Laparoscopy and Thoracoscopy in Equine Practice
Minimally invasive procedures offer several advantages over traditional abdominal and thoracic surgery in the horse: Reduced morbidity, reduced hospitalization, reduced incidence of infections, faster recovery, improved visualization and/or surgical access, and improvement/development of procedures that could not be achieved with open surgery. Indications for laparoscopy in the horse include visual examination, organ biopsy, acute or chronic cholic, cryptorchidectomy, castration, inguinal hernia, ovariectomy, neoplasia, cystic calculi, nephrectomy, ablation of nephroplenic space, and embryo transfer. Equine thoracoscopy is most commonly indicated in horses with pleuropneumonia or intra-thoracic masses.
Fig. 1: Inguinal hernia
Fig. 2: Cryptorchidectomy
Fig. 3: Cryptorchidectomy
Fig. 4: Hernia repair
Fig. 5: Ovarian pedicle transection
Fig. 6: Biopsy of lung mass
Fig. 7: Retained testicle
Fig. 8: Transection of mesorchium and vas deferens
Laparoscopes

26003 AA  HOPKINS® Straight Forward Telescope 0°, diameter 10 mm, length 31 cm, autoclavable, fiber optic light transmission incorporated, color code: green

26003 BA  HOPKINS® Forward-Oblique Telescope 30°, enlarged view, diameter 10 mm, length 31 cm, autoclavable, fiber optic light transmission incorporated, color code: red

62032 APA  HOPKINS® Straight Forward Telescope 0°, enlarged view, diameter 10 mm, length 57 cm, autoclavable, fiber optic light transmission incorporated, color code: green

62032 BPA  HOPKINS® Forward-Oblique Telescope 30°, enlarged view, diameter 10 mm, length 57 cm, autoclavable, fiber optic light transmission incorporated, color code: red
Trocars

Size 11 mm

62103 MPL  Trocar, size 11 mm
including:
Trocar only, with pyramidal tip
Cannula, working length 20 cm
Multifunctional Valve

62103 MP  Same, working length 10.5 cm

60103 TXR  TERNAIAN ENDOTIP Cannula,
with thread and rotatable insufflation stopcock,
size 11 mm, working length 20 cm,
color code: green
including:
Multifunctional Valve
Seal Set, 60/10
Mandrel, for opening automatic valves

Size 6 mm

62160 MPL  Trocar, size 6 mm
including:
Trocar only, with pyramidal tip
Cannula, length 20 cm
Multifunctional Valve

Reducer

62141 DB  Reducer, 11 mm/5 mm
Operating Instruments, size 10 mm for use with trocars size 11 mm

60531 WSL  CLICKLINE Scissors, rotating, robust, serrated, single action jaws, size 10 mm, length 43 cm including:
- Metal Handle, without ratchet
- Outer Sheath, insulated
- Scissors Insert

60531 SGL  CLICKLINE BABCOCK Grasping Forceps, atraumatic, for large organs, double action jaws, jaw length 70 mm, size 10 mm, length 43 cm including:
- Metal Handle, without ratchet
- Outer Sheath, insulated
- Forceps Insert

60532 FSL  CLICKLINE Claw Forceps, rotating, 2 x 3 teeth, single action jaws, size 10 mm, length 43 cm including:
- Metal Handle, with MANHES style ratchet
- Outer Sheath, insulated
- Forceps Insert

60532 BCL  CLICKLINE BABCOCK Grasping Forceps, atraumatic, double action jaws, size 10 mm, length 43 cm including:
- Metal Handle, with MANHES style ratchet
- Outer Sheath, insulated
- Forceps Insert
Operating Instruments, size 5 mm, for use with trocars size 6 mm or 11 mm with reducer

60421 DB CLICKLINE Dissecting and Biopsy Forceps, rotating, dismantling, insulated, with connector pin for unipolar coagulation, with Luer-Lock irrigation connector for cleaning, single action jaws, size 5 mm, length 43 cm

including:
- Plastic Handle, without ratchet
- Metal Outer Sheath, insulated
- Forceps Insert

