laser reproductions
rapid prototyping + manufacturing + product development

Where Innovation and Technology Merge

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laser's edge

The Rapid Prototyping, Manufacturing and Product Development Newsletter

in this issue

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Where Innovation and Technology Merge

***laser's** edge* is a quarterly newsletter published for those in the rapid prototyping, manufacturing and product development industries. It is produced by:

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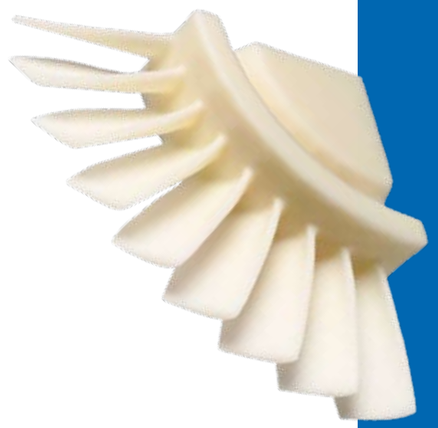

Living in a Material World

Innovative Resins Lead a New Generation of SLA Possibilities

Technology is blazing a trail when it comes to the selection of materials available for today's rapid prototyping solutions. Parts made with exceptional accuracy, outstanding stability and high heat deflection values are not only possible, they are now being produced with record turnaround times.

Leading the way among these innovative materials are the latest SLA resins from **DSM Somos®**, which include **ProtoGen O-XT™ 18120** and **18420**. These resins are based on DSM Somos®′ **Oxetane Advantage™**—a material technology that develops parts with faster photospeed, higher green strength and better resistance to moisture.

For precision, ProtoGen O-XT™ 18120 and 18420 are tough to beat. The materials deliver extremely high accuracy during builds due to very low differential shrink. ProtoGen resins exhibit linear shrinkage of less than 0.001 inch—a value typically only seen in highly-filled composite resins.

Finished parts can be drilled and tapped without breakage, making further improvements in accuracy and design flexibility possible during post-machining. Because ProtoGen materials produce excellent sidewall quality, less secondary finishing is required to remove layer lines—a valuable cost-savings benefit.

Another standout is the **DSM Somos® 9420 EP-White**, which combines the mechanical performance of polypropylene with an aesthetic similar to white injection-molded materials. The resin is strong, resilient and less likely to snap compared to other materials when performing function testing. Its flexibility makes it useful for many applications including, snap-fit parts and hinges.

In 2006, DSM Somos® designated Laser Reproductions as an exclusive provider of the complete line of DSM Somos® ProtoFunctional® resins, allowing Laser to provide the largest offering of the materials from a single source among service bureaus in the United States.

Laser Reproductions has extensive experience with a variety of processes and a vast selection of materials to accomplish your rapid prototyping, manufacturing or product development project. Call 614.552.6905 or visit www.laserrepro.com to learn more.

behind the scenes

Profile: Matt Lucas, Sales Manager

As sales manager, **Matt Lucas** leads the Laser Reproductions sales team and oversees the company's sales program to position it for viable growth. He conducts research to identify potential growth markets, and develops strategies to advance new business in those areas. Lucas also works with Laser Reproductions' project managers to ensure consistent, proactive customer service.

Lucas previously served as operations manager, which involved overseeing, creating and maintaining operational procedures. The experience gave him valuable insight into the operations side of the business and allowed him to redefine the structure of the sales division to work in conjunction with operations in delivering successful projects and superior customer service.

With a work ethic strongly rooted in maintaining customer satisfaction, Lucas strongly believes that his efforts and those of the entire company should focus on consistently delivering the highest level client service.

