



Dlyte 10PRO Carbide

Dlyte 10PRO Carbide is a metal surface finishing equipment using the dry electropolishing technology, suitable for companies with medium manufacturing volume. It combines a planetary movement and a vertical backand- forth motion inside the drum containing the electrolyte media. It is suitable to treat materials included in the hard metal, steel, cobalt-chrome, titanium, copper-based, nickel-based and aluminium groups. The Dlyte 10PRO Carbide's advanced PLC based electronics allows to apply asymmetric pulses required to process carbides and a wide range of materials from low to high frequency, and parameter concatenation. In addition, it allows to control the holder rotation's speed and direction, to precisely apply movements on each piece of the batch, ensuring homogeneous results.

FINISHING PROCESSES

- + Precision finishing
- + Smoothing
- + Mirror finishing
- + Deburring
- + Rounding
- + Corrosion resistance
- + AM post-processing

Workbowl and holder are not included.

The Dlyte 10PRO Carbide machine includes an anti-vibratory support with refrigeration system, a light tower, and a conductivity calibration system.

TECHNICAL DATASHEET. DLYTE 10PRO CARBIDE

DLyte 10PRO Carbide's electrolyte lifespan is linked to metal extraction, as it is able to calculate the remaining media lifespan of the electrolyte taking into account material removal. Thanks to the independent conductivity and temperature probes, it offers readings to the automatic electrolyte conditioning system to optimize performance and its usable life. The advanced software logs key parameters and warnings of the process, thus assuring traceability of the processed batch. All data can be easily extracted and analyzed through the ethernet and usb ports.

The hardware is designed with robust and reliable mechanics to work continuously in mass production. It allows to have an easier access for maintenance and operation. Its new safety system includes a warning light tower which indicates the machine status, and antisabotage security system.

A refrigeration system is available to be installed inside the anti-vibratory support, to control and stabilize the Dry Suspension electrolyte temperature and ensure a more consistent, uniform, and uninterrupted production.

01. MACHINE SPECIFICATIONS

TECHNICAL DATA

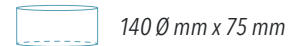
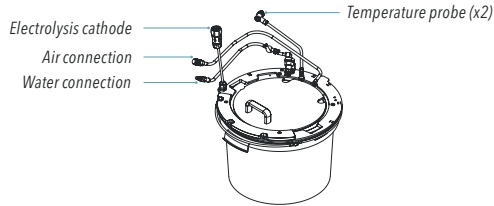
Capacity (per cycle)	140 Ø x 75 mm (maximum volume centered to the axis)
Machine dimensions	818 x 1,175 x 692 mm
Support dimensions	818 x 803.61 x 692 mm
Machine weight	225 kg
Anti-vibratory support weight	104 kg
Power (single phase with industrial plug)	3 kW (single phase with industrial plug) ☺
Voltage	230 V ± 10% (1P+N+PE)*
Air pressure	4-5 bar (air connector: 8mm Ø or 1/4' BSP')
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).	
Distilled water tank capacity	3 l (drain valve included)
External antisabotage valve	Yes
Noise level	<70 dB(A)
HMI size	7"
Cabin Aux Connector for planetary motion holder accessory	Yes
Tower light	Yes
Frequency	50-60 Hz
Index of protection	IP20 (polishing module)
Main axial turning	Yes
Vertical (up/down)	Yes
Holder vibration	Yes
Media refrigeration	Yes

TECHNICAL DATASHEET. DLYTE 10PRO CARBIDE

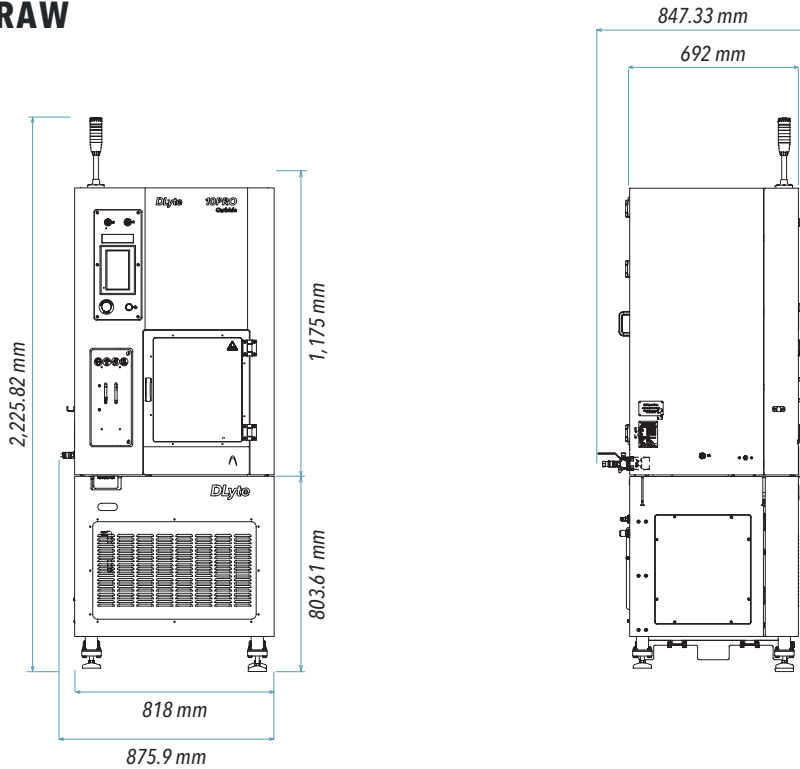
02. WORKBOWL

TYPE	Cathode Set Dry Electrolyte
	Cathode Set Dry Suspension Electrolyte

CAPACITY	Workbowl volume	9 L
	Working volume	140 Ø x 75 mm (maximum volume centered to the axis)



03. TECHNICAL DRAW



* The Products included in this document may be protected by one or more patents and patent applications detailed at: <https://www.dlyte.com/patents/>