



Arthroscopy

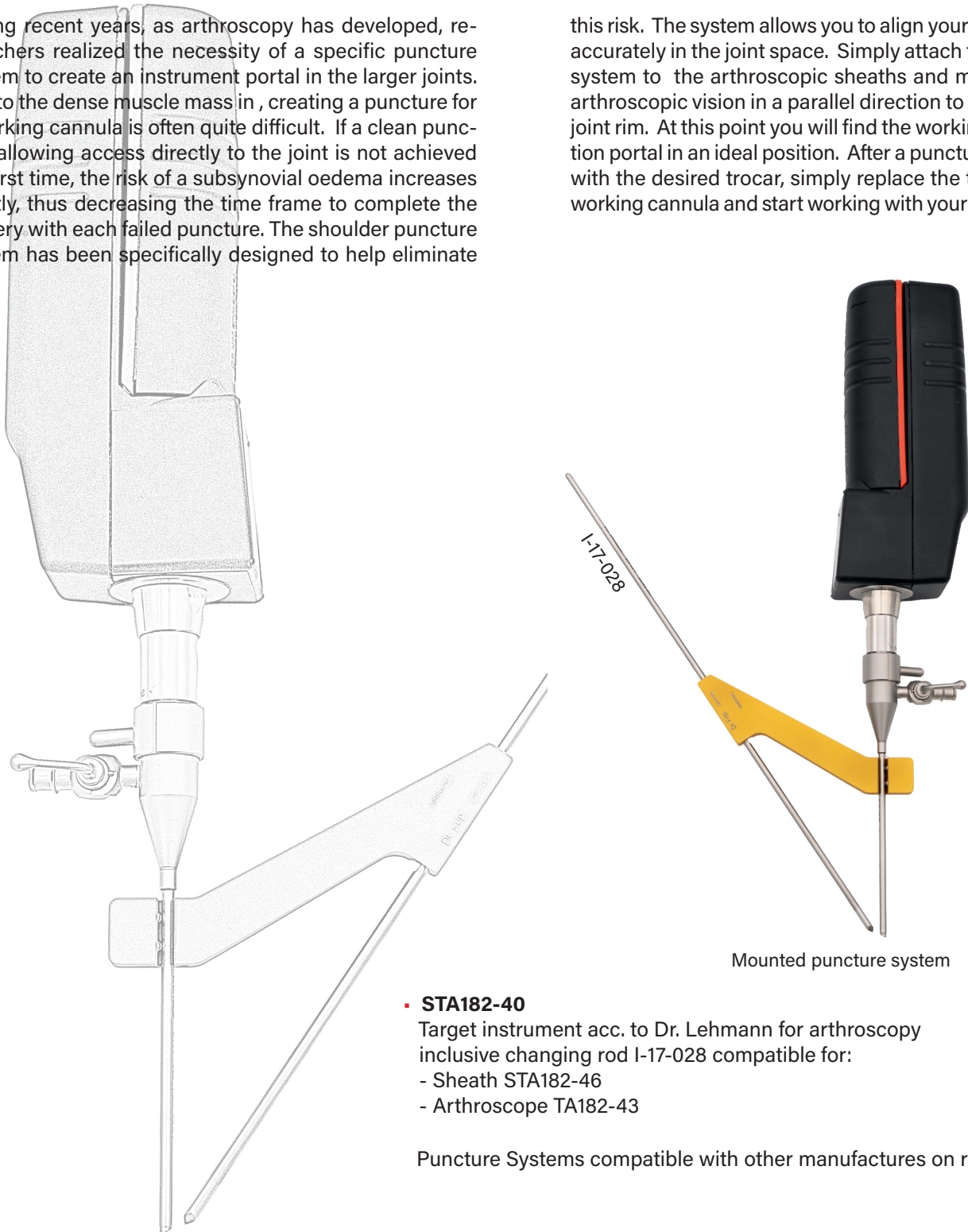
Puncture System acc. to Dr. Lehmann

Innovation in arthroscopy

Developed and tested at the Veterinary Faculty of Vienna, Austria

During recent years, as arthroscopy has developed, researchers realized the necessity of a specific puncture system to create an instrument portal in the larger joints. Due to the dense muscle mass in, creating a puncture for a working cannula is often quite difficult. If a clean puncture allowing access directly to the joint is not achieved the first time, the risk of a subsynovial oedema increases greatly, thus decreasing the time frame to complete the surgery with each failed puncture. The shoulder puncture system has been specifically designed to help eliminate

