

DLYTE 100PRO Carbide CT

DLyte 100PRO Carbide CT is the **compact machine** for surface finishing of cutting tools, punches, and other cemented carbide components. It provides a fully automated, **high-precision surface treatment** for tools such as drills, endmills, and cutting inserts, meeting specific finishing requirements. This innovative system **enhances tool performance**, extends lifespan, preserves geometry and mechanical integrity.

The dry electropolishing method, developed by the Spanish tech company GPAINNOVA, is an **innovative and patented technology**. DryLyte does not remove material from the work pieces through mechanical abrasion but through an **ion exchange** between the metal components and an electrolyte embedded in polymer granulate.

* The Rösler Group is the exclusive global sales partner for DLyte Carbide systems.



All advantages at a glance

- ▶ **Finishing processes:** Cutting edge preparation, polishing, smoothing, coating droplet removal and decoating.
- ▶ **Advanced PLC-based electronics:** Applies asymmetric pulses for processing carbides and a wide range of materials. It controls the holder rotation speed and direction for precise movements on each piece of the batch.
- ▶ **Integrated refrigerator:** Maintains media temperature for consistent results between batches.
- ▶ **Electrolyte conditioning system:** Calculates remaining media lifespan based on material removal. The independent conductivity and two temperature probes provide readings to the automatic electrolyte conditioning system to optimize performance.

Machine specifications

2 versions available:

- ▶ DLyte 100PRO Carbide CT STD for Dry and Dry suspension processes with vibratory base and polishing area of 180 Ø x 120 mm.
- ▶ DLyte 100PRO Carbide CT TALL for Dry Suspension process without vibratory base and polishing area of 180 Ø x 180 mm.

Technical data

Capacity (per cycle) DLyte 100PRO Carbide CT STD	180 Ø x 120 mm (with vibratory base)
Capacity (per cycle) DLyte 100PRO Carbide CT TALL	180 Ø x 180 mm (without vibratory base)
Machine dimensions	950 x 1,320 x 800 mm
Support dimensions	950 x 790 x 800 mm
Machine weight	274 kg
Anti-vibratory support weight	144 kg
Power (single phase with industrial plug)	5.5 kW (24 A) (single phase with industrial plug)

Voltage	230 V~ ± 10 % (1P+N+PE) (Available transformer kit 110-230 V~)
Frequency	50-60 Hz
Air pressure	4-5 bar (air connector: Ø 8 mm or 1/4" BSP)
Distilled water tank capacity	6.5 l (drain valve included)
External pneumatic stop cock	Yes
Noise level	<70 dB(A)
HMI display size	Touchscreen LCD TFT 7"
Auxiliar 24-V-connector inside cabin for holder accessories	Yes
Ambient temperature operating	5 °C to 35 °C
Temperature storage	-10 °C to +70 °C
Recommended humidity	30 - 70 % RH (without condensation)
Electrolyte storage	5° C to 40 °C (check expiration date)
Tower light	Yes
Index of protection	IP20 (polishing module) IP22 (electric cabinet)

Consumption of 40 l/min. The air quality must be 5:4:4* according to ISO 8573 .
 (*) Air quality required for a maintenance every 6 months (change of filters).

Movements

Main axial turning	Yes
Vertical (up/down)	Yes
Holder vibration	Yes
Media refrigeration	Yes

Workbowl

Type

Cathode Set Dry Electrolyte Only compatible with Standard version

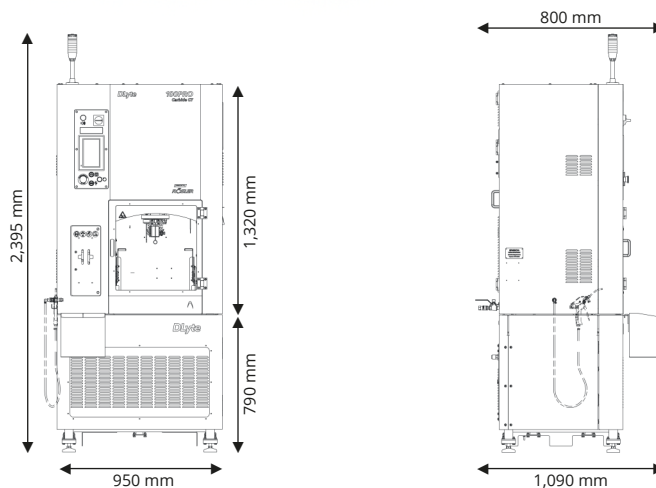
Cathode Set Dry Suspension Electrolyte

Cathode Set Dry Suspension Electrolyte with refrigeration system

Capacity

Workbowl volume 16 l

Technical draw



More information about
**precise surface finishing of
 metal components with the
 DryLyte technology:**



* This product is protected by one or more of the following patents and patent applications: Patents <https://www.gpainnova.com/patents>