



GPAINNOVA
We are innovation.

11 years creating value

About **GPAINNOVA**

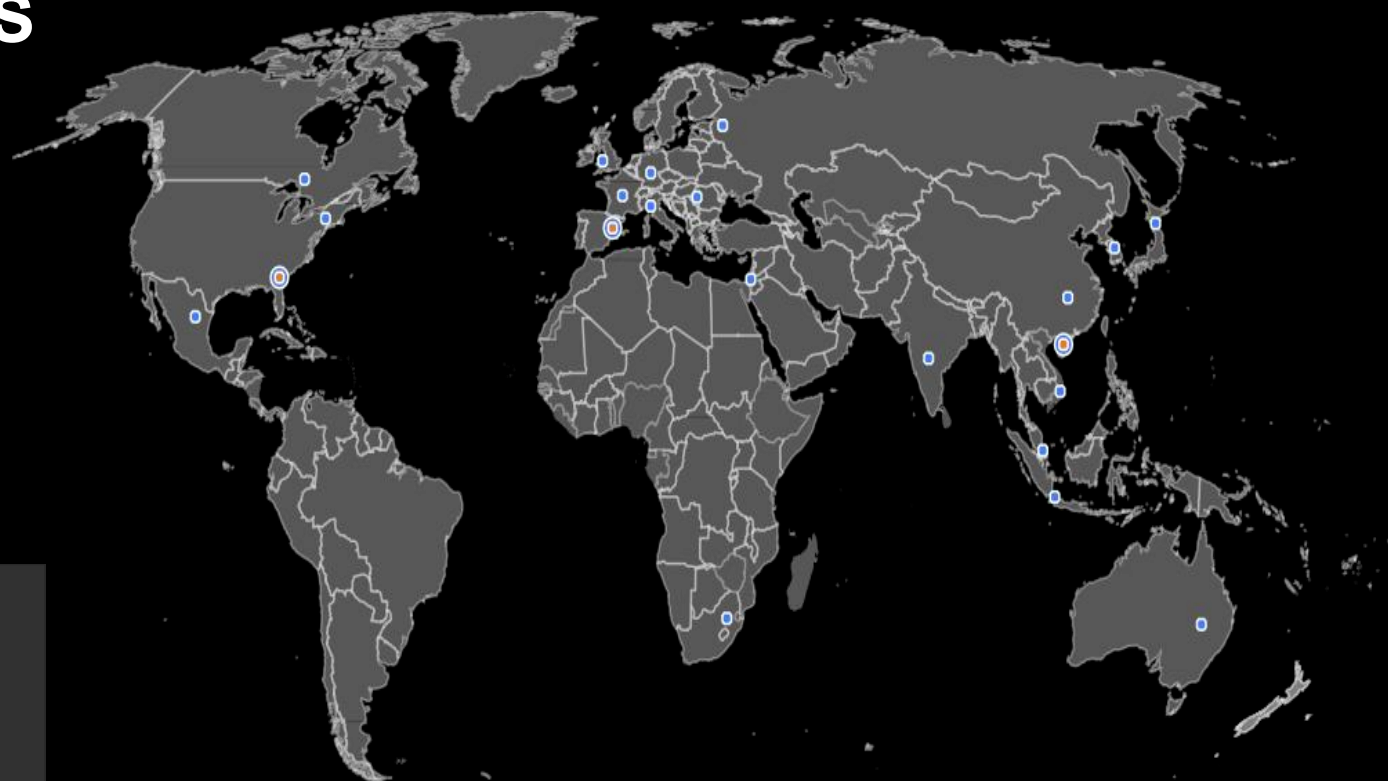
GPAINNOVA is a technology group established in 2013 in Barcelona, with subsidiaries in Sunrise (Florida, USA), Monterrey (Mexico), Hong Kong, and Shenzhen (China). Specializing in surface metal finishing solutions, with DLyte and MURUA, GPAINNOVA counts on more than 60 official distributors, more than 1,000 worldwide clients and more than 1,000 advanced machines installed worldwide.

