

Dry Electropolishing Systems

DLyte®
DryLyte® Technology
Main Benefits

DLyte® Applications
DLyte® Series

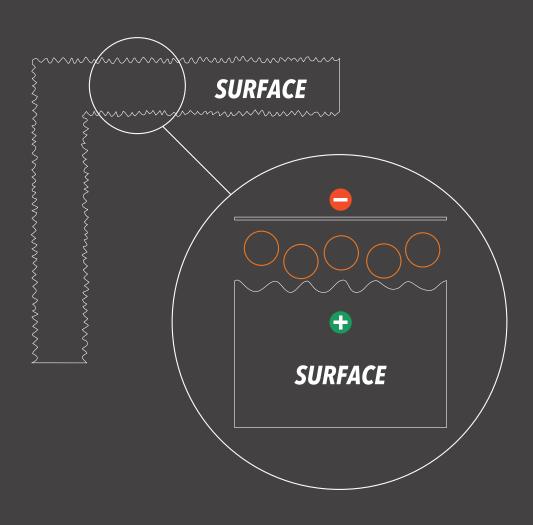


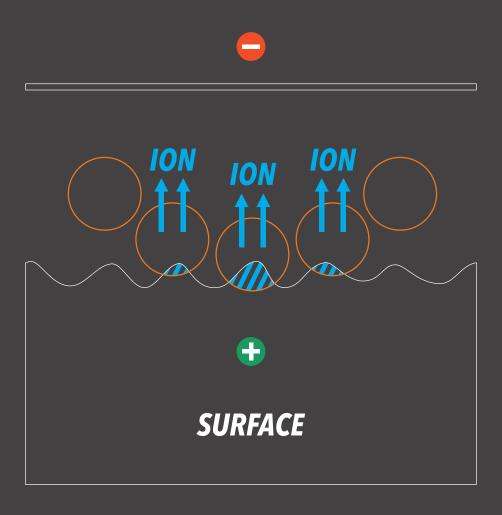
DLyte

The First Dry
Electropolishing System

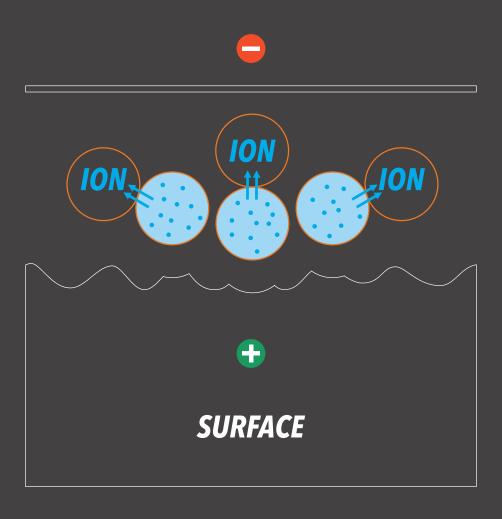


DryLyte® new patented technology for grinding and polishing metals by ion transport using free solid bodies. Revolutionary dry electropolishing that does not use any liquid as electrolyte.

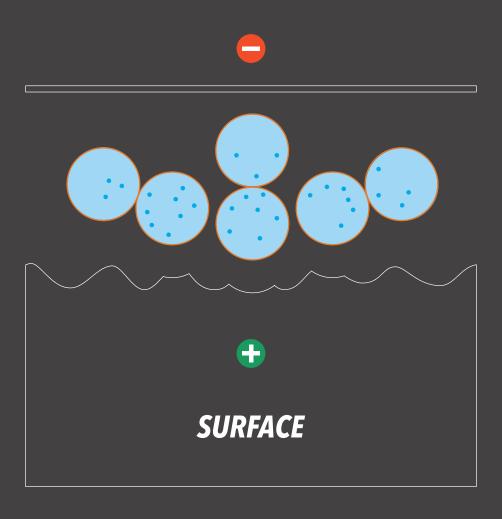




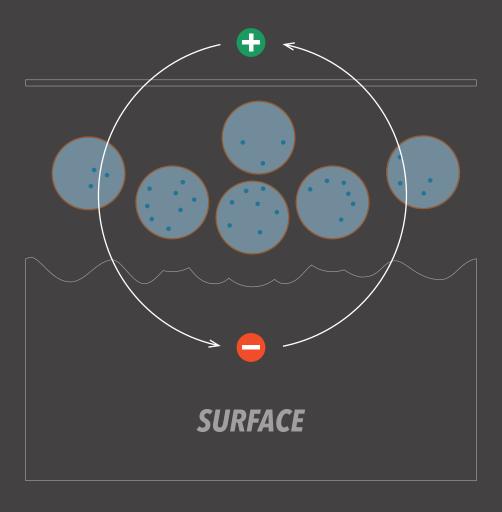
The process removes material only from the peaks of roughness