this risk. The system allows you to align your arthroscope accurately in the joint space. Simply attach the puncture system to the arthroscopic sheaths and maintain your arthroscopic vision in a parallel direction to the shoulder joint rim. At this point you will find the working triangulation portal in an ideal position. After a puncture is created with the desired trocar, simply replace the trocar with a working cannula and start working with your instruments.



Mounted puncture system

▪ STA182-40

Target instrument acc. to Dr. Lehmann for arthroscopy inclusive changing rod I-17-028 compatible for:

- Sheath STA182-46
- Arthroscope TA182-43

Puncture Systems compatible with other manufactures on request.



Arthroscopy

Hand instruments

Dr. Fritz hand instruments are especially designed for large animal arthroscopy

Basic instrument set

- Special design
- Long life span

I-18-520 Hook probe

for arthroscopy, OD: 3mm, WL: 12cm
strong version, heavy handles



I-18-521 Special knife

for arthroscopy, OD: 3mm,
break safe special cut, heavy handles



I-18-601 Curette

straight, strong version, cup oval,
size: 6x4mm



I-18-517 Elevator

extra strong, curved
6mm



I-18-110 Osteotome

straight, 4mm





Arthroscopy

Special hand instruments

- I-18-518 Irrigation cannula with sharp trocar**
stopcock, ID: 3 mm, WL: 7 cm



- I-18-519 Irrigation cannula with sharp trocar**
stopcock, ID: 4 mm, WL: 7 cm



- TR-03-201 Puncture needle, big**
ID: 3 mm, WL: 20 cm
incl. sharp trocar



- I-18-635 Special curette**
straight, strong version,
oval cup: 5,5 mm, 3 mm opening
and LL(f) suction connector, WL: 12 cm



- Extremely durable
- Easy cleaning
- Bypass opening

- I-18-621 Curette, 35°**
oblique left, strong version,
cup oval, size: 6x4 mm



- I-18-622 Curette, 35°**
oblique right, strong version,
cup oval, size: 6x4 mm





Arthroscopy

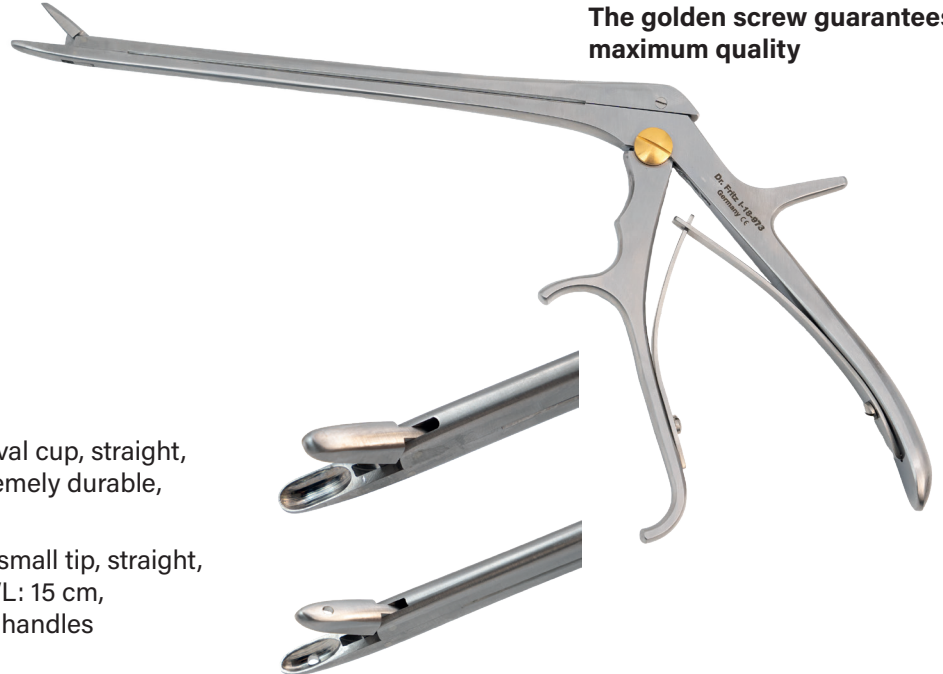
Rongeurs High quality instruments with long life span, extremely durable, especially designed for arthroscopy

