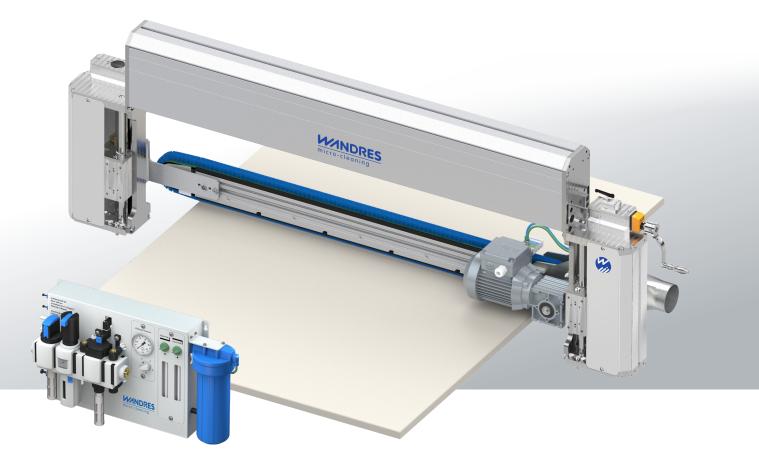


## Combi Sword Brush Ung H-X 111...

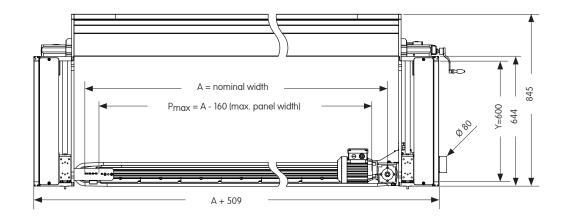


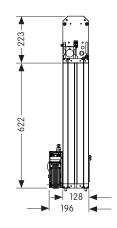
#### **Brief description**

The Combi Sword Brush Una H-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 130.. 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 130.. 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



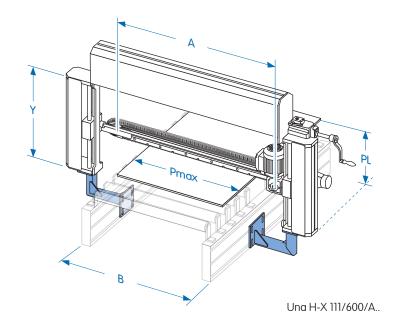


Values in mm

	Order code Una H-X 111/350	Una H-X 111/600			
	130_	→ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Moring	wight A Morning	undth a
	- 056	- 056	2300	90.55	
	- 015	- 015	2500	98.43	
Oudoring average	- 050	- 050	2700	106.29	
Ordering example	- 016	- 016	2750	108.26	
The subject panel has a max. width of	- 060	- 060	2800	110.23	
$P_{\text{max}} = 3200 \text{ mm}.$	- 036	- 036	2900	114.17	
Min. nominal width of Combi Sword Brush is	- 017	- 017	3000	118.11	
$A_{min} = P_{max} + 160 \text{ mm} = 3360 \text{ mm}.$	- 037	- 037	3100	122.05	
The most suitable Combi Sword Brush	- 018	- 018	3200	125.98	
has a nominal width of $A = 3400$ mm.	- 039	- 039	3400	133.85	
Order code 2455-039	- 019	- 019	3500	137.79	
describes Combi Sword Brush	- 020	- 020	3750	147.64	
Una H-X 111/350/3400 with short column	- 021	- 021	4000	157.48	
	-1022	- 022	4300	169.29	

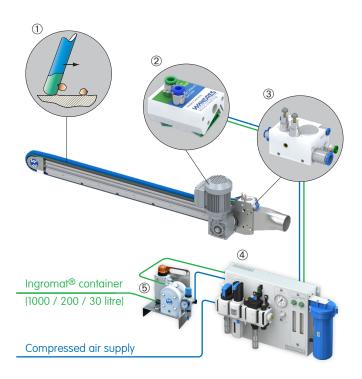
# **Explanation**

- Nominal width of Sword Brush = Α distance between axes of deviation rollers
- В 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 mmNominal measure of adjustment frame



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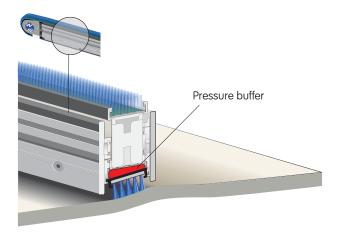




#### Ingromat® system

Ingromat<sup>®</sup> is an antistatic cleaning agent. The brush filaments are micro-moistened with Ingromat<sup>®</sup> 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<sup>®</sup> central supply pump e.g. IS 102



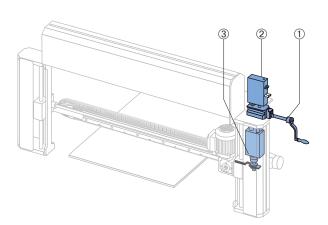
### Pressure buffer

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 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.

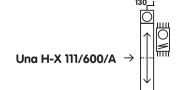


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#### **Technical details**

#### Una H-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;  $\Upsilon$  380 - 415 V; 0.66 A 60 Hz;  $\triangle$  240 - 266 V; 1.03 A;  $\Upsilon$  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; 150 W (AG 02); 35 W (PSE); control via PLC

Pneumatic quick adjustment (HVP) 5/3 directional valve: 2 x 24 V DC; 2,4 W

**Pneumatic details** 

Compressed air quality filtered (max. 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 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 x Ø 80 mm; 1 x 9 m³/min

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

**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** 

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

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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