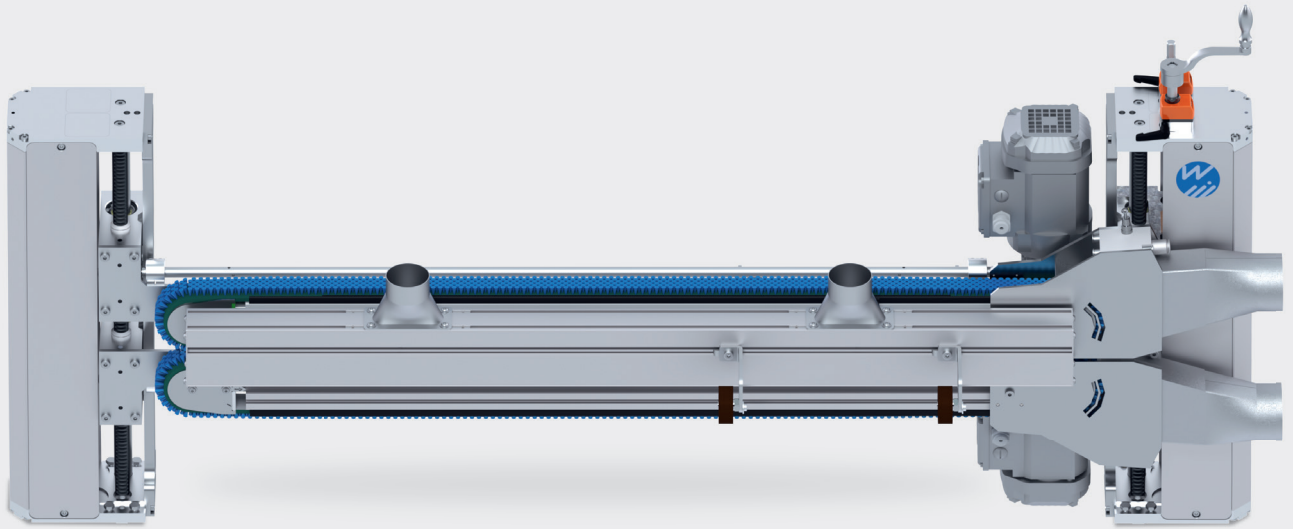


C-Line

# Combi Sword Brush Una U 121



Sword Brushes with micro filaments and suction channel provide flawless surfaces of panels and boards



Micro filaments



Self-cleaning mechanism



Pressure buffer



Adjustment frame



Trans-Vac-Unit TKL 46

The **Combi Sword Brush Una U 121** cleans furniture parts and panels from above and below across the product surface. A Trans-Vac-Unit TKL 46 located at the infeed of the machine absorbs large amounts of dust and particles thus disburdening the task of the subsequent Sword Brush. The Sword Brushes use their micro filaments to clean the panels from both sides.

Due to the integrated pressure buffer, the brush filaments move across the surface in a vertical position. This enhances particle removal. The self-cleaning mechanism allows for reproducible results and consistent high-performance cleaning results. The machine is thus ideal to provide flawless surfaces in mass productions during 24/7 operations.

