



DLyte 100PRO Hybrid

The DLyte100PRO Hybrid is the biggest compact machine for industrial applications able to process parts with dry electropolishing technology and hybrid technology. It combines a planetary movement and a vertical back-and-forth motion inside the drum containing the media. It is suitable to treat materials included in Steel group, Cobalt-chrome, Titanium group, Copper based alloys group, Nickel based alloys group and Aluminium group materials.

The DLyte 100PRO Hybrid's advanced PLC based electronics allows to apply parameters of dry electropolishing and hybrid processes for 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 Hybrid'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, its safety system includes a warning light tower which indicates the machine status, and an external pneumatic stop cock for safe operations.

Cathode set and holder are not included.

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

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

01. MACHINE SPECIFICATIONS

TECHNICAL DATA	Work piece weight capacity	8 kg
	Polishing zone	Ø180 x 115 mm
	Machine dimensions (L x W x H)	1025 x 870 x 2395 mm
	Machine weight	283 kg
	Support weight	160 kg
ELECTRICAL	Power (Main socket)	3.5 kW
	Full load current (Main socket)	15 A
	Power (Chiller socket)	1.3 kW
	Current consumption (Chiller socket)	6 A
	Voltage	230 V~ ±10 % (1Phase+N+PE)
	Frequency	50 - 60 Hz
	Grounding connection	TN-S system
	Power cable extension	3 m
	Power connector type	CETAC 32A plug 2 poles + PE
	Applicable earth leakage breaker	Rated current : 25 A Sensitivity current : 30 mA Note: To be prepared by customer
Cable Qty x size (including ground)	3 cores × 4.0 mm ²	
HYDRAULIC	Distilled water tank capacity	9 L
PNEUMATIC	Air pressure	4 - 5 bar
	Air hose inlet	Ø8 mm or 1/4" BSP
	Air quality	[5:4:4] according to ISO 8573-1 Filter [5]: ≤ 1 µm; Air dryer, [4]: Dew point < 3°C; Oil[4]: ≤ 5 mg/m ³
	Line air supply	40 L/min
ENVIRONMENTAL	Acoustic pressure emission	< 70 dB(A)
	Operating temperature	+5 °C to +35 °C
	Storage temperature	-10 °C to +70 °C
	Recommended humidity	30 - 70 % RH without condensation
	Machine Index Protection	IP20
	Electric cabinets and peripherals IP	IP22

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TECHNICAL DATASHEET. DLYTE 100PRO HYBRID

OPERATIONAL

Main turning	Yes
Auxiliar turning connector (holder motor)	Yes
Vertical movement	Yes
Holder vibration connector	Yes
Base vibration	Yes
External pneumatic stop cock	Yes
HMI size	7"
Tower light	Yes
Media refrigeration	Yes
Air cleaning gun	Yes
Cleaning bucket	Yes
Holder mixer	Yes
Tester tool	Yes

02. BUCKET

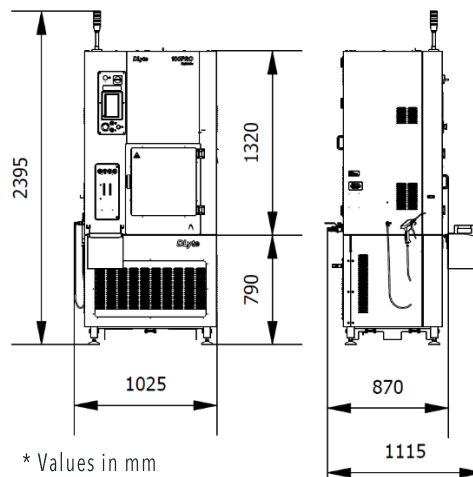
TYPE

Cathode Set Dry Electrolyte	Yes
Cathode Set Dry Suspension Electrolyte	Yes
Cathode Set Dry Suspension Electrolyte with refrigeration system	Yes

CAPACITY

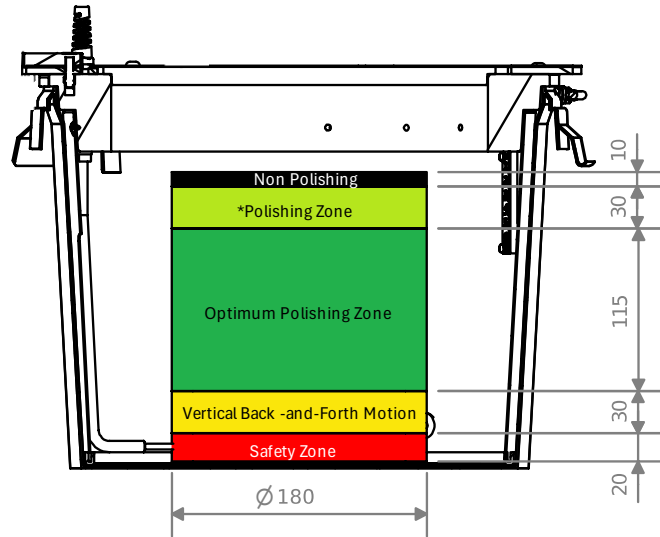
Electrolyte capacity	16 L
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03. TECHNICAL DRAWING



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04. POLISHING ZONE



* For specific polishing applications
** Values in mm