

# MINITUBES

## Endoscope Tubing

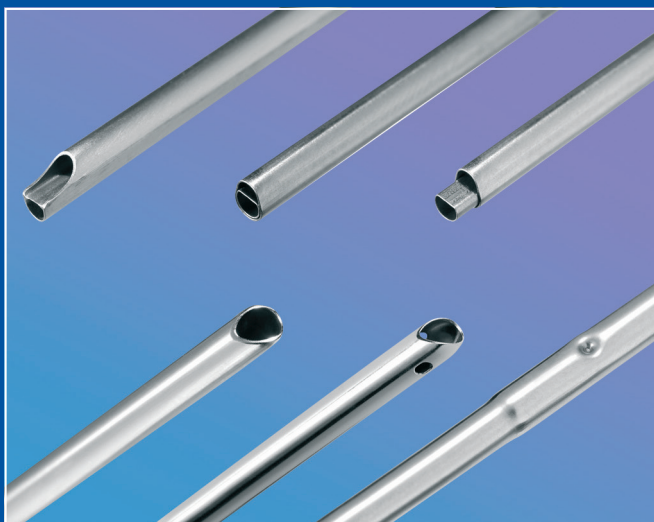
### Specialized in:

- **Rigid endoscopes:** large choice of superalloys for urology, arthroscopy, laparoscopy...
- **Flexible endoscopes:** tubing for articulation joints
- **All other material for tubular components:** AISI 304, AISI 316, Monel®



### Minitubes advantages

- In-house tubing and component production
- A choice of PH grade materials: MP35N, Phynox, 17.7
- Very strong mechanical properties
- UTS up to 2000 Mpa
- High dimensional accuracy
- Round, oval, square, stepped tubing
- End forming, polishing, assembly



### At your service

- From single components to complex assemblies
- From the design step to serial production
- Eager to develop new processes to meet your technical and ramp-up requirements

# Minitubes, from the design stage to final assembly

- We will work with you to develop your endoscope design: our experience in problem solving is available to meet your specific technical challenges.
- Express prototyping: quick turnaround at the design stage.  
To quickly test your ideas, our dedicated team will produce your prototypes, with in-house tubing production, CNC component machining, fabrication and assembly.
- Fully integrated tubing production, to control the key parameters, such as surface finish, dimensional accuracy and material for small and larger quantities.
- Choice of materials, because stainless steel is not always the best answer to your requirements for corrosion resistance, strength, magnetism.
- Special alloys designed for thin wall but very stiff tubing.
- Various geometries, optimized for your specific use: multichannel, side hole...
- A variety of fabrication processes: Swiss turning, bending, swaging, flattening, drilling, EDM cutting or machining, punching...
- Surface control: buffing, electropolishing, passivation, coatings...
- A variety of assembling techniques: welding, laser, plasma, TIG, brazing / soldering / glueing / crimping...