

# Dlyte PRO500 Hybrid

## PRECISE METAL SURFACE FINISHING FOR MASS PRODUCTION

DlytePRO500 Hybrid is the most advanced, powerful and versatile metal surface finishing equipment on the market specially designed for finishing parts using dry electropolishing or hybrid process in mass production.



Workbowl and holders are not included.

## 01. MACHINE SPECIFICATIONS

TECHNICAL DATA (1/2)		DIMENSION	Machine dimensions	1,300 x 2,770 x 1,380 mm
CAPACITY	Electrolyte capacity	250 l		
	Holder + piece area	Ø200 x 540 mm (x8)		
	Work piece area	Up to Ø200 x 200 mm (x8)		
	Weight	20 kg (work piece(s) + holder) (x8)		
	MACHINE WEIGHT	Dlyte PRO500 weight	1600 kg	
MACHINE WEIGHT	Tank with electrolyte	400 kg		
	ELECTRICAL <sup>(1)</sup>	Rated power	from 11,5 KW to 25 KW <sup>(2)</sup>	
ELECTRICAL <sup>(1)</sup>	Short-circuit breaking capacity (ics)	6 kA		
	Rated voltage	400 Vac ± 10% (3P+N+GND)		
	Frequency	50 - 60 Hz		
	Rated current	35 A		
	Full load current	40 A		
	Grounding connection	TN system		
	Earth leakage current	> 10 mA <sup>(3)</sup>		
	AIR	Air supply (Main line)	6 - 7 bar (air connector Ø10 mm)	
AIR	Air flow (two lines)	1,900 l/min <sup>(4)</sup>		
	Air inlet pipe	Ø20		
	Air quality (ISO 8573-1:2010)	6. 4. 4 (ISO 8573-1:2010)		
	DISTILLED WATER	Water supply	Connection (Ø10 mm)	
DISTILLED WATER	Water tank	16 l		
	TEMPERATURE	Operating	5°C to 35 °C	
TEMPERATURE	Dlyte PRO500 storage	-10°C to + 70°C		
	Electrolyte storage	5°C to 40°C (max. 24 months)		

<sup>(1)</sup>The machine shall be connected to a power line with: A) Differential switch: 4P - 40A, 300mA - Type B. B) Circuit breaker switch: 4P - 40A, C curve. C) The female connector shall meet the IEC 60309 series. <sup>(2)</sup>Detailed power consumption in Table 2. <sup>(3)</sup>Note Leakage current: 20 mA. <sup>(4)</sup>Detailed air consumption in the last table.

# TECHNICAL DATASHEET. DLYTE PRO500 HYBRID

## 01. MACHINE SPECIFICATIONS

TECHNICAL DATA (2/2)	PROTECTION INDEX	Machine	IP20
		Electric cabinets and peripherals	IP22
	NOISE	Holder vibrators OFF (EN ISO 11202)	<70 dB
		Holder vibrators ON (EN ISO 11202)	74 dB (1 m); <70 dB (7m)

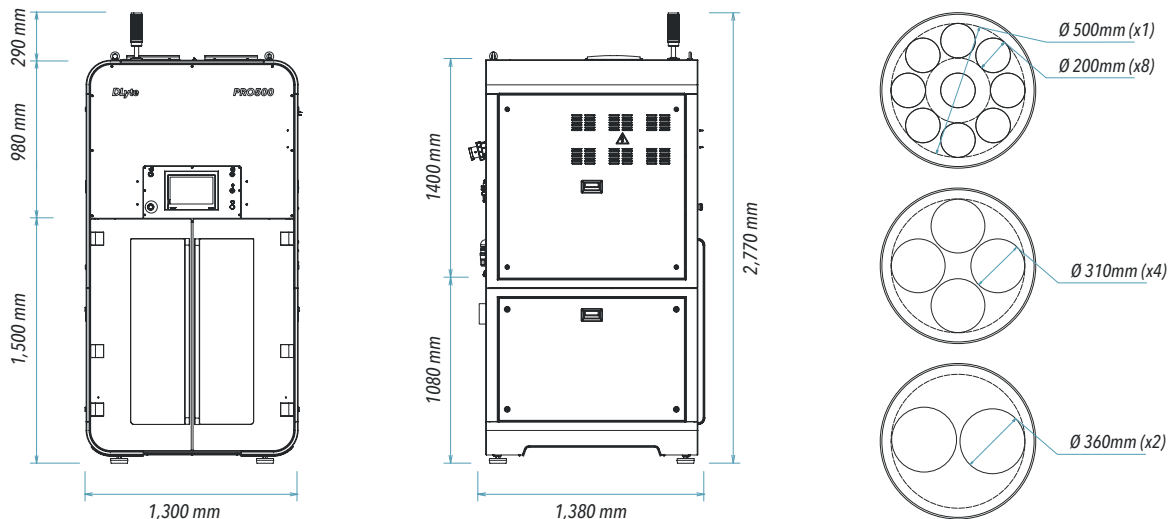
## 02. DETAILED POWER CONSUMPTION The power consumption depends on the total surface to be polished in one cycle.

LOAD	CURRENT CONSUMPTION (A) 1 HOLDER	CURRENT CONSUMPTION (A) 2 HOLDERS	CURRENT CONSUMPTION (A) 4 HOLDERS	CURRENT CONSUMPTION (A) 8 HOLDERS	VOLTAGE (V)	POWER (W) <small>(1&amp;8 Holders/ 4 Holders/ 2 Holders)</small>	OTHER MODULES CONSUMPTION (W)	MACHINE POWER CONSUMPTION (W)
Low	10	20	40	80	30	2400/ 1200/ 600	7000	9400
Medium	25	50	100	200	30	6000/ 3000/ 1500	7000	13000
High	45	90	180	360	30	10800/ 5400/ 2700	7000	17800
Max	45	90	180	360	50	18000/ 9000/ 4500	7000	25000

## 03. DETAILED AIR CONSUMPTION Air shall never be required for both the polishing process and the cleaning process at the same time.

			AIR CONSUMPTION (L/MIN)							
The air consumption required for each line is (the duty cycle is specified in percentage):			INSERT THE CORE INTO THE TANK (8s)	POLISHING PROCESS			REMOVE THE CORE INTO THE TANK (8s)	CLEANING PROCESS		
LINE	FUNCTION	SPECIFICATION	Standard	Min	Most common	Max		Min	Med.	Max
Main Line	Load/ Unload	400	400 (100%)	-	-	-	400 (100%)	-	-	-
	Swing movement		-	0	0	400 (100%)	-	-	-	
	Holder gripping	-	-	-	-	-	-	-	-	
	Cleaning system	1000	-	-	-	-	-	0	600	1000
Holder Line	Holder vibration	400	-	0	0	from 100 to 500 (100%)		-	-	-
	Tank Refrigeration	900	-	0	900 (20%)	900 (100%)				
	Holder blowers	200	-	-	0	from 50 to 1000 (100%)		-	-	-
TOTAL			400	0	900	from 1450 to 2800	400	0	600	1000

## 04. 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/>