

## Ultra-Precision Thermoplastic Extrusions for Balloon & Microcatheter Construction

Microcatheter & balloon construction advancements present design challenges often requiring ultra-precise or multi-layer tubing of the highest quality and consistency.

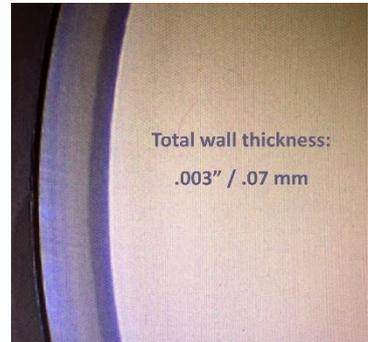
### Microcatheter Components capabilities include:

- High-endurance, burst-resistant micro balloon tubing with superb tensile properties.
- Custom-engineered microcatheters with GRIPLOCK™ laminating layers.
- Thin-walled multilayer extrusions with radiopaque materials to enhance imaging.
- Realization of newly designed microcatheters combining slippery linings, tough outer layers, soft inner layers and more, breaking barriers in the medical device field.



By creating versatile microtubes of complex mechanical properties, Microcatheter Components' precision multilayer extrusion technology is solving real medical device design problems.

These clear, thin-walled extrusions appear to consist of one uniform material, however, each tube is actually comprised of three layers.



Layers offer several design solutions even in small diameters & thin walls:

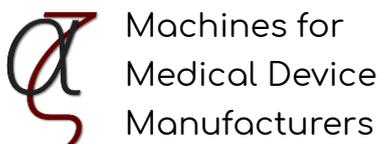
- Inner or outer slip surface liner
- Optimization of mechanical properties
- Adhesive inner and outer layers
- Increased resistance to burst failure



Microcatheter Components is **ISO13485 Certified**

Sales & Technical Support in Europe, India & Middle East:

### Alpha Zukunft GmbH



- ✓ Located in Freiburg, Germany
- ✓ Factory-Trained Technical Support

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## Vascular

Microcatheter design for vascular applications requires precise components for angiography, thrombectomy, aspiration, and embolization. Our team delivers complex microcatheter and balloon components for special applications and tightly controlled mechanical properties.

## Interventional Neuroradiology

Navigating through the complex pathways of the microchannels of the brain presents exceptional difficulties when it comes to microcatheter design. We're not intimidated and we embrace the challenge! Our team has years of experience in designing components for diagnostic and interventional neurological procedures.



## Pediatric & Neonatal

The smallest infants in the Neonatal Intensive Care Units are born with unique challenges—and tiny, fragile vessels. Precision means our team can deliver wider working channels and small diameters in complex one, two, and three layer extruded components, from umbilical catheters to neonatal PICC lines.



## Oncology

To deliver chemotherapy treatments to cancerous tumors often means navigating through smaller vessels to those localized sites. Our precise components enable differentiated designs with larger working channels and small outside profiles.

## Palliative Care

Quality of life and comfort are arguably two of the most important factors for patients with end-stage metastatic disease. Microcatheters for endovascular stenting and arterial embolization can deliver symptom management and pain relief at this crucial time.

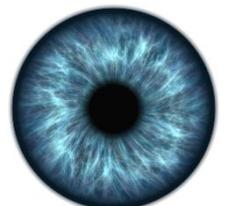


## Urology

Urological applications, including diagnostics and surgical interventions, require precise, kink-resistant microcatheter designs. Our precision components for urological microcatheters include multi-layer, large-lumen/low-profile extrusions, coil and wire coating capabilities.

## Ophthalmology

Ophthalmic interventional medicine can require high precision and miniaturization for applications such as canaloplasty, used to treat glaucoma. A range of material properties and constructions can be available in the smallest diameters for critical ophthalmic applications.



**Microcatheter Components - New Hampshire, USA**  
*is committed to manufacturing high-precision tubing for medical device customers worldwide while supporting the environment, local & global communities. ISO13485 Certified*  
[www.MicrocathCo.com](http://www.MicrocathCo.com)