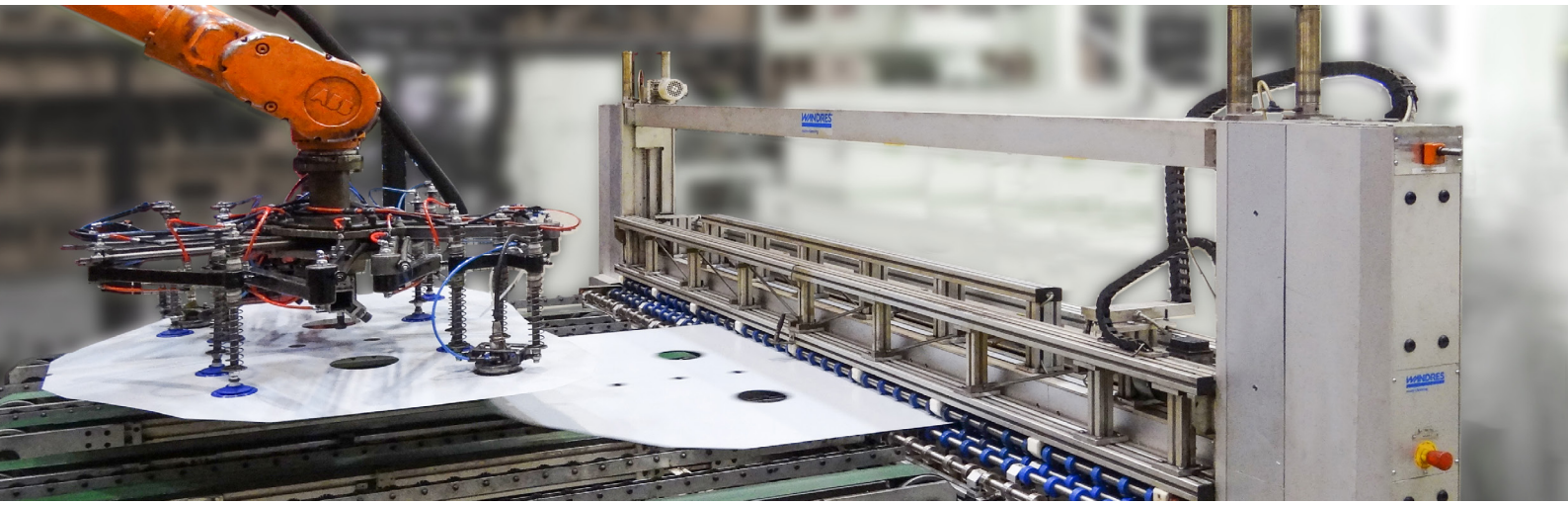
Car body parts made of steel and aluminium
voestalpine Automotive Components Schwäbisch Gmünd GmbH
Sources: German trade journal BLECH 07/2016

BEST PRACTICE

Cleaning of body skin parts at the infeed of the press

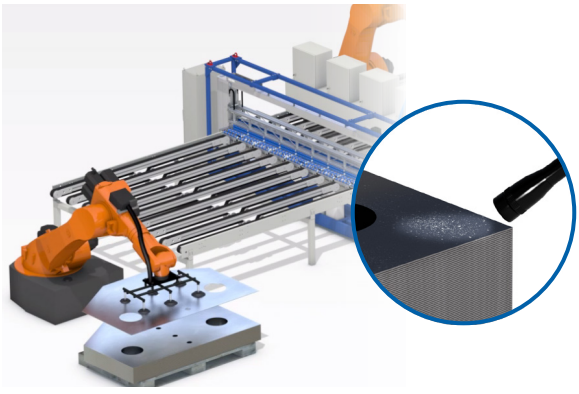


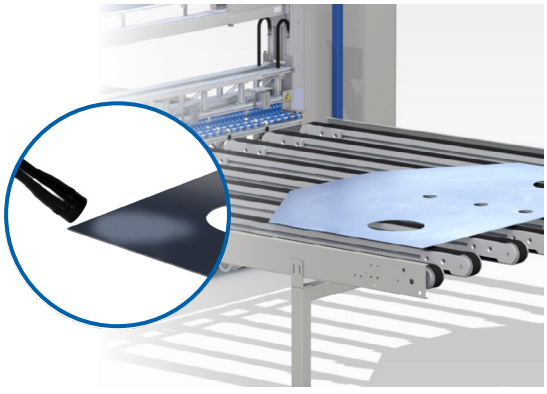
Starting position

- Substantial maintenance efforts in running of blank washing machines
- Remaining particles cause indentations and damages at squeezing rollers
- Hot melt lubricants hamper cleaning of aluminium blanks
- Residues of washing emulsion on blanks

Result

- Constant cleaning quality with minimum maintenance efforts
- Removal of even the tiniest particles
- Alternation between steel and aluminium no problem
- Homogenization of basic lubrification





Customer's opinion

"Right from the beginning, we were very happy with the cleanliness of the blanks after the Wandres cleaning system. Regarding today's requirements, washing machines do not seem to be the up-to-date solution. On the contrary, the brushes completely meet with these requirements. Furthermore, maintenance efforts for washing processes by far exceed the efforts that are necessary for the brushes."
(Daniel Seiz, press shop manager)

