

F-Line

Web Cleaner Fox® F



New: Boundary Layer Activation Method

The most efficient cleaning of fast-moving
paper, board and foil webs



Digital brushes



Central extraction system



Pressure buffer



Lifting of linear brushes
at material edges



Without cleaning agent



Self-cleaning mechanism



Adjustment frame

Surface Cleaning Technology

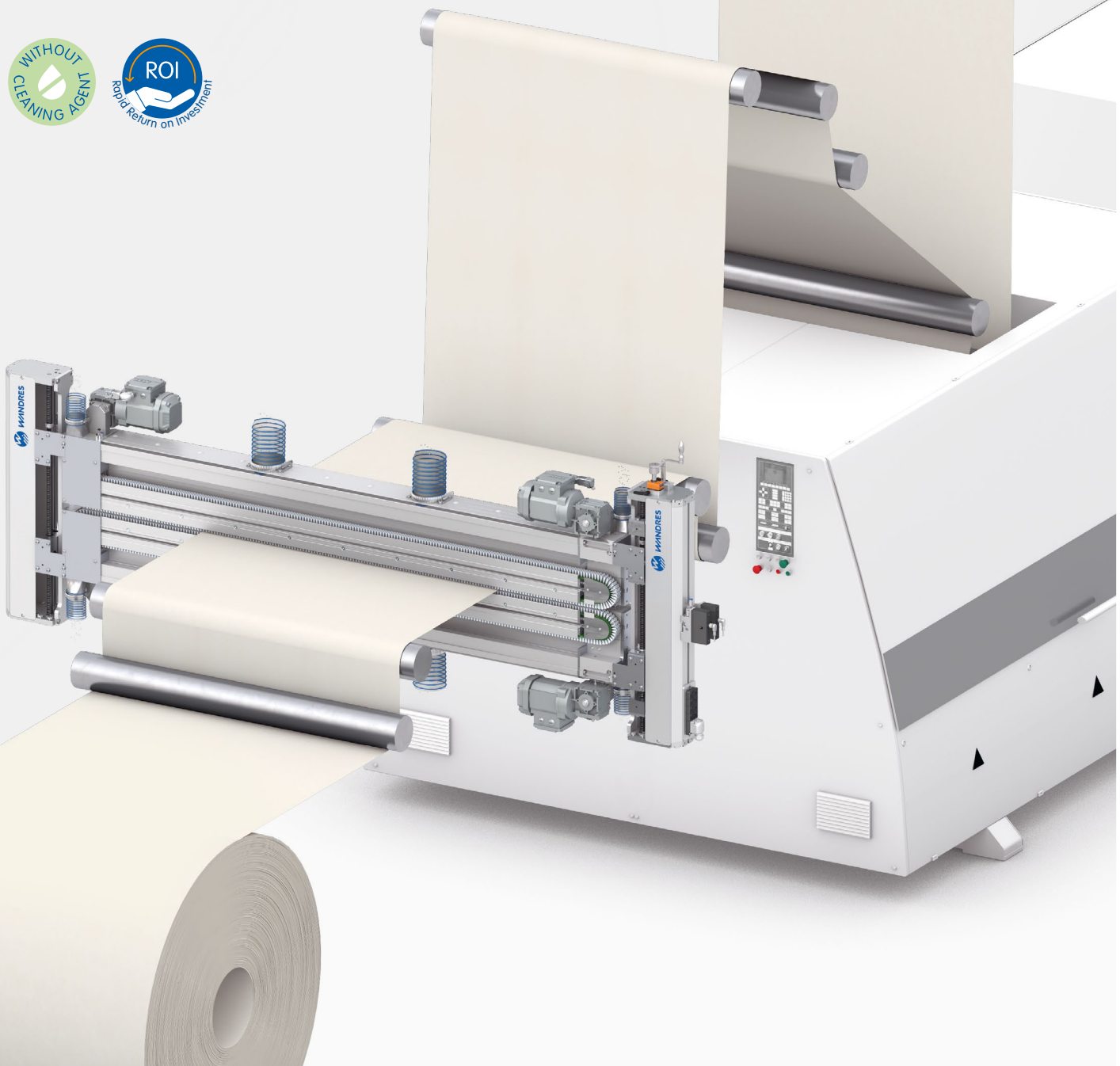


Maximum cleaning performance with minimal consumption

The **Fox® Web Cleaner** cleans web materials from above and below—even at high transport speeds and with heavy paper dust loads. The new Boundary Layer Activation Method (BLAM) is a smart and patented evolution of the proven Sword Brush technology and takes your product quality to a whole new level.

