

**smt supplied 2 blank washer units WEB 42 V+ with a separate double tank & filter station for an US OEM automotive manufacturer in Detroit**

15.11.2020 smt

**smt** was awarded with two separate orders by an automotive OEM in Warren-Detroit to install new blank washer units within two 180"- press lines. Both orders were delivered some weeks ago and the installation has already been started yet. The complete order includes, besides the washer, also a double tank & filter-station to install in the basement, the electrical connection and integration into the existing destacker, as well as some mechanical features on the Washer machines itself. For better maintenance access, the upper housing can be lifted up for 500 mm. This means, the complete upper part including the rolls and drives for feeding, brushing and squeezing are in a separate assembly group, raised by spindle drives. The washer was specified to use a water-based emulsion for cleaning the blanks, which requires a complete device in stainless steel for housing, tanks and fixtures. At least a bypass conveyor was included for the washer offline position outside the line to bridge the gap from the destacker to oiler. All machines are positioned on tracks to move in and out by using a VFD-drive motor.

Both complete blank washer and the tank station were assembled and commissioned in **smt** plant in Siegen.



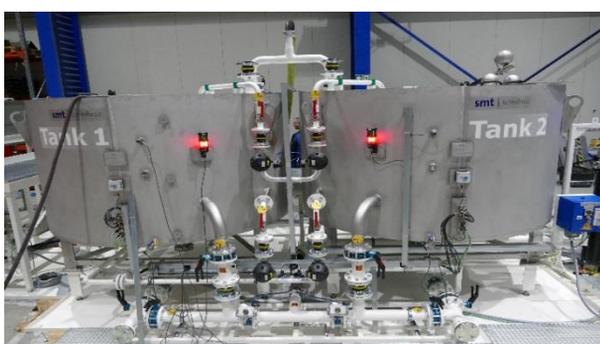
- **smt** blank washing machine WEB 42 V+
- Designed for max. blank sizes of 4.200 x 2.000 mm on a 180" press size
- Housing all in stainless steel



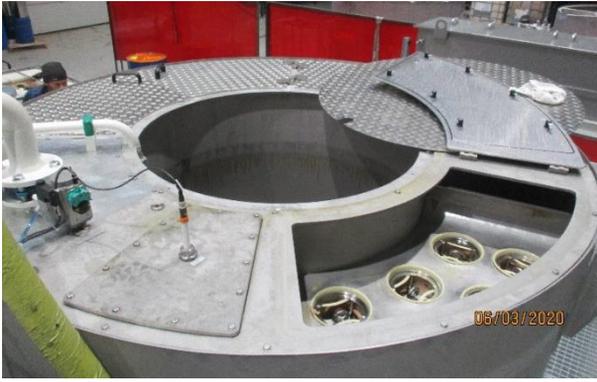
- **smt** split top design with 500 mm lift stroke
- Upper frame and housing can be fully open for an easy access to the rolls, spray bar and inner parts
- Opening by means of a spindle gear drive system and hydraulic indexing bolts



- **smt** blank washing machine installed on site
- Control cabinets are located on the mezzanine



- **smt** tank & Filter station, with 2 independent round tanks in stainless steel
- Placed in the press pit
- Incl. several filter units and stages for the washing emulsion
- Skimmer
- DPS-cleaner with waste oil separators
- UV-device for the water-based liquids
- Double cartridge filters



- Tank with flow chamber and filter stage incl. filter bag inlays with magnetic separator devices
- All chambers are covered
- Tank volume around 3.400 liter each

The main components of the supplied equipment are:

- **smt** blank washer WEB 42 V+
- Washer housing in stainless steel
- Upper rolls liftable by split top design for around 500 mm fully opening
- Controls integration into the destacker controls and HMI by BoschRexroth PLC controls
- Separate **smt** double tank & filter station
- Easy accessible main filtration bags with integrated magnetic separators
- All level switches, level sensors and indicating sensors connected to the main HMI
- **smt** bypass conveyor for the washer offline position
  - Bypass conveyor with roundbelt transport lanes
  - Movable on tracks with use of a gearmotor
- Washer, tank & filter station and bypass conveyor controlled by separate hand pendant for maintenance and setup mode
- Commissioning and buy-off in **smt**-plant in Siegen

For further information and any questions, please do not hesitate to contact our team on +49 (0)271 7751 212 or by email [m.stahlberg@schleifstein.de](mailto:m.stahlberg@schleifstein.de).

**Further products of **smt** | Schleifstein:**

Automotive Industry:

- Spray Lubrication Systems SLS
- Dry BrushCleaning Systems CBC
- Conveyor technology w/ magnet- and/or vacuum belt lanes in different configurations
- CrossBrush-Aggregates and SwordBrush-Units for several applications
- Automation systems
- Pallet Carts / Destacker Carts with fanner systems, magnets and pneumatic separators
- Separate Fanner station equipment
- Destacker retrofit
- Hot forming application incl. press and transfer automation

Forming Technology:

- Presses and automation for tankhead manufacturing
- Shipbuilding presses
  
- Special machine building
- Engineering

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