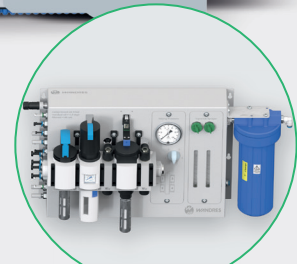
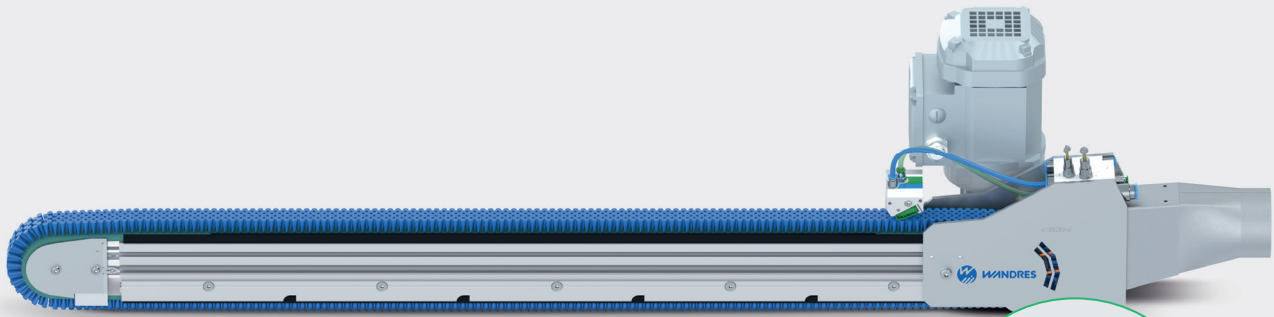


B-Line, C-Line, F-Line, G-Line

Sword Brush® BIX 51



Including: Ingromat® system

Cleaning flat surfaces with small variations
in thickness



Pressure buffer



Self-cleaning mechanism

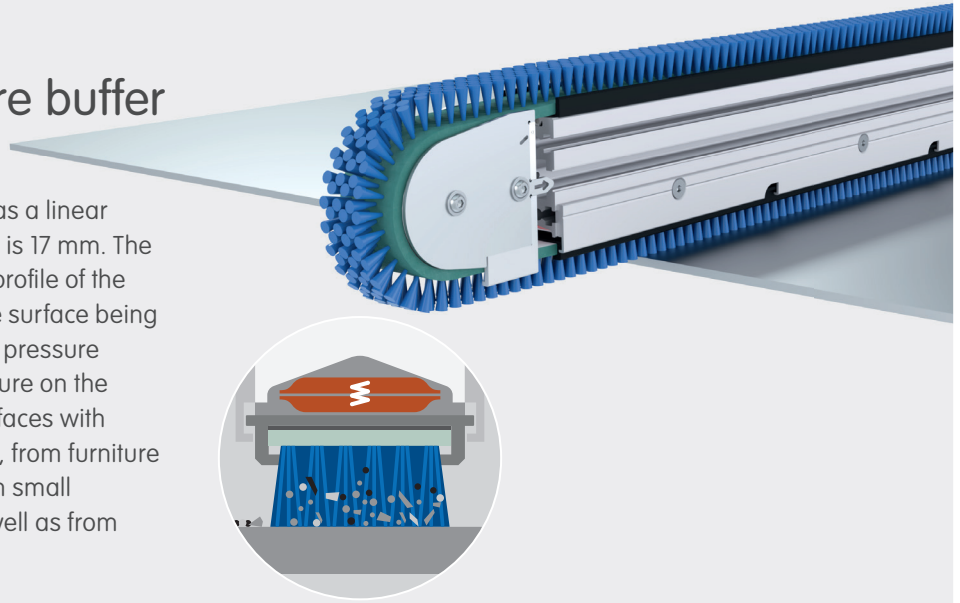


Micro-moistening

Optimal cleaning

Linear brush & pressure buffer

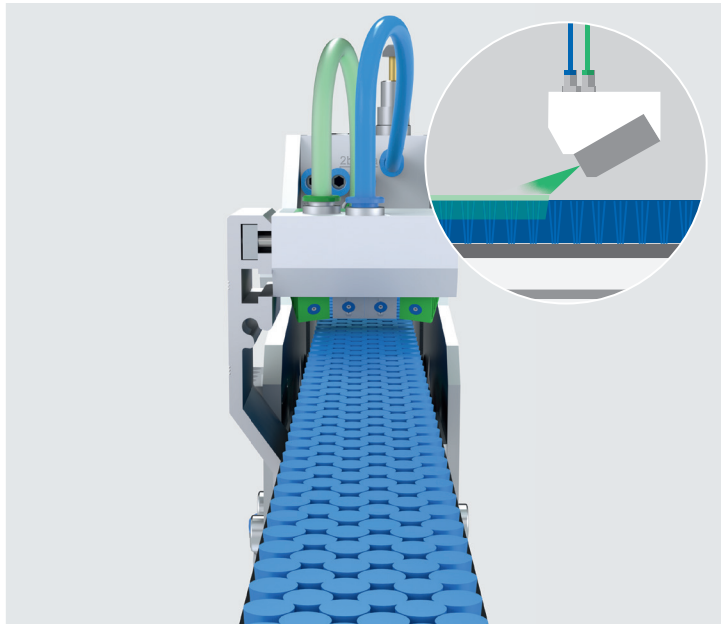
The **Sword Brush®** in its **BIX 51** version has a linear brush with fine filaments. Filament length is 17 mm. The linear brush runs around the sword-like profile of the Sword Brush® module—crosswise to the surface being cleaned—and is flexibly mounted onto a pressure buffer, which ensures even contact pressure on the surface. It removes particles from flat surfaces with constant high wiping force—for example, from furniture and plastic boards and metal blanks with small variations in thickness up to ± 2 mm, as well as from conveyor belts and deviation rollers.



