

CASE STUDY: From CAD file to Production Quality Packaging in less than 24 hours

Dimension 3D Printers and Formech Vacuum Forming Machines have brought to the marketplace an entirely unique concept in retail package development. Rather than using the traditional methods of designing packaging, that normally take several weeks and require costly and time consuming design changes you can now create your own production quality prototype packages. Produce samples and packaging for presentation in less than 24 hours. Manufacturers of products sold into the retail market can now keep the entire package design and prototyping operation in house by making use of a Dimension 3D Printer; along with a Formech Vacuum Forming Machine.



"Package design, from CAD drawing to finished package in 24 hours rather than 24 days. It doesn't get better than this."

— Jeff Gangel
Director of Sales
Formech



Dimension Printing

Dimension 3D Printers – which include the Dimension 1200 and Dimension 768 Series – are networked, desktop modeling systems that provide CAD (Computer-Aided-Design) users a fast, office-friendly, low-cost alternative for building functional 3D prints. Dimension 3D Printers build accurate models layer by layer using durable ABS plastic, allowing users to not only evaluate design concepts, but test 3D prints for form, fit and functionality. As the first large format desktop 3D printer that sells for less than \$30,000, Dimension incorporates many key features found in modeling systems that cost tens of thousands of dollars more.

Formech

Formech International Limited has been manufacturing vacuum forming equipment in the since 1982. Formech manufactures a range of manual desktop and floor standing machines at competitive prices. Formech machines are supported with the skilled staff who can assist in all aspects of customer applications. Formech provides a versatile desk top vacuum forming machine to work with Dimension's 3D Printing Systems. As a result , Formech has established an effective working global partnership with Dimension and the two companies actively cooperate to promote the Dimension Printer and vacuum forming processes worldwide. The Formech range starts from a price of \$4200.

"Packaging Sells" is an often used, but misunderstood term. Packaging only sells, if it can be designed and approved in a timely fashion; so that the product can be brought to market rapidly."

Jeff Gangel
Formech



Dimension & Formech: The Complete Solution



Design your product and its package with the Dimension Printer and the Formech Vacuum Former.



Enhance speed to market by changing product designs in house. Produce quick inexpensive models and have the ability to review concepts in the office.



The Dimension Printer creates the mold for vacuum forming. Due to the layer by layer building process of the printer, there is an inherent porosity in the mold. This leads to an optimal thermoforming tool capable of being used for many thermoforming cycles.



With the combination of Dimension Printer, Formech Vacuum Former, and a Laser Printer this concept is ready for market testing.



Design the packaging graphics and print them out on a Laser Printer.



By thermoforming on a Formech vacuum forming machine over a porous Dimension built tool; production quality blister packs are easily achievable.

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