



THE NEW CONCEPT OF POLISHING
*The First **Dry** Electropolishing System*

The new concept of polishing



***"The only automated
system that improves
the results of hand
polishing".***

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

New production technologies allow the creation of very complex geometries but until now, any post-processing system has matched the desired technical requirements. DLyte allows and ensures that the final finish meets these technical specifications.



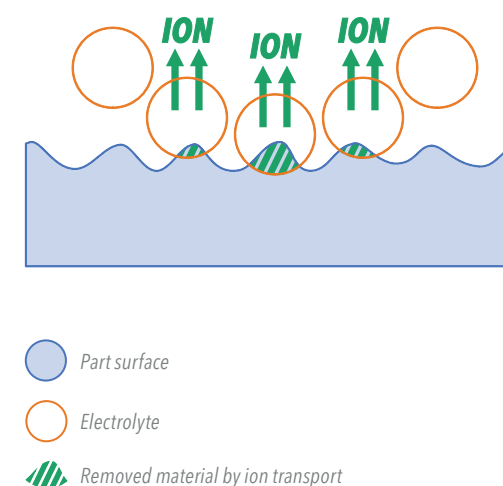


Unlike traditional polishing systems, DLyte system **obtains consistent finish** avoiding any marks on the surface, patterns such as those generated by machining, and is **able to process complex geometries without generating micro scratches on the surface**. DLyte **respects the tolerances of the piece, delivering a mirror finish**.

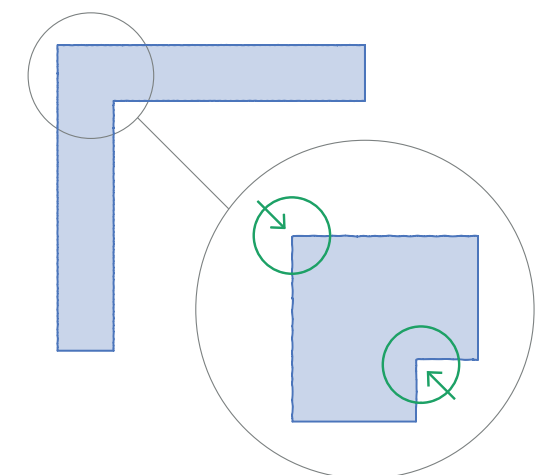
The first dry electropolishing system

DLyte is a polishing system for metal parts that require high performance or superior finishing. A revolutionary dry electropolishing that is based in a solid media.

"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".



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

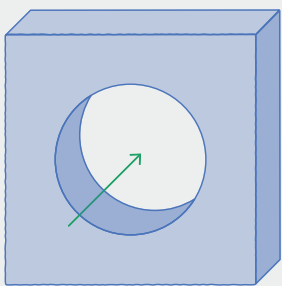


The process does not round edges and can penetrate the internal cavities of the piece.

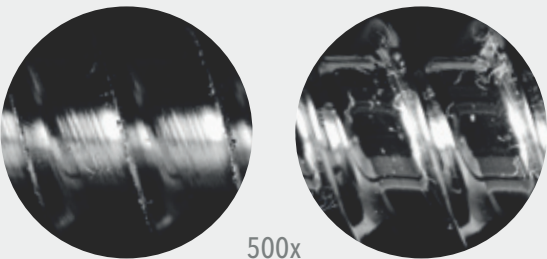
Benefits of the technology

- Product benefits
- Additional benefits
- Process & Production benefits

Product benefits



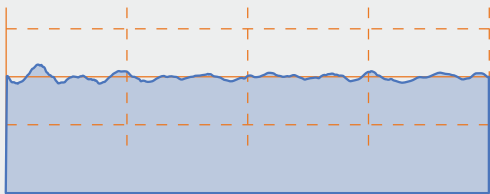
Easy processing through channels and cavities.



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

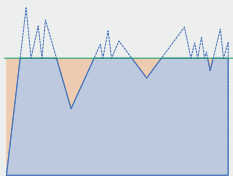


Respects the tolerances and preserves the initial shape, even the cutting edges.

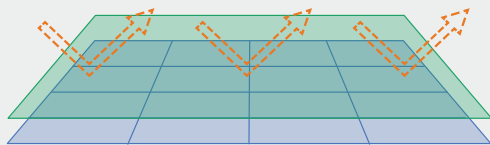


Ra under 0,09 micrometers.

