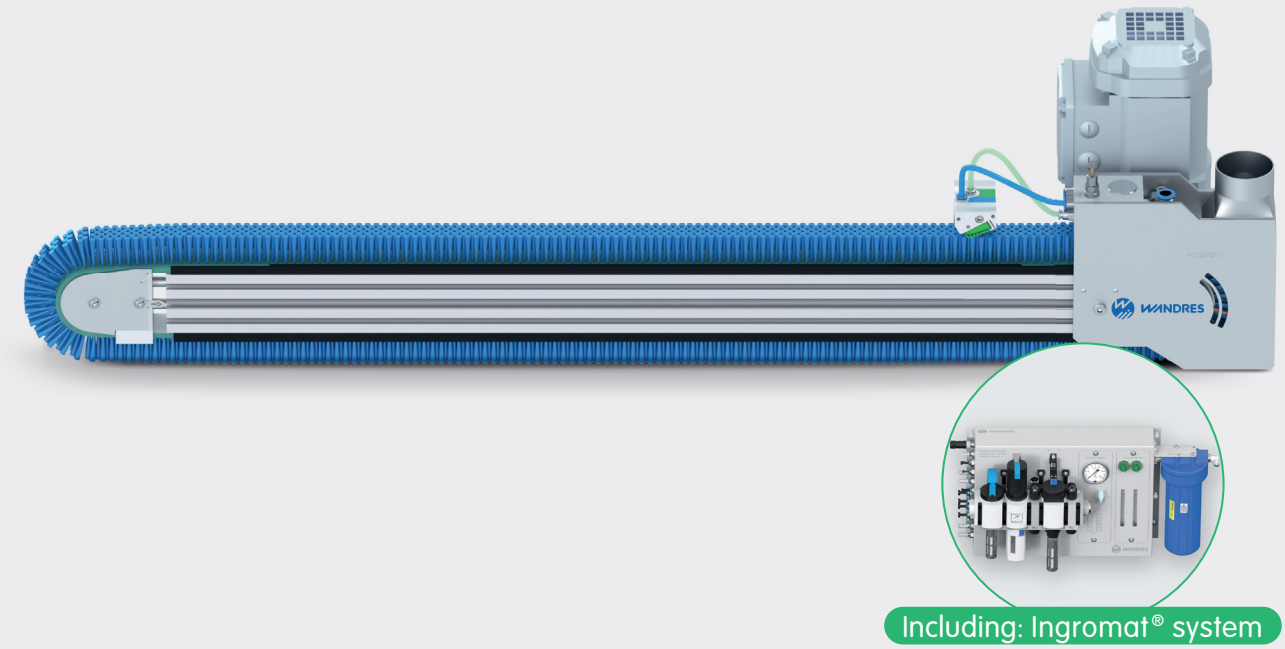
B-Line, C-Line, F-Line

# Sword Brush®
# BIKV 53




Including: Ingromat® system

## Cleaning of uneven, structured, profiled and flat surfaces

- Flexible cleaning
- Self-cleaning mechanism
- Micro-moistening
- Vertical extraction

