

# DUPLEX F2

## Two-directional industrial FDM 3D Printer

Technical Data Sheet  
v.2.0

### 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 <sup>2</sup>
Nozzle type & diameters	E3D, Ø 0,6mm up to Ø 1,2mm

#### MATERIALS

Filament diameter	1.75 mm
Filament capacity	2 x 2.5kg for both directions (total 10kg)
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)
-------------	--------------------------------------

#### ENVIRONMENT

Operating temperature	20-30° C
-----------------------	----------

#### 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



[www.duplex3d.com](http://www.duplex3d.com)



**DUPLEX 3D GmbH**  
Augsburg Innovationspark  
+49 821 7898 5862  
[sales@duplex3d.com](mailto:sales@duplex3d.com)