Les produits et services de ce document sont proposés en France par :
OPTICS CONCEPT
12 Avenue des Prés
78180 Montigny-le-Bretonneux
FRANCE
Tél : +33 (0)1 30 64 05 62
Fax : +33 (0)1 30 64 06 38
info@optics-concept.com

Presentation of the company

Focus-Concept has a strong experience in mounting small optical sub-assemblies.

We offer you today to take benefit of our know-how, in order to let us mounting systems for you

Focus-Concept has been founded by Didier PASQUELIN in March 2007, after 2 years activity in Endoscopes assembly within Optics-Concept structure.

This R&D time allowed Focus Concept to have a very quick start with high quality assemblies.

A professional environment has been created to allow volume production.

Large numbers of competencies have been demonstrated through our assemblies:

- Cleaning of optical and mechanical assemblies
- Handling of small components (D2mm)
- Cementing with high adhesion glues, cured in oven
- Water tight and autoclave resistant cementing of small sub-assemblies
- Assembly of multi-elements rod lenses
- Focusing with positioning of elements at +/-20 microns
- Finishing of tubes after all lenses are mounted (+/-50 microns)
- Laser engraving with individual serial numbers.
- Design of dedicated production and assembly tools.
- Preparation of assembly and test procedures.

In order to work with the best conditions, following equipments are available

- Ultra-sonic bathes (3x)
- Oven for thermal curing of glues Tmax = 200°C
- Lapping spindle for mechanical adjustment
- Airflow cabinet class 100 with solvents filtering
- Air gun with submicron filter
- Cement dispenser (2x)
- Stereovision magnifier
- Microscope

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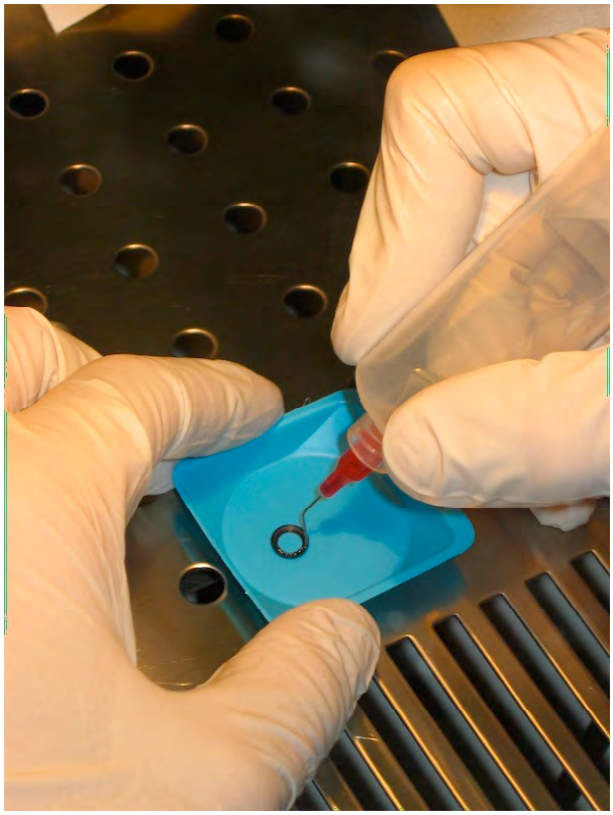
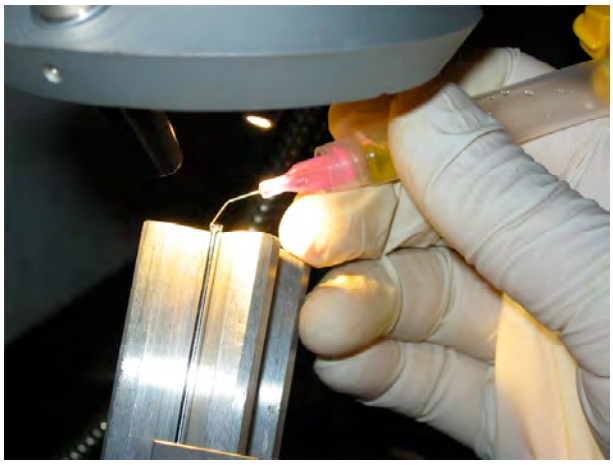
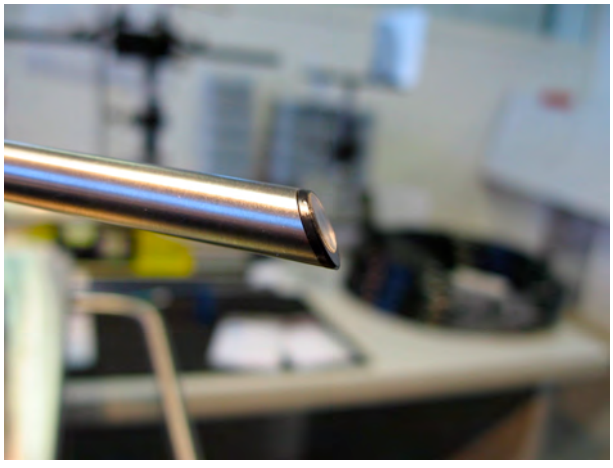
Cementing of subassembly	
Water tight cementing on a 2,30mm arthroscope	
Example of front element assembly on a laparoscope diameter 7mm	