Power line, the strong

The golden screw guarantees maximum quality

- Heavy handles
- Extremely durable

- I-18-973** Rongeur "Power line", oval cup, straight, 5x10 mm, WL:15 cm, extremely durable, heavy handles
- I-18-974** Rongeur "Power Linie", small tip, straight, fenestrated, 5 x 10 mm, WL: 15 cm, extremely durable, heavy handles



Instruments for high frequency

Instruments for high frequency

Mono-/Unipolar
HF/RF cutting electrodes, the electric knife

- **HF-200-055**
High frequency connecting cord comp. to arthroscopic cutting electrodes, handles length: 5 m, for units with 4 mm connector



- **HF-200-45**
High frequency cutting electrode for arthroscopy, 45°, fine tip 4 mm connector, 12 cm



- **HF-200-90**
High frequency cutting electrode for arthroscopy, 90°, heavy version 4 mm connector, 12 cm





Arthroscopy

Special hand instruments

- Robust
- Easy cleaning

I-18-536 **Special elevator for the roof joint,**
acc. to Dr. Zöttl, 3mm, WL: 8cm,
strong version



AR-17-19S **Hook knife**
2,7 mm, silicon handle
autoclavable, colour code



I-18-534 **Special elevator for sesamoid fractures**
acc. to Dr. Foerner, 4 mm curved, long



Rongeurs instruments with long life span, extremely durable, especially designed for arthroscopy

■ Standard line, the optimally adapted ones

I-18-662 **Rongeur „standard line“**
cup size: 4x8 mm, oval,
angled upwards, fenestrated
WL: 11 cm

Ideal shape,
angled upwards



I-18-661 **Rongeur „standard line“**
cup size: 4x8 mm, oval, straight,
fenestrated, WL: 11 cm

Jaws tip flat



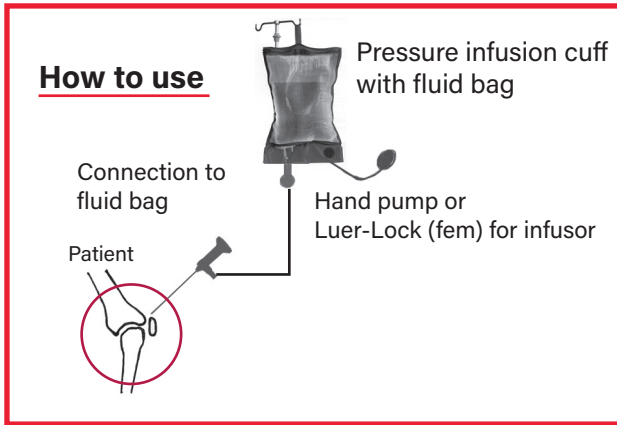


Arthroscopy

Fluid Supply system for arthroscopy

Manual fluid supply system

One of the cheapest options for liquid supply



Pressure Infusion Cuffs



► For high flow fluid supply, please use big infusion tubes

- **AR-08-100N Pressure infusion cuff** for 500-1000ml with manometer and hand pump reusable high quality manufacturing

Roller pump for fluid supply

Large and small animal arthroscopy



- Quick and easy fluid flow
- Simple speed control
- No disposable accessories

- **ARR-20 Roller pump**
Noise level: max. 50 dBA, very low
Pump type: 3-roller peristaltic
Flow parameters: up to 525ml/min.
Pneumatic foot switch
Weight: 4,4kg
Size: 190 x 230 x 330mm

Automatic fluid supply

The innovative infusion solution for horses

The state-of-the-art system can be effortlessly attached to the horse using a girth strap, allowing the animal to remain fully mobile during the infusion. Particularly practical is the use of the pressure infusor both in the stable and in the operating room: it can be used flexibly without an IV stand, providing added flexibility in the operating room as well as on the premises.