Additional benefits



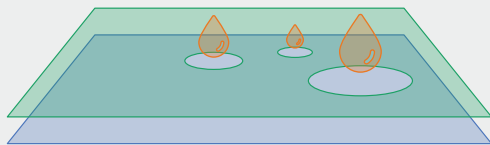
Enhances negative surface skewness (rsk) which increases the surface bearing contact area (allowing uniform lubricant film distribution) improving the bearing ratio.



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

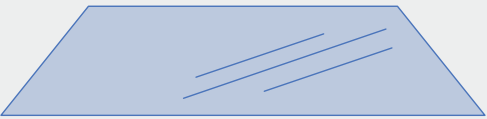


Avoids contamination on the surface and no traces of hydrogen on the surface.



Increases resistance to corrosion.

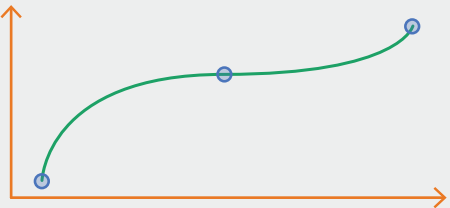
Process & Production benefits



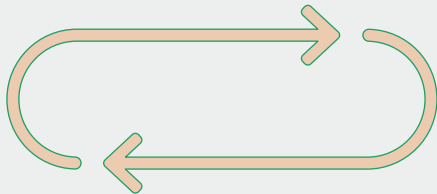
Fully automated polishing
to a mirror finish in one step.



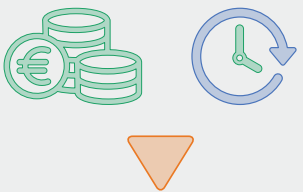
Ability to process without programming
(especially important for AM).



Traceable industrial process.



Reproducibility and homogeneity.



Controlled costs and
predictable lead times.



Clean, none-hazardous and
easy waste management.

Proved Biocompatibility

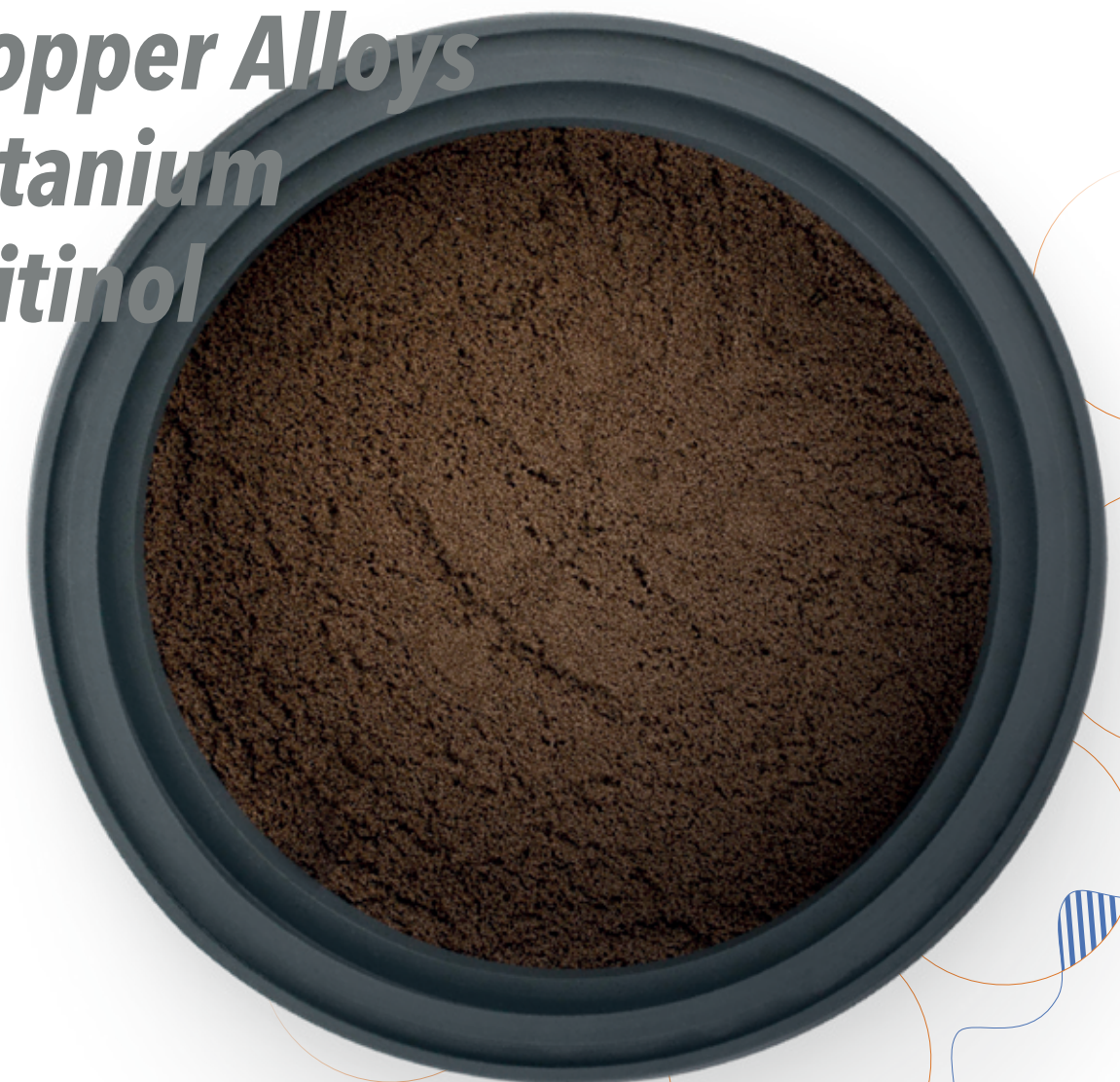
The Medical and Dental Device sectors require clinically proven processes and products which guarantee their compliance with the most demanding safety regulations. The manufacturer must ensure that the devices meet all appropriate requirements and in particular perform a risk/benefit analysis and evaluate the biocompatibility and toxicity of the materials used.

