Discover the real

LARGE FORMAT 3D PRINTING
+ POST-PROCESSING

Super Discovery 3D Printer WORKSTATION

All in one solution
High performance · Reliability · Cost savings

DISCOVERY 3Dprinter
www.discovery3dprinter.com

CNCbárcenas
www.cncbarcenas.com

SUPER DISCOVERY 3Dprinter
WORKSTATION

OFFICIAL PROVIDER
sabic
PELLET

3D Printing + Postprocessing

The perfect combination between large format industrial 3D printing and post-processing system by milling

3D Printing | Postprocessing

> **More production and speed.**
> **Significant cost reduction.**
> **Self-leveling bed that automatically compensates for small unevennesses during printing.**
> **Robust and precise CNC technology for postprocessing.**

It meets the production needs of a large number of large parts and prototypes. It **works by directly extruding the pellet**, which lowers the cost per piece manufactured, **increasing production and reducing costs significantly**. Thanks to its built-in **postprocessing** system, you can print and post-process the parts on the same machine. The process is simple and fast. Its special structure allows to have the entire production volume, hiding both the extruder and the milling motor outside the worktable. It is possible to use it as a CNC milling machine for the production of 2D and 3D milled parts.

100% Made in Spain
100% designed, developed and manufactured in the facilities of CNC Bárcenas.

Use of Pellet
The Super Discovery 3D Workstation works with direct pellet extrusion technology.

Materials
It allows to use any thermoplastic such as ABS, ABS CF, PC CF, PPE CF, 3D850, ASA...

Universal
Automatic pellet feeder there is no limitation on the quantity of material or therefore in the weight of the pieces.

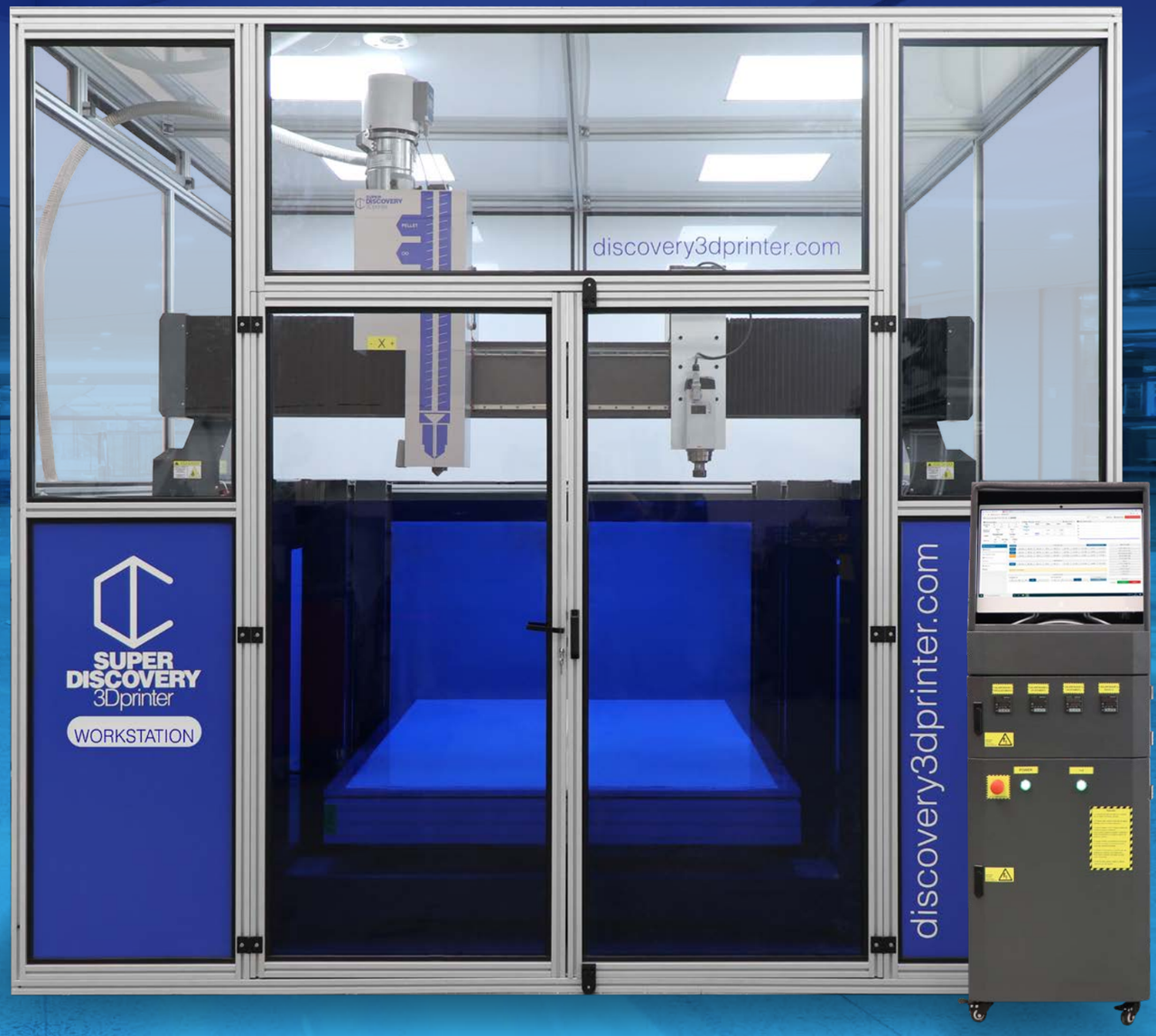
Table
Fully closed chamber and warm bed (up to 175º) with SELF-LEVELING for the most demanding materials.

