New Digital Manufacturing Facility for On-Demand Delivery of Production Quality Parts Opened at PADT

A Carbon Certified Production Partner, PADT Enables Customers to Make Cost-Effective Parts Quickly with Near-Injection Molded Material Properties

TEMPE, Ariz. - June 21, 2018 - *PRLog* -- Realizing the long-term promise of 3D Printing to replace traditional manufacturing as a way to make production parts, Phoenix Analysis and Design Technologies (PADT) today announced the launch of On-Demand Manufacturing with Carbon. As a certified Production Partner of Silicon Valley-based Carbon, PADT can now deliver to its customers cost-effective, quality parts in volumes of between 2,000–5,000 in about one week, using Carbon's Digital Light Synthesisä (DLS) technology and the Carbon production system.

"Since we started in 3D Printing almost 25 years ago, we have dreamed of the day that we could use additive manufacturing to move beyond prototyping and deliver production parts to our customers when they need them, the way they need them," said Rey Chu, co-founder and principal, PADT. "Carbon's DLS technology has made this possible by giving us a faster process that creates parts with the same properties as injection molding."

Core to On-Demand Manufacturing with Carbon is Carbon's proprietary DLS technology, which changes the way companies design, engineer, make and deliver products. Carbon's novel approach uses digital light projection, oxygen permeable optics, and programmable liquid resins to produce parts with excellent mechanical properties, resolution and surface finish. A significant advantage of using the approach is that no tooling is required. High-quality parts are produced without the time or expense of creating molds, and shapes that cannot be made with injection molding can be created using Carbon's DLS technology.

"Our goal is to deliver true, scalable digital fabrication across the globe, enabling creators to design and produce previously unmakeable products, both economically and at scale," said Dana McCallum, head of Production Partnerships at Carbon. "PADT has a long history in the industry and a strong reputation for engineering excellence. We're thrilled to have them as a certified Carbon production partner."

PADT's on-demand manufacturing is backed up by in-house product development, inspection, simulation and injecting molding expertise. All parts are produced under its quality system, and its in-house Computer Numeric Control (CNC) machining lets the company complete any critical feature creation on-site with no delays.

PADT's Digital Manufacturing Facility, the Southwest's first true "3D Printing factory," is now open to customers. For more information about On-Demand Manufacturing with Carbon, please visit PADT's site here or call 1-800-293-PADT. For more information about Carbon, visit www.carbon3d.com.

About Phoenix Analysis and Design Technologies

Phoenix Analysis and Design Technologies, Inc. (PADT) is an engineering product and services company that focuses on helping customers who develop physical products by providing Numerical Simulation,

Product Development, and 3D Printing solutions. PADT's worldwide reputation for technical excellence and experienced staff is based on its proven record of building long-term win-win partnerships with vendors and customers. Since its establishment in 1994, companies have relied on PADT because "We Make Innovation Work." With over 80 employees, PADT services customers from its headquarters at the Arizona State University Research Park in Tempe, Arizona, and from offices in Torrance, California, Littleton, Colorado, Albuquerque, New Mexico, Austin, Texas, and Murray, Utah, as well as through staff members located around the country. More information on PADT can be found at www.PADTINC.com.

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