

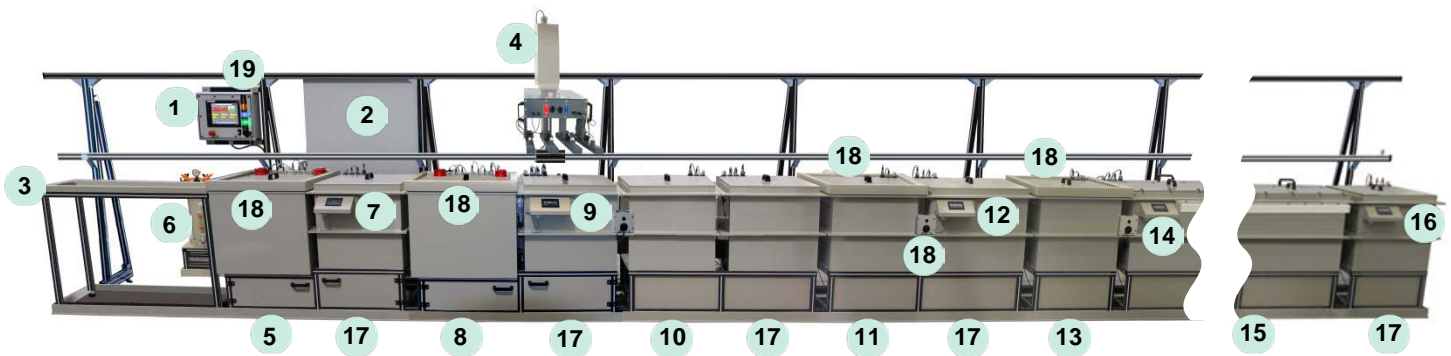
Pre-Treatment Plant VBA 6-355/455/D45

The Pre-Treatment Plant serves for cleaning and preparing the steel blanks of dental burrs, grinding pins and small tools prior to the subsequent electro-plating process. Without the appropriate pre-treatment, the parts can't be correctly electro-plated with the abrasive layer.

Pre-treatment comprises two warm-process baths: preliminary degreasing and electrolytic degreasing; 3 cold-process baths (decapation, activation and Nickelstrike), an active-keeping buffer (for temporary storage of the pre-treated parts which are not immediately electro-plated) and the intermediate rinsing baths.

The parts are transported – after having been mounted onto the appropriate electro-plating fixtures – from one bath to the next by means of a transport cart with a built-in lifting and lowering installation.

Setting of the process and bath parameters is done by means of a Touch screen operator terminal. For process control, the appropriate process control panels are provided on the individual process baths.

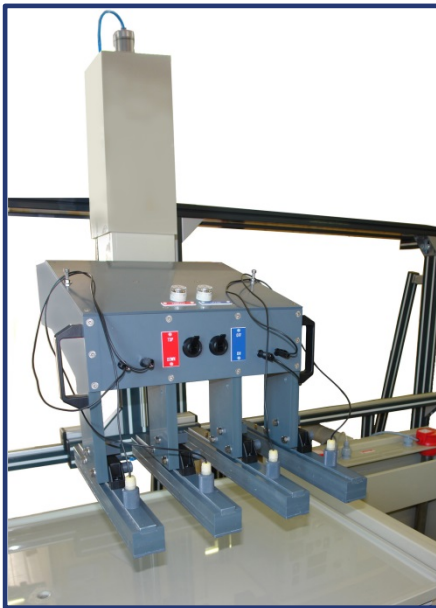


Note: All illustrations are examples.

The product may vary from the illustration.

The system shown is a type VBA 5-D45 plant with preliminary degreasing and electrolytic degreasing.

1. Process bath control PBS-845/001
Including Touch screen operator terminal for process control and programming:
 - Temperature
 - Current
 - Voltage
 - Process time
 - Heater cycles
2. Electronics cabinet (service access on rear side)
3. Loading station for fixtures
4. Transport carriage for contact fixtures including lifting and lowering installation
5. Warm-process bath (Preliminary degreasing)
6. Oil separator for preliminary degreasing
7. Process control panel for preliminary degreasing
8. Warm-process bath (Electrolytic degreasing – anodic/cathodic; polarity reversible)
9. Process control panel for electrolytic degreasing
10. Cold-process bath (Decapation)
11. Cold-process bath (Activation)
12. Process control panel for activation
13. Cold-process bath (Nickelstrike)
14. Process control panel for Nickelstrike
15. Cold-process bath (Active-keeping buffer)
16. Process control panel for active-keeping buffer
17. Standing sink (5 pcs)
18. Rim exhaustion (4 pcs)
19. Signal light column



Transport carriage with lifting and lowering installation with four contact fixtures in place

Technical data:

- Bath volume: appr. 173 l each; active-keeping buffer: appr. 745 l; Standing sinks: appr. 173 l each.
- Bath temperature: max. 80 °C (preliminary degreasing); max. 60°C (electrolytic degreasing bath); room temperature (all other baths)
- Dimensions (L x W x H): appr. 12620 x 1320 x 3220 mm
- Power ratings: appr. 15 KVA, 240 V, 80 A
- 2 warm-process baths, of PP, heat insulated
- 3 cold-process baths, 5 standing sinks, 1 active-keeping buffer of PP; pipes of PP
- 2 centrifugal pumps to circulate the degreasing baths
- Transport system for contact fixtures with 2 guide rails and 1 transport carriage
- Rim exhaustion for process baths (connection to fan,, DN 75 mm)

Optional:

- Level stabilisation of process baths
- Flow-standing sink technology in the rinsing baths



The design of the screens, functions and operational languages can be adapted to the customers' specifications.



Pre-set and monitoring of the process and bath parameters by means of the Touch screen operator terminal (PBS-845/001 control)