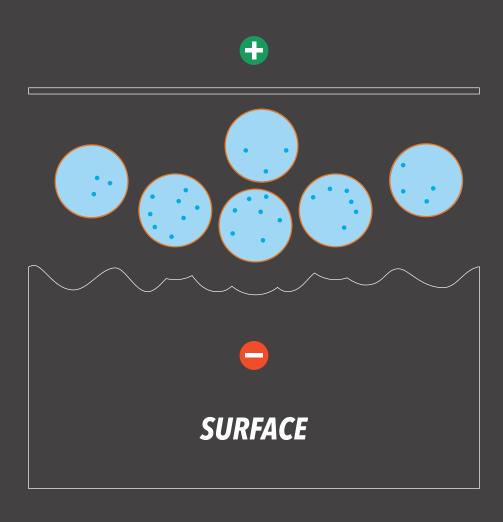
The IONS move from particle to particle

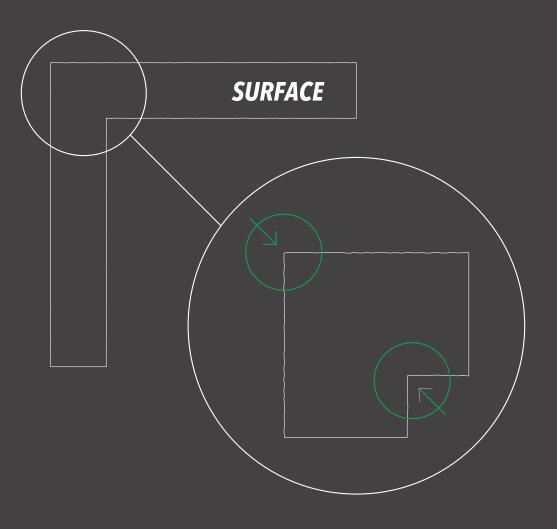


The IONS move from particle to particle



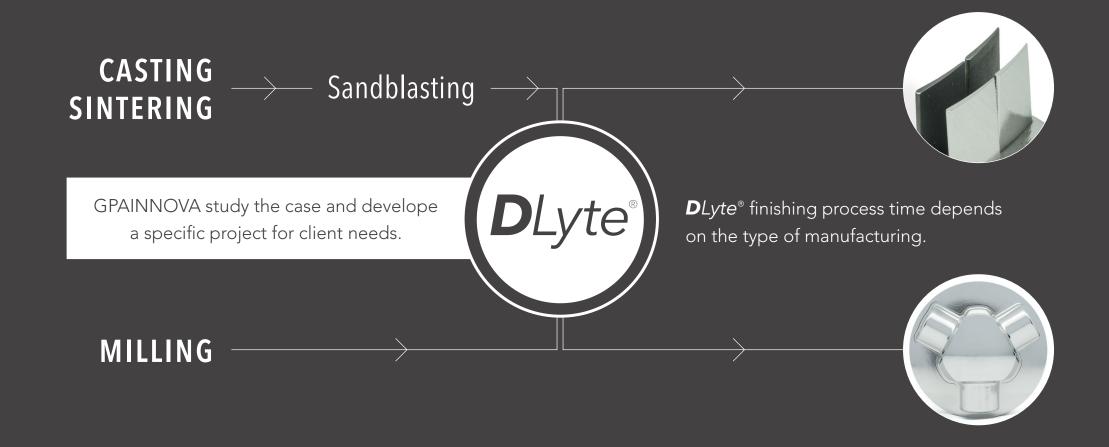
The polarity changes





The process does not round edges and can penetrate in all dead zones

Automatic Process in One Step



Main Benefits

Polishing to mirror-finishing in one step and full automatic.

Homogeneous polishing across the surface, main advantage vs mechanical polishing.

Respect of tolerances and preservation of initial shape even cutting edges.

Traceable industrial process.

Increase of resistance to corrosion.

No contamination on the surface and does not leave traces of hydrogen on the surface.

Controlled costs and predictable lead times.

Main Benefits

Achieves negative surface skewness (rsk) which increases the surface bearing contact area (allowing uniform lubricant film distribution).

Generates no grinding texture patterns improving part wear and fracture resistance, bearing ratio and improves fatigue resistance.

