NEW

CraftBot Plus

5 YEARS OR 5000 HOURS WARRANTY

PLUG&PLAY 3D PRINTER WITH 5 YEARS WARRANTY

Upgraded with:

- GLASS BUILD PLATE
- ALLMETAL HOTEND

GLASS BUILD PLATE

FLATNESS
Print beds need to be flat throughout printing to avoid running into errors. Glass has a high modulus of elasticity and is thermally stable. Therefore, it remains flat and will ensure the bed's leveling remains consistent throughout.

SMOOTH FINISH
Most of the users want the bottom of their prints to be as soft as possible; glass guarantees such a finish, giving a mirror-like, glossy base that cannot be achieved by most bed surfaces.

THERMAL CONDUCTIVITY
There are instances where the build platform needs to be heated to prevent warping and to improve print quality. thermal conductivity means you have a thermally stable platform that will not be affected by sudden rises or drops in temperature.

DURABILITY
Durable glass like tempered glass will not easily shatter or crack when exposed to high strains because it is manufactured to be more tolerant.

SCRATCH RESISTANCE
Beds like acrylic can easily get scratched and become a nuisance when printing. However, tempered glass tends to be scratch resistant and is not susceptible to Abrasion or Chemical damage.

ALLMETAL HOTEND

LESS FILAMENT JAM
Fewer parts and connection points make jams less likely and much easier to clear.

BETTER PRINTING QUALITY
Thanks to the inclusion of an all metal hotend, craftbot is able to print in exceptional quality. This makes it perfect to also print in more specialist materials, like wood and brass filaments.

IMPROVED COOLING SYSTEM
All-metal hotends have active cooling in order to isolate the melt zone. A smaller, more controlled melt zone provides cleaner retractions and less oozing for better print quality.

FILAMENT MONITORING SYSTEM (ADD-ON)

The filament monitoring system (FMS) supervises filament consumption, starts immediate troubleshooting when a filament jam is detected and messages the user in case there's a need for intervention.

GREAT VALUE FOR MONEY
In 2016, CraftBot was rated "The best budget 3D printer" in the most comprehensive 3D Printer Guide published by 3D Hubs.

PLUG 'N' PLAY DEVICE
CraftBot can be set up for operation without in-depth specialist knowledge.In 2017 and 2018, CraftBot was rated "The best Plug 'N' Play 3D printer" in 3D Hubs' annual guide.

„THE TANK"
That's how users call it as CraftBot is unquestionably a very reliable, lasting 3D printer. It also has a brazed all-steel frame and plexiglass sidewalls for safety printing.

PRINT PAUSE & RESUME
You can pause or resume printing and change the filament any time. Even blackouts are no longer an issue!

PRINTING ACCURACY
CraftBot Plus is capable of 50 micron/layer resolution (with 0.25 mm nozzle) providing excellent print quality.

COLOR LCD TOUCHSCREEN
CraftBot has an easy to use interface that children can quickly learn to use. Users are in full control of the printing process and get constant feedback.

CRAFTWARE
Universal, advanced 3D printer software with a user-friendly graphical interface. Its advanced slicing algorithm ensures faster conversions and better results.

HEATABLE & REMOVABLE BUILD PLATFORM
Heating prevents warping and sticking. Removable build platform is easier to clean.

SPECIFICATION

PRINTING	
Printing technology:	Fused Filament Fabrication (FFF)
Build volume:	25 x 20 x 20 cm / 10 x 8 x 8inch
Layer resolution:	50 micron (with 0.25 mm nozzle)
Position precision:	X,Y: 4 micron; Z: 2 micron
Filament diameter:	1.75 mm
Nozzle diameter:	0.4 mm
Print speed:	50 - 200 mm/s
Filament types:	PLA, ABS, HIPS, PET, nylon, etc.
Noise level:	~ 48 - 49 decibels
Power consumption:	cca. 110 W

TEMPERATURE	
Ambient temperature:	15 - 32 °C
Storage temperature:	0 - 32 °C
Operating nozzle temperature:	180 - 260 °C
Operating heated build plate temperature:	50 - 110 °C

