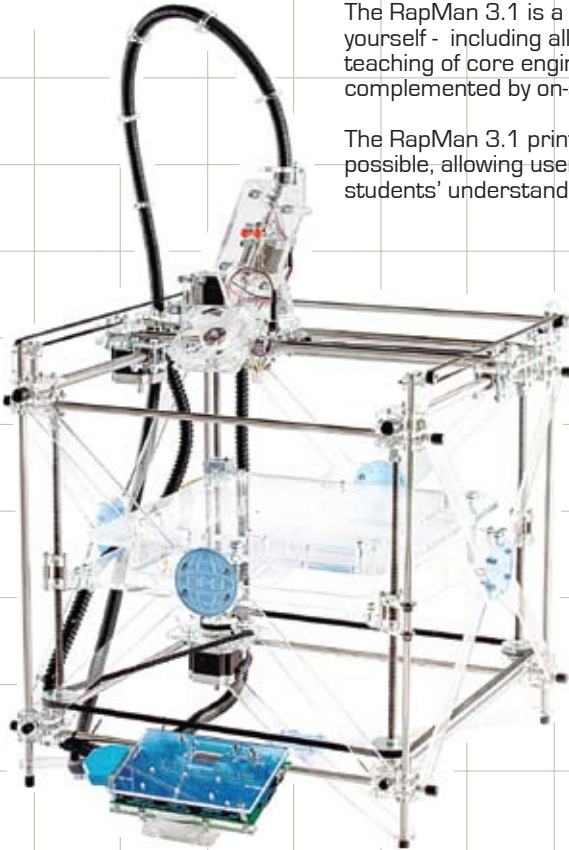




Rapman 3.1 3D Prototyper

KIT FORM



The RapMan 3.1 is a 3D Printer, which is supplied in kit form – for you to assemble yourself - including all mechanical parts and full electronics. This allows hands-on teaching of core engineering skills, with comprehensive step-by-step instructions, complemented by on-screen 3D guide.

The RapMan 3.1 printer kit has been designed to be as open and transparent as possible, allowing users to see their creation while it is being built. This increases students' understanding and enhances their interactive education.

Once built and calibrated, it's as easy as one, two three!

1. Draw your model in your 3D CAD package and export your file to STL format
2. Import it into BFB Axon software, process to G Code and save to SD card
3. Insert the SD card into the RapMan 3.1, turn it on and print

- Cost-effective 3D Printer Kit
- Reads files directly from SD Card – no PC connectivity required
- Desktop sized with large print area – up to 270 x 205 x 210mm
- Affordable materials, such as ABS and PLA, for uninterrupted production
- Easily maintained by the end-user

MAXIMUM BUILD SIZE	RAPMAN 3.1 SINGLE	RAPMAN 3.1 DOUBLE
X Axis	270mm	190mm
Y Axis	205mm	205mm
Z Axis	210mm	210mm
Please note print size will vary from build size and is dependent on print material specifications		
Z Axis Resolution	0.125mm	0.125mm
Print Tolerance	x and y axis +/- 1% of object dimension or +/- 0.2mm whichever is greater. z axis +/- half the processed z resolution Shrinkage and warpage can occur on models and is material and geometry dependent.	
Print Speed Extruded Volume	Maximum 15mm ³ per second print and polymer dependent.	
Power Requirements	60 Watts (5A @ 12V)	
Approx. Weight	17kg	
Overall Dimensions Exc. - Extruder	650mm (w) x 570mm (l) x 510mm (h)	
Overall Dimensions Inc. - Extruder	650mm (w) x 570mm (l) x 820mm (h)	
Maximum Extruder Operating Temperature	280°C	



3D Touch 3D Prototyper

PRE-ASSEMBLED

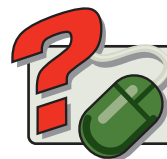


3D Touch

Professional quality low cost 3D printing: the 3D Touch is supplied pre-assembled and ready to use!

- Desktop-sized with touchscreen display and control panel
- Reads directly from USB drive – no PC connectivity required
- Purpose-written software easily converts your STL files ready for printing
- Large print area: up to 275 x 275 x 210mm
- Ultra-compact extruders deliver material with control and precision
- Option of double head machine for support material and triple head for experimental projects
- Easy to use and maintain – no need for maintenance contracts

MAXIMUM BUILD SIZE	3D TOUCH SINGLE	3D TOUCH DOUBLE	3D TOUCH TRIPLE
X Axis	275mm	230mm	185mm
Y Axis	275mm	275mm	275mm
Z Axis	210mm	210mm	210mm
Please note print size will vary from build size and is dependent on print material specifications			
Z Axis Resolution	0.125mm	0.125mm	0.125mm
Print Tolerance	x and y axis +/- 1% of object dimension or +/- 0.2mm whichever is greater. z axis +/- half the processed z resolution Shrinkage and warpage can occur on models and is purely geometry dependent.		
Print Speed Extruded Volume	Maximum 15mm ³ per second print and polymer dependent.		
Power Requirements	110 - 240 V AC		
Approx. Weight	36kg	37kg	38kg
Overall Dimensions	515mm (w) x 515mm (l) x 598mm (h)		
Maximum Extruder Operating Temperature	280°C		
Support Material	PLA / ABS / soluble clear translucent PLA		
Support Removal	Break away support materials with pliers and cutters or just fingers where appropriate. Clear translucent PLA is soluble in a sodium hydroxide solution used with a heated ultrasonic tank - care is required with this option.		



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