Reproducibility and homogeneity.

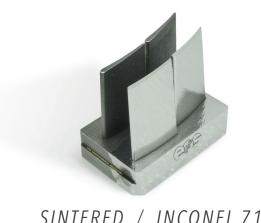
No micro-scratches on the surface.

Allows processing complex geometries without programing. (Special for AM)

Ra under 0,09 micrometers (For additive manufacturing parts).

Allows processing channels and cavities.

DLyte® **Applications**











SINTERED / INOX316L

SINTERED / INOX316L

CNC / INOX316L











SINTERED / CHROME COBALT

CNC / HSS1.3505

CASTING / COPPER

DLyte® **Applications**



CASTING / CHROME COBALT



MILLING / TITANIUM



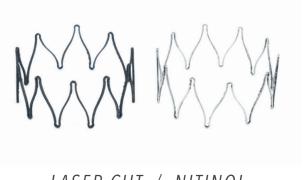
MILLING / CHROME COBALT



SINTERED / CHROME COBALT



SINTERED / TITANIUM



LASER CUT / NITINOL



MILLING / TITANIUM



MILLING / TITANIUM

DLyte® Applications

STAINLESS STEEL SILVER

HSS HARD METAL

INCONEL TITANIUM

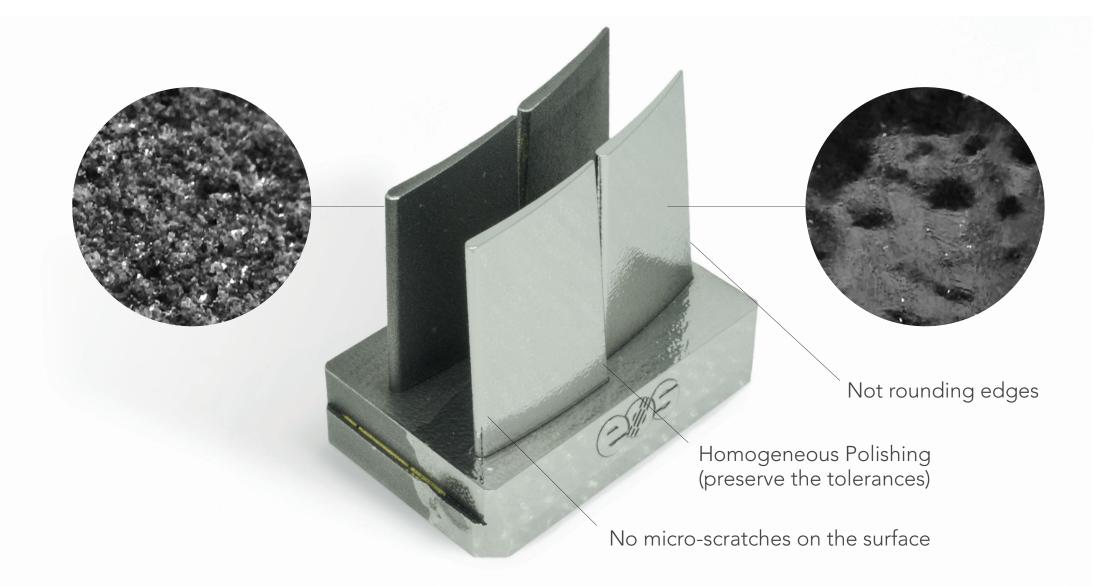
CUPPER NITINOL

BRASS ALUMINIUM

BRONCE CHROME COBALT

SINTERED / INCONEL 718





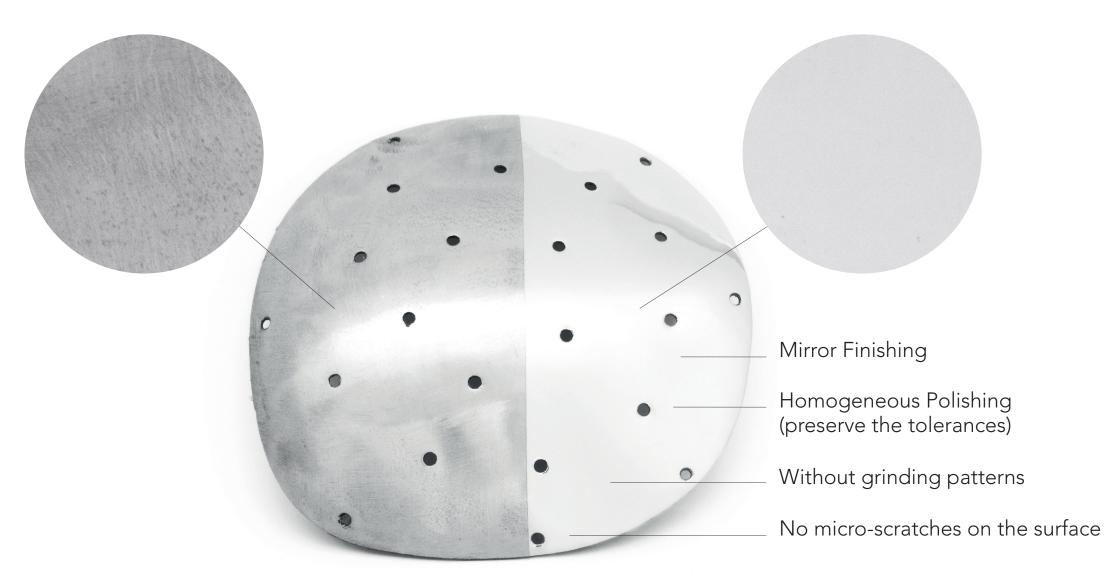
CNC / INOX 316L





SINTERING / TITANIUM

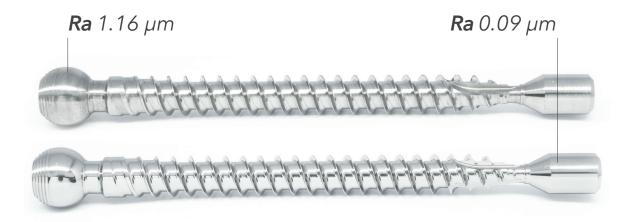


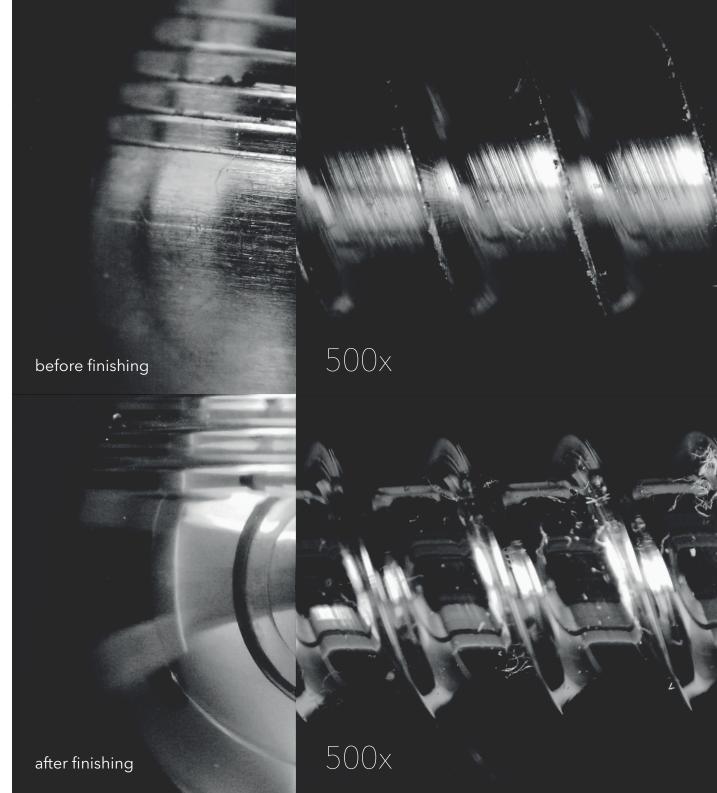


DLyte® Titanium

This new Titanium application allows deburring and homogeneous polishing without changing the properties of the material and maintaining the geometry of the piece.

