

3D Printer Specifications

Reference notes



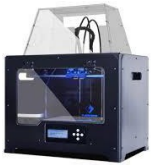
Min feature: Min feature size and thickness differs depending on geometries modelled. In general, above 1-2mm wall thickness is recommended. Contact a 3D printing technician for more information.

Build volume: Build volumes take into account the inclusion of rafts so are often a slightly smaller than stated by manufacturers. Please take this into consideration when designing parts and contact a 3D printing technician for more information.



Materials: Not all materials are stocked in the lab. Please contact a 3D printing technician before committing to a material.

Colours: Not all colours are available in the lab. Please contact a 3D printing technician before committing to a colour.



Desktop/Hobby Printers



Printer	Process	Build volume (mm)	Layer thickness (z-res mm)	Material	Colour	Support Material
Zortrax M200 	FDM	200 x 200 x 180	.09 - .39 mm (Varies by Material)	ABS, Polystyrene/ PETG/PCABS	Depends on Availability	Breakaway Model Material
Up Mini & Mini 2 	FDM	120 x 120 x 120	.15/.2/.25/.3/.25	ABS/PLA/Nylon/Flex /More	Red/Yellow/Blue/ Green/White/Black/Grey	Breakaway Model Material
FlashForge Creator Pro 	FDM (Dual Head)	225 x 145 x 150	.1 to .3	ABS/PLA	Red/Yellow/Blue/ Green/White/Black/Grey	Breakaway Model Material

Intermediate Printers

Printer	Process	Build volume (mm)	Layer thickness (z-res mm)	Material	Colour	Support Material
Mojo 	FDM	127 x 127x 127	0.178	P430 ABS	Ivory/White/Blue/ Fluoro Yellow/Black/Red/ Orange/Olive/Grey	SR-30 Soluble
Raise3D 	FDM (Dual Extruders)	305 x 305 x 605	0.1 – 0.4	ABS/PLA	Red/Yellow/Blue/ Green/White/Black /Grey	Breakaway Model Material

Production Printers

Printer	Process	Build volume (mm)	Layer thickness (z-res mm)	Material	Colour	Support Material
Fortus 450MC 	FDM	406 x 355 x 406	.127/.178/.254/.330	ABS-M30/ABS-M30i/ABS-ESD7/ASA/PC-ISO / PC/FDM Nylon 12	Depends on Material	Dissolvable
Connex3 Objet500 	Polyjet	490 x 390 x 200	SingleMat: .016 Dig. Mat.: .030	Vero/Tango (RubberLike)/DigitalABS /Simulated Plastics/High Temp/Bio Compatible	Depends on Material	Soluble Support (Resin Gel)

Printer	Process	Build volume (mm)	Layer thickness (z-res mm)	Material	Colour	Support Material
HP MJF580 	MJF (MultiJet Fusion)	332 x 190 x 248	0.08	Nylon PA12	All. Machine can produce multi colour parts.	No Support Required
SLM 125 HL 	SLM	125 x 125 x 125	.02 to .075	Titanium/Stainless Steel/Tool Steel/Aluminium/Cobalt Chrome/Nickel Alloys &More	NA	Model Material