



WASHING MACHINES FOR BLANKS AND COILS



smt | The Company

SCHLEIFSTEIN Maschinentechnik GmbH (**smt**) is the pioneer for the wet-cleaning and precise oiling of blanks and coils prior to the forming process, and develops and manufactures cleaning systems for press lines and coil lines for the automotive industry and similar applications for more than 40 years.

In recent years, **smt** has developed from a specialist in blank cleaning and lubrication to an automation specialist for blank destackers. For the customer it means that the automation is from a single source or that single machines can be individually tailored to the needs, and integrated in the systems in a coordinated manner.

smt | Wet-Cleaning in the Press Shop

The Washing machine WEB from **smt** is used where blanks and coils with different levels of soiling and basic oils must be cleaned prior to the forming process or further processing.

Constant cleaning performance and a defined amount of residual oil prevent downtimes and reduce costs in subsequent operations.

Depending on the requirements, washing is carried out with a washing oil, with water-based emulsions or, for certain applications, only with hot water for complete degreasing.

Pinch rolls, brushing rolls and squeezing rolls are available in different quality and numbers, depending on the machine type and customer requirements. The WEB is available for coil and blank widths from 500 mm to 5,000 mm with different design levels and options.

In version V, the machine has only one pair of squeezing rolls, while version Ia has 2 pairs of squeezing rolls, coated with non-woven fabric, for high cleaning and squeezing results (residual moisture < 1g/m²).



smt | Washing Machine WEB

Working principle of the smt Washing Machine WEB

The supplied material, blank or coil, is fed into the machine via a pair of pinch rolls. The surfaces are then sprayed with a swirl of washing medium. The high volume flow loosens and rinses off the dirt particles.

Brushing rolls rotating in the opposite direction to the material flow, complete the mechanical cleaning effect and ensure a turbulent swirling of the washing medium on the material surface.

After brushing, the blank or the strip is flooded again from both sides with the washing medium. Then, depending on the design, one or two pairs of squeezing rolls squeeze the medium off the surfaces. The material leaves the washing machine optimally cleaned and with a fine, homogeneous film of medium on the surfaces.

The smt Washing Machine WEB has the following advantages and features:

- Homogeneous film of medium after cleaning
- Excellent cleaning result due to high quality pairs of rolls
- Working speed (> 3m/s)
- Condition Monitoring
- Comfortable and state-of-the-art operation
- Easy integration in new installations and existing press lines
- Different tank- and filter options according to customer requirements
- Separate Main-Flow-Filtration and Bypass-Filtration available
- Integrated tank heating for homogeneous washing media supply
- Integrated oil mist separator
- Traversing units, motorized on rails
- Different passing heights
- Different roll configurations according to customer requirements
- Large roll diameters for increased pressure distribution and cleaning performance
- Complete rolls from our own production for optimal machine functionality
- Optional: upper machine frame incl. upper rolls are motorized liftable by approx. 500 mm

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