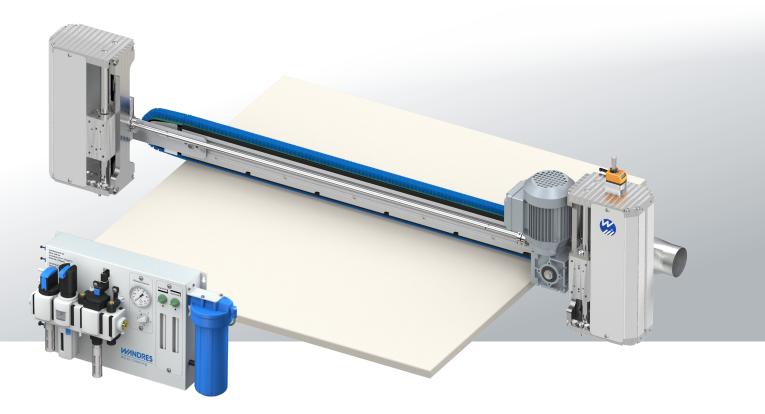


Combi Sword Brush Una X 111...

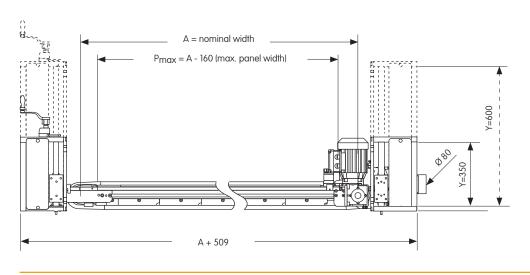


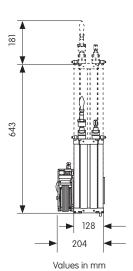
Brief description

The Combi Sword Brush Una X 111.. is ideal to clean furniture panels, wooden boards, plastic and flat glass sheets from above. These surfaces need to be cleaned before lacquering, converting, stacking or before camera inspection. A Sword Brush, type BIX 51, wipes transversally across the material surface. The micro-moistened brush filaments (Ingromat® system) remove even the most minute particles from the subject surface. The integrated pressure buffer provides for a consistent wiping pressure and a premium cleaning result. The adjustment frame VEG 25.. allows a vertical adjustment of the Sword Brush e.g. to adapt it to the material's thickness or to remove it from the material surface for maintenance purposes .

Technical details

- 1 x Sword Brush BIX 51/1M/A with pressure buffer and Ingromat® system including an Ingromat® regulator and filter unit IR 100.. (standard) resp. control cabinet for pneumatic and electrical functions (option)
- 1 x Adjustment frame VEG 25.. with short column (Y = 350 mm) or long column (Y = 600 mm) with mechanical height adjustment, Option: Adjustment frame with electrical and/or pneumatic height adjustment





Order code

- 033

- 014

UNA X 111/350..|UNA X 111/600.. Moringly all a Normal width A 2252-2265 - 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 51.18 1300 - 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 -032 -032 1900 74.80 - 013 2000 78.74 - 013

2100

2200

82.68

86.61

- 033

- 014

Ordering example

The subject panel has a max. width of P_{max} = 1500 mm. Min. nominal width of Combi Sword Brush is $A_{min} = P_{max}$ + 160 mm = 1660 mm. The most suitable Combi Sword Brush has a nominal width of A = 1700 mm. Order code 2252-059 describes Combi Sword Brush

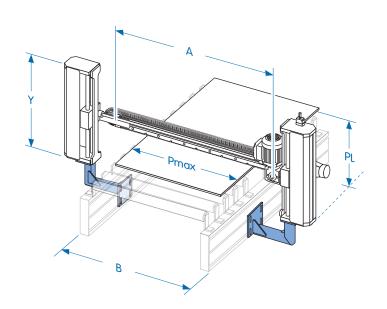
Una X 111/350/1700 with short column

Explanation

- A Nominal width of Sword Brush = distance between axes of deviation rollers
- B Width of roller conveyor ≈ A 300 mm (-40/+25 mm) (for standard Homag roller conveyor with fastening kit 4160483)
- PL Pass line = distance between screw down area and lower surface of panel

Pmax Max. panel width = A - 160 mm

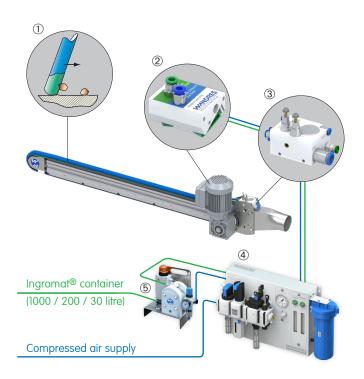
Y Nominal measure of adjustment frame



Una X 111/600/A..

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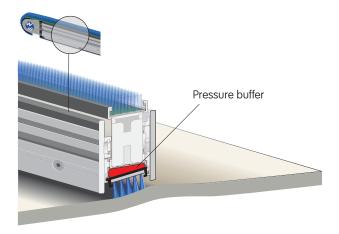




Ingromat® system

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 Individual brush filament micro-moistened with Ingromat® (shown in green)
- ② Ingromat®-sprayer SQL 51..
- ③ Distributor block VTB 100..
- Ingromat® regulator and filter unit IR 100.. Ingromat® filter, dosage and display of inner pressure of pressure buffer
- 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 a constituent wiping pressure and a premium cleaning quality.

Height adjustment

To adjust a Sword Brush cleaning module to the thickness of the panel, the Sword Brush is mounted at an adjustment frame. Depending on the situation on site and required adjustment range, you may choose between an adjustment frame with short (Y = 350 mm) or long (Y = 600 mm) column.

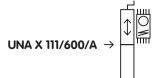
- HVM: Normally, adjustment takes place manually via a crank.
- ② HVE: Option: An electrical actuator provides for an automatic thickness adjustment in combination with the overall control of the line.
- ③ HVP: Additionally, the cleaning module may be rapidly removed from the surface with the help of a pneumatic cylinder (e.g. for crash situations). Both the mechanical and the electrical height adjustment may be combined with the pneumatic quick adjustment.

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Technical details

UNA X 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 directional 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 (max. particle size < 40µm), oil free (residual oil < 1.5 mg/Nm³ at 24° C)

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

Compressed air consumption 230 l/min (with standard self-cleaning nozzle), 280 l/min (with reinforced self-cleaning nozzle)

Details regarding antistatic liquid

Suction requirements

Suction connection/capacity $1 \times \emptyset$ 80 mm; $1 \times 8 \text{ m}^3/\text{min}$

Vacuum min. -500 Pa Flow velocity min. 28 m/s

Acoustic emission

Sound pressure level LpA approx. 74 dB(A)

depends on the surface structure 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 Ø 0.127 mm

Transport speed

Max. transport speed 100 m/min

Dimensions of subject panel

 $\mbox{Min. panel length} \mbox{ L_{min} } = 240 \mbox{ mm}$

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

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

Technical information is subject to changes.

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