Extruder
450º extruder.

Milling Motor
High frequency brushless motor with air-cooled ceramic bearings.
· ER32 tool holder from 1 to 20 mm.
· 4,500 to 18,000 rpm, with adjustable speed from the machine control panel.
Able to perform large postprocessing work, as well as cuts, carvings or 3D engravings in plastics, resins, foams, wood and many other materials.

Customized Work Area
Factory configuration is 1500x2000x1000 mm, but can be customized for any need of the big industry.

Software
Comfortable program with network access for easy and simple operation.



Customers

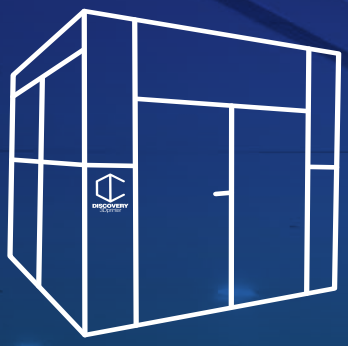
Navantia · KU LEUVEN · CAF DDS · B/S/H/ · TMB · nocu · Unex · CETEM · LAD · cryosphera · SILENCE URBAN ECOMOBILITY · Cartera Gráfica Service Bureau

Modular toilet structure.
2,20x1,70x1,20 m.
*Printed by Navantia

Trapdoor.
500 x 1620 x 220 mm.
*Printed by CAF according to norm EN45545 R1.

Real-size car tires.
ABS CF. Ø 440 mm.

Rocker cover. ULTEM CF.
210 x 370 x 130 mm.
*Printed by Navantia



technical specifications

Super Discovery 3D Printer WORKSTATION

Productivity in 3D printing
Technology: Pellet.
Work load <6 kg/hour.
Max. extrusion temperature 450º.
Speed up to 200 mm/s.
Layer thickness (minimum) 0,5 mm.

CNC milling motor
HQD brand. Air-cooled
ER32 manual tool change.
Resolution: +/- 0.05 mm.
Maximum speed:
In air: 20 meters / min.
In work: 15 meters / min.

Work volume
(XYZ) 1500x2000x1000 mm.
Can be customized.

Weight 1500 Kg.

Cabin Closed.

Table Heated up 175º with SELF-LEVELING.

Power Supply 400 v.

SW Simplify 3D + Software CNC.

Network Ethernet.

CE Mark Yes.

Warranty 2 years (defective parts).

CE · ISO 9001 BUREAU VERITAS Certification

INDUSTRIAL STANDARD CLASSIFICATION CODE
08-A-284-13020079

CONTACT US FOR MORE INFORMATION AND WE WILL STUDY YOUR CASE CUSTOMIZED

DISCOVERY 3Dprinter
www.discovery3dprinter.com

CNCbárcenas
www.cncbarcenas.com

Pol. Industrial Entrecaminos. Avda. de Holanda, 42
13300 Valdepeñas (Ciudad Real) SPAIN Tel. +34 926 64 89 85
info@cncbarcenas.com · info@discovery3dprinter.com