

## **PRES-X (BEAMIT Group) and GPAINNOVA: green technology at the heart of the partnership for precision surface finishing in Additive Manufacturing**

***PRES-X, a center of excellence (CoE) for research and development in finishing technologies, becomes official distributor for DLYte dry electropolishing machinery in Italy***

**Rubiera (Reggio Emilia) Italy, 25 May 2021**

PRES-X is pleased to announce a strategic partnership with GPAINNOVA, a Spanish company specializing in manufacturing of innovative systems for surface finishing in some of the most demanding industrial sectors: Healthcare, Automotive, Industrial engineering and Aeronautics.

PRES-X becomes therefore the testing and consulting services center in Europe for DryLyte® technology, enabling a complete range of eco-friendly services to introduce such technology based on customer's demands.

With PRES-X, BEAMIT Group is the first to offer the complete and eco-sustainable DryLyte® service line, with a decisive leap forward to support customers in the application of strategies centered on sustainable productivity, while ensuring an integrated value chain throughout the process, from metal powder sourcing by Sandvik Group, to the highest surface finishing quality.

"We are very proud to be the first company to offer its customers an eco-sustainable solution representing a shift in high-precision finishing operations, especially for extremely hard and abrasion-resistant materials, pushing these operations to an unprecedented dimension", states Andrea Scanavini, PRES-X President and BEAMIT Group General Manager. "At our center in Rubiera, we have already installed three machines and we are now eager to show our customers how the DryLyte® process can make production more efficient, guaranteeing extreme repeatability, reducing costs, and shortening delivery times", assured Scanavini.

According to Pau Sarsanedas, GPAINNOVA co-founder and CEO, "The partnership with PRES-X strengthens the presence of GPAINNOVA in Italy, because it allows us to offer a better service, while boosting its growth and internationalizing our patented surface finishing technologies, DLYte and MURUA".

"The DryLyte® finishing process, included in the technological range already available at PRES-X, completes and enhances our idea of tailor-made solutions for customers: it has been designed to revolutionize the global market. PRES-X Technology Center will be a meeting point where customers will be able to choose between tailor-made services and purchasing the most suitable system for metal processing. This strategic partnership enables PRES-X to offer a complete assistance service through skilled technicians on DLYte installations in Italy", concludes Scanavini.

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**Photos:** [https://drive.google.com/drive/folders/1snOQ7aPQ8DW1N0yq\\_DoWqA2rtMxVqHNF?usp=sharing](https://drive.google.com/drive/folders/1snOQ7aPQ8DW1N0yq_DoWqA2rtMxVqHNF?usp=sharing)

- 1) Andrea Scanavini, President PRES-X (left) - Pau Sarsanedas, GPAINNOVA co-founder and CEO (right)
- 2) DLYtePRO500 performs high-quality metal surface finishing processes faster and more efficiently than traditional technologies
- 3) A propeller treated with DryLyte® technology
- 4) The peculiarity of DLYte 10.000 is the simultaneous polishing of hundreds of components
- 5) A PRES-X technician working with a DLYtePRO500 machine

**For further information**

- [www.pres-x.com](http://www.pres-x.com)
- [www.beam-it.eu](http://www.beam-it.eu)
- [www.dlyte.es](http://www.dlyte.es)
- [www.gpainnova.com](http://www.gpainnova.com)

**About PRES-X**

PRES-X is an innovative company based in Rubiera (Reggio Emilia, Italy) working in the Additive Manufacturing sector, specialized in highly qualified post-processing solutions both for additive and traditional manufacturing: from depowdering to precision surface finishing.

In PRES-X a number of cutting-edge technologies are developed and industrialized to make post-processing more efficient, cheaper and green, covering all necessary phases in a single plant through a fully automated digital approach.

It was the first company to install a HIQ60 system by Quintus, a technology especially designed for AM components. This system performs high pressure heat treatments, with specific characteristics for a complete control of the heat cycle, enabling heat isostatic pressing (HIP) and heat treatment.

In 2020 BEAMIT Group acquired a significant stake in PRES-X.