Effective dust removal

Micro-moistening

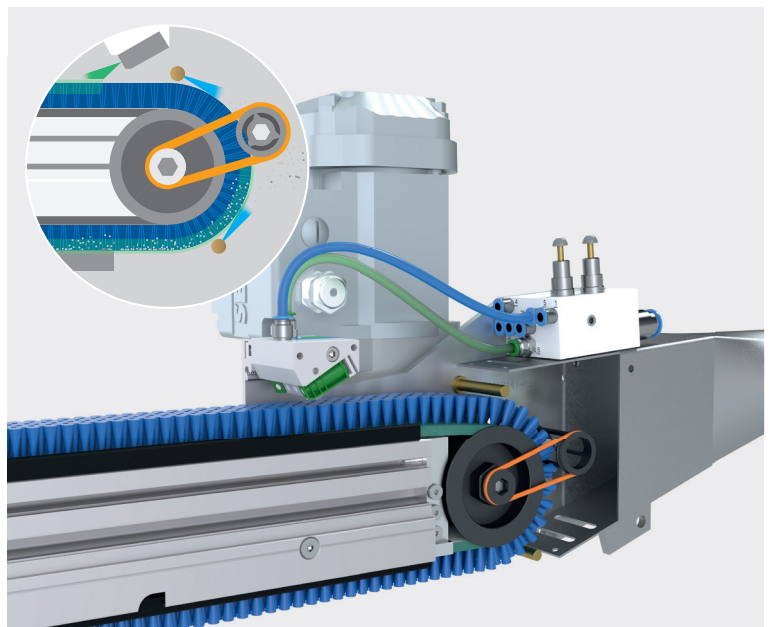
BIX 51 cleaning modules are equipped with the **Ingromat® system**. The sprayer applies a thin film of the antistatic cleaning agent Ingromat® in running direction onto the filament tips of the linear brush. The micro-moistening causes even very fine dust particles to cling to the brush filaments that transport them towards the suction system. The subject surface will remain dry during the cleaning process.



Stable continuous operation

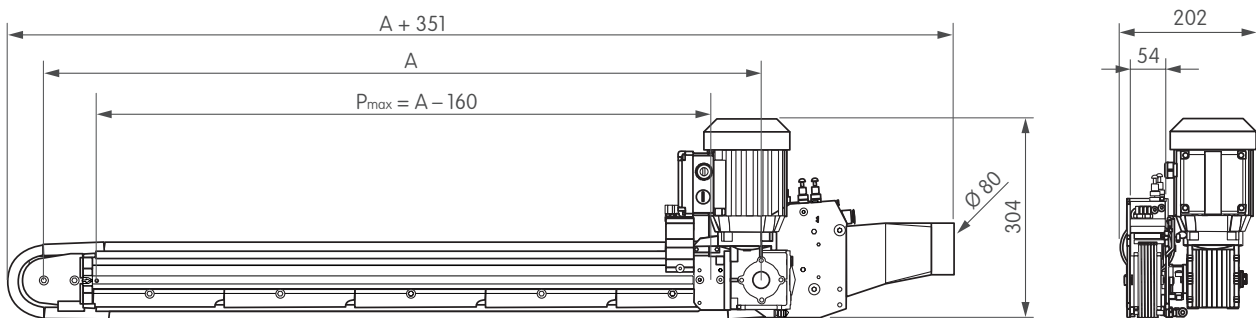
Self-cleaning mechanism

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® BIX 51** 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											
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 50 Hz; Δ 220–240 V; 1.14 A; Υ 380–415 V; 0.66 A 60 Hz; Δ 240–266 V; 1.03 A; Υ 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) filtered (C _p ≤ 5 mg/m³), dry (pressure dew point ≤ 3 °C), oil-free (C _o ≤ 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 330 l/min (at 1.013 bar und 20 °C) with reinforced self-cleaning nozzle											
Suction diameter Sword Brush®					Ø 80 mm											
Suction capacity Sword Brush®					540 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 17 mm; Filament-Ø 0.127 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 – 160 mm											

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



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