

# MEX ONE

## TECHNICAL DATA:

### MECHANICAL ENGINEERING

Build chamber (XYZ):	400 mm x 600 mm x 440 mm
Heatable build chamber:	up to 100 °C
Heatable print bed:	up to 180 °C
Positioning accuracy (XY):	< 0.1 mm
Layer thickness:	from 0.05 mm
Movement speed:	XY~250 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 Dual-DSD
Design:	adjustable tension and fine tuneable pressure; short filament path, allows thermoplastic elastomers up to Shore 65A
Nozzle diameter:	0.1 to 1.0 mm (standard: 0.4 mm)
Printing speed:	up to 200 mm/s (depending on geometry and material)
Build-up rate:	up to 150 g/h (depending on geometry and material)
Print temperature:	up to 450 °C

### USER CONVENIENCE

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

### INSTALLATION INFORMATION

Power supply:	400 V / 16 A
External dimensions (XYZ):	1270 mm x 1120 mm x 1730 mm
Weight:	approx. 180 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

## HIGHLIGHTS:

- ▶ Best price/performance ratio
- ▶ Engineering plastics printable at production speed
- ▶ Print bed calibration: automatically by topographic mesh
- ▶ Closed-loop technology for accurate step positioning without step losses
- ▶ Glass-fibre reinforced belts in XY direction and trapezoidal spindle in Z direction
- ▶ Component cooling: high-performance, targeted air cooling at up to 4.8 m<sup>3</sup>/h
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- ▶ Filtration system with active carbon filter and HEPA filter for efficient air cleaning of macro, micro and nano particles (VOC) and volatile solvents
- ▶ Multi-level user concept, notification via mail inclusive
- ▶ Run-out sensor for filament stock

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