Minitube TCI equipment and supplies

Minitube has been developing innovative technologies for transcervical insemination (TCI) in canines since 2006. Major advancements in equipment and technique, resulting in increased insemination rates have benefited both veterinarians and their breeder clientele. In addition, Minitube supports practitioners in the successful reproduction of dogs through comprehensive training programs and intensive, personal advice.

Benefits of TCI compared to surgical or laparoscopic AI:
- No anaesthesia/sedation necessary (only in very rare cases)
- Easy utilization (after training)
- No side effects
- Less cost intensive

Minitube TCI FlexiLock Endoscopes

The innovative FlexiLock Endoscopes stand out through ergonomic handling and very clear image.

Product specifications
- FlexiLock connection to camera control unit and light source
- Rigid design with dual angled side ports

Minitube TCI FlexiLock Endoscope
- length 15 cm, working channel CH5 (A) REF. : 17505/0201
- length 35 cm, working channel CH8 (B) REF. : 17505/0203
- length 50 cm, working channel CH8 (C) REF. : 17505/0205

Your benefits
- Unique FlexiLock coupling system combines HD camera and LED light into one streamlined hand piece (see next page), providing ergonomic and lightweight operation
- Clearer image, due to significantly more optical fibers than most fiber-optic endoscopes
- Available in three different sizes to easily catheterize small to large canine breeds

www.minitube.com
**FlexiLock camera hand piece for Minitube FlexiLock Endoscopes**

**Product specifications**

- Lightweight and penshaped for ergonomic operation
- One single cable connection from CCU to FlexiLock System
- Integrated LED illumination
- Camera delivers full HD image resolution (1920 x 1080 pixel)
- Progressive scan, 1/3” CMOS
- Used with all Minitube FlexiLock Endoscopes (see page 1)

**FlexiLock hand piece**, full HD camera and integrated LED illumination, for Minitube TCI FlexiLock Endoscopes, requires FlexiVision® HD Camera Control Unit

**A**

**REF.**: 17505/0215

**FlexiVision® HD Camera Control Unit (CCU)**, required for FlexiLock hand piece and FlexiVision® Full HD camera, with digital zoom, USB for full HD photo capturing, to be connected to a monitor

**B**

**REF.**: 17505/0220

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**Traditional TCI Endoscopes**

**Product specifications**

- Optical eye piece
- Dual right-angled side ports
- Require camera head (17505/0210), camera control unit (17505/0220), light source (17505/0225) and monitor

**TCI Endoscope Minitube** **A**

length 42.5 cm, working channel CH 5, removable instrument bridge

**REF.**: 17505/0101

**TCI Endoscope Storz** **B**

length 43 cm, working channel CH 5

**REF.**: 23700/1510

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**Your benefits**

- The ocular is angular to ease handling
- Distal tip is small enough for use with toy breeds
- Rigid but flexible enough for easy navigation to the cervix
### FlexiVision® Full HD camera for traditional TCI Endoscopes

**Product specifications**

- Outstanding performance: native full HD camera with 1920 x 1080 pixel resolution
- Edge enhancement and dynamic contrast function
- No pixel errors due to automatic pixel defect compensation
- MIS-Bus interface for direct light source control via camera head
- Used with all traditional TCI Endoscopes (see page 2)

**Camera head full HD Zoom**, focal length 14.25-28 mm, for traditional TCI Endoscopes, requires FlexiVision® HD Camera Control Unit  

(A) REF. : 17505/0210

**FlexiVision® HD Camera Control Unit (CCU)**, required for FlexiLock hand piece and FlexiVision® Full HD camera, with digital zoom, USB for full HD photo capturing, to be connected to a monitor

(B) REF. : 17505/0220

### FlexiLux LED light source for traditional TCI Endoscopes

**Product specifications**

- Wavelength for every application is predetermined
- Integration or installation in separate light unit or camera unit possible
- No bulbs to exchange — long lifetime (> 20,000 h)
- High luminance with low temperature development
- Light intensity dimmable 5-10%
- Multi-light guide adapter for Storz, Olympus and Wolf
- Illuminated buttons and display

**FlexiLux LED light source**, used with FlexiVision® HD Camera Control Unit and camera head, for traditional TCI Endoscopes

(C) REF. : 17505/0225

**Cable**, DVI to HDMI, 6', connection from CCU (17505/0220) to HDMI ready HD monitor

REF. : 17505/0230

**Fibre optic light guide cable**, Ø 4.8, length 300 cm for traditional TCI Endoscopes

(D) REF. : 17505/0235

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**FlexiVision® camera platform:** flexible, future-oriented and modular in design
**TCI accessories**

**Transcervical catheters**

- Clear markings every centimeter with additional indicators every 5 centimeter
- Supple material reinforced by a removable stylet for easy insertion
- Syringe adapter included
- Single packed

<table>
<thead>
<tr>
<th>TC cannulas with <em>single</em> port (70 cm)</th>
<th>TC cannulas with <em>dual</em> port (70 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye is 0.5 cm from tip to prevent blockage</td>
<td>Additional eye (approx. 2 cm from tip and rotated 60°)</td>
</tr>
<tr>
<td>CH4  REF.: 17500/0004</td>
<td>CH4  REF.: 17500/0024</td>
</tr>
<tr>
<td>CH5  REF.: 17500/0005</td>
<td>CH5  REF.: 17500/0025</td>
</tr>
<tr>
<td>CH6  REF.: 17500/0006</td>
<td>CH6  REF.: 17500/0026</td>
</tr>
<tr>
<td>CH8  REF.: 17500/0008</td>
<td>CH8  REF.: 17500/0028</td>
</tr>
</tbody>
</table>

**TCI shunt system**

The Minitube shunt system for transcervical insemination is a dual purpose endoscopic tool. It eliminates air loss around the endoscope during insufflation by creating an air tight seal. It also acts as a stabilizing platform for the endoscope during the procedure.

**Each set contains:** Shunt stainless steel collar, 1x shunt catheter 55 mm, 1x shunt catheter 105 mm, 5x O-Rings, and syringe

**Shunt system for TCI FlexiLock Endoscopes**

| REF.: 17500/0060 |

**Shunt system for traditional TCI Endoscopes**

| REF.: 17500/0065 |

**Spare parts**

| Shunt catheter 55 mm  | REF.: 17500/0062 |
| Shunt catheter 105 mm  | REF.: 17500/0064 |
| Shunt catheter 150 mm (for scopes >35 cm)  | REF.: 17500/0067 |
| Shunt catheter 250 mm (for scopes >40 cm)  | REF.: 17500/0068 |
| Seal-ring for Shunt FlexiLock Endoscopes  | REF.: 17500/0061 |
| O-ring for Shunt traditional Endoscope  | REF.: 17500/0066 |

**Insufflation pump**

Manual pump with pilot balloon  | REF.: 17505/0010 |