fabbster
stick deposition moulding

technical data:

size of device	470mm x 470mm x 580mm
max. platform size	230mm x 230mm x 210mm

all axes with linear ball bearings on hardened D12 CoCr rods belt driven by stepper motors (7µm @ micro quilting mode)

repeatability	< 20µm in XY axis; < 14µm in Z-layer within the layer < 0,2 within the max. platform size
max speed	400 mm/s
max power	primary 350W @ ~110V-240V secondary 24V
extruder output	70W
extruder temp.	25°C -390°C (J-Type sensors)
heat up	300°C in 30 sec.
standard nozzle	stainless steel 0,4mm bore

parts:

layer thickness	25µm to 400µm (depending on material)
accuracy	0,1mm or 0,4% of the nominal size (depending on material)
min. wall thickness	0,7mm (with standard nozzle 0,4mm)
materials	PLA, ABS (further materials in development)
software	netfabb Engine for Fabbster (Win, Mac, Linux)

fabbster kit

The fabbster prints three-dimensional objects from different plastic materials. The device comes in a compact box as a partially assembled construction kit. The kit is completely mounted within about 2 hours. fabbster combines high quality 24V electronics and stepper drives guided by linear ball bearings with stainless steel rods and high-quality plastic components reinforced by fiberglass.

Next to these features, that make the fabbster stand out from other personal 3D-printers, fabbster also introduces a new innovative technology in terms of melting the consumption material:

SDM - Stick Depositon Moulding

The extruder of the printer is fed with special sticks developed by the fabbster team. These sticks are characterized by a cogging-shape on their sides. They are made by injection molding technique and thus are much more precise than the round wire used by competitors. This innovation offers some major advantage over circular filament that is subject to slip.

The result is a precise dosage of the melt. This way you are able to print objects with optimal material properties.

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