B-Line

Blank Cleaner
Evomat® EVO501



Cleaning of steel and aluminium blanks for stable forming processes

- Cleaning at the speed of production
- Simple alternating operation aluminium / steel
- Precise transport of the blanks

Surface Cleaning Technology

WANDRES

Evomat® EVO501 perfectly cleans blanks before forming in the press line

- Consistently high cleaning performance
- Protection of forming tools
- No particle indentations in the blanks
- Alternating use of aluminum and steel is possible
- Low maintenance, low operating costs
- Rapid return on investment

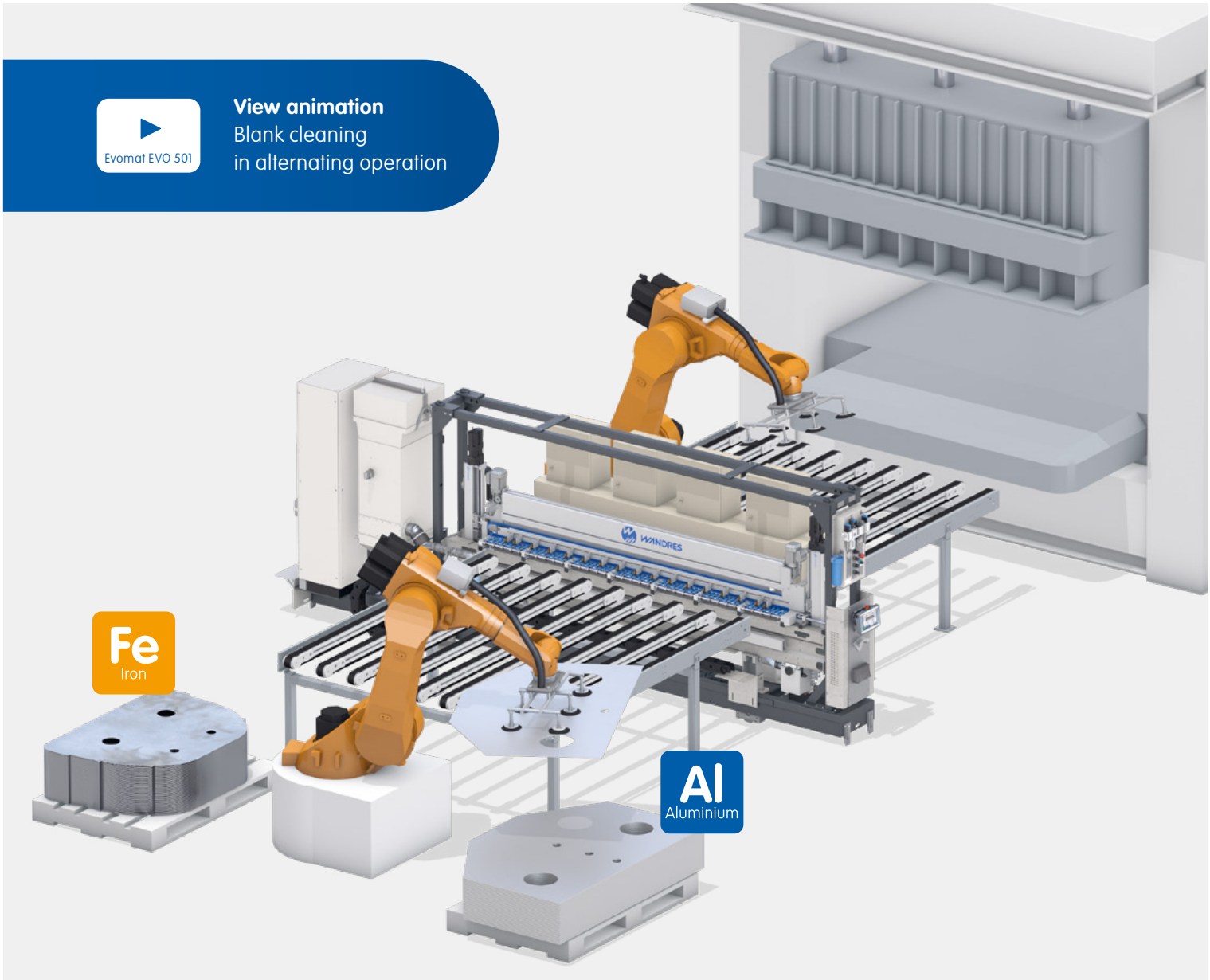
The **Blank Cleaner Evomat® EVO 501** sets new standards for blank cleaning in modern automotive production press lines. It efficiently cleans body skin parts and structural parts before forming—even at high speeds—and creates the foundation for stable forming processes and high-quality body parts.

All-in-one cleaning system

Due to its compact design, this blank cleaner can be easily integrated into existing press lines. Further to the blank cleaner, the all-in-one cleaning system comprises a conveyor system, a robust frame with chassis, a suction filter, a control cabinet and a touch panel.

Easy alternating operation

The Blank Cleaner cleans both oily steel blanks and aluminium blanks coated with dry lubes. Cleaning is effected from above and below. To make dry lubes flowable, a **thermal self-cleaning unit** can heat the



suction and deviation areas. A short regeneration cycle with the cleaning agent Ingromat® allows a transition between the cleaning of steel and aluminium blanks.