- ✓ **Constant fluid delivery**
- ✓ **Energy free**
- ✓ **No maintenance**
- ✓ **No altitude impact**

■ **ARM-10 Mechanical pressure infusor**

Dimensions: 337 mm x 252 mm x 116 mm
Weight: 1,8 kg
Infusion pressure: 100 to 200 mbar (depending on the bag size)
Flow range: 0 bis 8,3 litres/hour (nach ISO 8536-4), 5 litres/hour
Empty rate: 95% bis 100%
Norms: ISO 8536-4 and ISO 28620



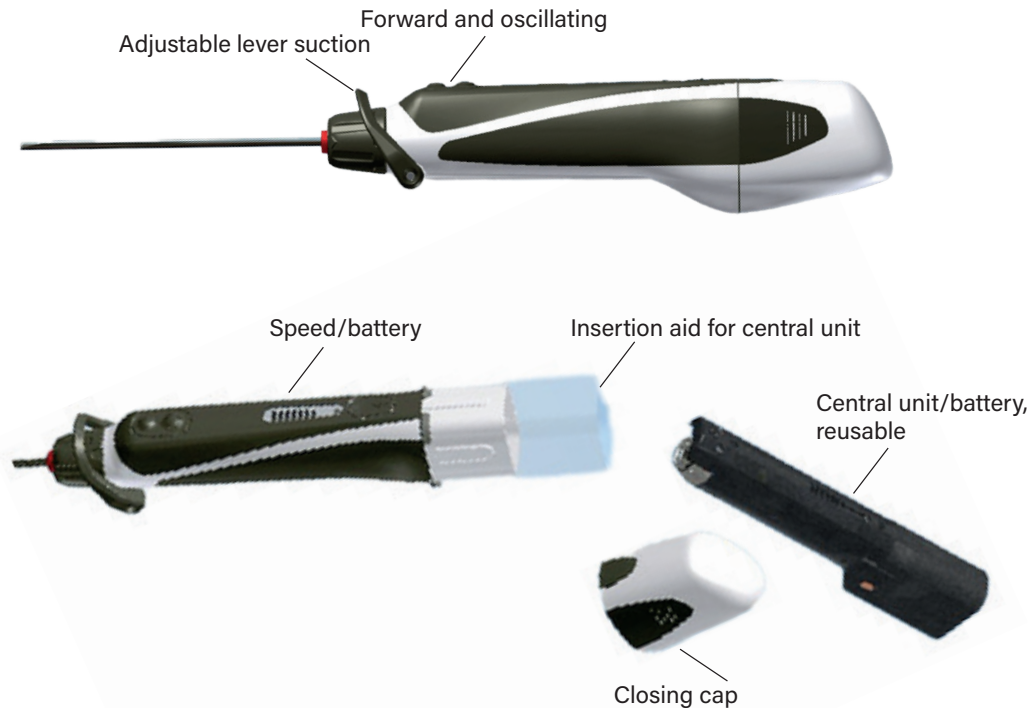
NEW

Equine



Shaver

Cordless single use shaver system for arthroscopy



■ Starter set (SFR-205SET)

Set consistinf of:

- Central unit - motor (SFR-206M)
- Charging station (SFR-205B)
- Burr shaver Ø 4,5mm (SFR-104C)



■ SFR-206M Central unit - motor

The reusable central unit, the heart of the system, is equipped with state-of-the-art electronics and a rechargeable battery. It provides the surgeon with both standard and advanced features: a powerful brushless motor ensures optimal torque for all arthroscopic procedures, while the durable battery supports even the longest surgeries.

- 6000 rpm
- Approx. 40min. runnig time



■ SFR-205B Charging station

The charging station accommodates up to four central units, though the central units (motors) are not included with the charging station. When a central unit is inserted, it is checked by an intelligent control system. A display then indicates the battery's charge status.