*Laser Reproductions will be launching its new Web site! Our site has been enhanced to better serve our clients. Our Web address will remain **www.laserrepro.com**.*

*Please be sure to add **info@laserrepro.com** to your e-mail address book. We will be sending out quarterly e-mails on exciting new projects and company news.*

*Despite the cold, the competition heated up at the Laser Reproductions headquarters in January as eight employees vied for the title of best chili at the company's Chili Cook-Off. **Mark Jones**, SLA shop manager, won first place. Second place was awarded to **Dave Evans**, Model Development Lab manager. **Jason Lukacsko**, Model Development Lab finish lead, captured third.*

*Fore! Laser Reproductions' employees showed off their short games during a indoor putt-putt competition on March 29. The team of **Dave Evans**, Model Development Lab manager and **Jason Lukacsko**, Model Development Lab finish lead, won first place.*

in production

client JEGS
project InJEGtor Scoop

Laser's in-house design team created 3-D concept sketches for high performance automotive product company JEGS. The Model Development Lab developed a volume study model to represent the product's real proportions.

A virtual model was designed, and a SLA prototype was made to check the accuracy of the virtual model.

client Microtech Small Arms Research (MSAR), a division of Microtech Knives Inc.
project Stock, Trigger Mechanism, Grip and Magazine Round Prototypes

Microtech Small Arms Research (MSAR) contracted Laser Reproductions to develop stock, trigger mechanism, grip and magazine round prototypes for MSAR's new firearm.

The prototypes were developed using the supreme clear DSM Somos® 11120 SLA resin. Laser Reproductions then painted the models to create the appearance of an authentic gun.

laserworld

Laser Attends Industry Events

Pacific Design & Manufacturing Show

Laser Reproductions was among the many professionals and vendors who attended this year's Pacific Design & Manufacturing Show, held February 13-15 in Anaheim, California. The annual event is the West Coast's largest design and manufacturing show.

Atlantic Design & Manufacturing Show

Visit Laser Reproductions at **booth #103** at the largest design and manufacturing show in the Northeastern United States. The 2007 Atlantic Design & Manufacturing Show is set for June 12-14 in New York City. For more information, visit www.atldesignshow.com.

RAPID 2007 Conference & Exposition

Laser Reproductions will be exhibiting at the Society of Manufacturing Engineers' RAPID 2007 Conference & Exposition, which is scheduled for May 1-3 in Detroit, Michigan. Be sure to visit us at **booth #517** during North America's largest annual rapid manufacturing event. For more information, visit www.sme.org/rapid/.

Laser Reproductions' Helping Hand Award

Each week, Laser Reproductions recognizes one employee with a Helping Hand Award for exceptional work performance. The employee with the most Helping Hand Awards at the end of the year receives a bonus—and bragging rights. Laser Reproductions recently placed a plaque in its main lobby next to other company awards, which is engraved with the names of past yearly Helping Hand Award winners. Congratulations to the top contenders for first quarter of 2007:

Employees with One Award
- Adam Bernsdorf
- Tyson Bourk
- Ray Crabtree
- John Parsons
- Sue Sanders
- Robert Seckman
- John Smith
- Kevin Turner

Employees with Two Awards
- Karen Bordner
- Rose Moore

creating impressions

Profile: LAE Technologies Inc.

***laser's** edge* speaks with **Colin Johnson** of **LAE Technologies Inc.**, an Ontario, Canada-based rapid prototyping and product development company. The company partners with companies through every stage of product development and manufacturing. Specializing in leading technologies, worldwide development capabilities and reliable service, LAE develops customized solutions that help businesses reduce time-to-market.

LAE Technologies Inc.

What do you value most when working with product development and prototyping partners?

An open and trusting relationship is essential.

How can a partner organization allow you to help your clients?

Our clients' projects are time sensitive, so it's important for us to work with a team that understands and respects our need for a quick turnaround. We look for companies that provide an acceptable timeline and are responsive to our needs by giving us fast, reliable turnaround.

Do you value long-term relationships?

We prefer to work with companies that we know and trust. We have established a great relationship with Laser Reproductions over the years.

How would you rate Laser Reproductions overall?

We have partnered with Laser on countless projects for six years and they consistently deliver on their commitments. Even though we are located in two different countries, it is a seamless process.