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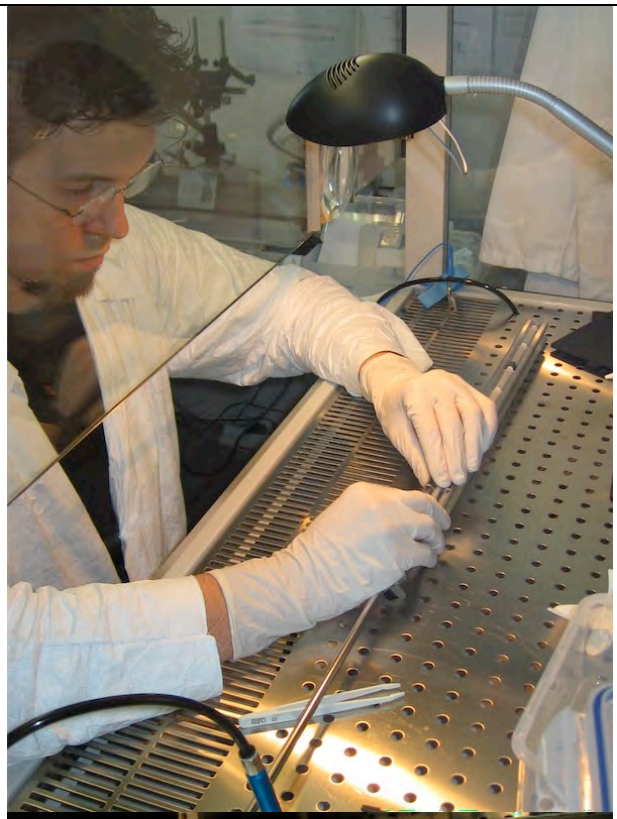
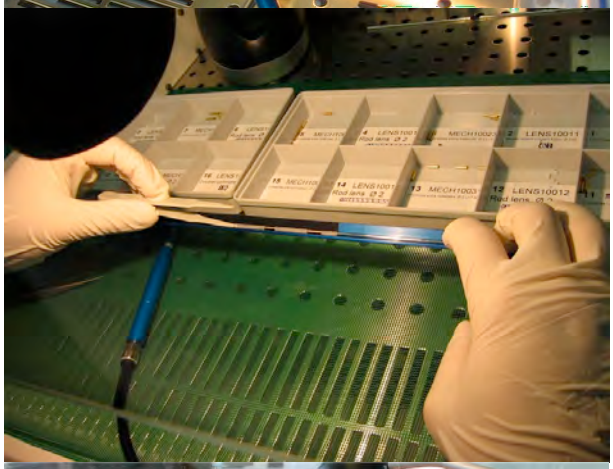
Assembly of endoscopes in class 100 air flow cabinet