62178 T Palpation Probe, with cm-marking, size 5 mm, length 43 cm

62178 P Injection Cannula, Luer-Lock, needle diameter 1.2 mm, size 5 mm, length 43 cm

66083 ET Embryo Transfer Instrument, diameter 5 mm, working length 40 cm
Needle Holders

26178 KPF  KOH Macro Needle Holder, with tungsten carbide insert, ergonomic pistol handle with disengageable ratchet, ratchet position left, jaws straight, size 5 mm, length 43 cm

26178 KPL  Same, jaws curved to left

26178 KPR  Same, jaws curved to right

Knot Tier

26596 C  CROCE Knot Tier, for extracorporeal knotting, size 5 mm, length 55 cm
**CO₂ ENDO-ARTHROFLATOR-VET**

**Special Features:**
- One unit with laparoscopy and arthroscopy mode
- High operating safety
- Continuously adjustable insufflation pressure
- Easy to use
- Fully automatic, electronically controlled gas refill (in case of gas loss when changing instruments)

**62 4325 01**  
**CO₂ ENDO-ARTHROFLATOR-VET,**  
power supply 100-240 VAC, 50/60 Hz  
including:  
*Silicone Tubing Set,* sterilizable  
*Universal Wrench*  
*Gas Filter,* sterile, for single use, package of 10

**Optional Accessories**

**20 4001 43**  
*Silicone Tubing Set,* sterilizable

**03 1122-10**  
*Gas Filter,* sterile, for single use, package of 10

**NOTE:**
The pressure hose and CO₂ bottles must be ordered separately, see catalog:  
*Veterinary Endoscopy, Large Animals*
**IMAGE1 S™ HD Imaging System**

The IMAGE1 S™ HX camera system is a cost-effective video imaging system which delivers brilliant, true color, FULL HD images (1920 x 1080p, 16:9 aspect ratio). Compatible with both rigid and flexible endoscopes, the IMAGE1 S™ modular platform adapts to individual customer needs and can be expanded as requirements change.

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**TH 110**

**IMAGE1 S™ HX One-Chip FULL HD Camera Head**, 50/60 Hz, fixed focus, progressive scan, soakable, gas- and plasma-sterilizable, focal length $f = 16$ mm, 2 freely programmable camera head buttons, for use with IMAGE1 S™

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**TC 200EN**

**IMAGE1 S CONNECT®,** connect module, for use with up to 3 link modules, resolution 1920 x 1080 pixels, with integrated **KARL STORZ-SCB** and digital Image Processing Module, power supply 100-120 VAC/200-240 VAC, 50/60 Hz including:
- **Mains Cord**, length 300 cm
- **DVI-D Connecting Cable**, length 300 cm
- **SCB Connecting Cable**, length 100 cm
- **USB Flash Drive**, 32 GB
- **USB Silicone Keyboard**, with touchpad, US

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**TC 301**

**IMAGE1 S™ X-LINK**, link module, for use with flexible video endoscopes and one-chip camera heads (up to FULL HD), power supply 100-120 VAC/200-240 VAC, 50/60 Hz, for use with IMAGE1 S CONNECT® TC 200EN including:
- **Mains Cord**, length 300 cm
- **Link Cable**, length 20 cm

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* Also available in the following languages: DE, ES, FR, IT, PT, RU
Light Source

Special Features:
• Light intensity on the same level as 300 Watt Xenon light sources
• 30,000 h no lamp exchange necessary
• Constant light output over the complete duration of life

TL 300 Cold Light Fountain Power LED 300,
with integrated KARL STORZ-SCB,
high-performance LED module and
one KARL STORZ light outlet

69 495 NCS Fiber Optic Light Cable,
diameter 4.8 mm, length 250 cm

Check out our schedule of upcoming hands-on training courses at
http://go.karlstorz.com/eventsVET