

# Best Practice Cleaning before lacquering



Surface Cleaning Technology



**WANDRES**  
micro-cleaning

# Cleaning after intermediate lacquer sanding

## The challenge

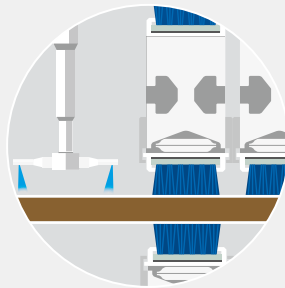
Intermediate sanding of primed surfaces such as doors or furniture panels produces large amounts of fine dust. This fine dust adheres to the surface and remains in grinding grooves. As a consequence, top coatings do not adhere to the surface as they should. This causes a high error rate and time-consuming reworking.

## The solution

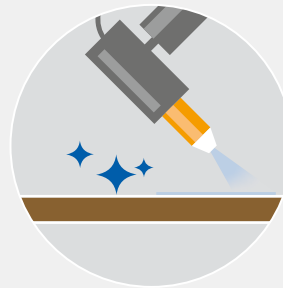
Combi Sword Brushes effectively remove large amounts of fine dust in 24/7 operations. The cleaning system may easily be integrated into the manufacturing process. Cleaning improves surface quality and considerably reduces rejection rates during video inspection.



Sanding



Cleaning



Lacquering



Quality control

# Top quality and low rejection rates

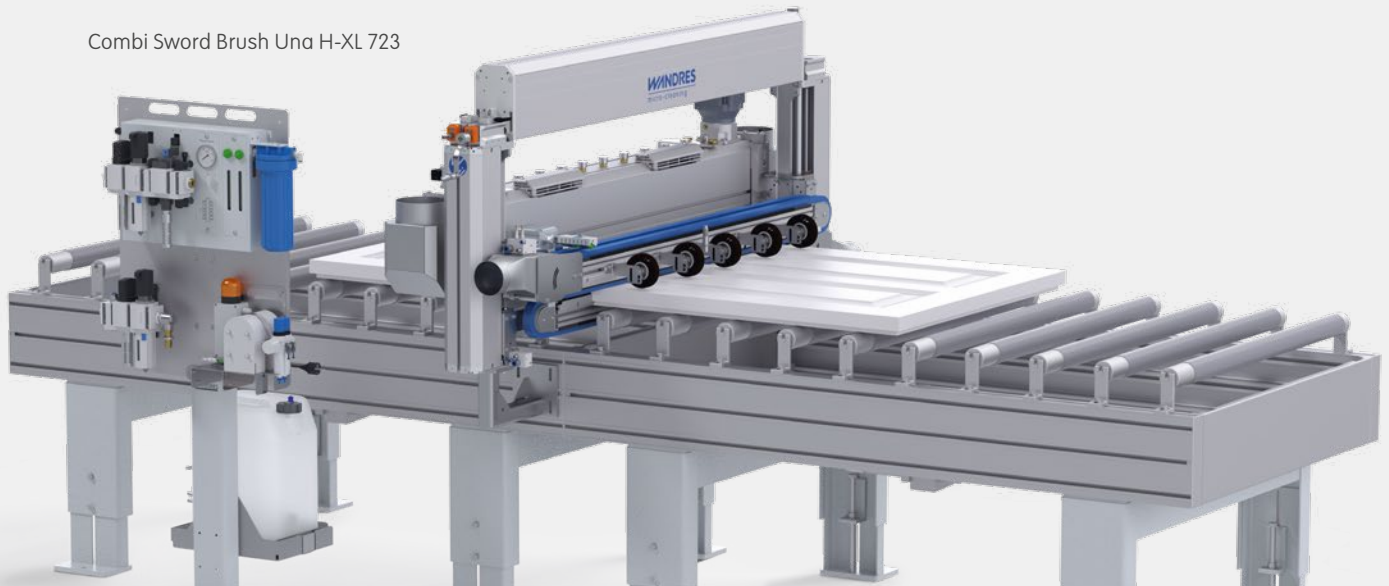
## Cleaning system

At the infeed, a Tornado Channel type TKR 200 absorbs large amounts of particles. Afterwards, a Power Sword Brush featuring two circulating linear brushes removes even the finest sanding dust. If necessary, the lower surface may also be cleaned with a Sword Brush.

## Advantages

- Repeatable results in 24/7 operations
- Significant reduction of particle-related errors
- Excellent topcoat adhesion
- Improved surface quality
- Coating thickness may be minimised

Combi Sword Brush Una H-XL 723

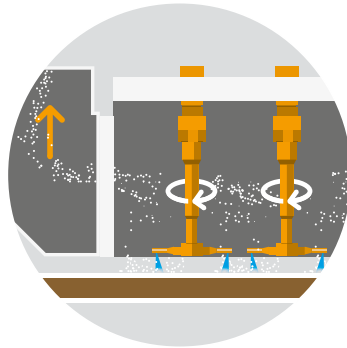


# Patented cleaning technology

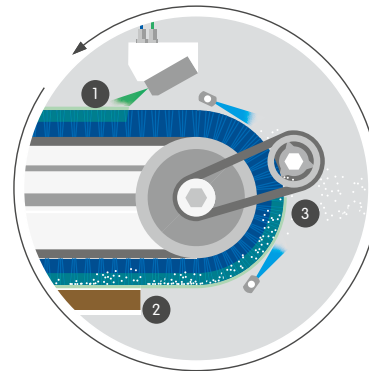
## Combined cleaning process

Electrically driven, fast spinning Tornado nozzles pre-clean the surface without touching it. The Tornado Channel detaches the particles from the surface and absorbs large amounts of dust. Afterwards Sword Brushes absorb the residual fine dust using the Ingromat® system.

① The filaments of the circulating linear brush are micro-moistened with the antistatic cleaning agent Ingromat® and ② clean the material surface. ③ The self-cleaning unit ensures the filaments are constantly refreshed by detaching the particles and disposing of them via vacuum extraction.



Air-assisted pre-cleaning



Precision cleaning with linear brushes

/// Rejection rates during lacquering have dropped considerably. The Wandres cleaning technology allows us to have stable 24/7 processes with repeatable results.

Manfred Backes, Project manager at Prüm Türenwerke GmbH, Germany



**Best Practice Video**  
Scan to see Combi Sword  
Brush in action



# 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 im Breisgau, 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 we remain independent and guarantees short lead times and high quality standards for our clients.



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