# *DLyte PRO500*

PRECISE METAL SURFACE FINISHING
FOR MASS PRODUCTION

DLytePRO500 is the most advanced, powerful and versatile metal surface finishing equipment on the market specially designed for mass production.

*Workbowl, cathode set and holder are not included.*


## 01. MACHINE SPECIFICATIONS

### TECHNICAL DATA (1/2)

| | | |
|---|---|---|
| DIMENSION | Machine dimensions (L x W x H) | *1,300 x 1,380 x 2,770 mm* |
| CAPACITY | Electrolyte capacity | *250 L* |
| | Holder + piece area | *Ø500 x 540 mm (x1)*<br>*Ø360 x 540 mm (x2)*<br>*Ø 310 x 540 mm (x4)*<br>*Ø200 x 540 mm (x8)* |
| | Work piece area | *Up to Ø500 x 250 mm (x1)*<br>*Up to Ø 360 x 250 mm (x2)*<br>*Up to Ø 310 x 250 mm (x4)*<br>*Up to Ø200 x 200 mm (x8)* |
| | Weight | *50 kg (work piece(s) + holder) (x1)*<br>*20 kg (work piece(s) + holder) (x2) (x4) (x8)* |
| MACHINE WEIGHT | DLyte PRO500 weight | *1600 kg* |
| | Tank with electrolyte | *400 kg* |
| ELECTRICAL [1] | Rated power | *from 11,5 KW to 25 KW (2)* |
| | Short-circuit breaking capacity (ics) | *6 kA* |
| | Rated voltage | *400 V~ ± 10% (3P+N+PE)* |
| | Frequency | *50 - 60 Hz* |
| | Rated current | *35 A* |
| | Full load current | *40 A* |
| | Grounding connection | *TN system* |
| | Earth leakage current | *> 10 mA (3)* |
| AIR | Pressure | *6 - 7 bar* |
| | Air connector | *Øint 21 mm* |
| | Air flow | *1,900 L/min (4)* |
| | Air quality | *(6:4:4 according to ISO 8573-1)* |
| | Water supply | *Connection (Ø10 mm)* |
| DISTILLED WATER | Water tank | *16 L* |
| | Operating | *5°C to 35 °C* |
| TEMPERATURE | DLyte PRO500 storage | *-10°C to + 70°C* |
| | Electrolyte storage | *5°C to 40°C (see expiration date)* |

[1] 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. (2) Detailed power consumption in Table 2. (3) Note Leakage current: 20 mA. (4) Detailed air consumption in the last table.

## 01. MACHINE SPECIFICATIONS

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

## 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) (1&8 Holders/ 4 Holders/ 2 Holders) | OTHER MODULES CONSUMPTION (W) | MACHINE POWER CONSUMPTION (W) |
|---|---|---|---|---|---|---|---|---|
| Low | *10* | *20* | *40* | *80* | *30* | *2400/ 1200/ 600* | *7000 7000 7000 7000* | *9400 13000 17800 25000* |
| Medium | *25* | *50* | *10* | *200* | *30* | *6000/ 3000/ 1500* | | |
| High | *45* | *90* | *180* | *360* | *30* | *10800/ 5400/ 2700* | | |
| Max | *45* | *90* | *180* | *360* | *50* | *18000/ 9000/ 4500* | | |

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

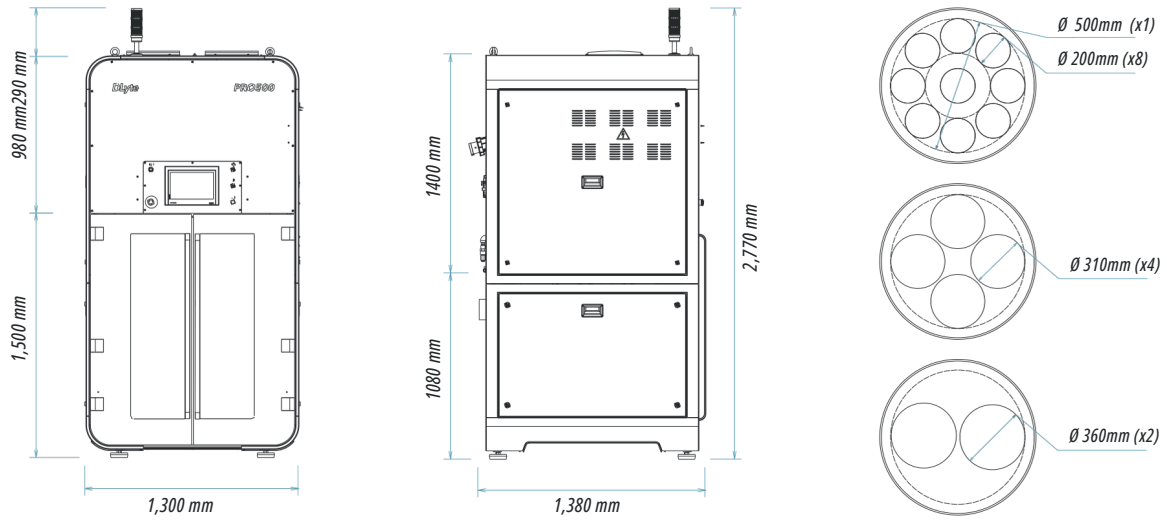
The air consumption required for each line is (the duty cycle is specified in percentage):

| LINE | FUNCTION | SPECIFICATION |
|---|---|---|
| Main Line | *Load/ Unload* | *400* |
| | *Swing movement* | |
| | *Holder gripping* | - |
| | *Cleaning system* | *1000* |
| Holder Line | *Holder vibration* | *400* |
| | *Tank Refrigeration* | *900* |
| | *Holder blowers* | *200* |
| | TOTAL | |

AIR CONSUMPTION (L/MIN)

| INSERT THE CORE INTO THE TANK (8s) | POLISHING PROCESS | | | REMOVE THE CORE INTO THE TANK (8s) | CLEANING PROCESS | | |
|---|---|---|---|---|---|---|---|
| Standard | Min | Most common | Max | | Min | Med | Max |
| *400 (100%) - -* | *- 0 -* | *- 0 - - 0 900* | *- 400 (100%) - - from* | *400 (100%)* | *- - -* | *.* | *- - -* |
| *-* | *- 0* | *(20%) 0 900* | *100 to 500 (100%) 900* | *- - -* | *0 -* | *- - - 600 -* | *1000* |
| *- - - 400* | *0 -* | | *(100%) from 50 to 1000* | | | | *-* |
| | *0* | | *(100%) from 1450 to 2800* | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | - | - | - |
| | | | | *400* | *0* | *600* | *1000* |

## 04. TECHNICAL DRAW

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