PRODUCT NAME	COLOR
CraftBot Plus	Gray
CraftBot Plus	Blue
CraftBot Plus	White

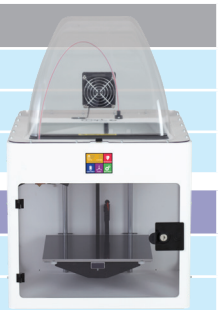
PHYSICAL DIMENSIONS	
Frame dimensions:	X: 40.6 cm / 16 inch
	Y: 35 cm / 14 inch
	Z: 38.5 cm / 15.2 inch
With all parts attached:	X: 41 cm / 16.1 inch
	Y: 46 cm / 18.1 inch
	Z: 46 cm / 18.1 inch
Shipping box:	X: 50 cm / 19.7 inch
	Y: 45 cm / 17.7 inch
	Z: 49.5 cm / 19.5 inch
Weight:	14.45 kg
Shipping weight:	18.1 kg

SOFTWARE	
Software package:	CraftWare
File types:	OBJ / STL / CWPRJ
Supports:	Windows 7 and above, OS X and Linux

Useful accessories available in our webshop:

LOCKABLE PLEXIGLASS DOOR
prevents kids from reaching inside
keeps the heat & fumes inside
can be locked

PETG DOME COVER
shock-resistant plastic
prevents from reaching inside
equipped with an activated carbon & HEPA filter



GET IN TOUCH!

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PolyLite™ PLA

PolyLite™ PLA is a high-quality PLA designed for reliability and ease of printing.

Physical Properties

Property	Testing method	Typical value
Density	ASTM D792 (ISO 1183, GB/T 1033)	1.17 - 1.24 (g/cm3 at 21.5˚C)
Glass transition temperature	DSC, 10 °C/min	61 (°C)
Vicat Softening temperature	ASTM D1525 (ISO 306 GB/T 1633)	63 (˚C)
Melt index	210 °C, 2.16 kg	7-11 (g/10 min)
Melting temperature	DSC, 10 °C/min	150 (˚C)
Crystallization temperature	DSC, 10 °C/min	114 (˚C)

Tested with 3D printed specimen of 100% infill

Mechanical Properties

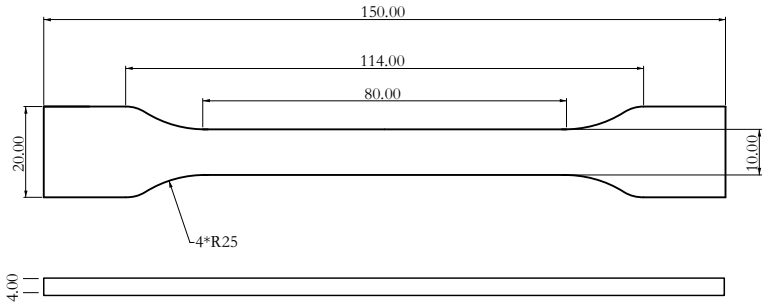
Property	Testing method	Typical value
Young's modulus (X-Y)	ASTM D638 (ISO 527, GB/T 1040)	2636 ± 330 (MPa)
Tensile strength (X-Y)	ASTM D638 (ISO 527, GB/T 1040)	46.6 ± 0.9 (MPa)
Elongation at break (X-Y)	ASTM D638 (ISO 527, GB/T 1040)	1.9 ± 0.2 (%)
Bending modulus	ASTMD790 (ISO 178, GB/T 9341)	3283 ± 132 (MPa)
Bending strength	ASTMD790 (ISO 178, GB/T 9341)	85.1 ± 2.9 (MPa)
Charpy impact strength	ASTM D256 (ISO 179, GB/T 1043)	2.7 ± 0.2 (kJ/m^2)
Tensile strength (Z)	ASTM D638 (ISO 527, GB/T 1040)	43.5 ± 3.1 (MPa)

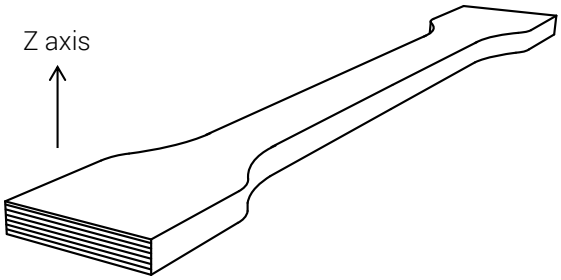
All testing specimens were printed under the following conditions:
nozzle temperature = 205 °C, printing speed = 60 mm/s, build plate temperature = 40 °C, infill = 100%
All specimens were conditioned at room temperature for 24h prior to testing