GPAINNOVA has a team of >180 professionals on staff and >40 engineers, and had a revenue of €35 million in 2023. The company has been selected by *Financial Times* among Europe's 1,000 Fastest Growing Companies since 2020 for 5 consecutive years.



DLyte

Key Facts



+2,000
Dlyte machines

+1,500
Dlyte customers

+180
Employees

12
Patents in 24 countries

5

Sites around
the world

+60

More than
distributors

FT FINANCIAL
TIMES
statista

1000 EUROPE'S
FASTEST GROWING
COMPANIES

2020
2023

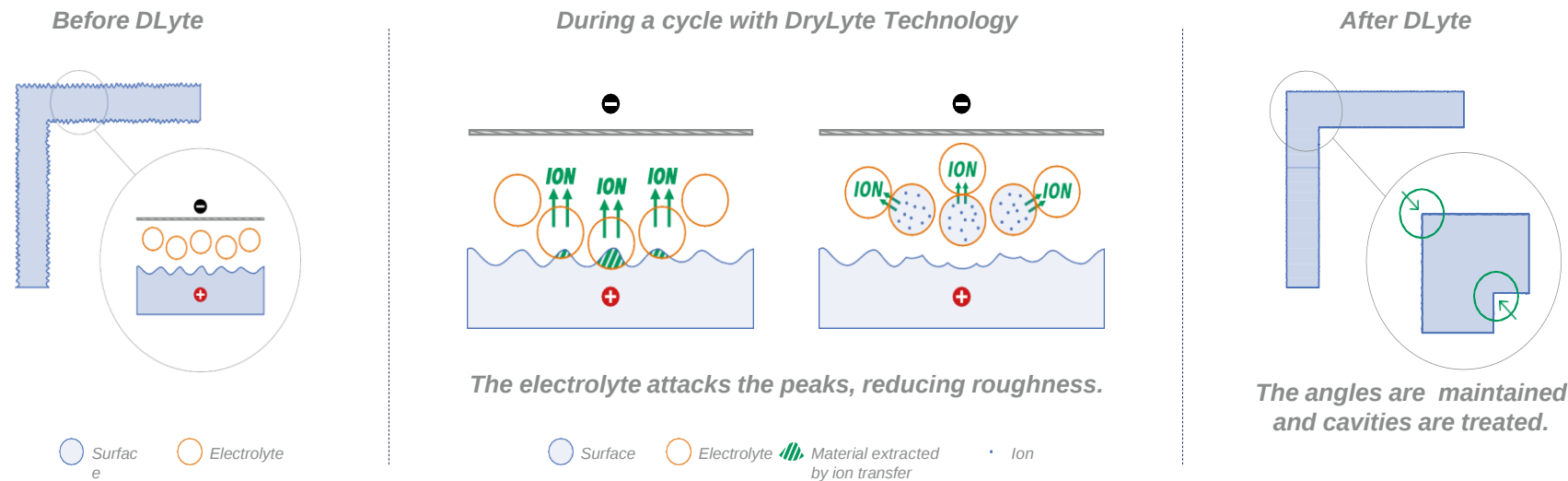
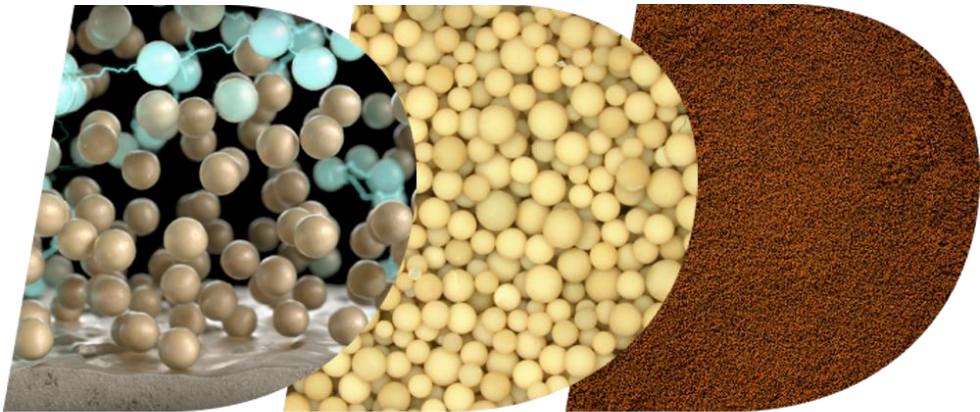
12th Mechanical Engineering
Company in the Financial Times
Europe's fastest-Growing
Companies Ranking in 2024



