

laser's edge

The Rapid Prototyping, Manufacturing and Product Development Newsletter

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Laser Reproductions Boasts 17 SLA Systems

Laser Reproductions Extends Hours to Better Serve Growing Customer Base

An Interview with Pete Athens of Microtech Small Arms Research (MSAR)



learning curves



Laser Reproductions Boasts 17 SLA Systems

With the addition of its seventeenth Stereolithography (SLA) Machine, Laser Reproductions is proud to be one of the largest SLA service bureaus in the United States.

SLA is the most popular rapid prototyping technology. It is an "additive" versus traditional "subtractive" machining process. The technology enables designers, engineers and mold makers to hold and evaluate 3-D models of the end product, prior to investing in production tooling – avoiding costly and time-consuming design alterations during the production process.

In order to better serve our customers, Laser Reproductions offers a variety of SLA machines, manufactured by 3D Systems Corporation, for rapid prototyping projects:

SLA 5000: This machine can tackle a full range of solid imaging applications in a small amount of time. This machine's solid-state laser technology delivers up to 35 percent more power than other machines its size.

SLA 7000: This is a powerful and quick SLA machine. It is three times faster than the SLA 5000. The system also allows Laser Reproductions to produce parts as large as 20 x 20 x 23 inches in the systems' build envelope. And its highly-reliable design includes fewer parts – a low vibration optical system and revolutionary dual-spot laser technology – reducing downtime and errors.

Viper™ Pro: This is the fastest and largest SLA machine in the world. It builds parts in high resolution on a 25 x 30-inch platform, but is capable of building larger parts in sections and bonding them together. This is true of the SLA 5000 and SLA 7000 as well. When it comes to high resolution on a larger scale, this machine

takes SLA to a new level, offering speed, accuracy, surface finish and a maximum part size normally associated with CNC machining.

Viper™ si2: This machine is the highest resolution solid imaging machine system ever built. It offers a unique dual-spot laser with a normal beam diameter of 0.010" and a high-resolution diameter of 0.003". Because of that, this machine is ideal for small, precision builds with extremely detailed parts, which is especially important in time critical stereolithography situations.

These SLA machines make limited production runs possible, which saves our customers time and money. We can also test more options and explore new possibilities as these machines can create multiple design iterations in a fraction of the time.

In addition, these machines are built for maximum throughput to increase productivity. They support our stereolithography department, at top speed and resolution, and eliminate production bottlenecks.

Laser Reproductions has extensive experience with the high-resolution SLA to accomplish your rapid prototyping, manufacturing or product development project. Call 614.552.6905 or visit www.laserrepro.com to learn more.

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behind the scenes

Profile: Lisa Mannon

As director of finance and human resources, **Lisa Mannon** is one of four executives who participate in all key management and strategic decisions.

When she's performing her finance director role, Lisa oversees the month-end and year-end closing of the accounting books, analyzing monthly income statements, evaluating corporate expenditures, acquiring equipment funding from financial institutions, monitoring internal and external cash flow, coordinating all IT activities with an outside consultant, and supervising administrative staff.

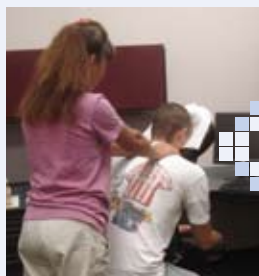
When Lisa is wearing her human resources hat, she makes strategic staff decisions such as evaluating and interviewing potential candidates, processing background checks, and managing hiring documents and procedures. She is also responsible for managing employee benefits activities and processing payroll.

Prior to these positions, Lisa served as account manager and customer service manager where she coordinated internal and external communications and worked closely with clients.

Lisa's career at Laser Reproductions has required her to effectively communicate with a variety of different people on diverse topics and projects, a skill that she believes essential for all good leaders.



In April, Laser Reproductions held a Spring Cleaning Day, which included time to clean up desks and offices, enjoy a cook-out with co-workers, and exercise a competitive edge in the **Progressive Euchre Tournament**. Laser granted money prizes for the top three players.



