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Navantia relies on the Discovery 3D Printers as part of its innovative SHIPYARD 4.0 model

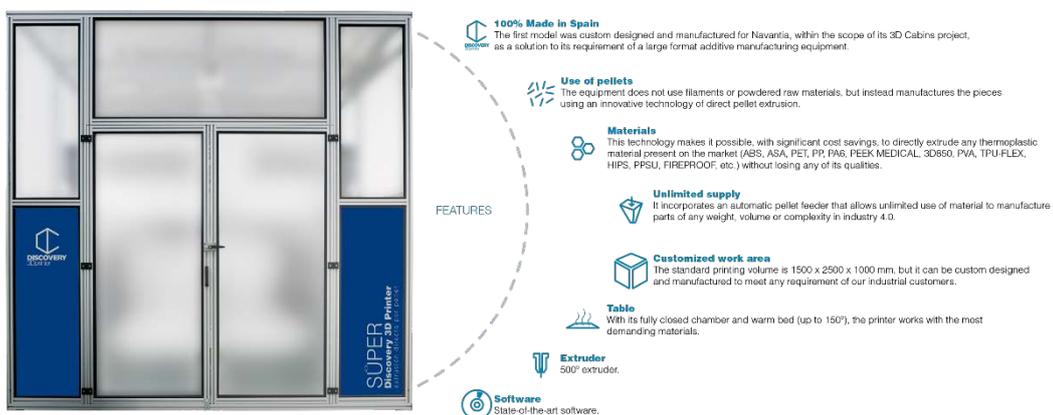
As referred by [EFE news agency](#) and other media, "the public company **Navantia** is moving forward to transform its plants into **shipyards 4.0** with the use of new technologies, such as the additive manufacturing techniques, already in place, which it will allow to reduce costs and deadlines and increase the quality of products and the sustainability of processes. "

At **CNC Bárceñas** we are very proud to collaborate with **Navantia**, the leading company in the Spanish naval sector and among the biggest shipbuilding companies in Europe, in one of its most strategic projects.

Our collaboration began in 2016, when **Navantia** chose **CNC Bárceñas** as the manufacturer of its large-format industrial 3D printer for the **3D Cabins project**. The objective of the project is the production of fully functional vessel cabins through the selection and research of the most suitable technologies, equipment and materials. Within the scope of this project, **CNC Bárceñas** designed and manufactured the [Super Discovery 3D Printer](#), a large and high productivity 3D printer that works through direct pellet extrusion, a unique technology in the market that allows the manufacture of extra-large format prototypes, parts or structures with a significant cost reduction compared to other 3DP technologies.

The project, presented to the media on January 18, has "resulted in the real-scale manufacture of two prototypes of modular toilets for naval cabins and two ventilation grilles, already installed in the first SUEZMAX-type ship unit currently under construction ", and it is - as underlined by the project manager in Navantia, Víctor Casal - " the first international milestone of installation of printed parts using this technology in the construction phase of a ship ".

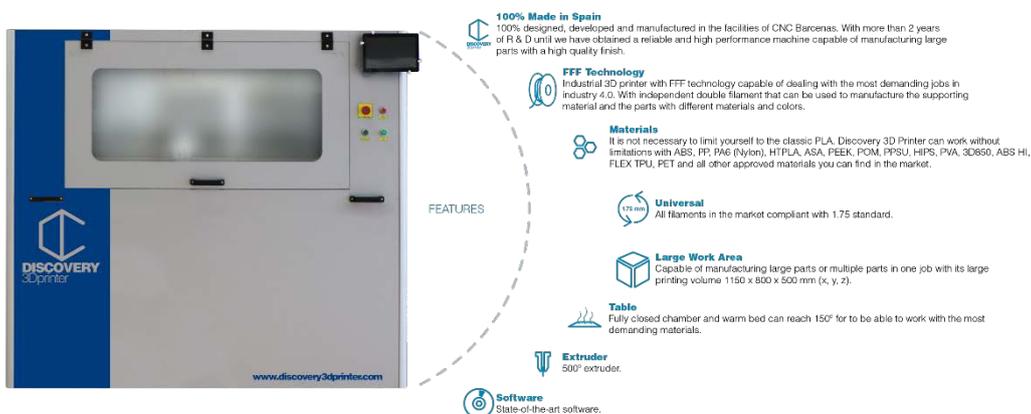
[Super Discovery 3D Printer](#) is, with its innovative technology, a "pioneering 3D industrial printer in Europe (...) capable of producing parts up to 3m³". It is designed to work at high speed, without stopping and almost without supervision, since it includes a real-time video monitoring system accessible from any device with an Internet connection.



"**Navantia** has already started a new research project, called " ADIBUQUE ", which aims to optimize the possibilities and flexibility offered by this technique.", And will continue to rely on CNC Bárceñas as a strategic technological partner for the design and production of additive manufacturing equipment and other industrial machinery.

CAF, a leading company in the European railway industry, has also chosen **CNC Bárcenas** to develop advanced manufacturing innovative projects with high performance materials, since the **Super Discovery 3D Printer** is capable of working with any thermoplastic of the market, even with those who must comply with special regulations (fireproof, halogen-free, high resistance to extreme temperatures, etc.).

CNC Bárcenas also manufactures the **Discovery 3D Printer**, an industrial 3D printer that works with FFF (Fused Filament Fabrication) technology, with important references in the industry such as **Navantia** itself, **BSH** or **Scutum**. It incorporates an innovative dual extrusion technology, capable of producing large format prototypes, spares or fully functional parts with excellent finishes with any homologated filament present in the market. Its quality/price ratio, taking into account the printing volume (1.150x800x500mm), is one of the most competitive in the 3DP market.



CNC Barcenas is a 100% Spanish company dedicated since 2009 to the manufacture and commercialization of CNC (Computerized Numerical Control) machinery. Dozens of clients – from SOHO to large corporations or public administration - are our best endorsement.

In 2015, we designed and manufactured our first high-performance 3D industrial printer with a very competitive price, designed for the production of small and large format parts, tools and prototypes adapted to the needs of Industry 4.0.

In 2017, we launched a new line of business related to **industrial metrology** through the commercialization of laser technology **3D scanning equipment and software**, which complements the requirements of our customers in the areas of manual 3D scanning of almost any object, however large, for its measurement, analysis, 3D modelling, reverse engineering and other applications.

All our production has the seal of European Conformity (Conformité Européene or CE Marking) and the quality guarantee approved by ISO 9001 certification.

We design and manufacture - through special and turnkey projects - customized industrial AM equipment and special machinery to automate processes; We advise our clients in the use of 3D technologies and cutting-edge materials, solving 3D or CNC manufacturing and post-processing problems; We provide training and support in the use of all the software we sell and in general we provide **global solutions with high added value to the needs of our customers in the fields of additive and mechanized manufacturing.**