

veterinary technology for life

Eickemeyer®

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UFEG®

*External Skeletal Fixation System (ESF)
is a U-shaped steel rail with a built-in
reinforced threaded plate*

Specially
developed for
veterinary
medicine



UFEG® – COMPONENTS

Design of UFEG® and principle of operation

The UFEG® is a U-shaped steel rail with an incorporated threaded reinforced plate. This design fulfills two functions: the connecting rod and the clamping connection of K-wires and STEINMANN nails, which are fixed in place with Allen screws. The hole geometry is also U-shaped. An additional advantage is that pins with different diameters of 1.0 mm – 4.0 mm can be used in the same rail.

The UFEG® tubular system consists of

UFEG® ESF Guide Tubes

- ▶ UFEG® ESF Guide Tube Type 2a, 15 hole, weight: 18 g, L 95 mm, Ø 8 mm
- ▶ UFEG® ESF Guide Tube Type 2b, 15 hole, weight: 25 g, L 125 mm, Ø 8 mm
- ▶ UFEG® ESF Guide Tube Type 3a, 15 hole, weight: 49 g, L 150 mm, Ø 10 mm
- ▶ UFEG® ESF Guide Tube Type 3b, 18 hole, weight: 55 g, L 180 mm, Ø 10 mm

180970 – 180973

Allen Screws

- ▶ Allen Screw for UFEG® Type 2a/2b M4 x 6 mm, including Allen key size 2, 10 pieces
- ▶ Allen Screw for UFEG® Type 3a/3b M6 x 6 mm, including Allen key size 3, 10 pieces

180974 – 180975

UFEG® ESF Joint Fixator Kit for joint immobilisation that can be constructed in any angle

- Complete set consists of
- ▶ 2x Connecting Plates
 - ▶ 5x Inside-Hex-Screws size M

180976

Allen Keys

- ▶ Size 2, for UFEG® Allen Screws Type 2a / 2b
- ▶ Size 3, for UFEG® Allen Screws Type 3a / 3b

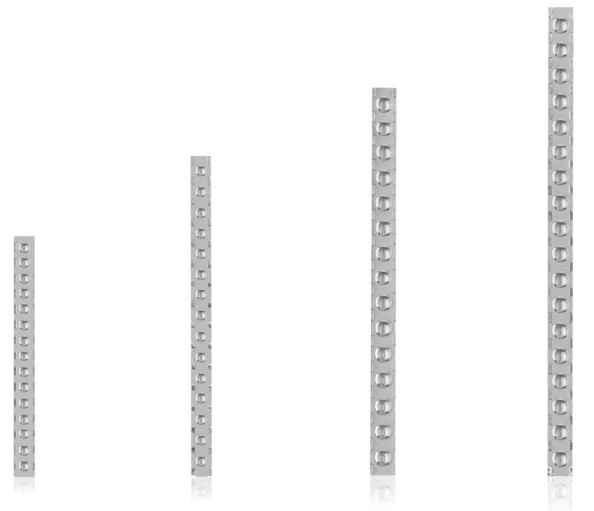
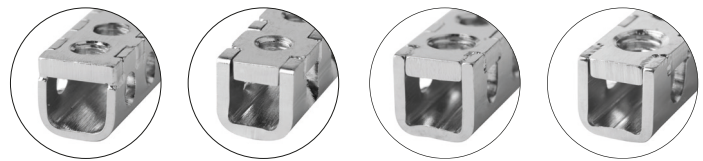
180979, 180978

Matching STEINMANN pins can be used.

STEINMANN Positive Profile Pin

- ▶ End Thread
- ▶ Available in different lengths (75 – 116 mm) and diameters (0.9 – 3.2 mm)

180501, 180502, 180574, 180572, 180503, 180593, 180496, 180493, 180595, 180497

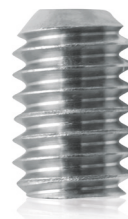


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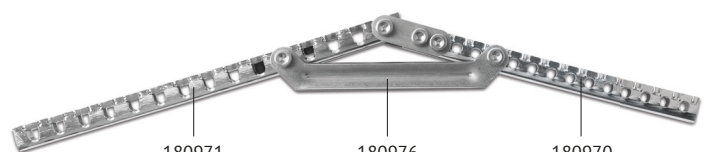
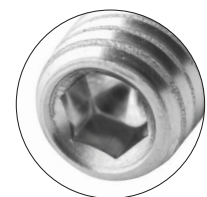
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180970



180496

UFEG® – CHARACTERISTICS

Application

The UFEG® System, like other External Skeletal Fixation Systems (ESF), is a very versatile fixation method that can stabilise a variety of fractures and osteotomies. Indication and application techniques are described in detail within this brochure.