products & technologies

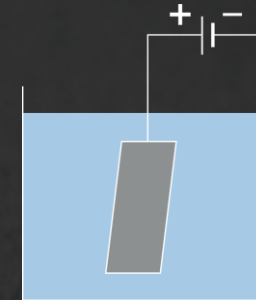
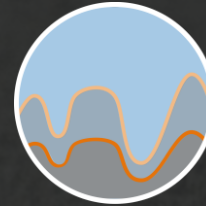
DRYLYTE TECHNOLOGY

DryLyte is a patented technology for grinding and polishing metals by ion transport using free solid active bodies. The liquid acids are replaced with a set of tiny solid spheres of polymeric material capable of retaining liquid electrolyte and conducting electricity, while removing the oxides produced during the electropolishing process.



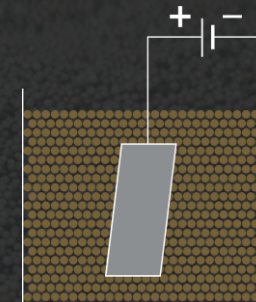
Liquid Electropolishing

- All surfaces contact liquid
- General oxidation
- Low discrimination



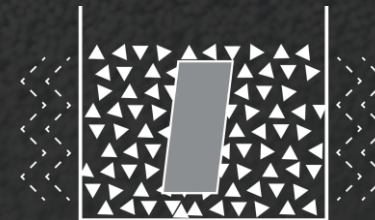
DryLyte Technology

- Spheres contact on roughness peaks
- Localized oxidation
- Selective removal of metal
- Geometry preservation
- Improved corrosion resistance



Abrasive Finishing

- Plastic deformation of roughness peaks
- Inclusion of broken abrasive
- No improved resistance to corrosion
- Rounding of peaks and geometry harm



SURFACE FINISHING PROCESS	MATERIAL		
	Titanium (Ti6Al4V)	Stainless Steel (1.4404)	Aluminum (AlSi10Mg)
			
			
			
			
			

SURFACE FINISHING PROCESS	MATERIAL		
	Titanium (Ti6Al4V)	Stainless Steel (1.4404)	Aluminum (AlSi10Mg)
			
			
			
			Not investigated

	MANUAL POLISHING	AUTOMATED MECHANICAL POLISHING	CHEMICAL POLISHING	LIQUID ELECTROPOLISHING	COMPUTER NUMERICAL CONTROL POLISHING	DLyte
RESTRICTION ON GEOMETRY	≈	✗	✓	✓	≈	✓
SURFACE QUALITY	≈	≈	✗	≈	✓	✓
LEAD TIME	✗	✗	≈	✓	✗	✓
CONTAMINATION ON THE SURFACE	✗	✗	✗	✗	✓	✓
EASY OF USE	✗	✓	✗	✗	✗	✓
CAPEX	✓	✓	✓	✓	✗	≈
OPEX	✗	✓	✓	≈	✗	✓
HEALTH & ENVIROMENT	✗	✗	✗	✗	✓	✓

DLyte: Game changer for metallic surface treatments

GPAINNOVA

**Market Size for metal finishing
(TAM) €87,000M**

**Estimated growth
>4% (2021-2026)**

DLyte is a surface finishing system for metal parts requiring high performance or superior finishing.

DryLyte brings significant technical advantages over competing technologies, such as abrasive finishing, robotic grinding and polishing, mechanical brush and grinding systems. In addition, it allows the user to obtain a quality equivalent to manual grinding and polishing fast and cost-effectively.

Unlike traditional systems, the DLYte system obtains consistent finish, avoiding any marks on the surface, patterns and is able to process complex geometries without generating micro scratches on the surface.

DLyte respects the tolerances of the piece, delivering a mirror finish.

