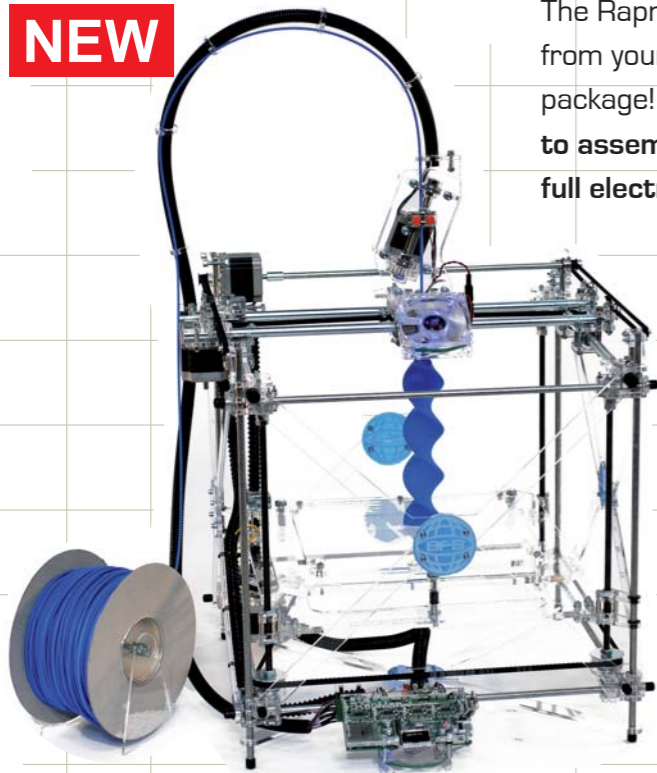


Rapman 3D Prototyper

KIT FORM V3

NEW

The Rapman is a 3D printer which produces solid objects from your STL files which can be drawn on almost any CAD package! **The Rapman Kit V3 is supplied in kit form for you to assemble yourself including all mechanical parts and full electronics.**

RAPMAN 3D

- Runs off an SD card and has a USB port to allow connection to your computer
- Small OLED display on the control panel
- Uses stepper direct drive motors
- Manufactured using precision cut parts – from high impact acrylic and zinc-plated bars
- Uses a variety of affordable materials, ABS, PLA and more
- Teaching materials and full support available online
- The machine can be used as a teaching resource and a full rapid prototyping system
- Approximately 15-20 hours assembly time, then start printing!

RAPMAN 3D PROTOTYPER	
Overall dimensions of the machine:	650mm x 570mm x 820mm
Maximum print dimensions:	650mm x 570mm x 510mm with the extruder removed
Print resolution:	275mm x 205mm x 210mm
Printing speeds:	0.1mm in the x and y and 0.4mm in the z (dependant also on temperature and material)
Materials which can be used:	The Version 3 has a maximum feedrate of approximately 17 mm ³ per second but we don't recommend running at that speed continually. It can comfortably be operated at 7mm ³ per second (tested with ABS - figures will be less for HDPE). Also don't forget that the speed limit is not entirely down to the extruder but also down to thermal issues - go too fast and you get a molten mess! There are many different materials which can be used to print with. We use thermoplastic polymers (listed below) but you could use other materials too. ABS (Acrylonitrile Butadiene Styrene) (Colours White, Black, Blue, Green) HDPE (High Density Poly Ethylene) LDPE (Low Density Poly Ethylene) PP (Poly Propylene) uPVC (unplasticised Poly Vinyl Chloride)
Shipping details:	Package dimensions: 610mm x 410mm x 160mm Package weight: 18kg

**NEW**

BFB 3D 3000 3D Prototyper

PRE-ASSEMBLED

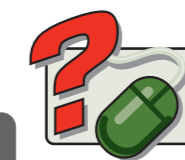


Professional quality low cost 3D printing. The most affordable 3D Prototyping system available to schools and colleges. **The BFB 3D 3000 is supplied pre-assembled and ready to use!**

BFB 3D 3000

- The system is driven via SD Card, meaning you can operate it without the need for a PC
- USB port included for computer connection, enabling boot-loadable upgrades
- Full control available during printing
- OLED display on the control panel
- Available with double and triple head assemblies for multiple colour and material combinations
- Uses a variety of affordable materials - upvc, polycarbonate, hdpe, ldpe, polypropylene, abs, pla (poly lactic acid) & polycarbonate (cappa) - extrudes at lower temperatures (170oC)
- Suitable for teaching across key stages 3, 4 and 5. Also used in many universities, both in the UK and worldwide for final year projects

BFB 3D 3000 3D PROTOTYPER	
Overall dimensions of the machine:	810mm x 500mm x 580mm
Maximum print dimensions:	550mm x 500mm x 580mm with the extruder removed
Printing speeds:	210mm x 275mm x 230mm
Power (max):	Maximum 15mm ³ per second (print material dependent)
Max extruder temp:	60W 5A @ 12V - head dependent
X & Y Drives:	270oC
Z Drive:	Timing belt, driven by microstepping stepper motor
Materials which can be used:	Leadscrew, driven by microstepping stepper & timing belt
	ABS - Acrylonitrile Butadiene Styrene (Colours White, Black, Blue, Green) HDPE - High density polyethylene LDPE - Low density polyethylene PP - Polypropylene uPVC - Unplasticized polyvinylchloride PLA - Polylactic Acid (Colours Natural, Blue and Red)



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www.denfordata.com/bb

To get you up and running, Denford also offer a range of CNC Routers, Lasers, Milling Machines and Lathes, together with tooling packages, workholding kits and courseware.

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