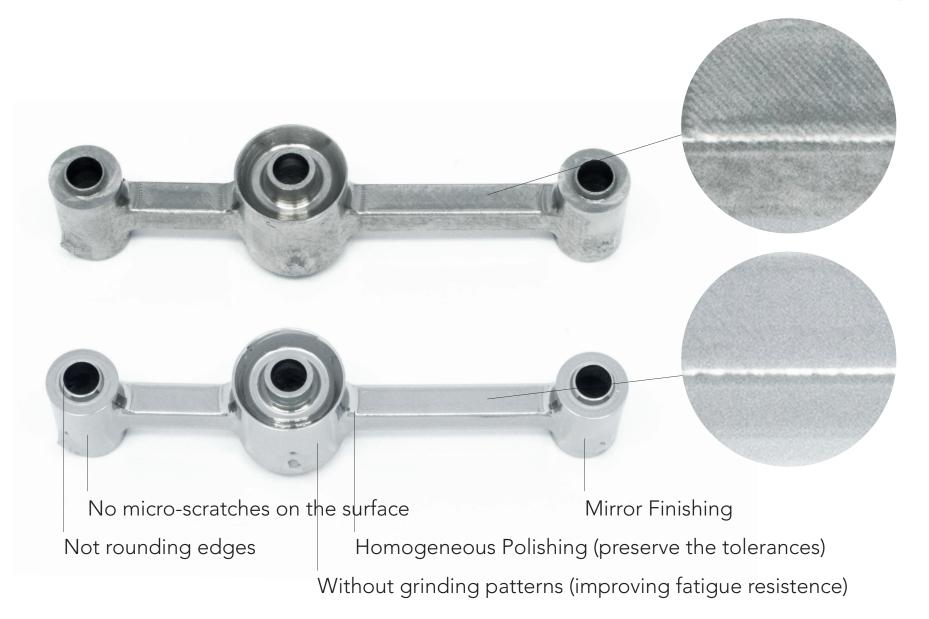
Despite being an electropolishing, the process does not generate oxidation and passivation of the piece.





MILLING / TITANIUM





DLyte® Series

	D Lyte1®	D Lyte 10°	D Lyte 100°	DLyte 1000°
DENTAL	D Lyte10°	D Lyte 100°	D Lyte 1000°	D Lyte 1000D®
HEALTHCARE	D Lyte1H®	D Lyte 10H®	D Lyte 100H®	D Lyte 1000H®
INDUSTRIAL			D Lyte 1001®	D Lyte 10001®
AERONAUTICS			D Lyte 100A®	D Lyte 1000A®
AUTOMOTIVE			D Lyte 100м®	D Lyte 1000м®
Bucket Volume	6 L	9 L	16 L	-
Max. Size Piece	75Ømm x 50mm	120Ømm x 50mm	180Ømm x 80mm	_

DLyte 100A°

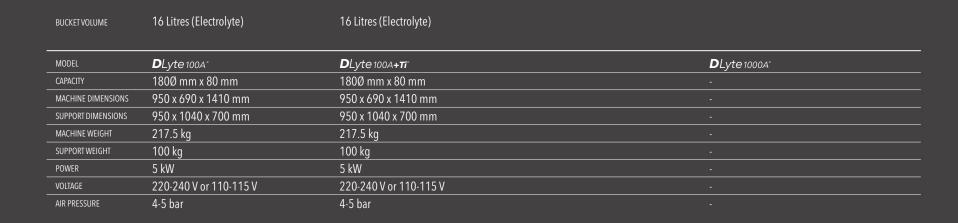
DLyte 100A+**Ti**°



GPAINNOVA DryLyte

New Machine for Mass Finishing

AVAILABLE SOON



DLyte1000M° **D**Lyte1000M**+Ti*** **D**Lyte 100M**+Ti**°















New Machine for Mass Finishing AVAILABLE SOON

BUCKET VOLUME	16 Litres (Electrolyte)	16 Litres (Electrolyte)	
MODEL	D Lyte 100М	D Lyte 100M +Ti	D Lyte1000M
CAPACITY	180Ø mm x 80 mm	1800 mm x 80 mm	
MACHINE DIMENSIONS	950 x 690 x 1410 mm	950 x 690 x 1410 mm	•
SUPPORT DIMENSIONS	950 x 1040 x 700 mm	950 x 1040 x 700 mm	•
MACHINE WEIGHT	217.5 kg	217.5 kg	•
SUPPORT WEIGHT	100 kg	100 kg	
POWER	5 kW	5 kW	
VOLTAGE	220-240 V or 110-115 V	220-240 V or 110-115 V	*
AIR PRESSURE	4-5 har	4-5 har	

DLyte[®]

DLyte 1001°









DLyte10001° **D**Lyte10001**+Ti***



» GPAINNOVA Drylyte

New Machine for Mass Finishing AVAILABLE SOON

BUCKET VOLUME	16 Litres (Electrolyte)	16 Litres (Electrolyte

MODEL	D Lyte 1001°	D Lyte 1001 +Ti	D Lyte10001*
CAPACITY	180Ø mm x 80 mm	180Ø mm x 80 mm	•
MACHINE DIMENSIONS	950 x 690 x 1410 mm	950 x 690 x 1410 mm	-
SUPPORT DIMENSIONS	950 x 1040 x 700 mm	950 x 1040 x 700 mm	
MACHINE WEIGHT	217.5 kg	217.5 kg	
SUPPORT WEIGHT	100 kg	100 kg	
POWER	5 kW	5 kW	
VOLTAGE	220-240 V or 110-115 V	220-240 V or 110-115 V	-
AIR PRESSURE	4-5 bar	4-5 bar	

