

HIGH PERFORMANCE 3D PRINTER

The IDENTITY model is the industrial 3D printer from R3DIMENSION, a spanish manufacturer specialised in large format.

Designed and manufactured by a highly qualified professional team committed to the highest quality in every detail. It allows the printing of final pieces of more than one metre in length, achieving exceptional finishes.

The special dedication in its design and the experience of R3DIMENSION in the sector, make this printer the most competitive in the large format market.

ABOUT US

We have more than 10 years of experience in the additive manufacturing sector. Throughout these years we have been able to identify the most important gaps in the 3D printing market.

This knowledge is reflected in the design of our IDENTITY industrial 3D printer, a unique model in terms of performance and reliability.

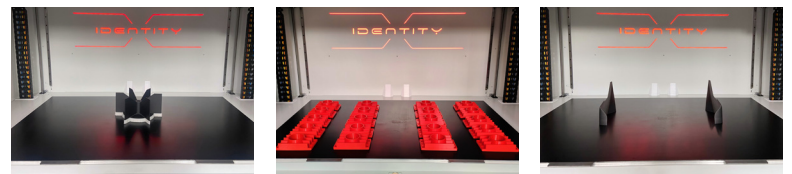
We design our printers from the end user's perspective and put all our experience and know-how into making them meet the daily needs of our customers.



IDENTITY

IDEX TECHNOLOGY

The IDENTITY printer has the longest independent dual-head printing axis (IDEX) on the market. This technology offers significant advantages compared to single-head or double-head dependent machines.



MULTIMATERIAL

COPY

MIRROR

PERFORMANCE AND PRODUCTIVITY

It includes an advanced extrusion system that multiplies by seven times the melting capacity compared to the previous model. Within FDM printing technology, IDENTITY is the most productive 3D printer on the market for 1.75 mm filament. It achieves a deposition rate of up to 170 mm³/s (760 g/h).



WARRANTY, RELIABILITY AND INDUSTRIAL ROBUSTNESS

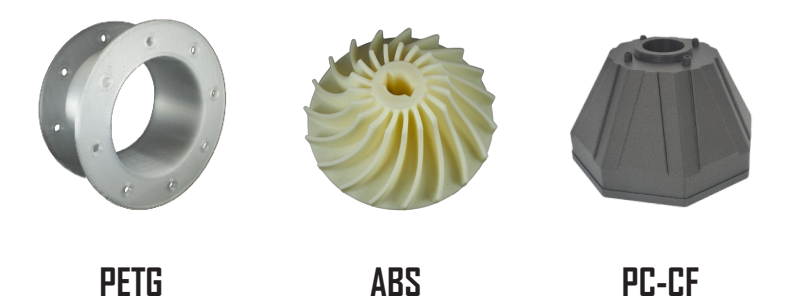
IDENTITY has been designed with a special focus on reliability and robustness, guaranteeing the absence of planned obsolescence and offering an after-sales service with upgrades throughout the life of the printer. Manufactured with top brand components and equipped with fault management systems, it is the ideal choice for 24/7 continuous duty applications.

- Active collision detection
- Active filament monitoring
- Redundant power supplies
- Built-in UPS (up to 1h autonomy)
- Liquid cooling
- Electronic Security System



AVAILABLE MATERIALS

R3DIMENSION follows an open-material policy, allowing users to work with 1.75mm filaments from any manufacturer, however, also offers a range of in-house materials that have been tested and calibrated to ensure performance. Available materials include: ABS, ASA, FLEX, HIPS, PETG, PLA, PCCF, PACF.



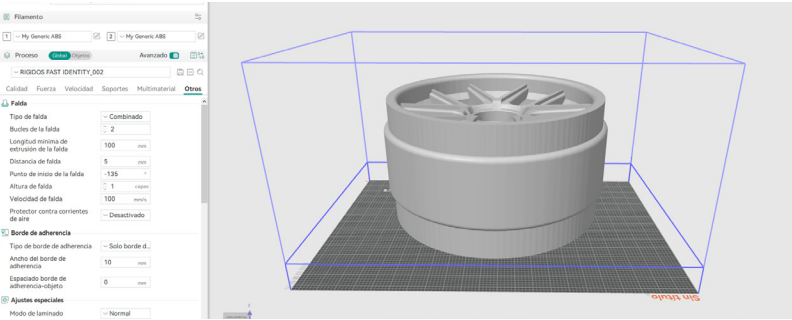
PETG

ABS

PC-CF

USER – FRIENDLINESS

The part configuration process is simple, and the manufacturing files are transferred in one click, through the software provided by R3DIMENSION. Print profiles and materials are fully configured and regularly updated.



ERGONOMY AND WORK

IDENTITY optimises the space required for handling. It provides full front access to every part of the printer. In addition, it is possible to place as many machines as desired side by side, optimising the usable space of the installations. Its space utilisation ratio is one of the highest on the market, which is representative for printers of this size.

- Working height: 95cm
- Filament load in front of machine
- Front removable electrical panel
- Built-in touch screen
- Access to UPS and cooling system
- Tool drawer



TECHNICAL SPECIFICATIONS

Printing volume	1.120 mm (x) 720 mm (y) 620 mm (z)
Outer dimensions	1.750 mm (x) 1.180 mm (y) 1.900 mm (z)
Printing base temperature [max].	120 °C
Extrusion temperature [max]	500 °C
3D printing technology	FDM (Fused Deposition Modelling)
Extrusion type	Double-drive direct
Available noozles	0.4, 0.6, 0.8, 1.0, 1.2 mm
Deposition rate	Up to 760gr/h
Print speed [max]	400 mm/s
Travel speed [max]	1.000 mm/s
Acceleration [max]	4.000 mm/s ²
Layer height	0.1 to 1 mm
Z-axis resolution	1 microns
X/Y-axis resolution	10 microns
Material load capacity	20 kg
Available materials	ABS, ASA, FLEX, HIPS, PETG, PLA, PCCF, PACF
Power supply	230 V / 50 Hz
Average / peak power consumption	700 W / 4.000 W
Power supply system	Micro-outage, surge and UPS protection for up to 1 hour
Weight	600 kg
Standards and Certifications	2006/42/CE, 2014/35/UE

LARGE-FORMAT PRECISION

IDENTITY

