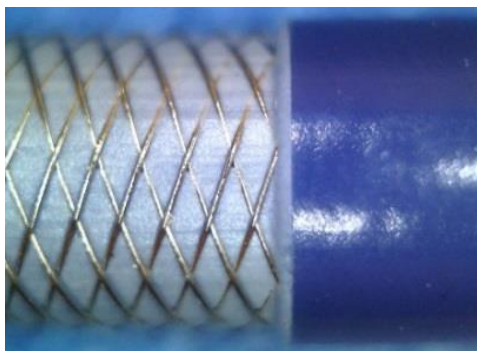




## Laser Processing of Catheters

In the heart of Minnesota's Medical Alley, SSDI has developed state of the art laser processes to achieve your catheter design requirements. SSDI's capabilities range from techniques to produce simple irrigation holes all the way up to sophisticated spiral cut designs. With over 20 years of medical device laser processing experience, our focus on quality and operational excellence delivers consistent outcomes in industry leading lead-times.



### Laser Turning

SSDI's laser turning process is the solution to low cost multi-durometer catheter constructions. Utilizing our custom designed turning technology, SSDI's process will provide a myriad of benefits for our customers considering the current price sensitive needs of the medical device market.

- OD tolerances down to 0.0002"
- Ablation lengths of 0.050" to over 12"
- Diameters range from 0.001" to 0.250"

### Laser Drilling

SSDI's laser drilling technology provides a clean, burr-free hole which eliminates the risk of large particulates being left behind. We routinely cut diamond patterns, slots, ovals and holes while leaving the braid intact.

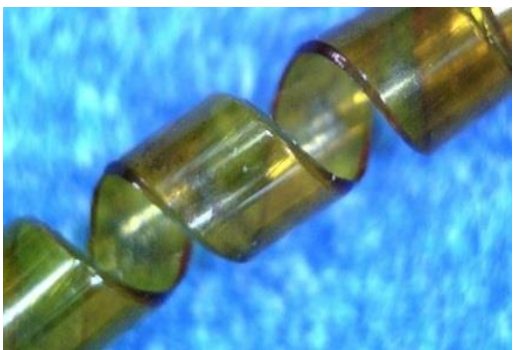
- Hole sizes ranging from 0.001" to 0.090"
- Extremely tight tolerances up to +/- 0.0005"



### Composite Laser Processing

As composite catheter constructions continue to advance in the interventional market space, SSDI has positioned itself to partner with our customer's laser processing needs. Utilizing our R&D technology center we have enhanced our ability to use multiple wavelengths to cut a variety of custom geometries in dissimilar plastics.

- Common Materials: polyimide, Pebax, nylon, Tecoflex, PTFE, FEP, polyethylene and polyurethane
- Common wall thicknesses from 0.001"



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