

Diamond electro-plating plant DBA X-355/455

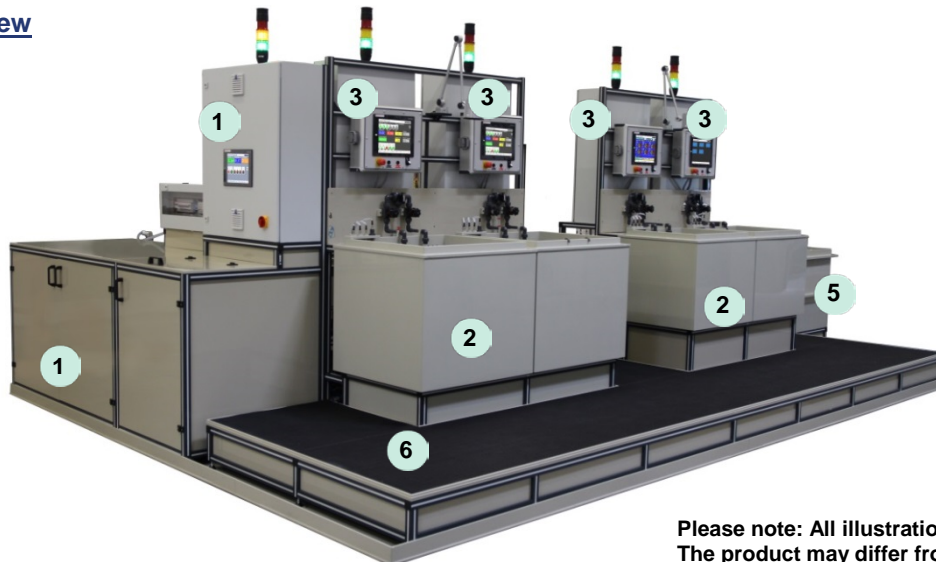
For the production of diamond or CBN electro-plated tools with steel blanks.

The blanks are electro-plated with the abrasive grits using the appropriate fixtures. All three process steps (pre-nickel, diamond tackdown and finish nickel) are carried out in the same tank. Several electro-plating stations allow for simultaneous processing of different tool types.

The system can comprise up to 10 electro-plating stations according to customers' specifications.

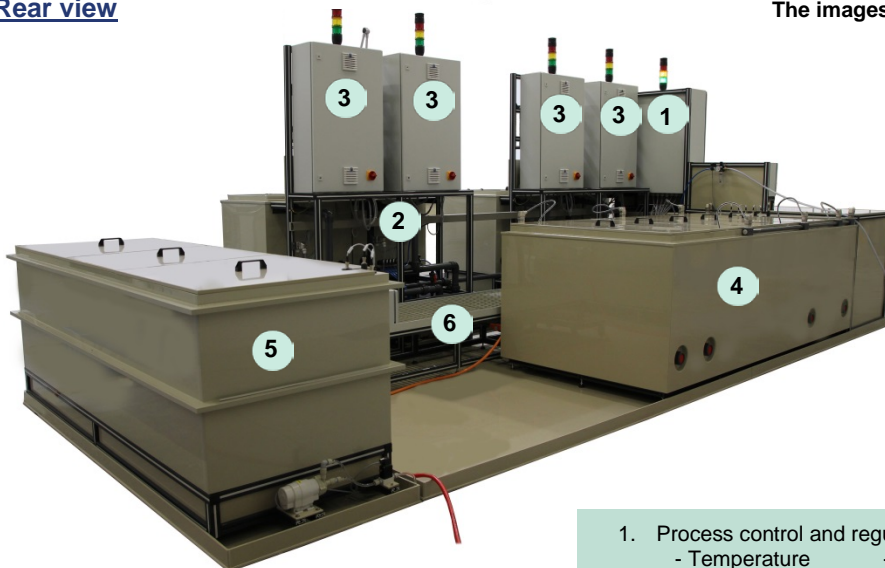
The PRS unit is for stabilisation and consistency of the process parameters. Electro-plating is carried out and monitored from the electro-plating control panels (DBS). All control panels are equipped with a Touch screen operator terminal; these can be adapted for language and customer-specific functions.

