

THINK BIG. BUILD BIG.

Redefine the limits of production with industrial-scale 3D printing.

BUILD VOLUME

2000 × 1000 × 1000 mm
1000 mm/s

Maximum print speed

180 °C

Bed temperature

170 °C

Chamber temperature

380 V

Three-phase supply

KEY FEATURES

Dual extruder · 5 kg × 2

Independent dual extruder heads for multi-material production.

1 µm precision

1-micron resolution on the axis motors with closed-loop feedback.

PEEK-coated bed

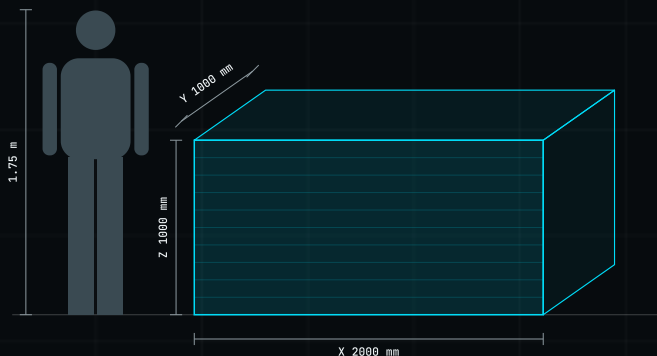
Industrial multi-zone heating; strong adhesion and durability.

Laser bed scanning

Automatic bed calibration by non-contact scanning.

Safe operation

Dual-channel safety relay, E-Stop and door sensor.



INDUSTRIAL SCALE

A length of 2000 mm exceeds the height of a 1.75 m adult. With a width of 1000 mm and a height of 1000 mm, the build volume is 2 m³.

INDUSTRIAL APPLICATIONS

Automotive

Prototypes, fixtures and functional parts

Aerospace and defence

High-performance engineering polymers

Marine and yachting

Large-scale models, moulds and custom parts

Moulds and patterns

Casting patterns, masters, thermoforming moulds

Industrial production

Fixtures, spare parts, machine components

R&D

Full-scale prototyping and validation

TECHNICAL SPECIFICATIONS

Build volume

Working area	X 2000 mm × Y 1000 mm × Z 1000 mm
Machine dimensions	3500 × 2200 × 2500 mm (L × W × H)
Machine weight	2000 – 2500 kg (varies with the selected equipment)

Motion system

X / Y axes	Linear servo motor drive; 2000 mm/s travel, 1000 mm/s while printing
Z axis	Servo motor drive with ball screw
Positioning accuracy	Closed-loop feedback with 1-micron resolution on the axis motors
Synchronisation	X/Y axes move together; Z axis moves independently

Heated bed and chamber

Bed surface	PEEK-coated, industrial multi-zone heating
Bed temperature	180 °C
Chamber temperature	Controlled environment up to 170 °C
Temperature sensing	Multi-point precision sensors, zone control

Extruder system

Configuration	Independent dual extruder heads, 5 kg each
Materials	Dual-material printing with model + support material
Nozzle diameter	0.4 – 1.2 mm
Layer height	0.2 – 1 mm
Maximum nozzle temperature	450 °C
Nozzle calibration	Automatic nozzle offset measurement with touch probe

MATERIAL COMPATIBILITY

From standard filaments to high-performance engineering polymers.

Standard

PLA

ABS

ASA

PA / Nylon

PC

High performance

PEEK

PEKK

PPS

PPSU

ULTEM / PEI

Control and interface

Display	21" industrial touchscreen
Usability	Intuitive, operator-friendly interface; role-based access (Operator / Administrator)
Process visibility	Live production status and temperature visualisation
Bed scanning	Automatic bed-plane calibration by non-contact laser scanning

Safety systems

Safety relay	Dual-channel industrial safety relay; hardware emergency stop (E-Stop) wired to all servo drives
Door safety	Software-monitored door sensor; automatic park move when opened
Z-axis lock	Electromagnetic holding brake

Electrical and power

Power supply	380 V three-phase
Power requirement	15 – 23 kW (varies with the selected equipment)
Cabinet	Industrial electrical cabinet, three-phase load balancing
Wiring	Compliant with international colour-coding standards

GROW THE PART. TRANSFORM PRODUCTION.

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