

THE NAVIGATOR



Rapid Tooling Ranges in Size

Typically, rapid tooling companies only work in a 4" x 6" size limitation. This small envelop limits the opportunity for customers that have larger parts or the opportunity to put multiple parts in a family tool to save time and money.

With our proprietary fixture for rapid tooling, we can run parts that are larger than the standard 4" x 6" size. The largest part that we built a tool for in-house was 15 1/2" x 8 1/2" x 6". Depending on the

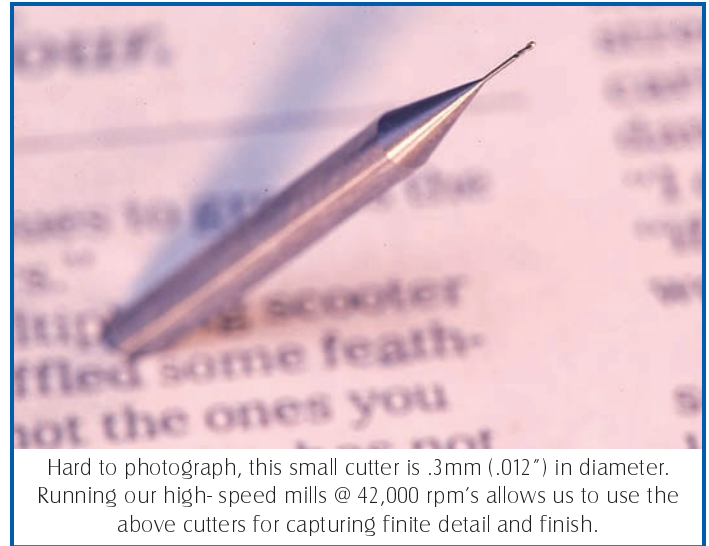
size, part design, and coolant, we can go larger.

We are also pushing the technologies of high-speed machining at 42,000 rpm's. We

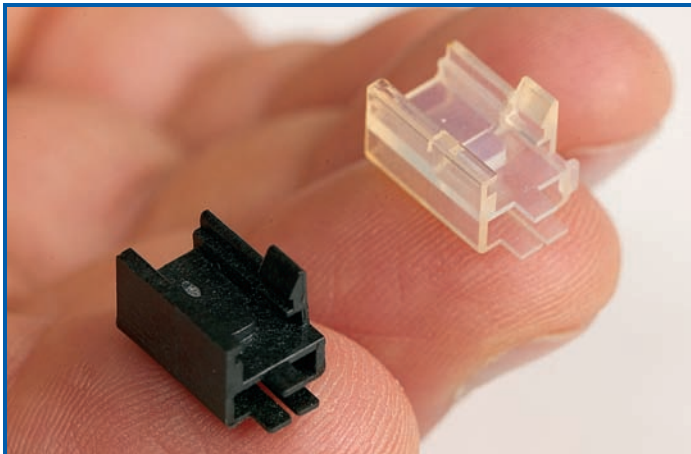
are capable of using cutters with a .3mm (.012") diameter extended out 4mm (.125") which allows us to mill small features that were in recent times unmillable. This technology excels well for small devices in the medical and electronic industries.

For larger parts that we cannot build in-house, we have a partnership with a Japanese company that can make these tools in Japan and in South Korea. We have sourced tools to them since 2000. They have

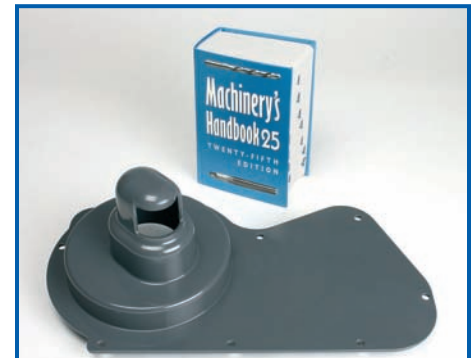
been a great source for large parts, extremely difficult parts, and overflow work. Vista completes around 95% of the rapid tools and low-volume production tools in-house and sources about 5% back to our Japanese partner.



Hard to photograph, this small cutter is .3mm (.012") in diameter. Running our high-speed mills @ 42,000 rpm's allows us to use the above cutters for capturing finite detail and finish.



SLA and Injection Molded parts sit side by side. The SLA was made first to prove out design, then the part was rapid tooled in 2 weeks for spec material and higher quantities.



This part extends to 15 1/2" x 8 1/2" x 6" and was completed and sampled in our standard 2-3 week lead-time.

SLA • FDM
SLS • CNC
Metal Castings
Bridge Tooling



Flexible &
Standard Resins
Rapid Tooling
RTV Molding

More SLA Materials

Vista Technologies has expanded their SLA material options again. Vista now has the option of running Accura "SI-50" material on SLA Viper machine. The SI-50 material is white in appearance and mimics 80% the properties of ABS. This material broadens the capabilities of running a flexible resin (Somos9120) for snap fits and a more rigid SI-50 material on the Viper.

The SI-50 compliments Vista's current resins. As mentioned above, the Somos9120 material works great for snap



SI-50 (white in color) is a rigid material for small parts. It has properties that simulate 80% of ABS.

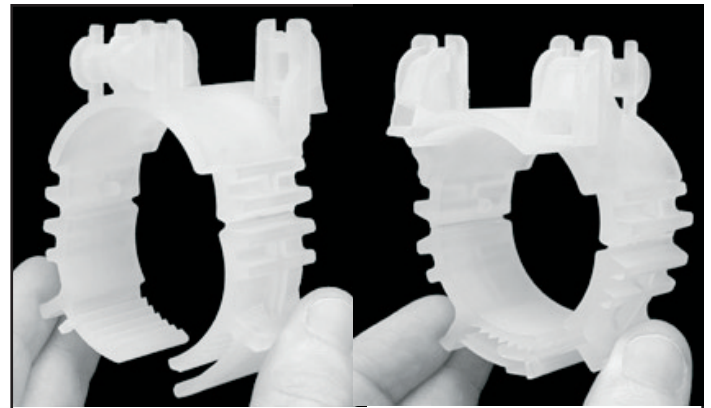
fit features. Our all purpose Somos11120 material is our everyday workhorse, this material is water-deterrent and can be made transparent by polishing. Somo11120 is also a great material for RTV molding and metal casting patterns.

Another SLA material that Vista has access to is a soft-durometer flexible material (MR-45). The MR-45

material is 45 Shore A in hardness. This material can be an adequate option for a few small rubbery parts before casting parts from an RTV mold. Since the material is so soft, it is difficult to finish. The surface finish and appearance is cruder than the standard SLA materials.



The 11120 resin is a good all purpose material that is water deterrent and can be polished to be transparent.



9120 is a great material for snap fit features. It is more durable at elongation than other standard materials.

Due to the increasing SLA material options, please contact your Vista sales contact for more info and to see some samples. These SLA material spec sheets are posted in a PDF format on our updated website at www.vistatek.com. Please download at your convenience.



This soft SLA material has properties of 45 Shore A. This part was tinted black per customer request as a post cure operation.

For up-to-date information check out our newly updated web site

www.vistatek.com

E-mail us at: prototype@vistatek.com

Information available includes:

- Latest publications
- Newest developments
- Upcoming trade shows and activities Vista will participate in
- Current and back copies of **The Navigator**

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