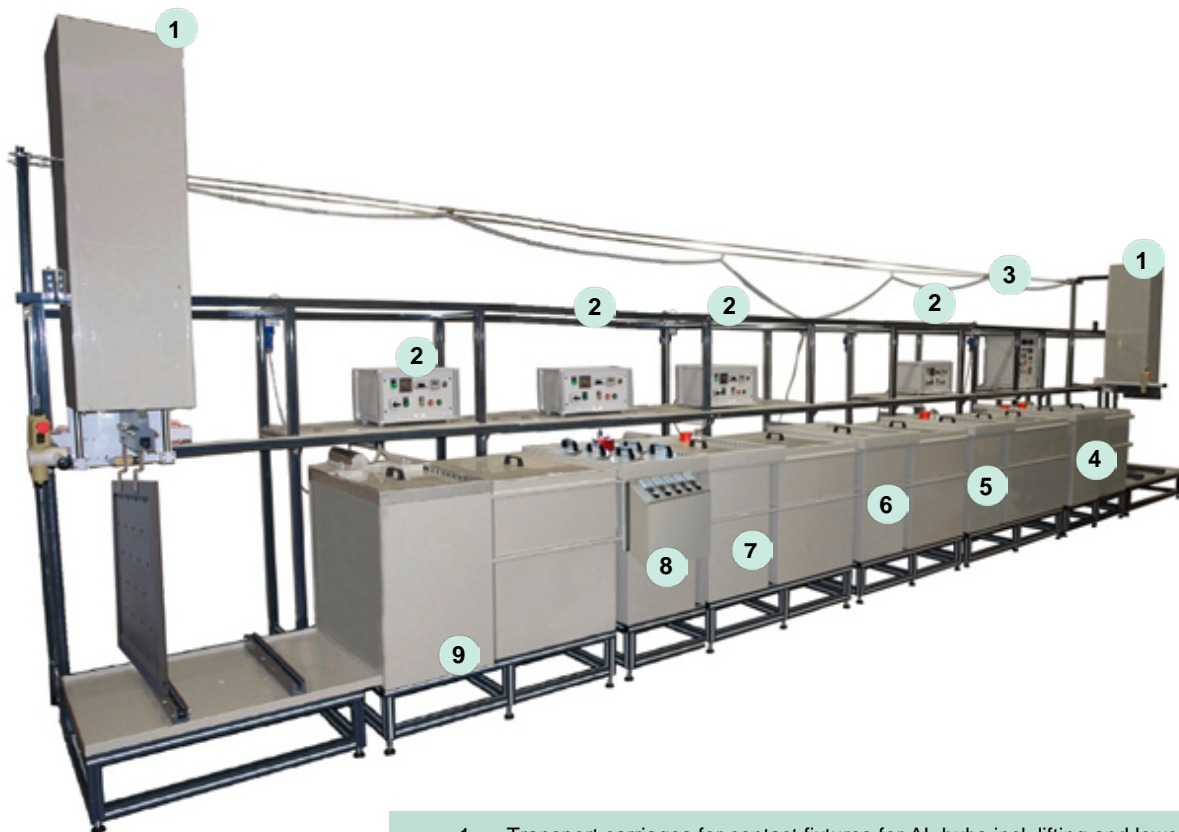


Pre-Treatment Plant VBA 5-DPW/AL-XXX

The pre-treatment plant serves for cleaning and preparing grinding tool blanks made of aluminium 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 4 warm-process baths (degreasing, AL-pickling, zincate-pickling, nickel deposition), 1 cold-process bath (clarifying) 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 two transport carts with lifting and lowering installations. Furthermore there is an etching station for the final processing of dicing blades.



1. Transport carriages for contact fixtures for AL hubs incl. lifting and lowering installation (2 pcs.)
2. Heater control HS 501-01/15-1-XXX (4 pcs)
-Temperature
-Process time
-Heater cycles
3. Electro-plating control DBS 10A-10/XXX
-Temperature
-Voltage
-Process time
-Current
4. Pre-treatment unit VBE 2/40-70-70/005 (Nickel deposition)
5. Pre-treatment unit VBE 2/40-70-70/004 (Zincate pickling)
6. Pre-treatment unit VBE 2/40-70-70/003 (Clarifying bath)
7. Etching station
8. Pre-treatment unit VBE 2/40-70-70/002 (AL-pickling)
9. Pre-treatment unit VBE 2/40-70-70/001 (Degreasing)

Technical data:

- Tank volume: Process tanks: appr. 175 l each; degreasing 168 l; standing sinks: appr. 108 l each
- Bath temperature: max. 60°C (warm-process baths); room temperature (cold-process bath)
- Dimensions (L x W x H): appr. 9620 x 1320 x 3220 mm
- Power ratings: appr. 12.5 KVA, 230 V, 19 A
- 1 degreasing bath, heat insulated, of stainless steel
- 3 warm-process baths, 1 cold-process bath, 5 standing sinks, 1 etching station of PP
- Pipes of PP
- 4 centrifugal pumps for circulation of warm-process baths
- Transport system for contact fixtures consisting of guide rail and 2 pcs. transport carts
- Rim exhaustion for process baths (connection to fan, DN 75 mm)