

## Precision laser machining of quartz tubing and capillaries

**Accurate automated laser cutting enabling high quality crack free cuts  
Improve product performance while reducing manufacturing costs**

Traditional methods for cutting quartz tubing and capillary involve a score and snap, followed by grinding to length, then annealing to relieve stresses in the material, finally the finished length must be washed to remove debris. Using precision laser cutting a tube blank may cut accurately cut to length without the need for grinding or annealing.

### Performance

Unmatched accuracy, speed and flexibility. Featuring:

- End face quality ready for use, surface finish is laser polished
- No grinding or annealing required
- High speed laser cutting
- Processing a wide range of tube O/D and wall thickness
- Accurate cutting to the required length
- Clean cutting, minimal debris
- High yield low waste

### Automated Production Tools

Fully integrated, turnkey machines

- Automated manufacturing
- Integrated high-magnification vision system
- multi-tube carousel or continuous feed
- Material output: multi-tube collection and transport racks

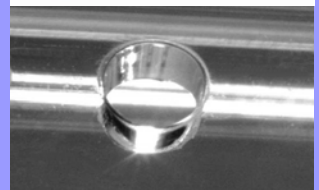
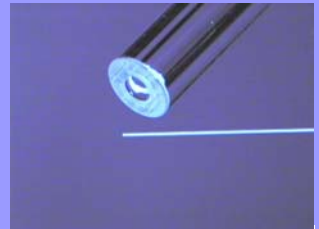
options include:

- Customized material handling
- On-line inspection of processed components
- Batch numbering and bar code referencing
- Integrated hole drilling
- Integrated polymer coating stripper for capillaries

### Sub-contract Manufacturing

OpTek Systems operated a fully equipped manufacturing facility for development through the qualification and full contract production services:

- Outsource your manufacturing with OpTek Systems
- Development and optimization of process for your specific requirements
- Prototyping through to a complete manufacturing service



## OpTek Systems

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