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Surface Cleaning Technology

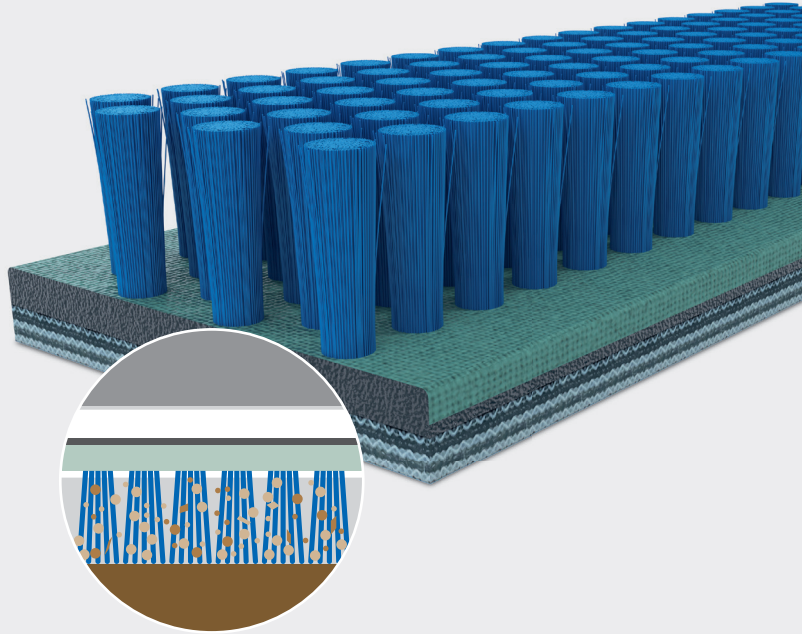


**WANDRES**  
micro-cleaning

## In-depth cleaning

### Micro filaments

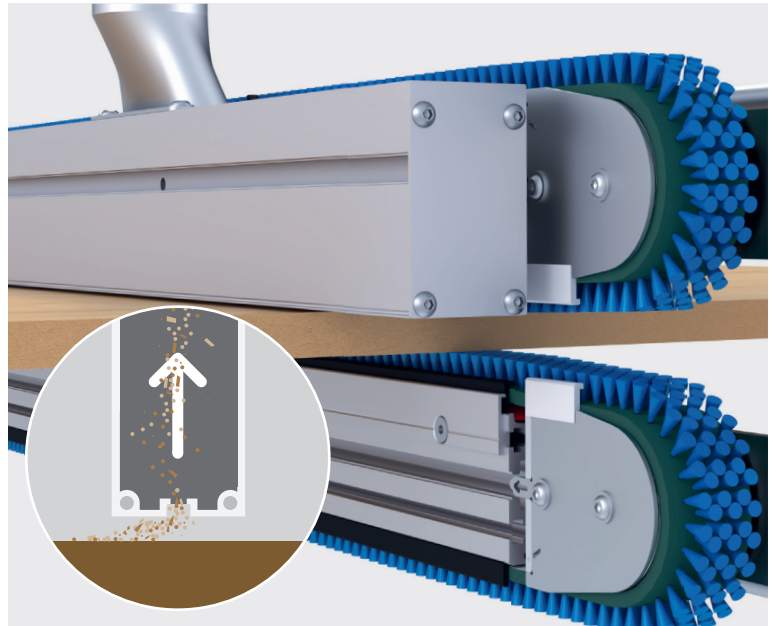
The linear brush belt is equipped with a great number of very fine brush filaments. The micro filaments only have a diameter of 80 µm and thus will effectively remove particles and dust even in a dry state. At the deviation, the linear brushes are permanently cleaned. This allows the machine to be used in industrial continuous operations.



## Air-assisted pre-cleaning

### Trans-Vac-Unit TKL 46

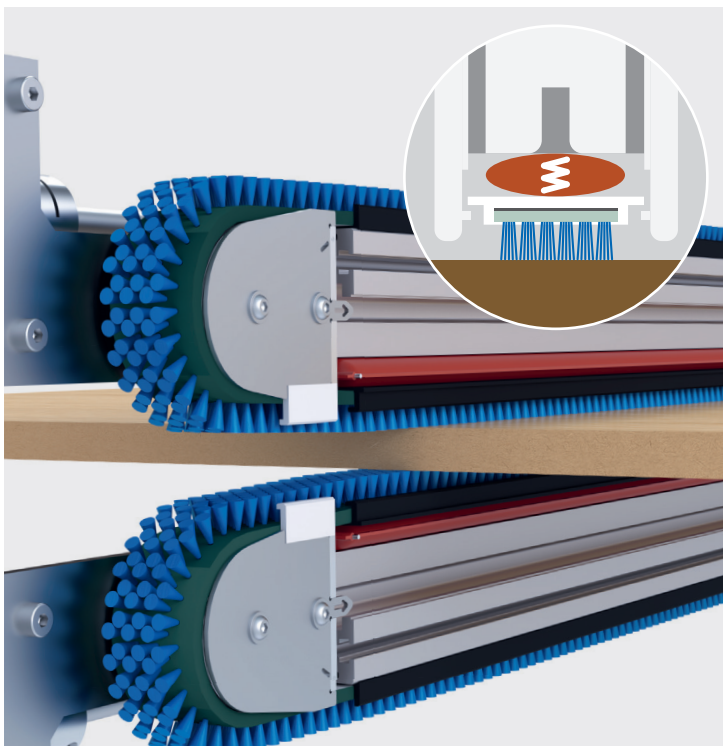
The Trans-Vac-Unit TKL 46 is mounted at the infeed of the upper Sword Brush. It does not touch the surface and absorbs large amounts of particles. An air-assisted pre-cleaning process brings major advantages especially if very large amounts of dust and particles occur.



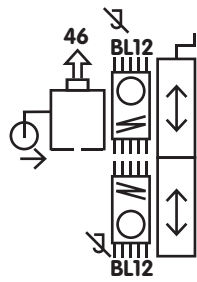
## Consistent wiping pressure

### Pressure buffer

The linear brush is mounted flexibly on a pressure buffer. The pressure buffer compensates for any material unevenness or thickness variations. Brush filaments will remain in a vertical position. This allows for a consistent wiping pressure and particles are always effectively removed from the surfaces.



