

PRECISE ONE

TECHNICAL DATA:

MECHANICAL ENGINEERING

Build chamber (XYZ):	500 mm x 700 mm x 800 mm
Heatable build chamber:	up to 150 °C
Heatable print bed:	up to 180 °C
Drive technology:	Servo motor in XYZ
Positioning accuracy (XY):	< 0.05 mm
Layer thickness:	from 0.05 mm
Movement speed:	XY~400 mm/s
Air cleaning unit:	Filtration system with active carbon filter and HEPA filter
Safety circuit:	unmanned 24/7 operation

PRINT HEAD

Print head:	water-cooled multi-DSD (up to 3/4 extruder)
Pellet extruder:	optional
Nozzle diameter:	0.1 to 1.0 mm (standard: 0.4 mm)
Printing speed:	up to 350 mm/s (depending on geometry and material)
Build-up rate (filament):	up to 300 g/h (depending on geometry and material)
Print temperature:	up to 450 °C
Build-up rate (pellets):	up to 3 kg/h (depending on geometry and material)

USER CONVENIENCE

Stand-alone printing:	USB/network
Pause printing:	smart 'stop and go' function
Slicing software:	Simplify3D (delivery standard), Cura
Machine control:	HAGE3D industrial control
HMI:	LED + 7" touchscreen
Camera:	standard
Filament stock:	run-out sensor
Override function:	in real time
User level:	multi-level

INSTALLATION INFORMATION

Power supply:	400 V / 32 A
External dimensions (XYZ):	2550 mm x 1950 mm x 1920 mm
Weight:	approx. 1980 kg

MATERIALS:

Wide range of materials: free choice of materials – no manufacturer ties

Printable materials: PC, PC-ABS, PC-FR, PC-CF, PA6, PA6-CF, PA12, PA12-CF, PA12-GF, CoPA, ABS, ASA, ABS-FR, ABS-ESD, TPU, TPC, PETG, PLA, HT-PETG, PCTG, PP, PP-GF, PEKK, PPSU, PSU, PAEK, PEI, PPS

HIGHLIGHTS:

- ▶ Servo motor and ball screw in XYZ for high speed printing
- ▶ Variable print heads: pellet extruder, dual-DSD, multi-DSD
- ▶ Heatable build chamber up to 150 °C for large components of high-temperature plastics
- ▶ Temperature management: 360 ° cooling and/or tempering of components
- ▶ Vacuum print bed
- ▶ Print bed calibration: automatically topographic mesh
- ▶ Filtration system with active carbon filter and HEPA filter for efficient air cleaning of macro, micro and nano particles (VOC) and volatile solvents
- ▶ Real time adjustment of the printing parameters with override function
- ▶ Multi-level user concept, notification via mail inclusive
- ▶ Run-out sensor for filament stock

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