

Best Practice

# Efficient web cleaning for perfect print quality



Surface Cleaning Technology



**WANDRES**  
micro-cleaning

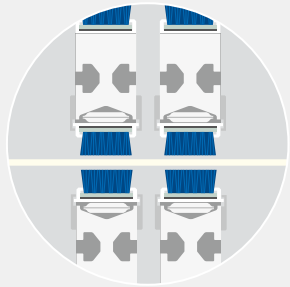
# The challenge of paper dust

## The challenge

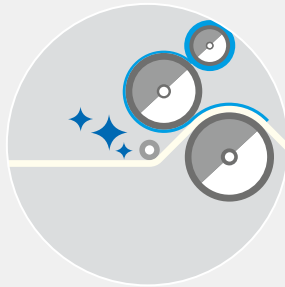
In the printing industry, the quality of print results is of essential importance. Paper dust can cause flaws in the print image, affecting production and leading to high rejection rates. Heavily soiled webs require frequent cleaning of the printing system, which reduces efficiency and results in costly machine downtime.

## The solution

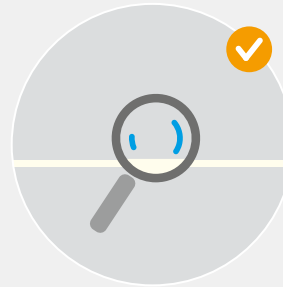
The Wandres Web Sword Brush removes particles and dust from the surfaces of the webs before printing – at impressive web speeds of up to 600 m/min. The compact cleaning system ensures excellent printing results around the clock and an increase in production due to fewer downtimes, resulting in cost savings.



Cleaning



Printing



Quality control

/// I am very impressed with the consistently high cleaning performance of the Web Sword Brush at 600 m/min in our Print Media Center. We have never had any particle-related errors in the print image with our Boardmaster. We can continue production without interruption when changing materials and jobs.”

Jürgen Link, Business Management Packaging, HEIDELBERG



### Best Practice Video

Scan to see  
the Web Sword Brush  
in practice



# Efficient cleaning for excellent printing

The Web Sword Brush gently and effectively cleans the top and bottom of paper, cardboard or film webs with four circulating linear brushes. Paper dust is completely removed and particle-related flaws in the print image are avoided. This significantly reduces the rejection rate and fewer production stops are required for maintenance.

## The benefits of web cleaning

- excellent printing results, non-stop production
- increased quality and fewer claims
- reduction of rejection rate
- increased productivity due to fewer downtimes
- lower material, energy and production costs
- amortization can be achieved within a few months



# Best cleaning technology for printing lines

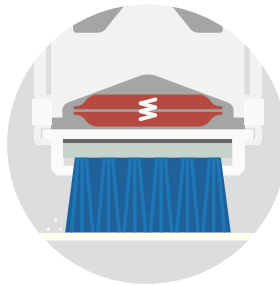
Even at high web speeds, each of the four linear brushes remains in a stable position on the surface and cleans with a constantly high wiping force. The linear brushes are lifted slightly at the edge of the web and run in opposite directions. This protects the web edges and still cleans the entire surface. Micro-moistened filaments pick up paper dust very effectively and are permanently regenerated in the self-cleaning unit.

## The advantages of cleaning technology

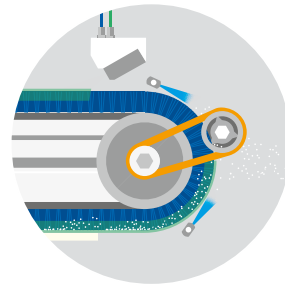
- stable continuous operation 24/7
- suitable for high web speeds
- consistently high cleaning performance
- gentle, effective, complete
- low energy consumption
- may be combined with an air cleaning unit Trans-Vac-Unit TKL (option)



Air cleaning unit



Pressure buffer



Self cleaning unit

# Surface Cleaning Technology

When particles and dust on surfaces cause flaws and rejects during production, we provide the best cleaning technology. Our machines deliver outstanding cleaning results in 24/7 industrial production and are in action all around the world. We collaborate with an international network of sales and service partners in 46 countries and have subsidiary companies in the USA and China.

At our production site, located close to the city of Freiburg in the Southern Black Forest, a team of over 140 employees develops, produces and markets our innovative cleaning machines. More than 80 % of the components for our machines are produced in-house using cutting-edge technology and engineering. A high level of in-house production ensures independence and guarantees short lead times and high quality standards for our clients.



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