DLyte has proven the Biocompatibility of the products processed with DLyte System.

The study has been made according to the specifications of standard UNE-EN-ISO 10993-5:2009.

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

Thanks to the wide variety of electrolytes, DLYte provides solutions to the most common industrial metals and alloys.



Inco 316L | Sintering



HSS 1.3343 | Milling



Copper | Casting



Inco 316L | Sintering



Titanium | Sintering



Titanium | Milling



Inco 316L | Sintering



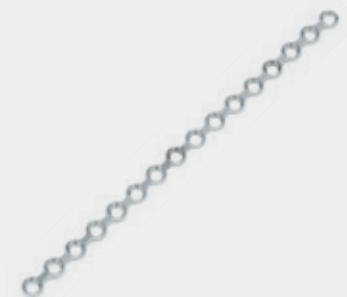
Brass | Casting



Cobalt Chrome | Milling



Cobalt Chrome | Casting



Titanium | Milling



Cobalt Chrome | Sintering

From small to large productions

According to polishing needs, production quantities or piece dimensions, DLyte offers a unique solution to meet the needs of the industry.

The entire product range allows automation of the polishing process ensuring high scalability production.



DLyte1



DLyte10



DLyte100

Compact Series

75 Ø x 50mm*

120 Ø x 50mm*

180 Ø x 80mm*



DLytePRO500

PRO Series

750 Ø x 330mm*

DLyte® Services



Training
and consulting



Full service
package



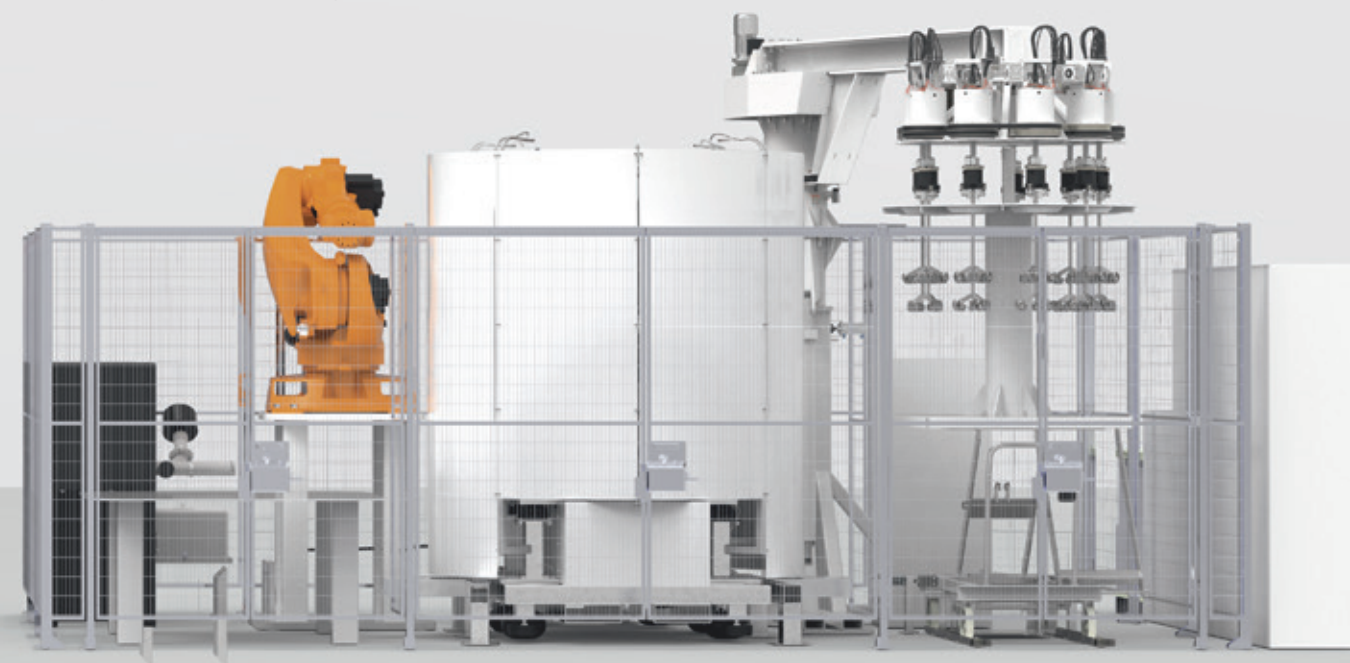
Warranty extension
package



Software updates

SOLUTION FOR MASS PRODUCTION, COMPLEX & LARGE GEOMETRIES

DLyte systems are designed to be integrated
in any industrial chain process.



DLyte10.000

Customized Solutions

1400 Ø x 900mm*

* Maximum size per piece permitted for each model.

We tailor solutions to your needs

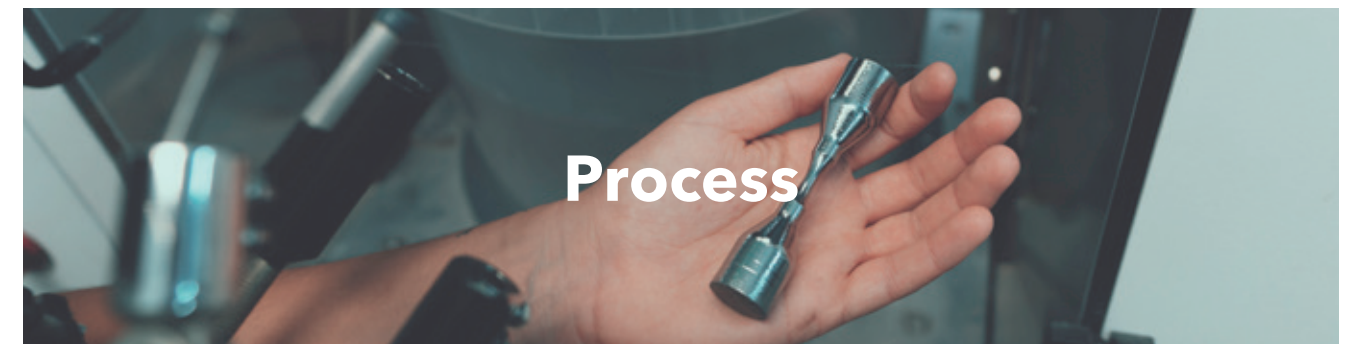
We suit our DLyte Technology to cover your needs.

- Polishing constraints won't be your limitation anymore.
- Just contact us, we'll do the rest.

