



3D Printers Build Real Plastic Parts from 3D CAD Models

Why Do I Need One?

Students using SOLIDWORKS or any mainstream 3D CAD platform will, sooner or later, need to turn ideas into real parts for projects. 3D milling has its place, but an accurate, functional part in ABS plastic will often do the job well. uPrint SE and Mojo machines build using Fused Deposition Modelling (or FDM) by extruding a fine filament of molten ABS plastic. A second filament of support structure is also extruded.

Soluble Support Advantage

Mojo and uPrint SE Plus both use SST (Soluble Support Technology), the support material being gently removed by dissolving away. With SST (Soluble Support Technology) there is no limit to the complexity of the part you can build. For most jobs, parts will be completely functional and can be used straight from the machine. Their smooth-textured, satin finish is not unattractive and faithfully represents both the dimensional and aesthetic qualities of the CAD model.

uPrint has been developed to give designers a truly in-house means of Rapid Prototyping with no compromise on part quality. Mojo takes this class-leading technology and presents it in the most compact desktop format yet to be seen. TechSoft have been selling Stratasys FDM machines into education since 2004 so we know how accurate and reliable the process is.

Which Machine Should I Choose?

If the budget allows, the uPrint SE Plus will give schools and colleges everything they need with this professional reliable 3D printer. The Mojo offers educational users additional benefits in that the model and support material are each supplied as a complete QuickPack™ Print Engine cartridge that simply slots into the machine, meaning minimal maintenance and no calibration or set-up routing. Both machines are supplied with software to import 3D .stl files and build them. The software allows students to set a preferred build strategy and analyse the effect of these settings before committing to a build. Mojo requires a dedicated PC to operate the machine; uPrint SE Plus downloads the file and builds the model independently.

Support Removal System

uPrint SE Plus machines are supplied with the SCA-1200HDT Support Removal System. The SCA-1200HDT has a large load capacity and the Ecoworks solution remains in the tank until no longer effective. It is then manually drained and replenished - parts are hand washed in a sink.

Mojo has its own WaveWash 55 system which needs no plumbing and sits on the desktop just like a domestic kettle. All systems run quietly to dissolve away support material, they make no mess and are designed for ease of use.

Mojo 3D Package



Designed to balance price, 'footprint' and capacity, Mojo is ideal for many schools and colleges. SST technology and 0.178mm resolution means no limit to model complexity. Can be supplied with a complete package including the Wavewash 55 Support Removal System.

Specification

Max build size: 127 x 127 x 127mm
 Model Material: ABS Plus (various colours)
 Slice Resolution: 0.178mm
 Interface: USB
 Dimensions: 630(W) x 450(D) x 530(H)mm
 Weight: 27kg
 Removal System: WaveWash 55 (see page 59)

uPrint SE 3D Package



A compact machine but with sufficient build capacity for 3D printing complete student projects - not just components. Features SST technology and 0.25mm resolution - allows for complex models with good surface finish. Can be supplied as a complete package with the SCA-1200HDT Support Removal System.

Specification

Max build size: 203 x 152 x 152mm
 Model Material: ABS Plus (Ivory only)
 Slice Resolution: 0.25mm
 Interface: Ethernet
 Dimensions: 635(W) x 660(D) x 786(H)mm
 Weight: 76kg
 Removal System: SCA-1200HDT (see page 59)

uPrint SE Plus 3D Package



Compact size, price and a choice of 9 colours for models means most schools and colleges will find the uPrint SE Plus will give them everything they need. Features SST technology and the option of 0.33mm resolution for faster builds. Can be supplied as a complete package with the Wavewash or SCA-1200HDT Support Removal System.

Specification

Max build size: 203 x 203 x 152mm
 Model Material: ABS Plus (various colours)
 Slice Resolution: 0.25mm (or 0.33mm)
 Interface: Ethernet
 Weight: 76kg
 Dimensions: 635(W) x 660(D) x 786(H)mm
 Removal System: SCA-1200HDT (see page 59)

Workstation for Mojo

This workstation provides complete 'plug-and-play' convenience for 3D Printing. Features integral wiring and sockets. The lockable doors reveal ample storage below for consumables. Mounted on heavy-duty lockable castors, the workstation can be easily moved to where needed and it is powered by a single 13A socket.