Innovation: Dry cleaning of webs

- Optimal cleaning performance for clean surfaces
- Less printing errors due to contaminating particles
- Less downtimes of the line
- Fast payback and high profitability

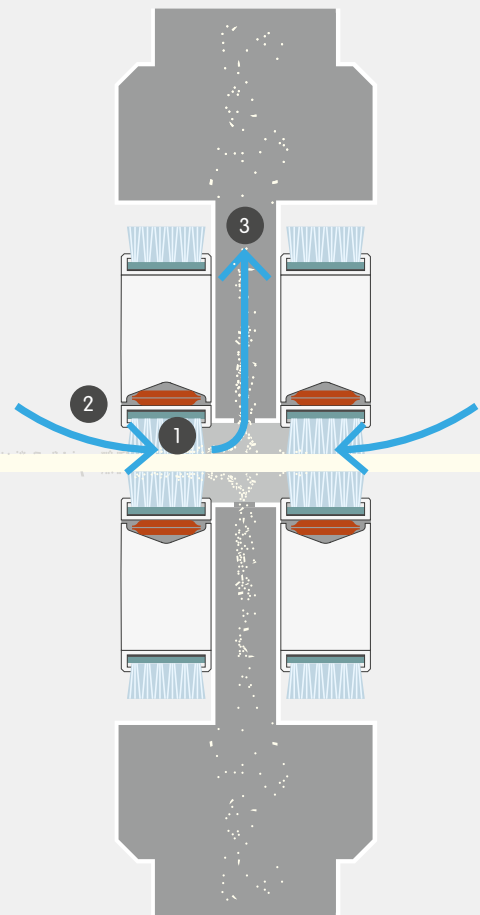


Maximum cleaning performance

Boundary Layer Activation Method

- 1 The **digital brush** penetrates the laminar boundary layer at the subject material surface and thus detaches the dust.
- 2 A precise **jet of air** flows through the digital brush and transports the detached particles towards
- 3 the **central extraction system**, that effectively absorbs all kinds of dust from the production environment.

An updated system of self-regeneration cleans the linear brushes during operation and extracts the particles.

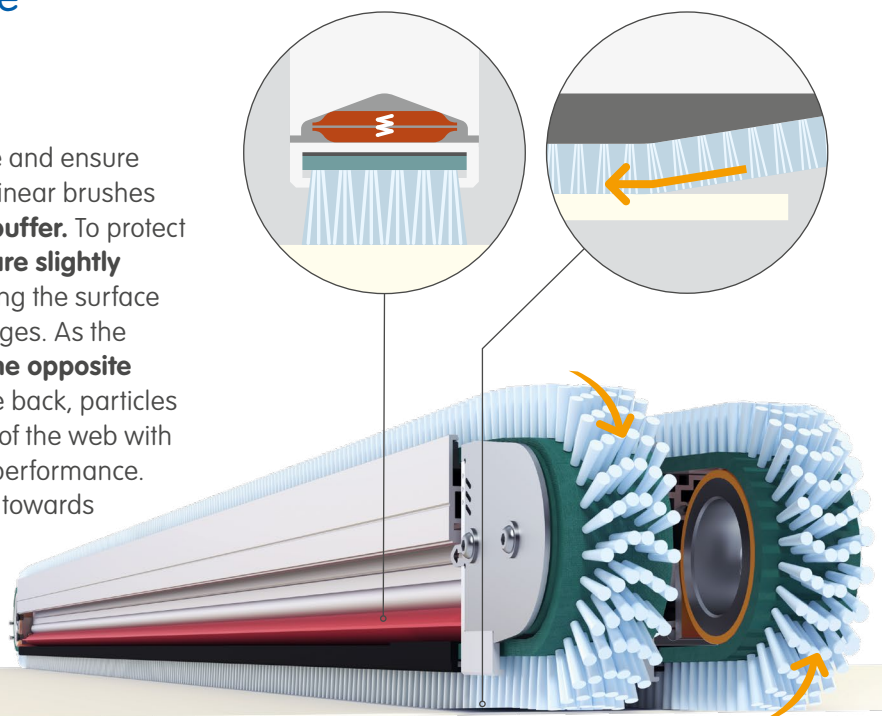


Result: Maximum cleaning performance without cleaning agents—even at high web speeds and with heavy contamination.

