

## **DLyte 100PRO**     *Carbide*

DLyte 100PRO Carbide is the biggest compact machine for industrial applications. It combines a planetary movement and a vertical back-and-forth motion inside the drum containing the electrolyte media. It is suitable to treat materials included in Steel group, Cobalt-chrome, Titanium group, Copper based alloys group, Hard metals group, Nickel based alloys group and Aluminium group materials.

The DLyte 100PRO 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.

DLyte 100PRO Carbide's electrolyte lifespan is based on material extraction, as it is able to calculate the remaining media lifespan of the electrolyte based on material removal. Thanks to the independent conductivity and its 2 temperature probes, it offers readings to the automatic electrolyte conditioning system to optimize performance and its useful life, and also adds an extra safety layer.

Its 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 includes a refrigeration system with a heat exchanger, to control and stabilize the Dry Suspension electrolyte temperature, and accomplish repetitive and controlled results.

Its hardware also allows to have an easier access for maintenance and operation, and its safety system includes a warning light tower which indicates the machine status, and antisabotage security system.

*Cathode set and holder are not included. Light tower, anti-vibratory support, conductivity and temperature calibration system are included.*

### 01. MACHINE SPECIFICATIONS

#### TECHNICAL DATA 1/2

Capacity (per cycle)	180 Ø x 80 mm (maximum volume centered to the axis)
Machine dimensions (L x W x H)	955 x 890 x 1,610 mm 955 x 710 x 790 mm 283 kg 160 kg
Support dimensions (L x W x H)	4.8 kW (21 A) (single phase with industrial plug) 230 V- ±
Machine weight	10% (1P+N+PE) (Avalaible transformer kit 110-230 V-) 4-
Anti-vibratory support weight	5 bar (air connector: 8mm or 1/4' BSP')
Power (single phase with industrial plug)	☺
Voltage	
Air pressure	

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).

# TECHNICAL DATASHEET. DLYTE 100PRO CARBIDE

## TECHNICAL DATA (2/2)

Storage capacity (Anti-vibratory support)	Distilled water	231 L 9 L (drain valve included)	Yes <70 dB(A)
tank capacity	External antisabotage valve	Noise level	HMI
size	Auxiliar 24 V connector	inside cabin	for holder
accessories	Ambient temperature	operating	Temperature
storage	Recommended humidity	Electrolyte storage	Tower
light	Frequency Index	of protection	Yes
Main axial turning			Yes
Vertical (up/down)			Yes
Holder vibration			Yes
Media refrigeration			

## MOVEMENTS

## 02. WORKBOWL

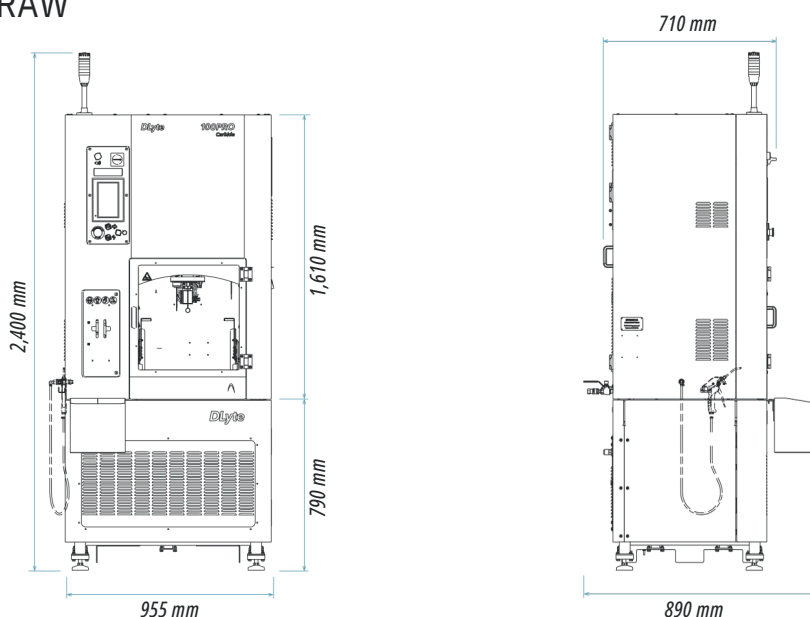
### TYPE

- Cathode Set Dry Electrolyte
- Cathode Set Dry Suspension Electrolyte
- Cathode Set Dry Suspension Electrolyte compatible with refrigeration system

### CAPACITY

- Workbowl volume: 16 L
- Working volume: 180 Ø x 80 mm (maximum volume centered to the axis)

## 03. TECHNICAL DRAW



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