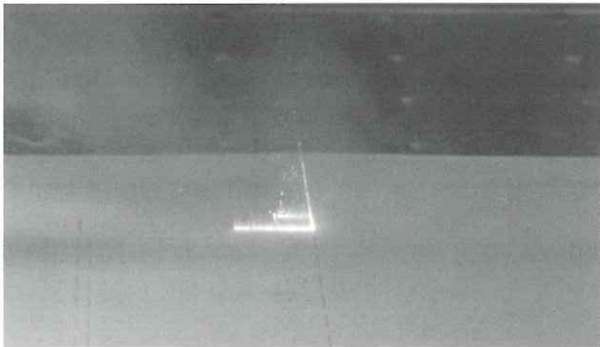




ORION® Adds Laser Cutting

It would seem that each edition of this newsletter contains an extensive article about our purchase of a bigger and better piece of equipment to help our customers realize their designs. This edition will be no different!! We are proud to announce the addition of laser cutting to our repertoire of cutting processes.

ORION has recently installed a Preco Flexpro® CNC laser cutting system.



Parts with detailed features can be cut without added expense or long lead times.

The Preco FlexPro® CNC laser cutting system provides the speed of galvanometer processing with all the versatility of an XY motion system. Now with both galvo and fixed head processing available on one machine, the FlexPro® may be the only laser we ever need. This system offers large area processing with the tolerances found in small area processing systems. AcuBeam controller features such as AcuPower and closed loop power control allow precise cutting and kiss-cutting over a large area.

Galvo based laser cutting is achieved by steering the laser beam with an array of mirrors that are moving at precise, high speeds. This often gives the impression of the parts simply appearing out of a small puff of smoke! The galvo based laser cutting allows us to cut a wide variety of materials at extremely fast speeds in some cases in excess of 100 inches/second!

We are able to cut parts with many more detailed features than we could with conventional tooling, without the added expense and lead-time associated with their purchase. This equipment is also capable of roll-to-roll processing for increased throughput and material economy.

The fixed beam laser cutting capability also allows us to cut a wide variety of thick materials such as acrylic, polypropylene, wood and other laser-friendly materials.

Typical Applications include:

- Insulators
- Gaskets
- Medical Diagnostics
- Card Stock and Paperboard
- Flex Circuits
- Membrane Switches

Materials Processed:

- Plastics
- Adhesives
- Foams
- Laminations
- Papers

Similar to our other CNC based waterjets and router, this laser is suitable for the full range of prototype and production quantities of parts.



Roll-to-roll processing provides increased throughput and material economy.

Visit our website at www.orionindustries.com, to see a video demonstration of our laser cutting capabilities, or contact our Sales Manager, Peter Smith, for a first hand look.

ORION is a registered trademark of Orion Industries Incorporated. ORION provides custom designs and manufacturing for EMI/RFI shielding, insulating, screening and sealing needs.



Ryan McCrillis is a manufacturing engineer at ORION who works extensively with customers to solve design and materials issues. To submit your questions to Ask Ryan, email us: info@orionindustries.com

Q: Ryan, I'm confused about UL Flammability ratings. Can you explain these to me?

A: The test for flammability in plastic materials for parts in devices and appliances is known as UL Standard 94.

There are two main categories:

The vertical burning test for sheet and molded plastics (solid).

Results from this test would be 94V-0 (the best rating), 94V-1, and 94V-2.

Thin materials can be tested by the thin material burning test.

Results from this test would be 94VTM-0 (the best rating), 94VTM-1, and 94VTM-2.

For foamed plastic materials the horizontal burning foamed material test is used.

Results from this test would be 94HF-1 (the best rating), 94HF-2, and 94HBF.

It should be noted that some materials are capable of passing both tests.

ORION CELEBRATING 35TH ANNIVERSARY

ORION is proudly celebrating its 35th Anniversary! We want to thank our customers for helping us reach this important milestone, and we hope our relationship with you will continue for many years to come.



EQUIPMENT HIGHLIGHTED AT ORION OPEN HOUSE

On a sunny October day, many of our customers got to see just how we make the variety of parts used in their products.

Small group tours through the plant provided close-up views and dynamic information sessions about our laser, waterjet and high speed die cutting processes. Equipment specialists demonstrated each machine's capabilities and allowed for an informal question/answer period. Some customers brought blueprints for evaluation of the best fabrication methods - and got answers on the spot.

The chance to meet and speak to everyone was enjoyable, as we all took part in the BBQ lunch under the big tent on the front lawn. Overall, it was a huge success, and we thank everyone who joined us for our Equipment Open House.



SEASON'S GREETINGS FROM EVERYONE AT ORION!

ORION uses quality materials to produce high quality parts.