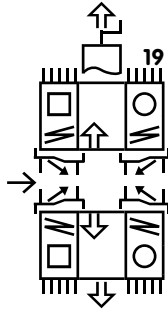
Consistent wiping force

Gentle on the edges

To maintain a consistent wiping force and ensure effective cleaning performance, the linear brushes are mounted flexibly on a **pressure buffer**. To protect the material edges, **linear brushes are slightly lifted** in these areas and start touching the surface only after having passed the web edges. As the Sword Brushes at the front **wipe in the opposite direction** to the Sword Brushes at the back, particles are removed across the entire width of the web with a consistently high level of cleaning performance. In addition, the web will be flattened towards the edges.

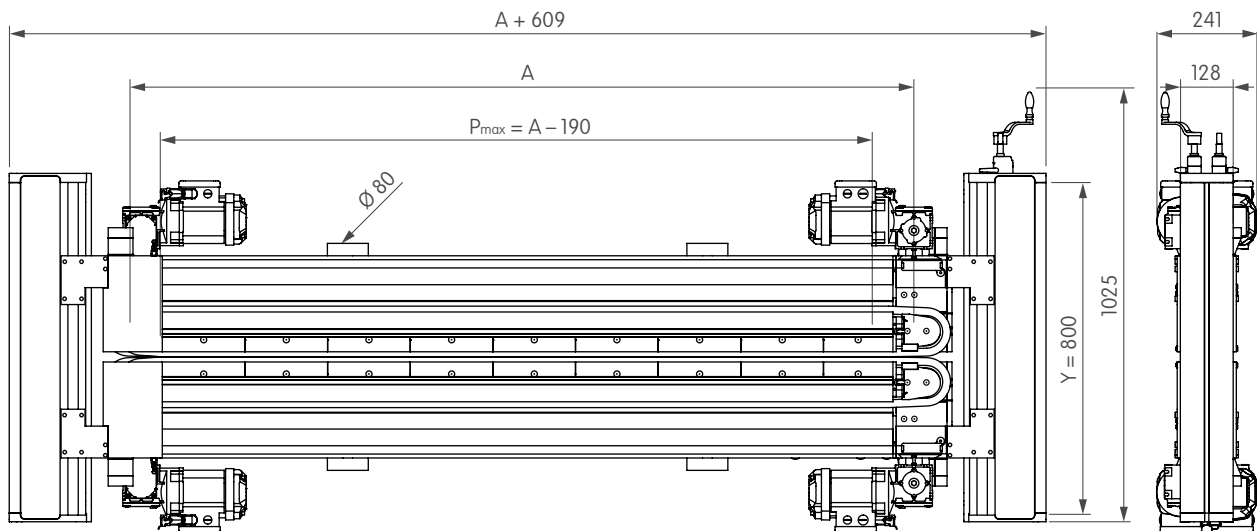


Technical details and important measurements and values



2 x **Fox® cleaning module** with 2 linear brushes each that wipe in opposite directions (Counter Wiping) and compact integrated central suction system

Adjustment frame VEG 25 (Option: electrical height adjustment HVE / pneumatic quick adjustment HVP)



Values in mm

A: Nominal width = Distance between shafts of deviation rollers; Y: Nominal measure of adjustment frame

Nominal width A

650	900	1100	1200	1300	1500	1600	1650	1700	1900	2000	2100	2200	2300	2500	3000	3100*
-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------

* Standard dimensions; larger nominal widths are available upon request

Sword Brush® drive motor	4 x 0.25 kW SEW motor, IP 54, UL compatible, CSA compatible
Compressed air connection	Ø 6 mm plug-in fitting; 6 bar
Compressed air consumption	10 l/min–50 l/min (depending on nominal width A)
Compressed air quality	Purity classes compressed air ISO 8573-1:2010 [6:4:3] at 20 °C; 1 bar filtered ($C_p \leq 5 \text{ mg/m}^3$), dry (pressure dew point $\leq 3 \text{ °C}$), oil-free ($C_o \leq 1 \text{ mg/m}^3$)
Suction Sword Brush®	4 x Ø 60 mm; 4 x 360 m³/h
Suction channel	n x Ø 80 mm; n x 655 m³/h
Number of suction connections n	n = 2 for $A \leq 1200$; n = 4 for $A > 1200$ and $A \leq 2000$; n = 6 for $A > 2000$ and $A \leq 3100 \text{ mm}$
Operating parameter	min. –1000 Pa vacuum
Linear brush	4 x Quadro V6, polyamide 6.12; filament length 19 mm; Ø 0.15 mm
Maximum cleaning width	$P_{\max} = A - 190 \text{ mm}$

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



Wandres GmbH
www.wandres.com