

CASE STUDY: From Concept to Reality in Record Time

AMP Research is a tier one supplier to the automotive industry. The Dimension 3D Printer has become a valuable asset to the company's design team, recently playing a key role in developing concepts for the AMP Research Alloy Fuel Door for General Motors' Hummer H2 sport utility vehicle.



"The Dimension 3D Printer gives us the ability to meet the demands of today's fast-paced development environment!"

– Jay Smith,
COO, AMP Research



AMP Research's engineers were able to easily and quickly produce physical models of the fuel door out of durable ABS plastic throughout the design process for testing and evaluation.

Using a Dimension 3D Printer, AMP Research engineers eliminated much of the guess work associated with complex design and were able to implement design changes literally overnight.

"One of the biggest challenges in bringing products to market is time," said Jay Smith, chief operating officer for AMP Research. "In the automotive business, showing working prototypes to customers early in the development process makes all the difference. The Dimension 3D Printer helped our engineers develop the Hummer H2 fuel door in just one week, keeping us ahead of schedule."

AMP Research leveraged 3D printing for better communication among its design team and with the customer throughout the design process.

"There is no alternate to the communication ability the 3D models Dimension produces can provide," said Anthony Smith, research and development engineer for AMP Research. "Our customers flipped when they saw the first prototype mounted and working on the Hummer H2. Having the capability to produce 3D models in-house has greatly improved our entire product development process."

"Before committing to expensive tooling, we are now able to analyze costs and market demand with greater confidence," said Helena Leitner, chief financial officer for AMP Research.



