

# NEW PRO SERIES

High capacity compact  
surface finishing machines

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***D**Lyte **PRO500***

A close-up, low-angle shot of the corner of a dark, industrial machine. The machine has a smooth, rounded edge and a matte finish. The DLyte logo is visible on the side panel.

***D**Lyte<sup>®</sup>*

# DLyte PRO500

The most advanced, powerful and versatile surface finishing machine on the market

DLytePRO500 are new patented Machines based on patented DryLyte technology for surface finishing of metal alloys for the industry. DLyte provides a solution to the most common industrial metals and alloys.

The applications for DLyte finishing technology range from **grinding, rounding and deburring to surface smoothing and high gloss polishing** of high precision and aesthetic parts.

**Cobalt Chrome**  
**Stainless Steel**  
**Carbon Steel**  
**Carbides**  
**Nickel Alloys**  
**Aluminium Alloys**  
**Copper Alloys**  
**Titanium**  
**Nitinol**

**High capacity**  
**750 Ø x 330 mm\***

\* Maximum working area

**High performance**

**Advanced automation**

IOT Software and quick fixing holders

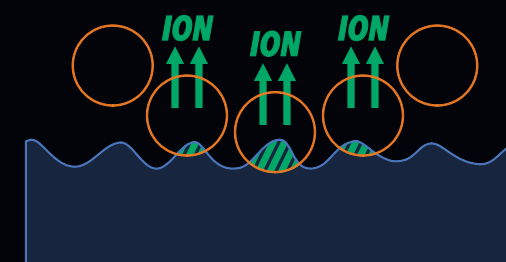


## Using the First **Dry** Electropolishing technology

DLyte is a technological solution that automatize, simplifies and standardizes the post-process of metal parts, improving the surface finishing results obtained with traditional finishing systems.

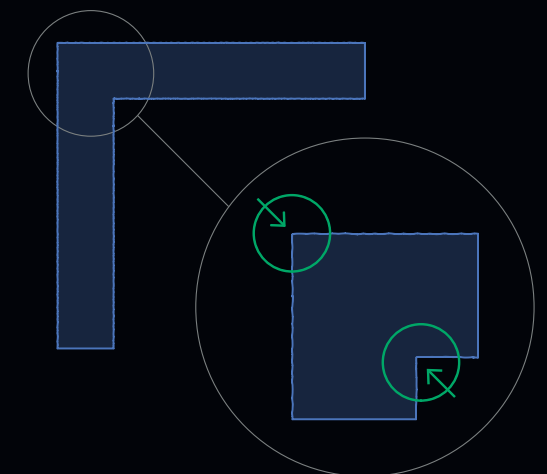
DLyte system works with DryLyte technology, a new patented technology for surface finishing metals by ion transport using free solid bodies.

*"The process extracts the material only from the peaks of the roughness, it does not round the edges but penetrates the internal cavities of the piece to which cannot be accessed mechanically".*



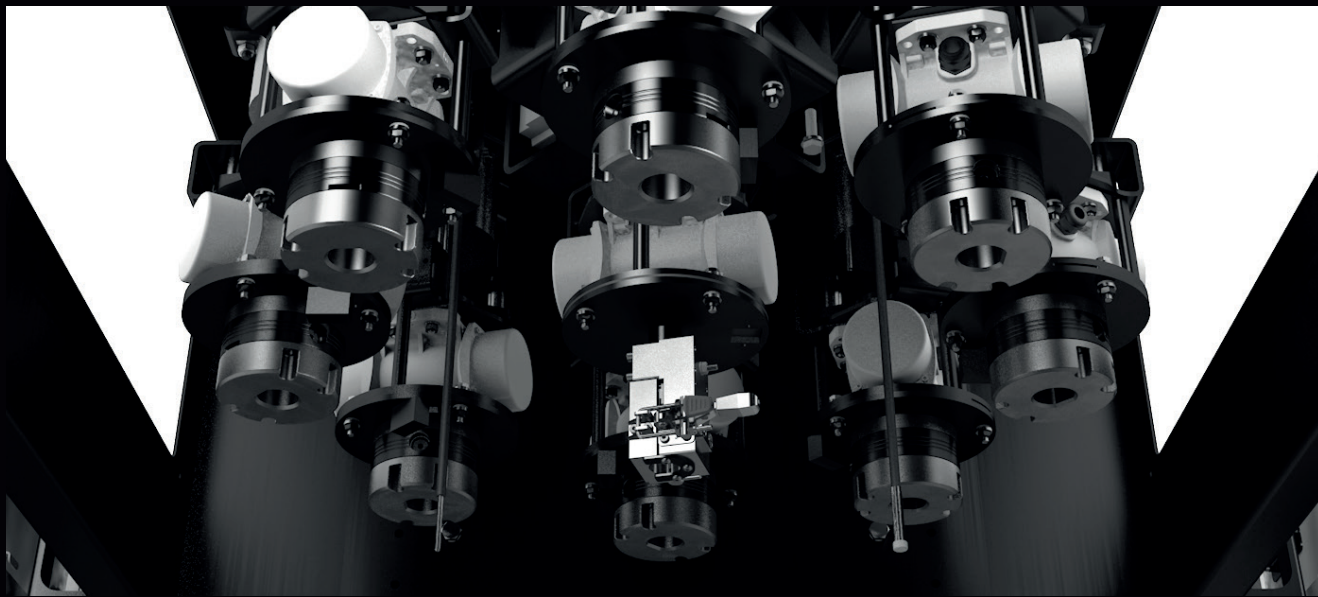
- Part surface
- Electrolyte
- Removed material by ion transport

The process removes material only from the peaks of the roughness.



