

Two-directional industrial FDM 3D Printer

TECHNICAL SPECIFICATIONS

BASIC SPECIFICATIONS

Build volume	Ø 400mm x 1000mm
Layer height	50-600 micron
Bed temperature max	180 C°
Nozzle temperature max	500 C°
Heated active chamber	heated up to 80°C
Print speed max	300 mm/s
Travel speed max	500 mm/s
Acceleration	10.000 mm/s ²
Nozzle type & diameters	E3D, Ø 0,6mm up to Ø 1,2mm

MATERIALS

Filament diameter	1.75 mm
Filament capacity	2 x 4.5kg for both directions (total 18kg)
Material selection	Tested and optimized for BASF materials PLA PRO1, ASA, ABS FUSION+, PET, PP, PA, CF&GF reinforced PA

SOFTWARE

Operating software Slicing software	Proprietary, web-based (Biflex Pro 1.0)
Input file types	.stl, .obj, .3mf

INTERFACE

WiFi, USB, LAN, TFT touch

PHYSICAL DIMENSIONS

Dimensions	91.2 x 117.6 x 265.4 cm
Packaging dimensions	110 x 130 x 300 cm
Machine weight	385 kg

POWER

Input power	220/240 V 50/60 Hz (110 V available)
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ENVIRONMENT

Operating temperature	20-30° C
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MECHANICS

All metal body for a stiff and vibration free precise device, machined aluminum parts, PEI powder coated printbed. Moving parts resistant to high temperature, polymer foam for thermo-acoustic insulation



KEY INNOVATIONS

MAP

Patented technology for parallel printing of the same object from two directions

Mesh auto calibration

Advanced method for part-specific planar corrections

Automated mid-section

Allows holding the part and enables a fully automated 2-way printing

Advanced thermal management

Heated and cooled chambers and printbed

Filament changeover

Auto changing of the filament spools after runout

Remote access

On-Line, Real-time technical support