Specification

Dimensions: 1400(W) x 800(D) x 850(H)mm
Weight: 180kg

Stand/Cupboard for uPrint SE

The perfect complement for a uPrint SE 3D Printer, this robust workstation provides a smart way to present the machine at the right working height and to store all the tools and materials that come with it. Features capacious storage, sturdy drawers and a lockable door.



Specification

Dimensions: 700(W) x 800(D) x 850(H)mm
Weight: 76kg

Prices £*

*See Pricing Information on page 2

Mojo

Each Mojo 3D printer is supplied with Print Wizard software and start-up supplies (328cc model material, 131cc support material, 2 bases). There is a one year return to base warranty.

MP-MJ3DR1-COMSO	Mojo with WaveWash 55 Removal System
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uPrint SE

Each uPrint SE 3D printer is supplied with Catalyst software and start-up supplies (1 model spool, 1 support spool, 6 bases). There is a one year return to base warranty.

MP-USE-COMSO	uPrint SE 3D Printer Only
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MP-USER2-COMSO	uPrint SE 3D Printer with SCA-1200HDT Removal System.
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uPrint SE Plus

Each uPrint SE Plus 3D printer is supplied with GrabCAD software, start-up supplies (1 model spool, 1 support spool, 6 bases) and commissioning and training on the same day. There is a one year on-site warranty.

MP-USEPG	uPrint SE Plus 3D Printer Only
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MP-USEPR2G	uPrint SE Plus 3D Printer with SCA-1200HDT Removal System.
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Recommended Extras

TF-WS3-C2	TechSoft Mobile Workstation for Mojo 1400x800x850mm
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TF-WS4-C1	Wheeled Stand/Cupboard 700x800x850mm for uPrint SE or uPrint SE Plus
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Accessories and Materials

For our full range of accessories and materials see page 62.

Recommended Software

SOLIDWORKS (page 18)

Support Removal System for Mojo/uPrint

Wavewash 55 Support Removal System

Designed to partner the Mojo 3D Printer, Wavewash 55 is a compact unit that does not need plumbing to mains water or drainage. It will accept the largest models Mojo will produce. The 3.78 litre tank needs a single Ecoworks tablet to make an active solution. Once filled and activated, Wavewash 55 manages the cleaning process automatically. Filling, draining and final part washing is done manually so siting near to a sink will be beneficial.



Tank Capacity: 3.78 litres
Weight: 5kg
Dimensions: 335(W) x 335(D) x 335(H)mm

Exclusively for the Mojo 3D Printer

TM-DIM-CS9	Wavewash 55 Support Removal System (Free Standing – Maximum model size 127 x 127 x 127mm)
TMP-MJ-SRPK	Pack of 24 Ecoworks Tablets (use one tablet with every 3.78 litres of water)
TMP-MJ-RB	Wavewash 55 Replacement Bushing

SCA-1200HDT Support Removal System

This free standing unit requires no plumbing but needs to be sited near a sink for manual filling, draining and final part washing. The SCA-1200HDT has sufficient capacity to accommodate the largest models from uPrint SE Plus.



Tank Capacity: 46.3 litres
Weight: 29kg
Dimensions: 445(W) x 660(D) x 520(H)mm

TM-DIM-CS10	SCA 1200HDT Removal System (Free Standing – Maximum model size 250 x 250 x 300mm)
TMP-DIM-SRPK	Ecoworks Cleaning Agent (24 sachets, use 1 sachet for every 7.5 litres of water)
TMP-UPR-SOLCON	P400-SC Soluble Concentrate

Wavewash Support Removal System

Discontinued, but Consumables still available.



TMP-DIM-SRPK	Ecoworks Cleaning Agent (24 sachets, use 1 sachet for every 7.5 litres of water)
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