The process does not round edges and can penetrate the internal cavities of the piece.



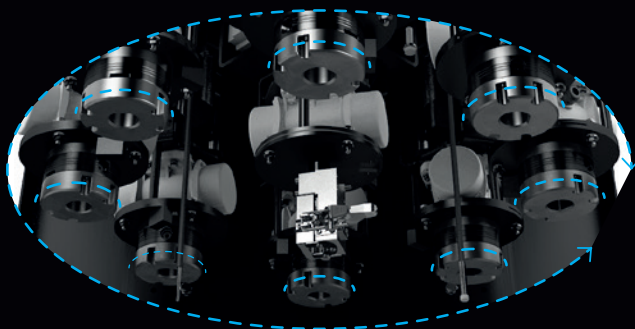


# One system for multiple applications

## Planetary rotation with variable and independent speed and motion senses.

Main axial turning  
Secondary planetary turning  
Vertical (up/down)  $\pm 20\text{mm}$  stroke  
Tank vibration + media aeration

## Quick coupling for easy plug and release of the holders.



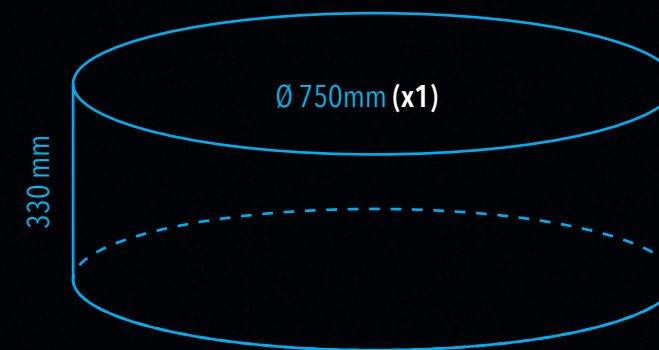
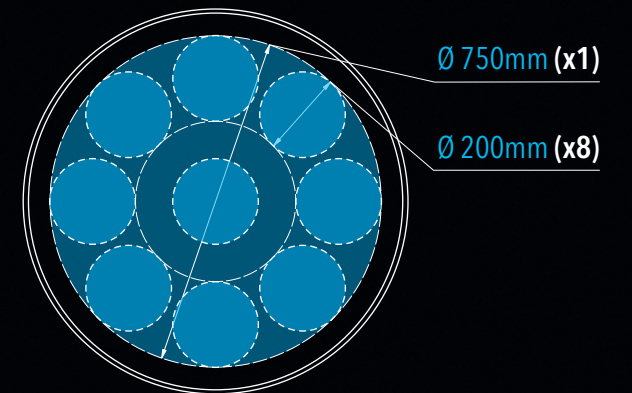
The combination of precise hardware and software, intelligent electronic parameters monitoring and optimal media flow control ensures the process optimization.

DLyte is especially effective finishing parts with sharp edges, ensuring the radius preservation and homogeneous result across the surface.

*"The improvement of the surface quality from 10 microns to 0,8 microns in rotor blade turbines improves the efficiency, reducing the turbine inlet temperature with the associated turbine durability increase."*

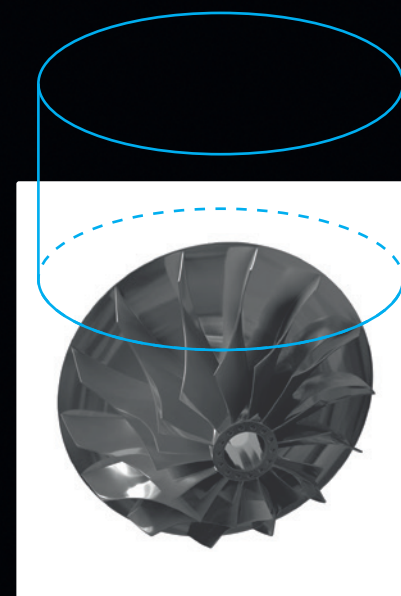
## Working volumes

DLyte PRO500 allows multiple configurations in one system applying a versatile range of holders.