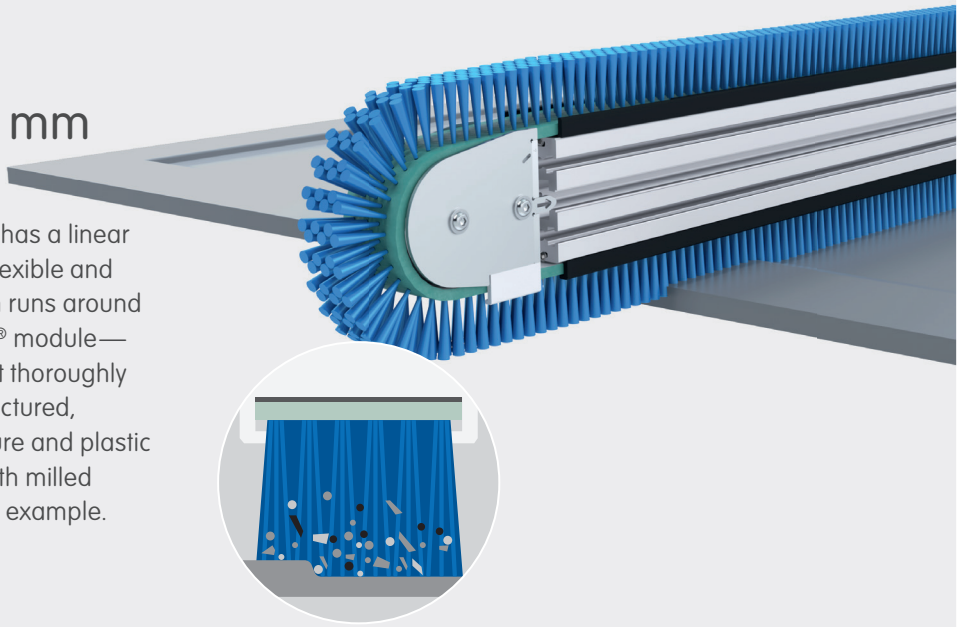
Surface Cleaning Technology

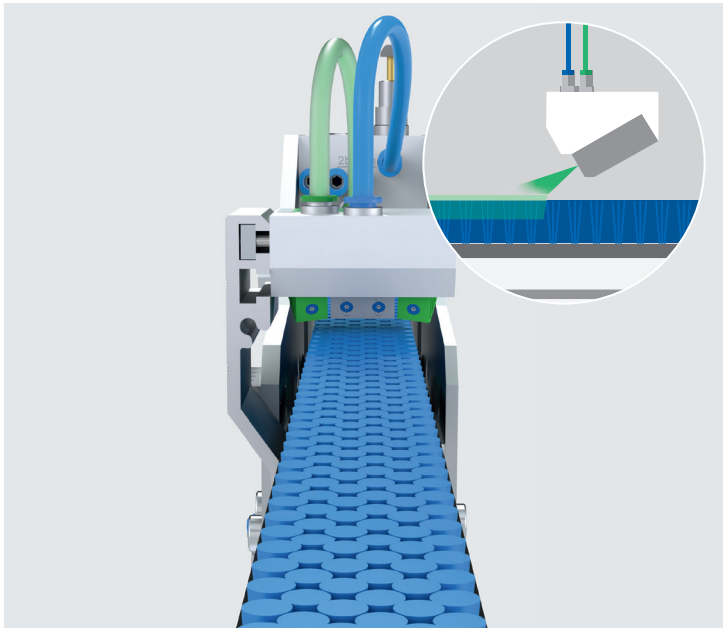
WANDRES

## Flexible cleaning

### Filament length is 32 mm

The **Sword Brush®** in its **BIKV 53** version has a linear brush with fine filaments. Filaments are flexible and have a length of 32 mm. The linear brush runs around the sword-like profile of the Sword Brush® module—crosswise to the surface being cleaned. It thoroughly removes particles from both uneven, structured, profiled and flat surfaces. It cleans furniture and plastic boards, structured panels, front doors with milled decorative grooves and metal blanks, for example.





## Effective dust removal

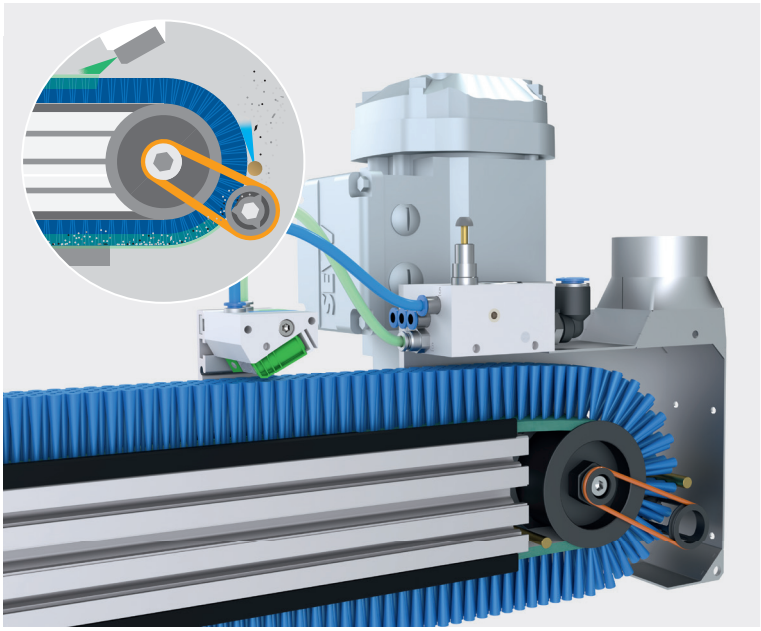
### Micro-moistening

**BIKV 53** cleaning modules are equipped with the **Ingromat® system**. The sprayer applies a thin film of the antistatic cleaning agent Ingromat® in running direction onto the filament tips of the linear brush. The micro-moistening causes even very fine dust particles to cling to the brush filaments that transport them towards the suction system. The subject surface will remain dry during the cleaning process.