NEW

Equine



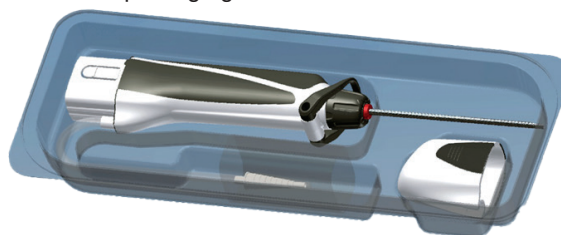
Shaver

Cordless single use shaver system for arthroscopy

■ Disposable shaver

- No preparation or sterilization required
- Ready for immediate use
- Integrated tube connection
- Minimum order quantity: 5 pieces

Sterile packaging



- Aggressive meniscus resection, fast removal of soft tissue during shoulder surgeries.
- Suitable for a combination of soft tissue and bone resection.

Ø	Item No.
3,5mm	SFR-103L
5,0mm	SFR-104L



- Versatile aggressive cutting blade:
Ideal for extensive tissue removal.

Ø	Item No.
2,9mm	SFR-102N
5,0mm	SFR-104N



- Oval Burr:
Fast bone resection.
- Suitable for subacromial decompression.

Ø	Item No.
4,5mm	SFR-104E



- Serrated inner blade and smooth outer blade for effective resection of meniscus, cartilage, and synovium.

Ø	Item No.
3,5mm	SFR-103P



- Ball Burr:
Ideal for notchplasty and osteochondral cleaning.

Ø	Item No.
4,5mm	SFR-104C





Arthroscopy

Accessories

I-18-518



- **I-18-518** Irrigation cannula with sharp trocar stopcock, ID: 2,7 mm, WL: 7 cm, luer connection

AR-10-948



Connection: Fluid bag to arthroscope

- **AR-10-948** Infusion tube, set complete, with needle for sterile bags/bottles, Luer-Lock (m), silicon, 6x2 mm, 3 m, large inner diameter, autoclavable
- **X-7-20-10** Spare infusion tube, silicon, 1 m, size: 6 x 2 mm, color: natural
- **AR-10-9** Spare needle for infusion bottles/bags ID: 4 mm compatible to tubes ID: 3,5-5 mm
- **LLM-1258** Spare Luer-Lock connector male, 10 mm

AR-10-9



Camera covers

- **DE-10-25** Camera covers, disposable, 1pcs. polyethylen, 13x250 cm minimum order 25 pieces



DE-10-25



Cleaning accessories

- **DE-5-17** Cleaning brush for small cannulas with ID: 2-4 mm, WL: 17 cm



- **DE-10-300** Disinfection concentrate IP for rigid and flexible endoscopes. For manual and automated use, 1-3%ige dilution, 5 litres



- **DE-10-425** Soak basin for chemical solution disinfection, consisting of basin (perforated) tray&cover for basin, size: 42x16x9,5 cm





Arthroscopy

Accessories

Video cart

Completely mounted

- ✓ 50cm unit size
- ✓ Camera fixation knob
- ✓ Drawer
- ✓ Ask for additional accessories

WV-54043 **Video cart**, H: 143 cm

size: 62x63 cm, completely mounted, basic version,
color: grey, partly blue,
**drawer inbuilt
**fixation knob for video camera head
**specially rust protected
max. weight: 150kg/330lbs

(Gastroscope bracket, fixation system. devices
and monitor are separate accessory)



WV-54043

WV-53022 **Video cart**
as above but height 110 cm (without pictures)

WV-45111 **Video cart**, H: 112 cm,

size: 54x58cm,
completely mounted, basic version,
drawer inbuilt with handle
max. weight: 50kg/110lbs
max. unit size: 45cm
color: grey, partly blue,



WV-45111

Accessories for Video cart

WV-99619 **Fixation system for infusion bottles**
mounting set

WV-99618G **Gastroscope mount for Dr. Fritz TG series**
inductive charging, with telescope rod

WV-01601 **Fixation system for CO² bottles**
mounting set, comp.to video carts
for 5-10 litre bottles, max OD: 14,5 c

WV-02851 **Fixation system for CO² bottles**
mounting set, comp.to video carts
for big bottles, max OD: 20,5 cm



WV-99618G