Recommended printing conditions

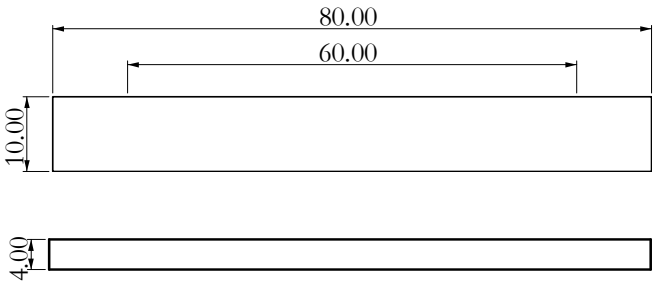
Parameter	
Nozzle temperature	190 - 230 (˚C)
Build Surface material	BuildTak®, Glass, Blue Tape
Build surface treatment	Glue, Magigoo
Build plate temperature	25 - 60 (˚C)
Cooling fan	Turned on
Printing speed	40-60 (mm/s)
Raft separation distance	0.2 (mm)
Retraction distance	1 (mm)
Retraction speed	20 (mm/s)
Recommended environmental temperature	Room temperature - 45 (˚C)
Threshold overhang angle	45 (˚)
Recommended support material	PolySupport™ and PolyDissolve™ S1

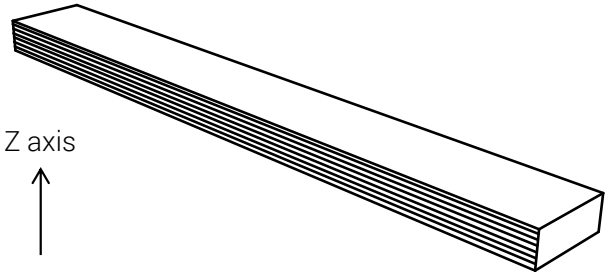
Based on 0.4 mm nozzle and Simplify 3D v.4.0. Printing conditions may vary with different nozzle diameters



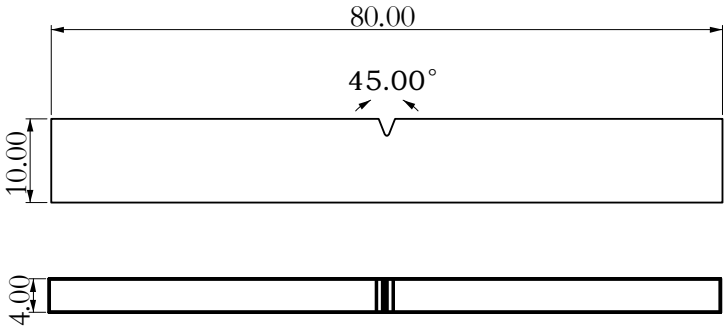


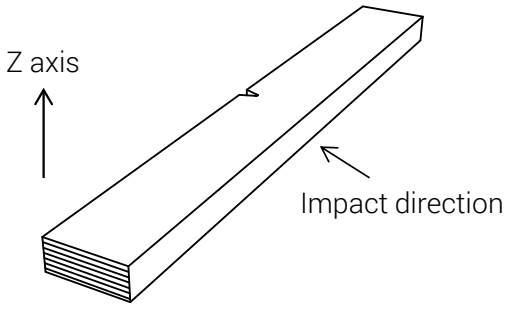
Tensile testing specimen; ASTM D638 (ISO 527, GB/T 1040)





Flexural testing specimen; ASTMD790 (ISO 178, GB/T 9341)





Impact testing specimen; ASTM D256 (ISO 179, GB/T 1043)

Disclaimer:

The typical values presented in this data sheet are intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Actual values may vary significantly with printing conditions. End- use performance of printed parts depends not only on materials, but also on part design, environmental conditions, printing conditions, etc. Product specifications are subject to change without notice.

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