The UFEG® is particularly well-suited for open and infected fractures, severe fractures, and comminuted fractures where several pins need to be used in a confined space. Even simple fractures can be treated quickly and cost-effectively.

In addition, no implants are introduced into the fracture area, promoting flow of the local blood supply and fracture healing.

The UFEG® can be fixed very close to the fracture, either via a closed reduction or with a tissue friendly, minimal access technique. During the healing phase, a dynamisation of the fracture can be made after about 6 weeks. Either the configuration can be changed (for example, Type II to Type I), or individual STEINMANN pins can be gradually removed.

Advantages

- ▶ The UFEG® can be attached very close to the bone
Benefit: Increases the stability of the fracture site
- ▶ The distance of the UFEG® to the fractured bone can be adjusted at any time
Benefit: Increases flexibility in fracture care
- ▶ The U-shaped rail, about 95 mm in length, weighs only 18 g
Benefit: Is very well tolerated by small animals
- ▶ More pins can be placed in a small space
Benefit: More pins increase the stability of the fracture
- ▶ Different thicknesses of nails or pins can be set in the rail
Benefit: Allows flexibility in fracture stabilisation/dynamisation
- ▶ There are no clamps or additional connecting rods needed
Benefit: Simplifies installation and saves time
- ▶ More threads in the threaded plate and grub screw
Benefit: Ensures a stable 3-point fixation of pin and splint
- ▶ It is a reusable system with only a hex wrench as a tool
Benefit: Provides a very cost effective and versatile fixation method
- ▶ The removal of the UFEG® is usually done under slight sedation
Benefit: No additional surgical intervention under anaesthesia

Application

- ▶ Especially for dogs, cats, rabbits and birds



Application

UFEG® – ITEM LIST

UFEG® External Skeletal Fixator		
Item No.	Description	Quantity
180970	UFEG® ESF Guide Tube Type 2a, Ø 8 mm x 95 mm, 15 hole	1
180971	UFEG® ESF Guide Tube Type 2b, Ø 8 mm x 125 mm, 15 hole	1
180972	UFEG® ESF Guide Tube Type 3b, Ø 10 mm x 150 mm, 15 hole	1
180973	UFEG® ESF Guide Tube Type 3b, Ø 10 mm x 180 mm, 18 hole	1
180974	UFEG® Allen Screw for UFEG® ESF Type 2a/2b, M4 x 6 mm including Allen key size 2	10
180975	UFEG® Allen Screw for UFEG® ESF Type 3a/3b, M6 x 6 mm including Allen key size 3	10
180976	UFEG® ESF Joint Fixator Kit for joint immobilisation that can be constructed at any angle. Complete set consisting of: 2x Connecting Plates, 5x Inside-Hex-Screws size M	1
180979	UFEG® Allen Key, size 2, for UFEG® Allen Screws Type 2a / 2b	1
180978	UFEG® Allen Key, size 3, for UFEG® Allen Screws Type 3a / 3b	1

STEINMANN Positive Profile Pins – End Thread		
Item No.	Description	Quantity
180501	STEINMANN Positive Profile Pin, Ø 0.9 x 75 mm, end thread	1
180502	STEINMANN Positive Profile Pin, Ø 1.2 x 75 mm, end thread	1
180574	STEINMANN Positive Profile Pin, Ø 1.2 x 100 mm, end thread	1
180572	STEINMANN Positive Profile Pin, Ø 1.5 x 100 mm, end thread	1
180503	STEINMANN Positive Profile Pin, Ø 1.6 x 75 mm, end thread	1
180593	STEINMANN Positive Profile Pin, Ø 2.0 x 97 mm, end thread	1
180496	STEINMANN Positive Profile Pin, Ø 2.4 x 102 mm, end thread	1
180493	STEINMANN Positive Profile Pin, Ø 2.8 x 110 mm, end thread	1
180595	STEINMANN Positive Profile Pin, Ø 3.0 x 110 mm, end thread	1
180497	STEINMANN Positive Profile Pin, Ø 3.2 x 116 mm, end thread	1

UFEG® – SPECIALIST ARTICLE

Further articles (in German) can be found here:

Clinical applications of the UFEG® U-shaped external fixator with threaded plate



UFEG® U-shaped external fixator with reinforced threaded plate – a new external fixator system



The U-shaped external fixator with threaded plate, for fracture care in small animals, according to Schumacher



UFEG® is a registered trade mark of Dr. M. Schumacher, Kreuzgasse 27, D – 88677 Marktdorf