KUMOVIS

INTRODUCING KUMOVIS R1.

KUMOVIS R1 is based on fused layer manufacturing technology and designed to process high-performance materials like PEEK. These features, among others, make the 3D printer particularly suited to medical and industrial applications, as well as research and development.

Technical Specifications

Workspace:	Diameter 180 mm Height 150 mm
Part accuracy:	100 µm
Mechanics:	High precision ball screw linear axis
Control system:	Industrial standard PLC
Printing speed:	100–3000 mm/min
Print head temperature:	500 °C
Heated build chamber:	250 °C (homogenous temperature distribution)
Heated print bed:	300 °C
Nozzle diameter:	0.4 mm (opt. 0.2/0.6/0.8/1.0/1.2 mm)
Layer thickness:	0.1–0.4 mm
Filament diameter:	1.75 mm
Temperature control:	Global heated airflow (homogenous temp. distribution) Local cooling system for fine structures
Auto bed leveling:	Yes
Materials:	Open system for all thermoplastics materials (e.g. PEEK, PC, PPSU, PEI)

Other Specifications

Size and weight:	195 cm x 82.3 cm x 98.5 cm (HxWxD), 450 kg
Interface:	Ethernet, USB
Power requirements:	400 V 3 phase, 50/60 Hz, 16 A
Other requirements:	Pressurized air (5–10 bar)
Certification:	CE
Software:	Hyperganic Voxel-based slicing software

Clean Room Environment

Clean room filter system:	Optional integration of HEPA filter system for clean room environment inside the build chamber
Clean room readiness:	Suitable for operation inside clean rooms

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