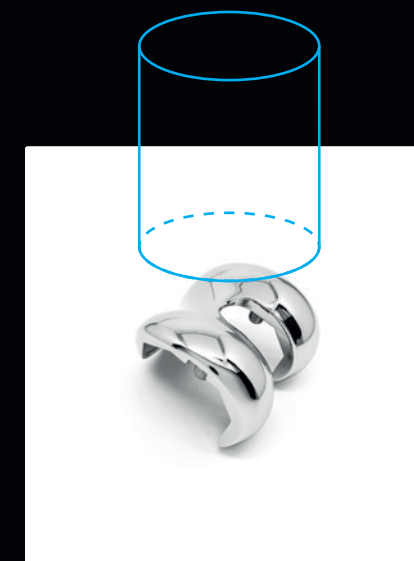
**Up to Maximum  
750 Ø x 330 mm  
volume parts**

Ø 200mm (x8)



**8 Turbines of 200 mm Ø**

Ø 100mm (x16)



**16 knee implants per cycle**

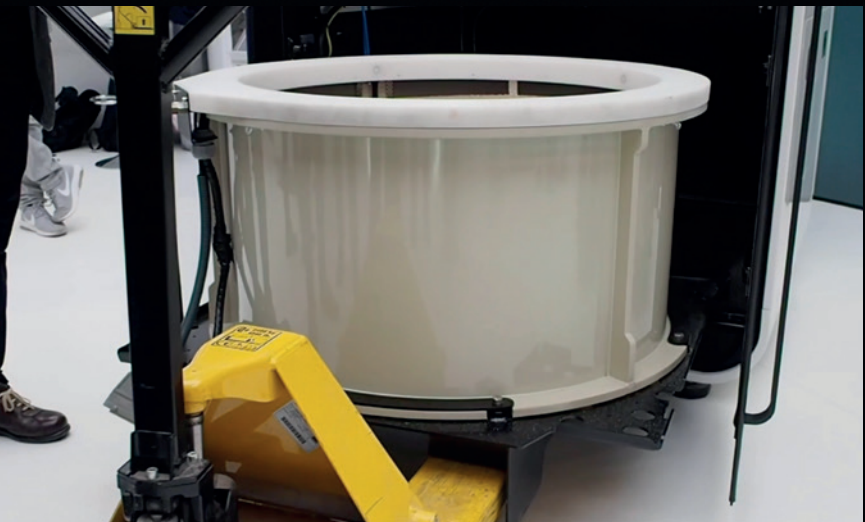
Ø 50mm (x32)



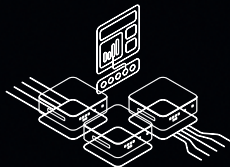
**32 drill bits per cycle**



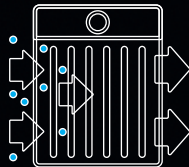
# High quality finishing with the most advanced automation on the market



**Easy media loading and unloading**  
The container with media can be loaded and unloaded in the machine with a manual transpallet avoiding any hazards for the operators.



12" HMI DLYte processing SW



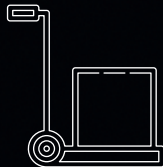
Exhaust system with active carbon filter



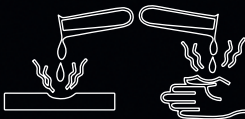
Status light ready



Automatic parts extraction.  
Cleaning of the parts by compressed air



Easy consumable loading/unloading by pallet truck



Non hazardous liquid chemicals handling



Quick Connections for easy plug & release parts

**Automatic extraction and cleaning system**  
The holders extract the pieces from the media applying at the same time an air flow blade to remove the media stuck on the surface of the pieces. The system avoids any undesirable mark on the surface of the parts and allows full re-use of the media.



**Easy access**  
The design of the frame and its traps facilitates the access to the internal components for easy maintenance and operation.



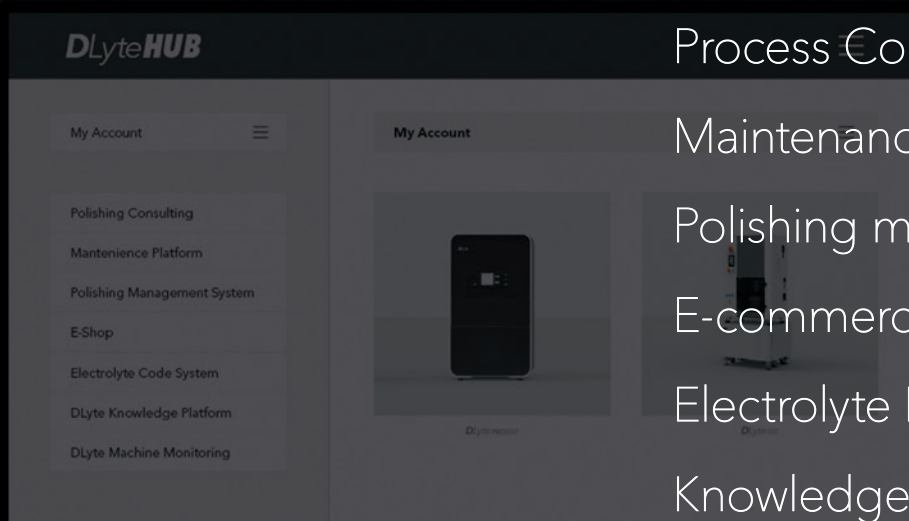


# HUB

The new customer portal that unifies all the services you need for a high quality finishing



Industry 4.0 IOT  
connectivity



(Available in 2020)

## DLyte® Services



Training  
and consulting



Full service  
package



Waranty extension  
package



Software updates