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Express Pattern Is Now the Source for 3-D Models Using the Revolutionary New PolyJet Matrix™ Technology and Connex500™ 3-D Printing System

Vernon Hills, IL – Express Pattern Inc., a leading provider of rapid prototype solutions for functional prototypes and investment castings and one of the largest US rapid prototyping services bureaus, announces they have acquired the revolutionary new PolyJet Matrix™ technology and Connex500™ 3-D Printing system to quickly turn-around 3-D models. In a single build process, Express Pattern creates ultra-thin-layered, high-resolution, 3-dimensional printed models of parts and assemblies made of two distinct materials with different physical and mechanical properties. Additionally, using the Connex500™ System, Express Pattern can fabricate on demand 21 types of Digital Materials™ to create composite materials possessing the exact properties required for a specific application. The resulting models for mixed parts, composite materials, and mixed trays are highly accurate in detail and surface finish to the final products produced using complex molds and double injection. The savings in terms of printing, post-processing time and materials replacement are dramatic.

With the new PolyJet Matrix™ technology and Connex500™ 3-D printing system, Express Pattern can now create prototypes not previously possible with rapid prototyping methods such as:

- **Simulated over-molded parts** – a harder plastic part covered with a layer of an elastomeric-like material to simulate over-molded parts.
- **Movable assemblies** – assemblies of parts with clearance to allow motion, such as hinges and rotating parts.
- **Biomedical and translucent models** – transparent models with internal features made of different colored materials for visibility.
- **Living Hinge** – a flexible material in the hinge areas of living hinge applications that demonstrate limited functionality.

With over 23 years of technical experience servicing the rapid prototype industry producing a wide range of parts, Express Pattern provides customers with unsurpassed resin selection expertise, including the new Objet® FullCure® model materials used in PolyJet Matrix™ technology. Express Pattern offers one of the industry's largest Stereolithography (SLA) and Thermojet™ manufacturing capacities with equipment ranging in platform build windows from 10" x 7.5" x 8" up to the industry's largest 26" x 30" x 22". With 12 SLA machines ranging from Vipers to the new Viper Pro, plus the new Connex500™ 3-D printer, the widest range of materials in the industry and dedicated project managers who service accounts from start to finish, Express Pattern responds to needs quickly.

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Express Pattern specializes in providing rapid prototype solutions for functional prototypes and investment castings and produces high quality QuickCast™, Thermojet™ and PolyJet Matrix™ investment casting patterns and functional prototype parts that are accurate, consistent, repeatable and have a superior surface finish. Express Pattern's recently expanded 20,000 sq. ft. facility in Vernon Hills, IL, has 12 QuickCast™ stereolithography (SLA) units, 9 Thermojet™ systems and the new Connex500™ 3-D printing system. Employing 25 highly effective project managers, engineers, and solutions specialists, the company also attributes much of its growth to its team of experts placing a high value on the people-side of Express Pattern's business. The team is known to go beyond the expected to assist Express Pattern's customers in developing procedures that successfully and reliably process investment casting patterns and prototype production.

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