DLyteeBlast-S1_V.7_06/2026_EN



DLyte eBlast

DLyte eBlast is an electrochemical electropolishing system designed for the treatment of internal channels and tubular geometries using a recirculating slurry composed of an electrolyte with suspended solid particles.

The system consists of a processing cabinet with a grating platform, a pumping unit, and one or more nozzles that direct the slurry through the internal passages of the workpiece.

A stainless-steel wire rope or rod is inserted through the channel to act as the cathode and is electrically insulated from the workpiece by means of 3D-printed spacers. The workpiece is connected to the anode while the insulated wire or rod is connected to the cathode, creating the electrochemical cell required for processing.

During operation, the slurry is pumped through the channel while electrical power is applied between the electrodes. The combined action of electrolyte flow, suspended particles, and controlled anodic dissolution improves the internal surface finish and reduces surface roughness.

For components with multiple channels, the system can be configured with multiple nozzles and slurry distribution lines.

The particle size is selected according to the channel diameter, while the electrolyte chemistry remains equivalent to that used in DLyte PRO500 systems.

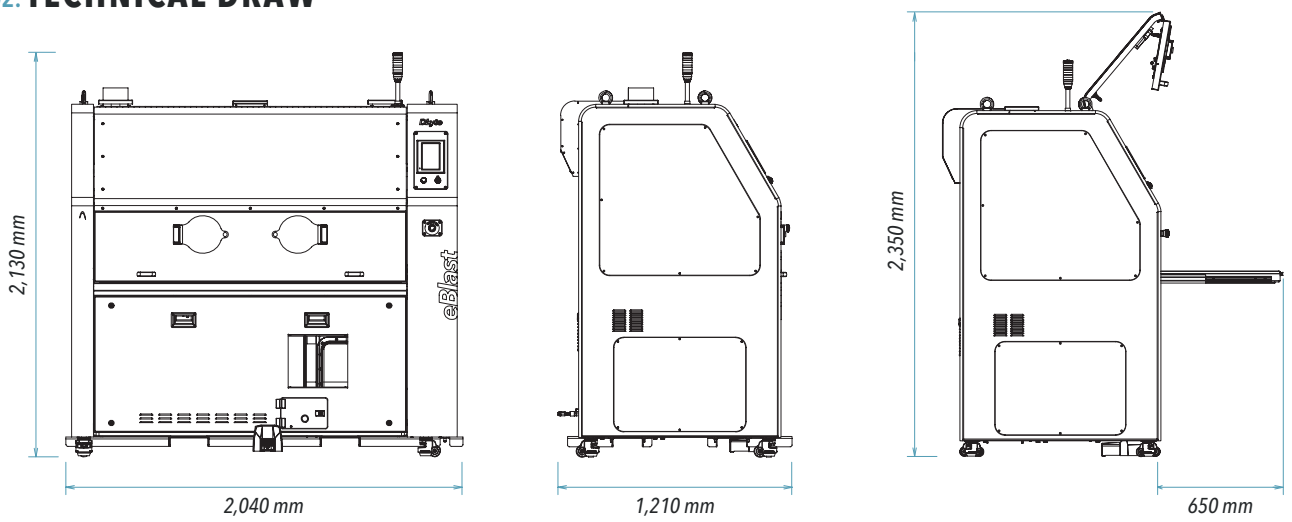
* This product is protected by one or more of the following patents and patent applications: Patents https://www.gpainnova.com/patents

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01. MACHINE SPECIFICATIONS

TECHNICAL DATA	MACHINE	Machine dimension (L x W x H)	*2,040 x 1,210 x 2,130 mm*
		Window dimension	*1,450 x 600 mm*
		Machine weight	*900 kg*
	ELECTROLYTE	Electrolyte capacity	*90 L*
	PIECE CAPACITY	Piece volume	*1,000 x 500 x 500 mm*
		Piece weight	*200 kg*
	ELECTRIC	Rated power (P)	*3.5 KW*
		Rated voltage	*230 V~ ± 10% (1P+N+PE)*
		Frequency	*50-60Hz*
		Full load current	*16 A*
		Power cord plug	*CETAC 32 A*
	ELECTROLYSIS GUN	Electrolysis power	*0 - 120 VDC* *0 - 120 V ~ (symmetric)* *0 - 60 V ~ (asymmetric)*
		Electrolysis consumption	*0 - 60 A*
		Electrolyte pressure	*1 - 2 bar*
	AIR CONSUMPTION	Air pressure	*4 - 6 bar*
		Air flow consumption	*200 - 400 L/min*
		Air tube	*Ø 10 mm*
		Air quality	*(5:4:4 according to ISO 8573-1)*
	EXHAUST GAS	Exhaust gas hose	*Ø 130 mm*
		Air flow	*105 m3/h (X2)*
	OPERATING	Operating (environment)	*5 °C to 35 °C*
		Humidity	*30-70%*
		Noise	*<70 dB (A)*
	STORAGE	Machine storage	*-10 °C to +70 °C*
		Electrolyte storage	*5 °C to 40 °C (See expiration date)*

02. TECHNICAL DRAW



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