2 x 24 V DC; 1.08 W

Pneumatic details

Compressed air quality filtered (particle size < 40µm), oil free (residual oil < 1.5 mg/m³ at 24° C)

Compressed air connection $1 \times 1/2$ " female thread; 6 bar

Compressed air consumption 470 l/min (with standard self-cleaning nozzles) 570 l/min (with reinforced self-cleaning nozzles)

Fluidics

 $\label{localization} \begin{array}{ll} \mbox{Ingromat}^{\circledcirc} \mbox{ hose connections} & \mbox{1 x \varnothing 8 mm} \\ \mbox{Ingromat}^{\circledcirc} \mbox{ consumption} & \mbox{0.6 - 1.5 l/h} \end{array}$

Suction

Suction connection 1 x Ø 100 mm; 1 x 14 m³/min

Operating parameters min. -500 Pa vacuum; min. 28 m/s (measured at suction connection)

Acoustic emission

approx. 79 dB (A)

depending on surface features and geometry of the subject material

Linear brush

Linear brush typeQuadro R6Filament materialPolyamide 6.12Filament length17 mmFilament diameter0.127 mm

Transport speed

Max. transport speed 100 m/min

Dimensions of subject panel

Min. panel length $L_{min} = 300 \text{ mm}$

Min. panel width $P_{min} = 60 \text{ mm} \text{ (upon request)}$

Max. panel width $P_{max} = A - 160 \text{ mm}$

Technical information is subject to changes

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