Front view



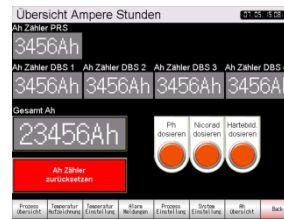
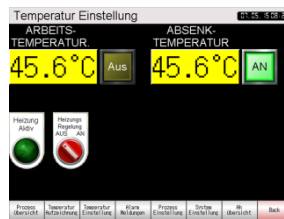
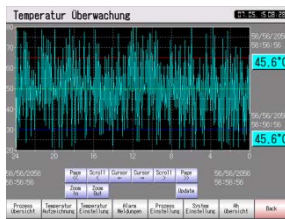
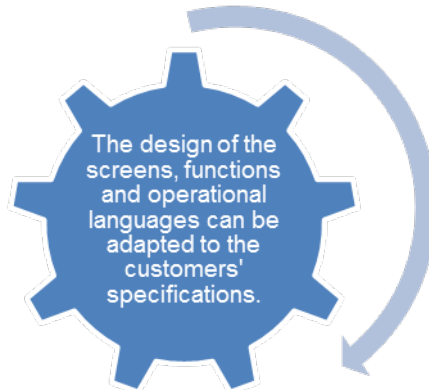
Please note: All illustrations are examples.
The product may differ from the illustrations.
The images show a DBA 4-455/002.

Rear view

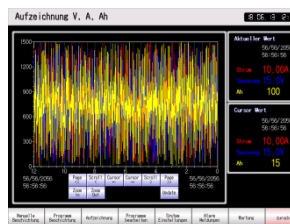
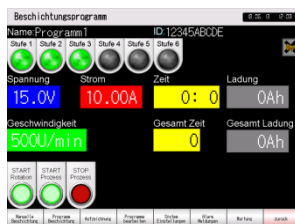
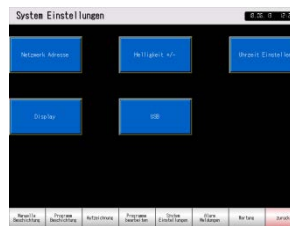


1. Process control and regulation unit (PRS)
 - Temperature
 - pH
 - Level
 - Electrolyte stabilisation
 - Safety sensors
 - Amin counter
2. Diamond electro-plating unit (DBE) with 2 work stations
(2 pcs, can be expanded to 4 pcs, → 8 work stations)
3. Diamond electro-plating controls DBS (4pcs)
 - Current
 - Voltage
 - Leak current
 - Time count
4. Electrolyte storage tank (EVB)
5. 3- cascade standing sink unit (KSP)
6. Raised work platform with non-skid floor grille

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Touchscreen operator terminal of the PRS (Electrolyte constancy)
Display examples of bath parameters, temperature recording, Temperature setting, AH-counter.



Touchscreen operator terminal of the DBS (Process parameters, process control, programming)
Display examples of control and programming screens.

Technical data:	DBA 8-455/002 (example)
Bath capacity:	Electrolyte storage tank: approx. 2352 l; electro-plating tanks: approx. 293 l each
Bath temperature:	max. 60°C
Dimensions (L x W x H):	approx. 7037 x 4064 x 2441 mm
Power ratings	approx. 13.0 KVA, 400 V, 32 A, 50 Hz
Connection for rim exhaustion	DN 75 mm (optional)
- Electrolyte storage tank (EVB), heat insulated, of PP	
- Automatic electrolyte stabilisation and dry-run protection	
- 4 het insulated electro-plating tanks and pipes of PP; system can be expanded to 8 electro-plating tanks	
- Touchscreen operator terminals for bath parameters and process control	
- 1 circulation pump M100; 4 rinsing pumps M25, 3 dosing pumps for additives	