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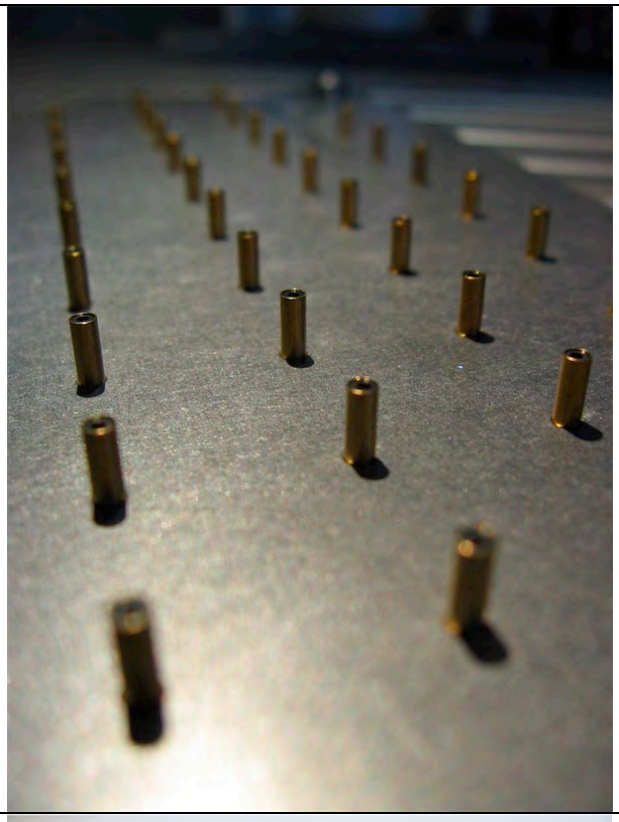
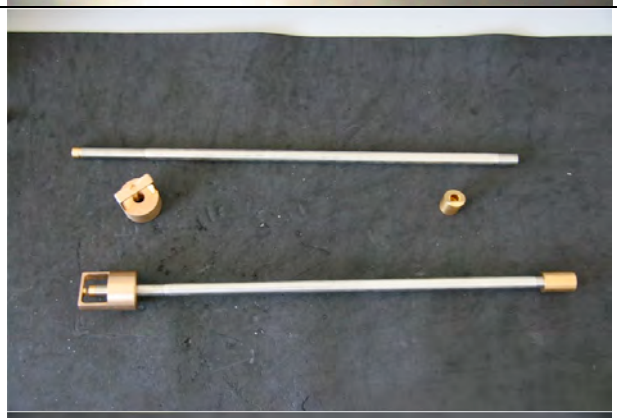
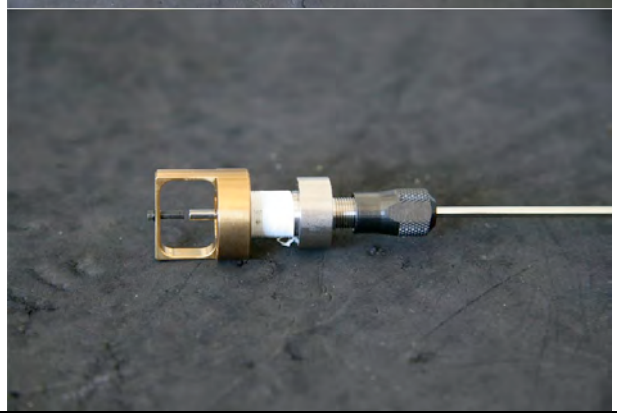
Micro iris mounted diameter 1,98mm holder. Positioning and gluing is done under microscope. Tooling designed for large volume production	
Dedicated tooling for assembly	 

Tooling optimised for mass production	
Final test on video test bench. Depth of field analysis