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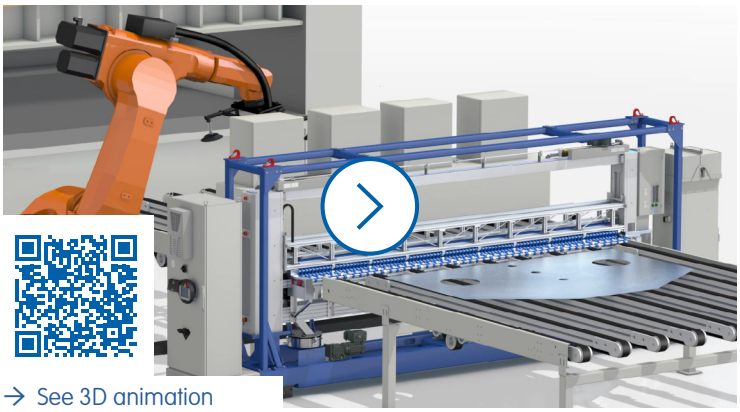
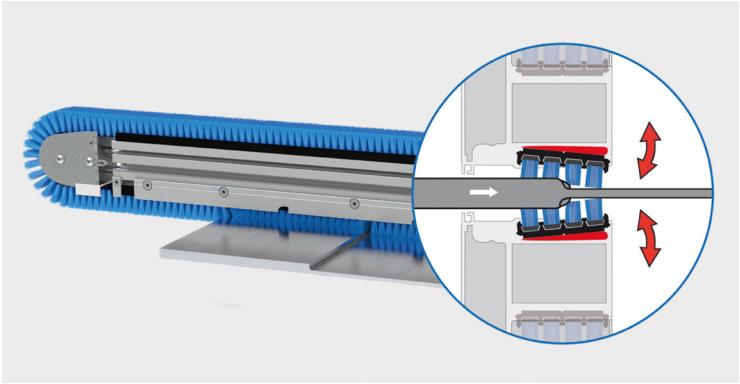
Evomat® EVO 500: Blank cleaning with transport system



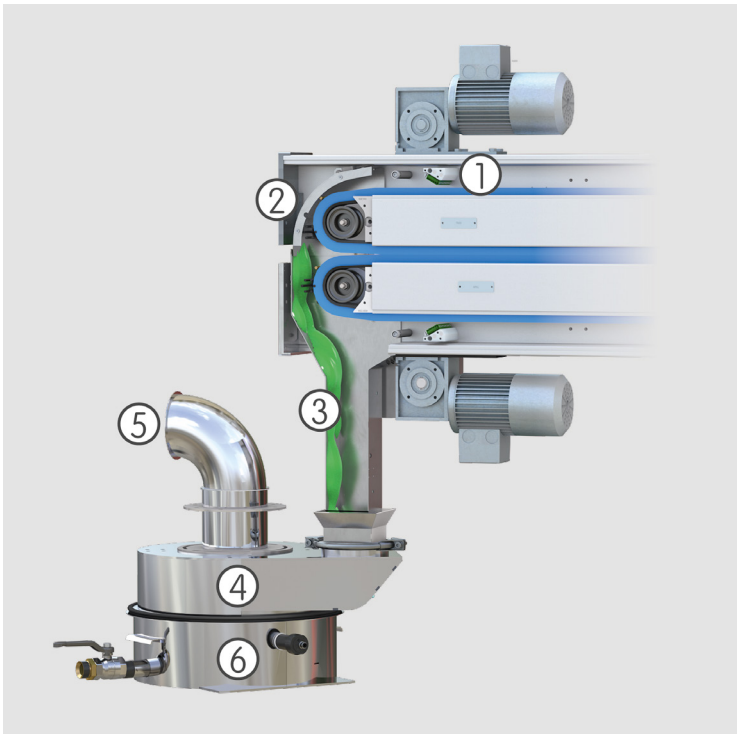
→ See 3D animation

- Constant cleaning results for continuous operations
- Suitable for dry lubes
- Sword Brush technology requires little maintenance
- Small blanks are kept in place during transport process



Flexible adjustment to blank thickness

The contact area of the Sword Brushes is mounted on a pressure buffer that is controlled pneumatically. This enables the Sword Brush to automatically compensate different blank thicknesses. Even tailored blanks can be cleaned effectively, the brush pressure on the surface will remain the same.



Ingromat® system

Brush filaments are micro-moistened **(1)** with the anti-static cleaning agent Ingromat®. This permits absorption of minute particles and prevents the clogging of the brush filaments with waxen lubricants. The self-cleaning mechanism **(2)** detaches the particles from the filaments again and propels them towards the suction system.

Separation of lubricants

Oil and lubricant residues are made flowable **(3)** by heating the suction ducts. A cylcone **(4)** separates these residues from the suction flow **(5)** and transports them towards a special container **(6)**.

WANDRES micro-cleaning

www.wandres.com

Germany +49 7661 9330-0 | sales@wandres.com

USA +1 734 214 9903 | sales@wandresusa.com

China +86 21 68520069 | china@wandres.com