

HIGH FUSING CAPACITY 3D PRINTER

CUBE is the industrial 3D printer from R3DIMENSION, a national manufacturer specialised in large format.

Designed and manufactured by a highly qualified professional team committed to the highest quality in every detail, CUBE has a manufacturing volume of 1 cubic metre.

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 large format 3D printers, first with IDENTITY and now with CUBE, both models are unique 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 our customers' daily needs.



IDEX TECHNOLOGY

The CUBE industrial 3D printer incorporates the IDEX independent dual head system with 3 print modes. This technology offers significant advantages compared to single head or dual head dependent machines, i.e. dual heads on the same carriage.



MULTIMATERIAL



COPY



MIRROR

PERFORMANCE AND PRODUCTIVITY

Its extrusion system boasts the highest deposition rate for the 2.85 mm filament standard, reaching 360 mm³/s (1,600 g/h) in dual mode and 180 mm³/s (800 g/h) in single mode.

The nozzles available for CUBE range from 0.6mm to 2.5mm, allowing the user to produce parts with layer heights from 0.15mm to 2mm. So you can adapt the printer to the resolution required for each job.

Its melting capacity, its speed of movement and its double independent extruder, position the CUBE as the fastest and most productive 3D printer in its market segment.

GUARANTEE, RELIABILITY AND INDUSTRIAL ROBUSTNESS

CUBE 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.

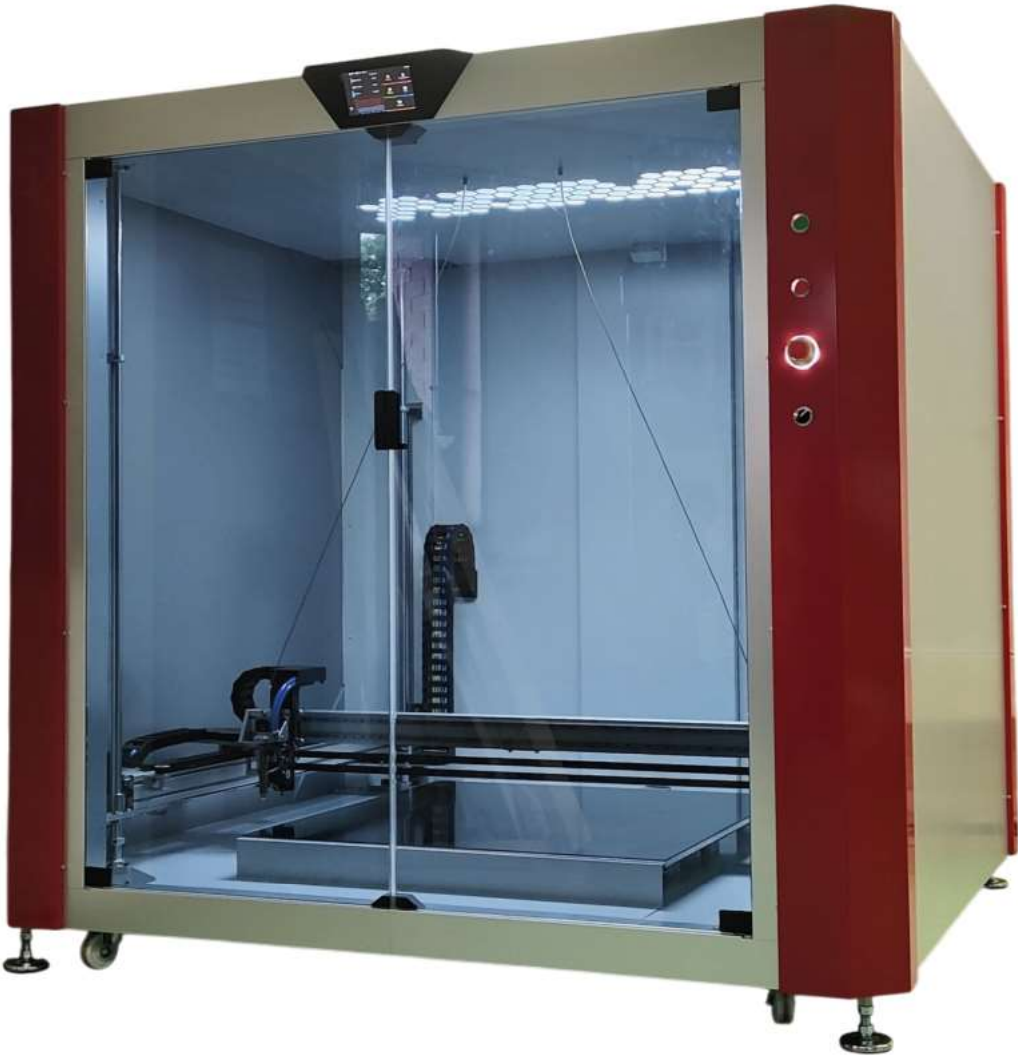
- 7" HMI Digital Display

- Liquid cooling

- Part cooling fans
- Collision detection system

- Enclosed print chamber

- Fully static and planar print platform



MATERIALES DISPONIBLES

R3DIMENSION follows an open-material policy, allowing users to work with 2.85mm 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:PLA, PLA PRO, PETG, TPU, PVA.



PLA



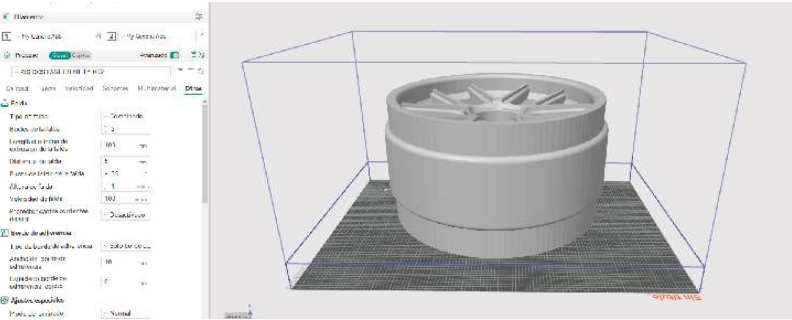
PLA PRO



PETG

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.



OPTIONAL ELEMENTS

R3DIMENSION offers a series of elements that complement the CUBE 3D printer, making interaction with the machine much easier and more comfortable. If you would like information about them or to purchase them, you can make any enquiry via the email address.

- Printing nozzles

- FHD surveillance camera

- Active filament monitoring

- Redundant power supplies
- Active cabin insulation

- Tempered glass front access doors

- UPS (uninterruptible power supply)

- Electronic Security System



TECHNICAL SPECIFICATIONS

Printing volume	1.000 mm (x) 1.000 mm (y) 1.000 mm (z)
Printing base temperature [max]	100 °C
Extrusion temperature [max]	420 °C
3D printing technology	FDM (Fused Deposition Modelling)
Extrusion type	Double-drive direct
Filament standard	2.85 mm
Available nozzles	0.8, 1.0, 1.2, 1.5, 2.0, 2.5 mm
Deposition rate	Up to 400 mm³/s (dual) - 200 mm³/s (single)
Speed [max]	800 mm/s
Acceleration [max]	4000 mm/s
Layer height	0.2 to 2.0 mm
Z-axis resolution	1 micron
X/Y axis resolution	10 microns
Material load capacity	20 kg
Available materials	PLA, PLA PRO, PETG, TPU, PVA...
Power supply	230 V / 50 Hz
Average / peak power consumption	750 W / 4.000 W
Connectivity	Ethernet - Encrypted remote access (P2P)
Standards and Certifications	2006/42/CE, 2014/35/UE