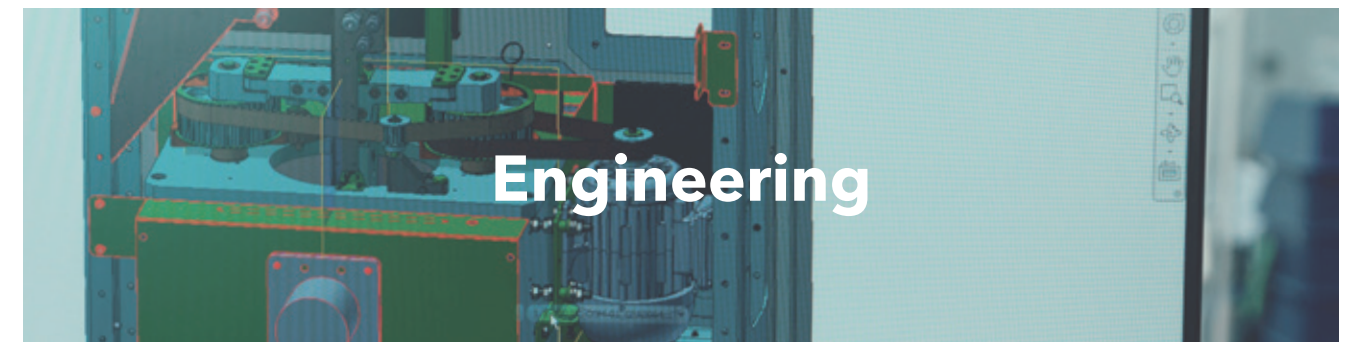


Custom project development

1. Polishing needs: concept and goals
2. Polishing assesment: real tests with DLyte technology
3. Customized engineering development
4. Production phase
5. In-house validation
6. Onsite installation
7. Service



Process



Engineering



LAB

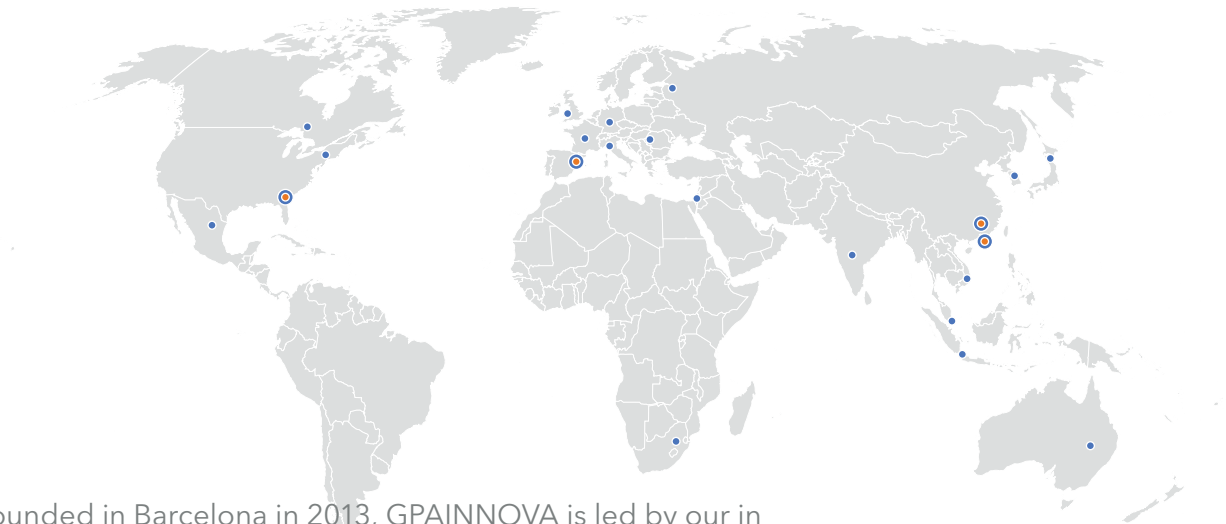


Production



Service

GPAINNOVA



Founded in Barcelona in 2013, GPAINNOVA is led by our in house engineers, dedicated to the research and development of solutions for the surface finishing of metal parts. In 2017, we developed the DLyte system, a revolutionary and innovative polishing system delivering outstandingly consistent results, securing our place as the leading manufacturer of dry electropolishing machinery.

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