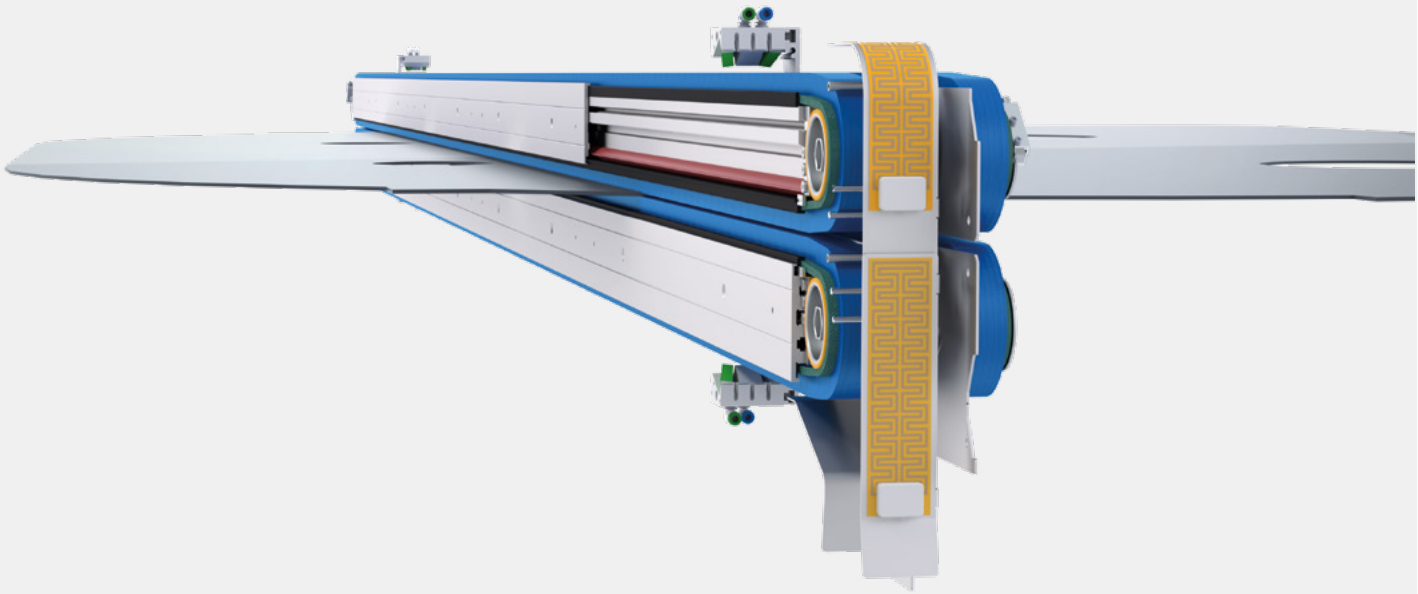
Precise transport of the blanks

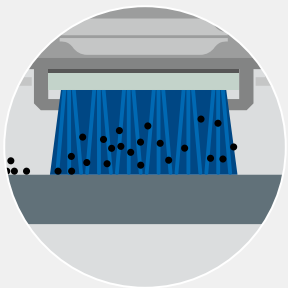
Counter Wiping—the opposite wiping direction of the front and rear Sword Brush®—keeps the blanks on track and ensures their precise transport on the conveyor system. Double pressure rollers safely guide the blanks to the cleaning unit. There is no need for complex conveyor systems.

Consistent cleaning quality

Four **linear brushes** remove particles from the upper and lower surface of the blanks. The suction system absorbs these particles thus removing them permanently from the production environment. Wandres manufactures the linear brushes in its plant in the Black Forest following strict quality criteria.

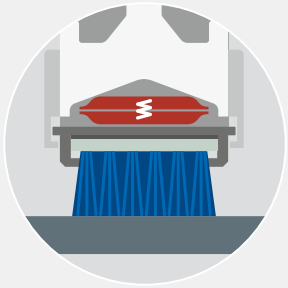
Integrated pneumatically regulated **pressure buffers** ensure a constant pressure of the linear brushes on the blank surface. The result is perfect cleaning over the entire blank. The **self-cleaning unit** regenerates the linear brushes on a permanent basis and provides for reproducible cleaning results.





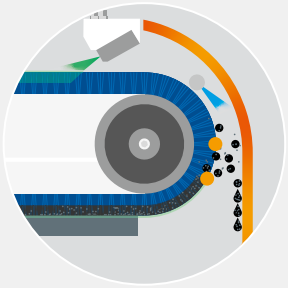
Sword Brush®

The linear brush rotates around the sword-shaped profile. Particles are bound to the filaments and removed.



Pressure buffer

The four linear brushes are flexibly mounted. This ensures that the wiping pressure on the blanks and the wiping force remain constant.



Self-cleaning mechanism

To achieve reproducible results, the linear brushes are continuously regenerated. Dry lubes become flowable when heated.

Blank Cleaner Evomat® EVO501
All highlights at a glance



Sword Brush® made in the Black Forest

Perfect double-sided cleaning of blanks with four long-lasting linear brushen



Counter Wiping

Stable positioning of the blanks and improved cleaning performanc



Self-cleaning mechanism

Regeneration of the linear brushes, optionally with heated channel for dry lubes



Pressure buffer

Provides for a constant pressure of the linear brushes and consistent cleaning results



Height adjustment

Precise adjustment to blank thickness and quick adjustment in crash situations



Rotation monitoring sensor (option)

Detects faults and signals them to the control system, thus ensuring process stability



Crash indicator (option)

Detects faults, e.g. protruding edges, and signals them to the control system so that collisions are avoided



Driven chassis (option)

Allows the cleaning system to be easily removed from the line, e.g. for maintenance purposes



All-in-one-System

Includes all important components in one single machine—easy to integrate, efficient and ready for use

Wandres GmbH · Im Gewerbepark 8 · 79252 Stegen · Germany
www.wandres.com

Folder_EN_261013_Evomat_EVO_501