**About GPAINNOVA**

GPAINNOVA is a technology group born in 2013 in Barcelona, with subsidiaries in this city, Sunrise (Florida, USA), Hong Kong and Shenzhen (Mainland China) and specializing in surface metal finishing machinery, with DLYte and MURUA; medical devices with Respira Device.com Advanced, USV (Unmanned Surface Vehicles) with GPASEABOTS and high performance power electronics, with POWER INNOTECH. GPAINNOVA has a team of more than 180 professionals on staff and more than 35 engineers, and had a revenue of €15.8 million in 2020. The company has been selected by Financial Times among the 1,000 Europe's Fastest Growing Companies in 2020 and 2021.

**About BEAMIT Group**

BEAMIT Group is one of the most advanced Additive Manufacturing service providers in the world to serve the most demanding industries: a truly global Additive Manufacturing (AM) hub offering a fully integrated value chain. Based in Fornovo di Taro (Parma, Italy), BEAMIT has been operating in the field of AM with metal powders for 24 years. With close to 60 dedicated AM systems distributed in over 7 facilities between Italy and UK today the Group counts over 140 employees.

BEAMIT Group specializes in high-end metal AM components for demanding industries like Aerospace, Automotive, Energy, Racing and Industrial Engineering, and holds many relevant quality certifications, including AS/EN 9100:2018 for Aerospace, IATF Automotive, Nadcap accreditation for Heat Treatment Processes and Laboratory and Nadcap Welding accreditation – Additive Manufacturing commodity.

In 2019, **Sandvik Group**, global leader in hi-tech engineering and metal powder with the widest range of alloys for Additive Manufacturing as well as remarkable expertise in AM printing technologies for advanced metal components, acquired a significant stake in BEAMIT.

In 2020, BEAMIT acquired a significant stake in PRES-X, an innovative start-up in the field of special post-production processes for 3D printing. BEAMIT then acquired 100% of Italian AM service bureau ZARE.

In 2021 BEAMIT Group has acquired 3T Additive Manufacturing (Newbury, UK). 3T Additive Manufacturing holds some of the highest quality certifications for deliveries to Aerospace and Medical and is an approved supplier for serial production by many leading OEMs across the UK, Europe, US and Japan.

Today BEAMIT Group has a turnover of €22 million.

## **DLYTE TECHNOLOGY AT PRES-X**

### **Titanium and complex geometries**

The range of machines produced by GPAINNOVA for the treatment of titanium has a particular versatility, capable of grinding and polishing small titanium alloys, such as those aimed at the dental sector. It also provides a unique solution for many rotary and aerodynamic components or parts with complex geometries for the Aerospace industry and Automotive sector, enabling homogeneous deburring and polishing, without changing the material properties, preserving at the same time the geometry of each component. Although being electropolishing, the process does not generate oxidation and passivation of the component.

### **How the technology works**

Inside DLYte machines installed at the PRES-X headquarters in Rubiera, components are attached to special housing systems. In most cases these supports are dragged into the basket containing the dry electrolytic media through a combination of specifically designed movements. The systems are available in several versions, in order to treat a wide range of components, and include a vibration tank and an aeration system. The system is equipped with a high-performance cathode inside the perimeter and at the bottom of the drum, to ensure uniform electric fields and, consequently, homogeneous surface results. The conductivity of dry electrolytes is guaranteed by a testing device and a precision pump with automatic adjustment, all programmed specifically on the components by PRES-X technicians.

### **Homogeneous finishing**

The technology on which DLYte machines are based was patented in Spanish and is owned by GPAINNOVA. It is suitable for finishing processes with specific demanding requirements, in particular for delicate parts with very low dimensional tolerances and high value that must not be affected in any way. The machines operating with this technology can carry out a dry electropolishing treatment that does not use liquid electrolytes. With skills and experience of GPAINNOVA and PRES-X technicians, the DryLyte® process guarantees a more uniform finish than traditional polishing systems, without surface micro-scratches and in full compliance with the required tolerances, regardless of the conditions of the starting component.