

...die Spezialisten für Ihre Reinigungsansprüche Oberflächentechni



Oil sensor hand set



General machine data:

Machine type: Process Control Unit Libelle

Machine no.: 30013

Measuring cells: 1 + 1 Sensor for the assessment of bonding

Memory for measuring data: 30 GB Data collection interval: 4 sec.

Details of the cleaning unit:

Machine type: DAD-2 BL/600/150/6.900

Maschine no.: 2254

Washing medium: H₂O + 3% alkaline chemistry

Medium temperature: 65°C

Tanks: 2

Tank volume: each 1.500 l Spraying pressure: 2,5 bar / 2,0 bar Conveyor capacity: 22m³/h / 11m³/h

Registered contamination:

→ Oil

Particles

Equipment:

- → One measuring cell for optical control of contamination of the cleaning medium
- Oil sensor as hand set for the assessment of oily surface contamination of the washed components as rate for the applicability of bonding of the surface
- Installation of the analyze unit in the control cabinet

Request of result:

The washing medium should be continuously controlled in the process. If the process parameters do not lie in the specified tolerances an alarm message is displayed.

Process description:

During the cleaning process the washing medium is taken out of the pressure line and conducted through the measuring cell. In the measuring cell the Libelle analyzes the liquid and calculates the pollution degree from the change in terms of color of the medium. After the cleaning process the operator has the opportunity to check the components with the hand set for cleanliness and therefore the applicability of bonding. The collected process data is stored on the system and is available for later purposes of documentation.



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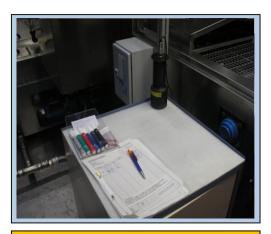
Pic. 1: Operator on checking a component; LED signalizes too high surface contamination



Pic. 2: Indication of the current process status in the control cabinet



Pic. 3: Measuring cell for analysis of medium in the washing tank



Pic. 4: Measuring booth for registration of the component cleanliness



Pic. 5: Hand set for control of the component cleanliness