# Technical details and dimensions



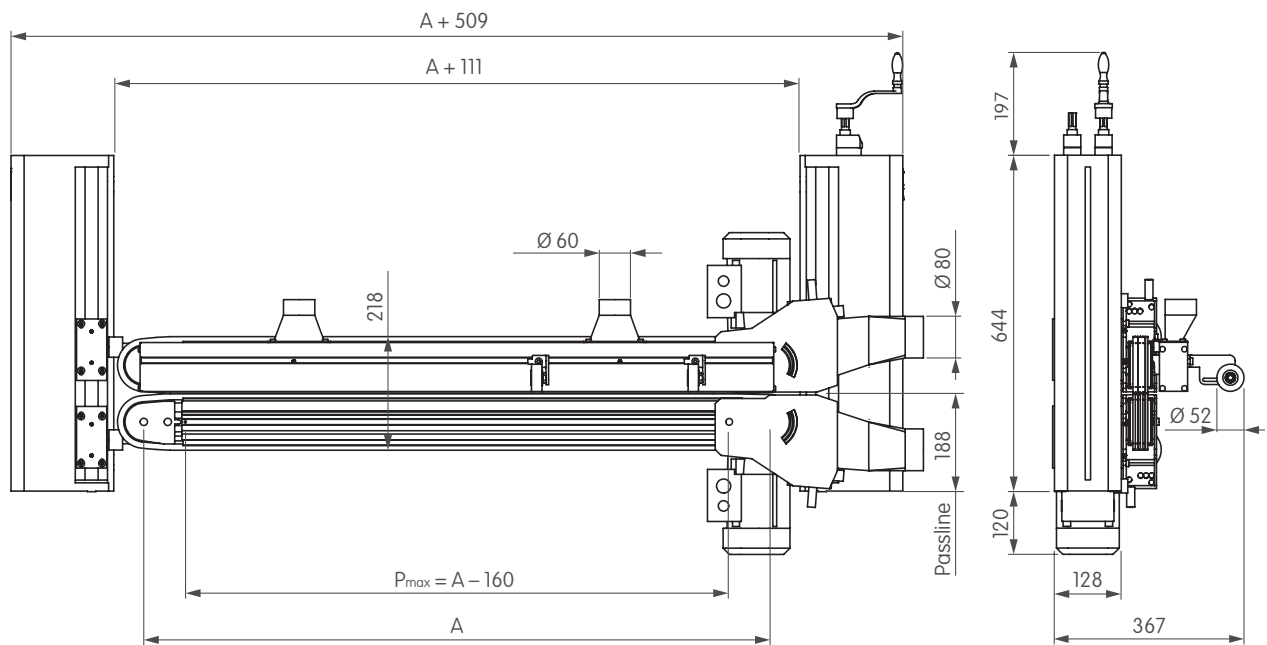
Una U 121

1 x **Trans-Vac-Unit TKL 46** absorption of large amounts of particles without touching the surface

2 x **Sword Brush BRX 12** with micro filaments and pressure buffer, without Ingotmat system

4 x **pressure roller** with  $\varnothing 52$  mm, aligned to the right, 2 units are mounted at the infeed and at the outfeed

1 x **adjustment frame VEG 25** for manual height adjustment



A Nominal width of Sword Brush = distance between shafts of deviation rollers  
 $P_{max}$  max. panel width =  $A - 160$  mm

A in mm	400	520	650	700	850	900	1000	1100	1200	1300	1400	1500
N Number of suction connections Trans-Vac-Unit TKL 46	1	1	1	2	2	2	2	2	2	2	3	3

A in mm	1650	1700	1750	1900	2000	2100	2200
N Number of suction connections Trans-Vac-Unit TKL 46	3	3	3	3	4	4	4

# Technical data

## Electrical details

Sword Brush drive motor	2 x 0.25 kW SEW motor, IP 54, compatible UL + CSA 50 Hz; $\Delta$ 220–240 V; 1.14 A; $\Upsilon$ 380–415 V; 0.66 A 60 Hz; $\Delta$ 240–266 V; 1.03 A; $\Upsilon$ 415–480 V; 0.6 A
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## Pneumatic details

Compressed air quality	filtered (particle size < 40 $\mu$ m), oil free (residual oil < 1.5 mg/m <sup>3</sup> at 24°C)
Compressed air connection	2 x $\varnothing$ 12 mm push-in fitting; 6 bar
Total compressed air consumption	240 l/min (at 1.013 bar and 20°C)

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## Suction

Suction connection Sword Brushes	2 x $\varnothing$ 80 mm
Suction capacity Sword Brushes	2 x 9 m <sup>3</sup> /min
Suction connection TKL 46	N x $\varnothing$ 60 mm (number N see table on page 3)
Suction capacity TKL 46	N x 5 m <sup>3</sup> /min (number N see table on page 3)
Operating parameter	min. –500 Pa vacuum; min. 28 m/s (at suction connection)

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## Linear brush

Type of linear brush	Quadro R6
Filament material	Polyamide 6.12
Filament length	12 mm
Filament- $\varnothing$	0.08 mm

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## Transport speed

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

Min. panel length	$L_{\min} = 240$ mm
Min. panel width	$P_{\min} = 60$ mm
Max. panel width	$P_{\max} = A - 160$ mm

Technical data are subject to change

