



Quality Leak Testing Machines & Metering Pumps for over 30 Years

Leak Testers

- ✓ Modular design for custom configurations
- ✓ Multiple test types in a single tester
- ✓ Intuitive interface; quick & easy test setup



Precision Metering Pumps

- ✓ Eliminate costly inaccuracy & excessive maintenance of tubing & diaphragm pumps
- ✓ Ceramic internals; millions of maintenance free cycles
- ✓ Valve-less; syringe-like precision & drift free accuracy
- ✓ Solutions for a variety of pump & dosing applications

Electronically Variable Metering Pumps

- ✓ Automatic Volume Adjustment
- ✓ Ethernet & RS485; Control up to 32 pumps at once
- ✓ Control stroke rate, RPM, Direction & Displacement



Ultra-Precision Extrusion Technology

Catheter & balloon construction is increasingly complex, requiring advanced extrusions combining slippery linings, tough outer layers, soft inner layers, & more. Microcatheter Components produces complex microcatheter & balloon tubing with tightly controlled mechanical properties for the most challenging applications: Vascular, Interventional Neuroradiology, Pediatric, Neonatal, Urology, Ophthalmology, etc.

GRIPLOCK™ Custom-Engineered micro-extrusions: Laminated layers allow several design solutions, even in small diameters & thin walls.

*Thin-walled extrusion
comprised of three layers;
total wall thickness 0.07mm*



Call Us When You Require:

- ✓ Precise dimensional control
- ✓ Optimized Tensile & Elongation Properties
- ✓ High-Endurance, Burst resistant Balloon Tubing
- ✓ Ultra-thin walls
- ✓ Slippery or Adhesive inner or outer layers
- ✓ Low Profile Catheters
- ✓ Reflowed Catheter Assemblies
- ✓ Extreme Softness (30A +)
- ✓ Multi-layer Extrusions
- ✓ Sizes: Outside Dia from 0.23mm to 4mm,
- ✓ Wall thicknesses as thin as 0.025 mm

Thermoplastic Extrusions:

- ✓ Nylon Copolymers, including PEBA/Pebax
- ✓ High Temp Engineering Materials, including Peek
- ✓ TPE & TPU, including Pellethane, Tecoflex, Tecothane
- ✓ Custom, High performance TPE, incl. Chrono & Carbo
- ✓ Ultra-soft materials, including NEUSoft, Polyblend
- ✓ Materials modified for Radiopacity, Heat/UV Stabilization, Lubricity, Hydrophilics, Bonding
- ✓ Bonding & Laminating Materials
- ✓ HDPE

Excluded: PTFE, Silicone, Melt-processable fluoropolymers

ISO 13485 Certified





Alpha Zukunft GmbH

Machines for
Medical Device
Manufacturers

Sales & Technical Support in Europe & India for:



*Machines for Catheter,
Balloon & Stent Makers*

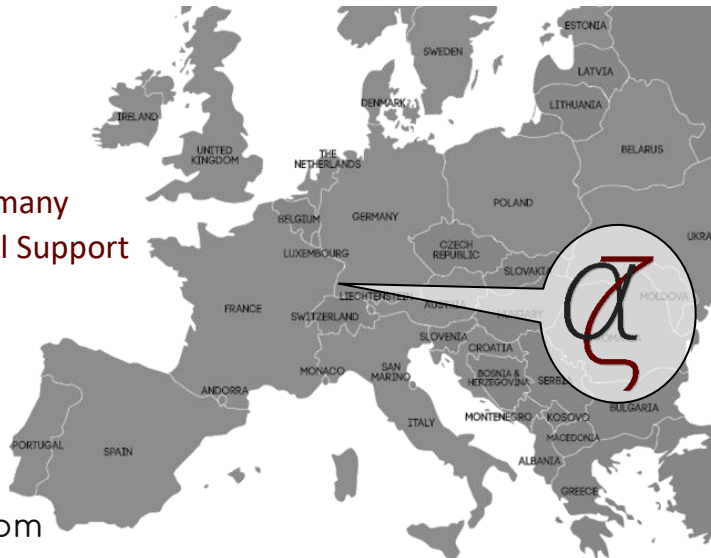


*Leak Testers &
Metering Pumps*



*Ultra-Precision Extrusions for
Balloon & Microcatheter Construction*

- ✓ Located in Freiburg, Germany
- ✓ Factory-Trained Technical Support
- ✓ Stock of Spare Parts



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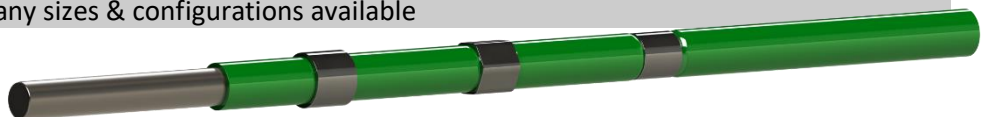
Balloon Forming & Tube Stretching

- ✓ Smallest Footprint, still able to make the longest & largest diameter balloons
- ✓ Extremely fast heating & cooling;
4x productivity of competitor machines
- ✓ Tubes Stretcher (Parison Former) employs direct contact heating; much quicker & more precise than hot-air heating method



Stent Crimping, Loading & Radial Force Testing

- ✓ Superior Crimping Process Control Easily beats competition in: precise control of diameter, crimping force, roundness, temperature uniformity & reliability
- ✓ Extremely reliable; lowest long-term cost of ownership
- ✓ Many sizes & configurations available



Marker Band Attachment: Positioning, Pre-Crimping & Swaging

- ✓ Fully Automatic Band Positioning & Swaging; Suitable for High-Volume Output
- ✓ Most consistent swaged band diameter: no force or pressure setting = lowest diameter variability
- ✓ Easy to set up & use; No shimming required
- ✓ Automatic Product Feed "Tray Loader" for High-Volume Output (Optional)

Balloon Wrapping & Compression

- ✓ World's Most Accurate Balloon Wrapping:
Best roundness accuracy & wing formation
- ✓ All-ball-bearing motion designed for near infinite life
- ✓ All Process Parameters in Recipe Control

