POWER BRACE CORPORATION

Powerbrace Dimension 3D Printer

Powerbrace is now able to make prototypes directly from CAD design to concept parts for customers. Advantages include:

- ***Reduced cost to make concept models***
- ***Faster turnaround time***
- ***Better communication with customers***
- ***Greater detail***
- ***High durability of prototype***

The Dimension 3D Printer improves product development with Powerbrace customers.

Powerbrace can now create a three-dimensional model of a proposed part for a customer with its new Dimension 3D Printer. Once a part is designed in a CAD format, it is sent to the printer, where the printer deposits layers of plastics to create a part. The "printed" plastic part can then be assembled in conjunction with other printed parts or with metal parts. While it isn't as strong as a metal part would be, the plastic prototype can be used to check fit, function and aesthetics.

Reduced Cost

Developing prototypes in this manner will now save hundreds of dollars for each part created. Whereas previous prototypes would be hand built, having extensive labor and material costs, the Dimension 3D Printer creates the part from a CAD design program significantly reducing time and cost.

Faster Turnaround

Once the CAD design is developed for a part, the design is sent to the Dimension 3D Printer, which creates the prototype part in a matter of hours, while a prototype part built it the traditional way can take 7 to 10 days to complete. Now Powerbrace prototypes can be ready for a client in a day or two, or even in some cases the same day.

The Powerbrace design team can now deliver the final product on time and on budget, without time-consuming and expensive revisions. This precision design engineering matches design efficiency with precise technical output.

Better Communication with Customers

With the Dimension 3D Printer, Powerbrace can communicate with clients better by having the prototype in hand. We now do fewer revisions to new production tooling, because we can immediately review the product design with customers. Handing a customer a concept part eliminates much of the guesswork from just having a CAD rendering or a drawing.

Printed components allow us to make mock-ups of product assemblies using a combination of standard and 3D-printed parts. This allows for review of the function, size and look of proposed products. Customers can immediately see if the proposed part will fit and function as required.

Powerbrace Dimension 3D Printer *(continued)*

Greater Detail of Prototype

Use of "printed" 3D prototype parts in an actual application with other printed parts or in combination with other metal components, gives an immediate indication of whether the part needs further refinements. Most other prototype methods are not able to provide these same details. The 3D printed part is created to look exactly as the CAD design has specified. It will look and function exactly like the finished manufactured part.

High Durability

The prototypes created by the Dimension 3D Printer are made of durable ABS plastic, tough enough to use with working models. They won't warp, shrink or absorb moisture. They are tough enough to stand up to rigorous testing. They will not fracture, distort or require much refining prior to fitting.

Concept models of durable plastic allow customers to visualize and test products, with one or more design solutions, before going to production tooling.

What Is the Most Important Fact about 3D Printing?

Powerbrace can now produce prototypes and concept parts faster and more cost-effectively, with a durable plastic part created in hours directly from a CAD design.

For Further Information:

For additional information or questions about Powerbrace 3D prototypes, call our Customer Service Department at ***262.697.5328***.

Check Our Web Site

Additional information is available at ***www.powerbrace.com***.

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