## Stable continuous operation

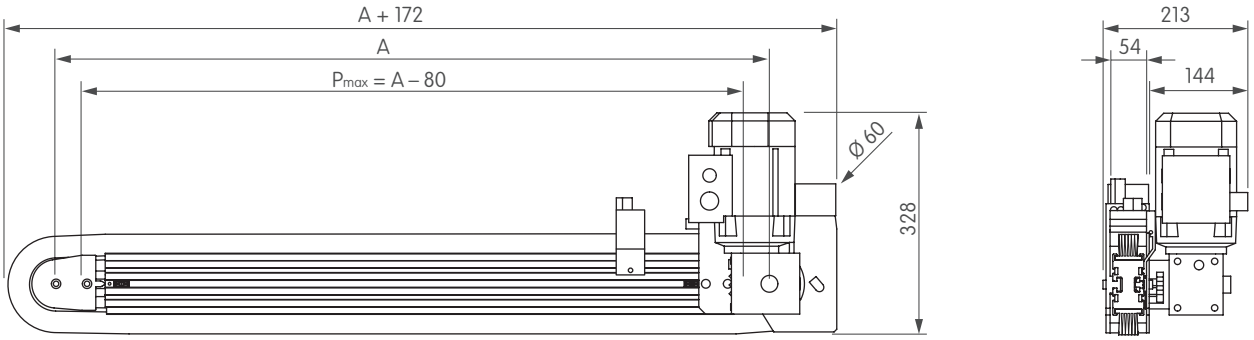
### Self-cleaning mechanism

A **rotating rack** and **compressed air nozzles** continuously clean the brush filaments. This self-cleaning mechanism allows a permanent regeneration of the linear brushes. It guarantees reproducible cleaning results in industrial 24/7 operations.



# Important measures and values

The **Sword Brush® BIKV 53** is available in different nominal widths. It has a narrow, compact profile with grooves. These allow the mounting of the customer's own additions or superstructures. The modules may be integrated precisely and flexibly into specific customer production lines.




Dimensions in mm

A: Nominal width = distance between deviation roller shafts

| Nominal width A | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Profile reinforcement for A = 2300 and above | | | | | | | | | | | | | | | |
| 300 | 400 | 520 | 650 | 700 | 850 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1650 | 1700 | 1750 |
| 1900 | 2000 | 2100 | 2200 | 2300 | 2500 | 2700 | 2750 | 2800 | 2900 | 3000 | 3100 | 3200 | 3400 | 3500 | 3750 |
| 4000 | 4300 | 4500 | | | | | | | | | | | | | |

| | |
|---|---|
| Drive Sword Brush® | 0.25 kW SEW motor, IP 54, UL compatible, CSA compatible<br>50 Hz; △ 220 – 240 V; 1.14 A; ⅄ 380 – 415 V; 0.66 A<br>60 Hz; △ 240 – 266 V; 1.03 A; ⅄ 415 – 480 V; 0.6 A |
| Main valve (at IR unit)) | 2/2 way valve; 1 x 24 V DC each; 1.5 W |
| Compressed air quality | Purity classes compressed air ISO 8573 - 1:2010 [6 : 4 : 3] (at 20 °C; 1 bar)<br>filtered ($C_P \leq 5$ mg/m³), dry (pressure dew point ≤ 3 °C), oil-free ($C_o \leq 1$ mg/m³) |
| Compressed air connection | 1 x 1/2" female thread; 6 bar |
| Total compressed air consumption | 235 l/min (at 1.013 bar und 20 °C) with standard self-cleaning nozzle<br>330 l/min (at 1.013 bar und 20 °C) with reinforced self-cleaning nozzle |
| Suction diameter Sword Brush® | Ø 60 mm |
| Suction capacity Sword Brush® | 300 m³/h |
| Operating parameters | min. –500 Pa vacuum |
| Ingromat® hose connection | Ø 8 mm |
| Ingromat® consumption | 0.2 – 0.8 l/h |
| Standard linear brush | Quadro R6, polyamide 6.12; Filament length 32 mm; Filament-Ø 0.2 mm |
| Max. transport speed | 100 m/min |
| Minimum dimension of panels | $L_{min}$ = 240 mm; $P_{min}$ = 60 mm |
| Maximum cleaning width | $P_{max}$ = A – 80 mm |

Exemplary values, the exact values can be found in the specifications.

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