MIDES WE ARE **ULTRASOUND**



ENDOSCOPE REPAIRS

Facts and Figures





27 years experience in ultrasound



ISO 13485 and ISO 9001 certified



90 qualified employees



Analysis within 48h



Satisfied customers in more than 50 countries



economically successful company - equity > 50 %



Company owned innovation department for research and development





STANDARD PROBES



3D/4D-PROBES



TEE-PROBES



FLEXIBLE ENDOSCOPES



Up to 70%

Cost savings

ULTRASOUND ENDOSCOPES

Customised repair offers

- BASIC-Repair
 - Repair or replacement of non-functional parts and rectification of patient-threatening defects
 - 3 6 months warranty on repaired parts, up to 80 % cost savings
- SMART-Repair
 - Repair or replacement of all parts that are at the end of their life cycle
 - 6 months warranty on repaired parts, up to 70 % cost savings
- REFURBISHED by Mides
 - Crystals as well as technically and optically defective components are exchanged with new components
 - 12 months warranty for the whole probe, up to 50 % cost savings

Endoscope-Repair

- Gastroscope, Coloscope as well as Bronchoscope
- brands
 - Olympus
 - Pentax
 - Fujifilm
- Repairing and recognising preventive damage through years of repair experience
- Average repair time: 5 8 working days





Loan endoscopes

During the repair time to continue the work in the hospital

- Large pool of loan endoscopes of the 3 brands
- Requests until 14:00 h will be sent the same day
- Loan scope should arrive until 12:00 h in the hospital
- Loan scopes can be required per email, phone call or via our online analysis tool
 - <u>https://www.mides.com/</u> or
 - https://customer.mides.com/

Detailed incoming inspection

Leakage test with Mides Endo Air System:

• Leakage current test and picture protocoll

Technical function test:

- Video picture
- Ultrasound pictures
- Function switch
- Valve functions

Creation of a comprehensive input test protocol



Cleanroom

For a dust-free and sensible repair of

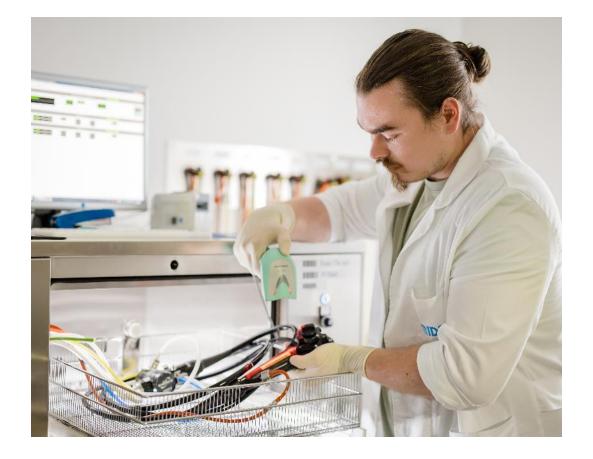
- filigree and optical parts
- Fibre optic bundles
- Fibre optic cover lenses
- Objective lenses



Disinfection

Certified Endowash system for

- Disinfection
- Single channel monitoring
- Creation of an output protocol
- Disinfection by means of aldehyde disinfectant
- Annual microbiological examination by a hygiene institute



Ultrasound Endoscopes

- Coating of radial or convex ultrasonic heads
- Renewal of ultrasonic and supply tubing
- Repair of any leaks
- Adjustment of the bending mechanism incl. BN rubber
- Renewal of all channels:
 - Biopsy channel Balloon channel Air-water channel Suction channel
- Renewing the insertion tube incl. bending section

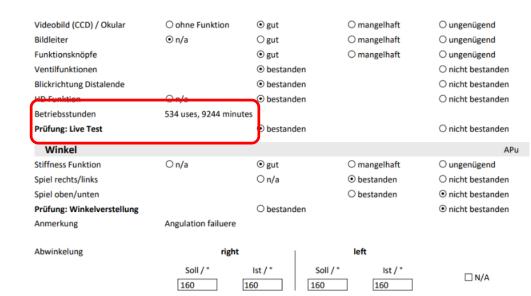


Flexible Endoscopes

- Preparation of the complete distal end:
 - Renewal of the light guide cover lenses and lens rinsing
- Reprocessing of the CCD video unit
- Renewal of the insertion tube incl. bending section
- Repair of any leaks
- Adjustment of the bending mechanism incl. BN rubber
- Renewal of all channels:
 - Biopsy channel, air-water channel, suction channel
- Renewal of the supply hose



Test protocol with indication of the operating hours



Test protocol

OLYMPUS

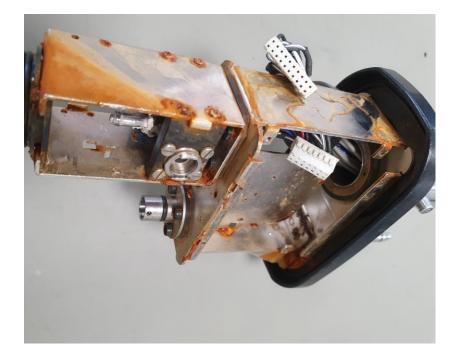
Device data Maint.	data Equip. data	
Maintenance data		
Checkup period	0	
Service contract		
Warranty period		
Warranty period Cumulative uses	534	
	534 9244minutes	

Operating hours

Corrosion damages

Which can be avoided by preventive measures





Control unit under the side cap

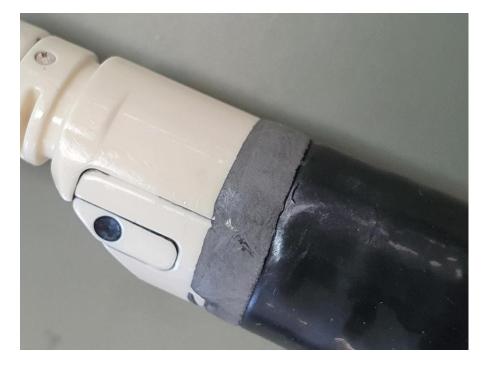
Supply plug

User errors

Which can be solved with a repair



Unsuitable cleaning brush used



Aggressive disinfektion fluid



More pictures of damages which can be repaired



dissambled endoscope

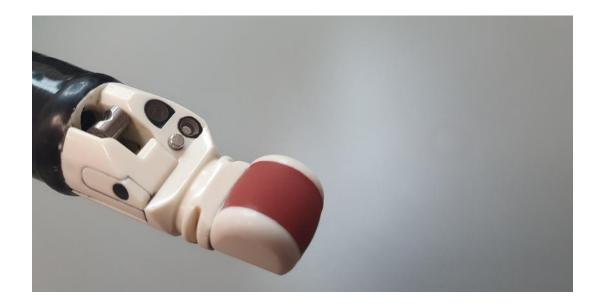


Moisture penetration in the supply plug

Repair

Ultrasound endoscope lamination





BEFORE

Repair

Ultrasound endoscope insertion tube





BEFORE



Repair

Flexible endoscope distal end





BEFORE

Repair

Flexible endoscope angulation section





BEFORE



Thanks a lot for your attention

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