GPAINNOVA DIVIVE



DLyte10° **D**Lyte10° **+Ti**

Chrome Cobalt Electrolyte -01/-02

Titanium Electrolyte



Chrome Cobalt Electrolyte -01/-02 Titanium Electrolyte

DLyte100° **D**Lyte100°**+Ti**



New Machine for Mass Finishing AVAILABLE SOON

DLyte[®]

BUCKETVOLUME	6 Litres (Electrolyte)	9 Litres (Electrolyte)	16 Litres (Electrolyte)	
MODEL	D Lyte _{1D} °	D Lyte10D*	D Lyte 100D°	D Lyte1000D°
CAPACITY	1 piece	3/6 pieces	9/18 pieces	
MACHINE DIMENSIONS	500 x 555 x 1145 mm	820 x 640 x 1220 mm	950 x 690 x 1410 mm	•
SUPPORT DIMENSIONS		820 x 1025 x 750 mm	950 x 1040 x 700 mm	
MACHINE WEIGHT	96 kg	173.5 kg	217.5 kg	
SUPPORT WEIGHT	-	87 kg	100 kg	
POWER	2 kW	3 kW	5 kW	
VOLTAGE	220-240 V or 110-115 V	220-240 V or 110-115 V	220-240 V or 110-115 V	
AIR PRESSURE		4-5 bar	4-5 bar	



AVAILABLE SOON



Chrome Cobalt Electrolyte -01/-02 New Machine for Mass Finishing

6 Litres (Electrolyte) 9 Litres (Electrolyte) 16 Litres (Electrolyte) BUCKET VOLUME

DLyte10H° **D**Lyte10H°**+Ti**

Chrome Cobalt Electrolyte -01/-02

Titanium Electrolyte

DLyte1H°

DLyte1H°+**Ti**

Chrome Cobalt Electrolyte -01/-02

Titanium Electrolyte

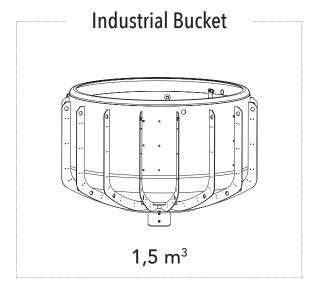
MODEL	D Lyte1H	D Lyte10H	D Lyte100H⁵	D Lyte1000H°
CAPACITY	75Ø mm x 50 mm	120Ø mm x 50 mm	180Ø mm x 80 mm	
MACHINE DIMENSIONS	500 x 555 x 1145 mm	820 x 640 x 1220 mm	950 x 690 x 1410 mm	-
SUPPORT DIMENSIONS		820 x 1025 x 750 mm	950 x 1040 x 700 mm	-
MACHINE WEIGHT	96 kg	173.5 kg	217.5 kg	-
SUPPORT WEIGHT		87 kg	100 kg	-
POWER	2 kW	3 kW	5 kW	
VOLTAGE	220-240 V or 110-115 V	220-240 V or 110-115 V	220-240 V or 110-115 V	
AIR PRESSURE		4-5 bar	4-5 bar	-

DLyte® **Holders**

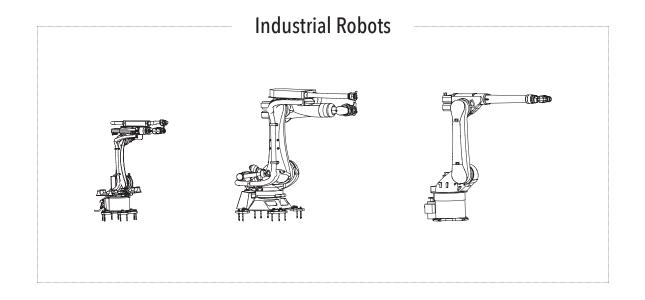


DLyte® Customized Solution

GPAINNOVA offers a **D**Lyte® customized solution designed specifically to fullfit industrial mass production requirements. A customizable system that adapts its design to the production chain where they must be integrated.



Capacity (up to 800Ømm x 500mm)





thank you.

GPAINNOVA