FINISHING PROCESSES **RANGE OF MATERIALS**

- + Precision finishing
- + Smoothing
- + Mirror finishing
- + Deburring
- + Rounding
- + Corrosion resistance
- + AM post-processing
- + Inner channels

- + Cobalt Chrome
- + Stainless Steel
- + Carbon Steel
- + Carbides
- + Nickel Alloys
- + Aluminium Alloys
- + Copper Alloys
- + Titanium Alloys



01. Aerospace

02. Automotive

03. Dentistry

04. Food & pharma

05. Jewelry & fashion

06. Medical device

07. Toolmaking

DLyte

GPAINNOVA

DLyte, based on the patented DryLyte Technology, is the world's first dry electropolishing machine for the most common industrial metals and alloys.

It automates, simplifies and standardizes the post-processing of metal parts, improving the finish obtained with traditional surface finishing systems.



Desktop



Compact series



DLyte 100PRO
Automated Cell



eBlast



PRO500 series



Multiprocess

Benefits of DLyte

1

Respects the tolerances and preserves the initial shape, even the cutting edges

2

Achieves homogeneous results across the surface and eliminates micro-scratches.

3

Avoids contamination on the surface and no traces of hydrogen on the surface

4

Increases resistance to corrosion

5

Fully automatic polishing to a mirror finish in one step.

6

Ability to process without programming (especially important for AM)

Benefits of DLyte

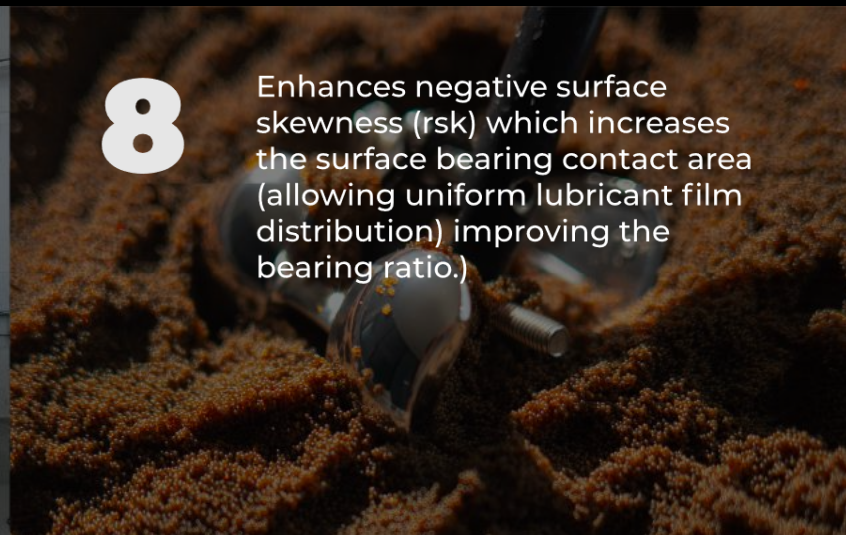
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Traceable industrial process



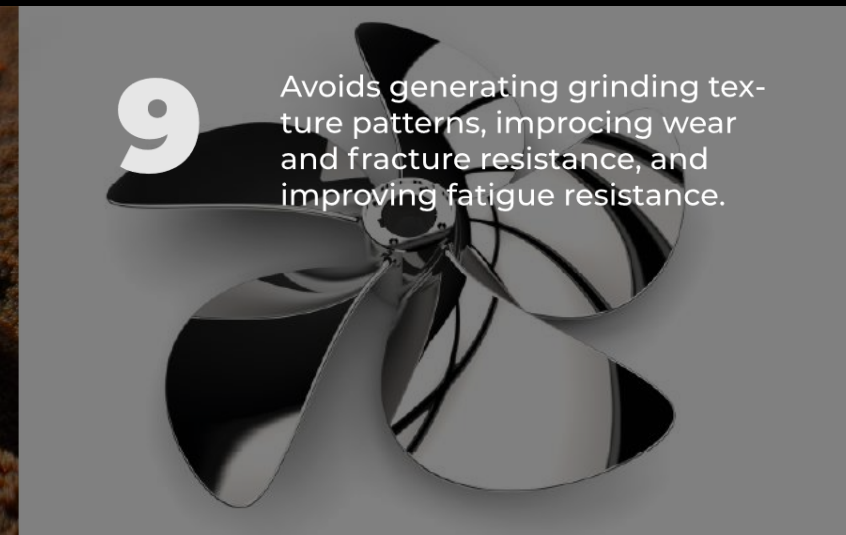
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Enhances negative surface skewness (rsk) which increases the surface bearing contact area (allowing uniform lubricant film distribution) improving the bearing ratio.)



