



Consolite Technology Fact Sheet

Rapid Prototyping by Stereolithography

Consolite is pleased to offer a stereolithography facility to its customers. Stereolithography provides the ability to rapidly generate three-dimensional models direct from CAD files. Complex shapes that might take days or weeks and substantial expense to get machined as one-offs can be produced in a matter of hours at comparatively low cost.

The process is ideal for production of design prototypes, such as for the rapid evaluation of new concepts or for visualising the fit of complex assemblies. It is also perfect for the production of demonstration kit for exhibitions or sales presentations to customers.

It can also be used to directly print moulds, mould inserts and patterns for metal casting.

The system is the Z Corporation ZPrinter 310 and uses a 3D printing process to build up shapes in a powder matrix layer by layer, held together by inkjet printing a binder in each layer.



Specifications

Maximum component size	203 x 254 x 203mm (8 x 10 x 8 inches)
Resolution	300 x 450 dpi
Layer thickness	0.089 – 0.203mm (0.0035 – 0.008 inches)
File formats	STL, VRML, PLY, 3DS, ZPR
Material options	High performance composite, elastomeric, direct or investment casting



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