Employees looking to relax, reduce stress, and re-energize for the rest of the work week took advantage of the **10 minute chair massages** offered on June 22. In addition, employees enjoyed a delicious lunch catered by City Barbeque.



Laser hosted an **Ice Cream Sundae Social** on May 25, offering a variety of ice cream flavors and sundae toppings to satisfy all ice cream lovers. Everyone enjoyed the chance to socialize with co-workers and forget about calorie counting for a few hours.

in production

Take the Day Off and Put Laser Reproductions to Work

Holiday weekends offer your business the opportunity to remain productive even as you enjoy the last 'official' weekend of summer. The parts you need can be waiting for you after a holiday when you take advantage of a special offer from Laser Reproductions.

Laser Reproductions is a 24/7 business – even during holidays. When you bring us a project for the entire week of a holiday or prior to a holiday weekend, Laser will give you a 10% discount on any project. This offer will begin at 7 a.m. Monday and end at 9 p.m. EST Friday for these special offer periods. Reminder postcards will be sent out with a special code for mention to get the discount. There is no limitation on the size of the piece or part you need produced. Laser Reproductions has the platform to handle your project's specifications.

This special pricing is available for the following holidays: Thanksgiving, Christmas and New Year. Don't let another holiday slow you down. Contact Laser Reproductions at 614.552.6905 or sales@laserrepro.com to schedule your job, maintain productivity and save money.



laserworld

Laser Reproductions initiated its **Drug Free Workplace** policy at the beginning of June. Its goal is to create a safer, more efficient, and more reliable environment for employees and business partners.



Laser Reproductions surprised founder **Jerry Bordner** with a retirement party at the Hilton at Easton on Saturday, July 14. Employees, family and friends gathered to celebrate.

Laser Reproductions is pleased to announce its **new extended hours** of 7 a.m. to 9 p.m. EST to accommodate the company's growing customer base. The company has recently experienced a rising demand for its stereolithography (SLA), urethane castings, foam modeling, and metal and plastic fabrication technologies in the region. These new hours help it provide its new West coast partners with the best customer service possible.

Laser Reproductions has officially launched its new Web site. Check us out at www.laserrepro.com.

Laser Reproductions Honors Employees

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 the second quarter of 2007:

Employee with Three Awards

Karen Bordner

Employees with Two Awards

Ray Crabtree

Bill Levings

Rose Moore

Sue Sanders

Kevin Turner

Employees with One Award

Travis Behara

Adam Bernsdorf

Tyson Bourk

Tricia Bully

Deann Clark

Darrel Disbennet

Justin Mannon

John Parsons

Robert Seckman

John Smith

Jason Thompson

Scott Vreeland



creating impressions

Profile: Microtech Small Arms Research (MSAR)

laser's edge speaks with **Pete Athens of MSAR**, a division of Microtech Knives, Inc., based in Bradford, PA. Microtech Knives' mission is to provide high-quality knives that utilize only USA manufacturers' parts, material, and labor. MSAR's role in the company is to research small firearms and create high-quality sporting products.



How did your relationship with Laser Reproductions begin?

With two weeks remaining before opening day of the annual Shooting, Hunting, and Outdoor Tradeshow (SHOT), we took the advice of a business partner and called upon the expertise of Laser Reproductions to develop stock, trigger mechanism, grip, and magazine round prototypes for the Microtech STG-556™ rifle.

How has this partnership been beneficial to you and your clients?

Working with Laser Reproductions allowed us to showcase the rifle for the first time. This show was the perfect platform to unveil the rifle to key buyers and opened up many business opportunities for MSAR.

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

Commitment, efficiency, and timeliness. Laser Reproductions was committed to our project and was able to complete it a week sooner than a project of this caliber would typically require. Their prototypes were high-quality and looked great.

Laser Reproductions' sales and management staff were very knowledgeable about what to do with the project despite the tight deadline. Their enthusiasm and genuine interest in the project made us feel more secure in working with them. We definitely plan to work with Laser Reproductions in the future.