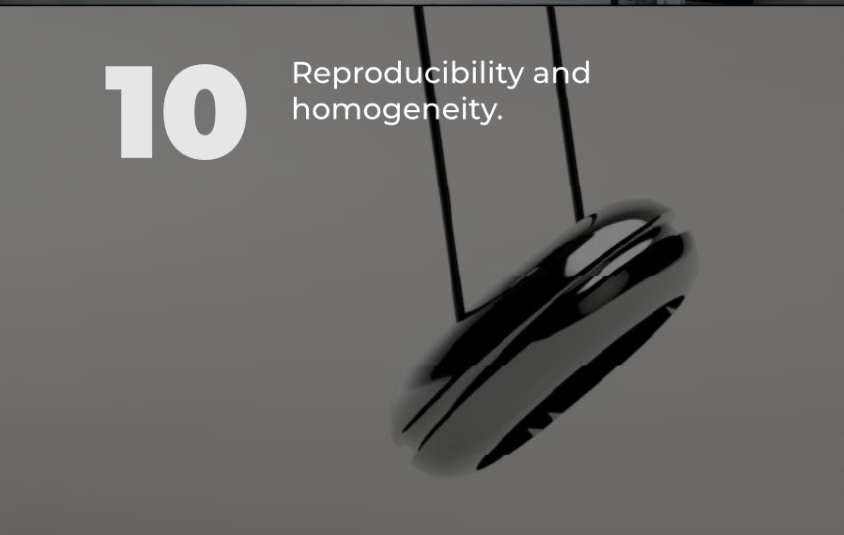
9

Avoids generating grinding texture patterns, improving wear and fracture resistance, and improving fatigue resistance.



10

Reproducibility and homogeneity.



11

Controlled costs and predictable lead times



12

Clean, non-hazardous and easy waste management.



UNIQUE SELLING PROPOSITION

Time Saving

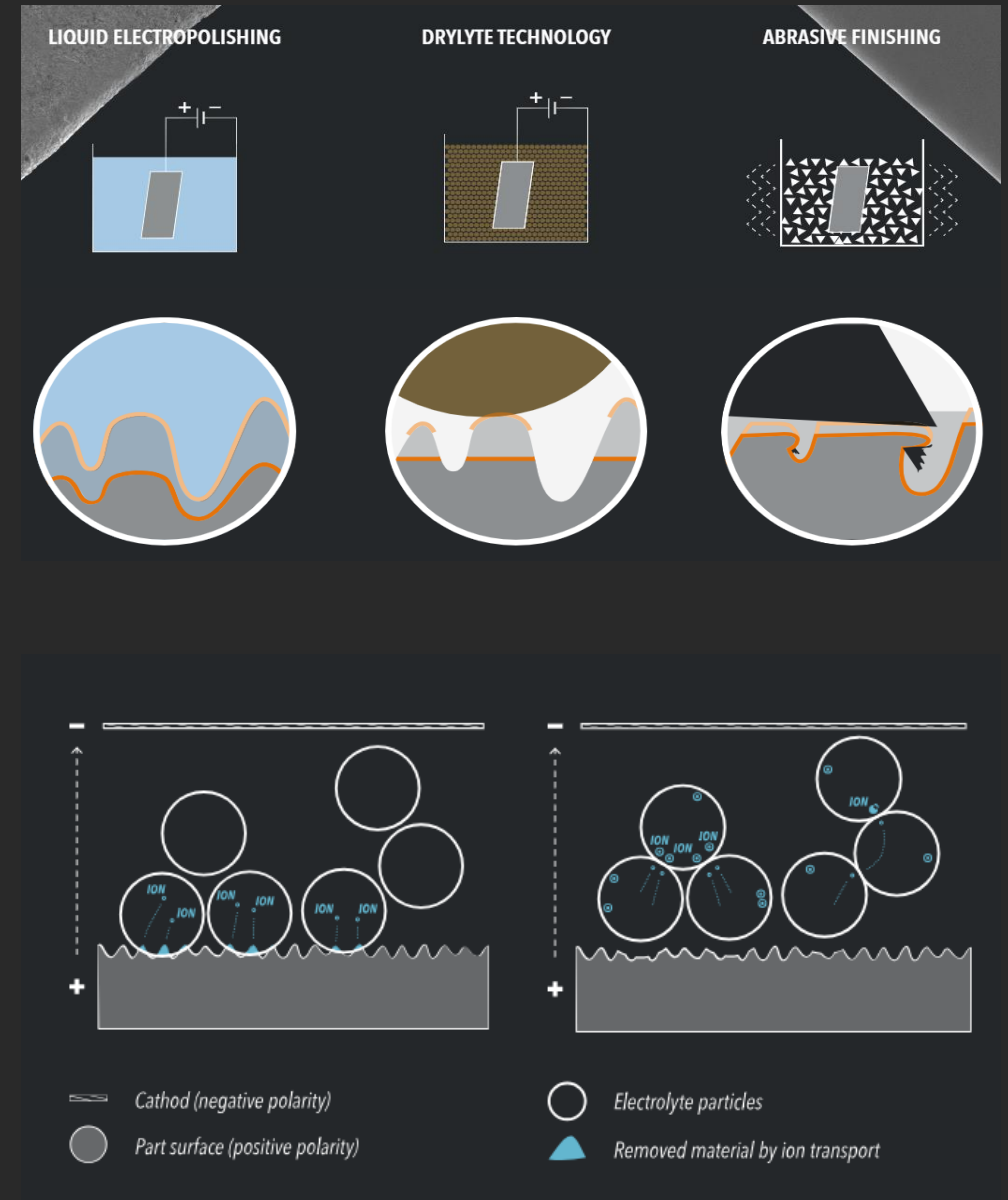
Respects initial geometries

Controlled production

Lower costs

Resistance to corrosion

Automation



Our Samples

Solutions for all sectors



Inox 316L / Sintering



Titanium / Sintering



Inconel 718 / Milling



Cobalt Chrome / Milling



Cobalt Chrome / Sintering



HSS 1.3343 / Milling



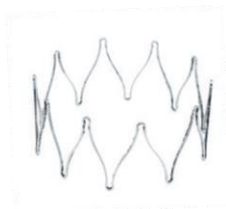
Cobalt Chrome / Milling



Inox 316L / Sintering



Inox 316L / Sintering



Nitinol / Laser Cut



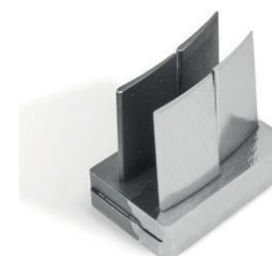
Cobalt Chrome / Casting



Titanium / Milling



Titanium / Milling



Inconel / Sintering



Cooper / Casting

SUCCESS CASES



Removable
partial dentures



Mixers &
agitators



Knee
implants



Tablet
punches



Surgical saw
blades



Surgical
instruments



HIP femoral
stems



Injection molding
polishing



Valve inner
channel



Bone cutting
saws



Compression
molding tools



Eyewear surface
finishing



Brass
instruments



Grinded carbide
insert polishing



Hydro
turbines



Carbide insert
die polishing



Carbide insert
polishing



Handle
Knives

The background of the entire slide is a high-quality image of Earth as seen from space. The horizon of the planet is visible at the bottom, with the blue atmosphere and dark landmasses. A brilliant light source, likely the sun, is positioned directly behind the horizon, creating a strong lens flare and illuminating the scene. The sky is a deep black, filled with numerous small, distant stars.

thanks

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