**Intended purpose:** the Newclip Technics instruments are intended for trauma and orthopaedic surgical use to drill, countersink, punch, ream, measure, insert, remove, impact, cut, distract, reduce, grasp & hold, fix, guide, select, bend, handle, protect, store, transport, target, control, center, connect and rasp.

**Indications:** the knives of the Kemis range are intended to be used in case of nerve, tendons or muscle compression.

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**KEMIS KNIFE RANGE**

The Kemis® knife range currently consists of two different knives. Each of them have been specifically designed to treat a large number of applications

- The Kemis H3
- The Kemis H1

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**ERGONOMICALLY ENHANCED INSTRUMENTS**

- Ergonomic design, upper and lower curves
- End tip designed to protect the blade

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**SURGICAL INFORMATION**

- Small incision (7 to 15 mm for Kemis H3 and 3 to 5 mm for Kemis H1)
- Possibility of visual monitoring by ultrasound.

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**SINGLE USE STERILE KNIVES**

- Ready to use for surgery.
- Sterile to minimize the risks of contamination.
TECHNICAL FEATURES

KEMIS H3

→ APPLICATIONS
Please find below a non-exhaustive list of applications that the Kemis H3 knife can be used to treat:

- Compartment syndrome (upper and lower limb)
- Lacertus fibrosus syndrome
- Spasticity (treatment by tenotomy)
- Lacertus fibrosus syndrome
- Tennis elbow (lateral epicondylitis)
- Carpal tunnel syndrome

(Repetitive applications. This instrument can also be used for other canalar syndromes)

→ TECHNICAL FEATURES

KEMIS H1

→ APPLICATIONS
Please find below a non-exhaustive list of applications that the Kemis H1 knife can be used to treat:

- Trigger finger
- Ulna nerve entrapment
- De Quervain’s tenosynovitis

(Repetitive applications. This instrument can also be used for other canalar syndromes)

→ TECHNICAL FEATURES
**SURGICAL TECHNIQUE**

**KEMIS H3 - CARPAL TUNNEL RELEASE**

Please note that this is one of the applications for the Kemis H3 knife, it can also be used for numerous other applications (see page 3). The technique presented below is one of the surgical techniques possibilities. The choice is made according to surgeon’s preferences.

This surgical technique includes the use of ultrasound, which gives a real-time control of the nerves, tendons and arteries during the whole procedure. This surgery can also be performed without ultrasound.

1. Using ultrasound, visualize: the median nerve (a), the ulnar artery (b) and the palmar arterial arch (c).

2. Position the wrist in an extension position and make an incision at the fold of the wrist by keeping in reference the two lines for the medial (median nerve) and the lateral (ulnar artery) limits. Then, detach the surrounding tissues with scissors or with small forceps.

3. The Kemis H3 knife is applied to the proximal lip of the ligament, continue inserting the knife whilst applying continous pressure until the blade cuts the ligament. During the procedure keep a dynamic control of the movement.

Check if the anterior carpal ligament cut is complete using the ultrasound system and scissors or small forceps.

4. **FINAL RESULT**
KEMIS H1 - TRIGGER FINGER

Please note that this is one of the applications for the Kemis H1 knife, it can also be used for numerous other applications (see page 3). The technique presented below is one of the surgical techniques possibilities. The choice is made according to surgeon’s preferences.

This surgical technique includes the use of ultrasound, which gives a real-time control of the nerves, tendons and arteries during the whole procedure. This surgery can also be performed without ultrasound.

1. Visualize the tendon nodule by using ultrasound. Once the area has been identified, mark it and make a 3 to 5 mm incision.

2. Dynamic control of the nodule by moving the finger.

3. Insert the Kemis H1 in the sheath, proximal to the A1 pulley. The insertion can be controlled under ultrasound.

4. Continue inserting the Kemis H1 whilst applying continuous pressure until the blade cuts through the A1 pulley.

5. Test the release using the ultrasound visualization by moving the finger.

Retrograde technique

Depending on the surgeons habit, the cut can also be performed using a retrograde technique. The surgical techniques follow the same steps as explained previously.
### KEMIS H1

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### KEMIS H3

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This information is intended to demonstrate the Newclip Technics portfolio of medical devices. Always refer to the package insert, product label and/or user instructions before using any Newclip Technics product. These products must be handled and/or implanted by trained and qualified staff who have read the instructions before use. A surgeon must always rely on her or his own professional clinical judgement when deciding whether to use a particular product when treating a particular patient. Product availability is subject to the regulatory or medical practices that govern individual markets. Please contact your Newclip Technics representative if you have questions about the availability of Newclip Technics products in your area.
NEWCLIP TECHNICS
PA de la Lande Saint Martin
45 rue des Garottières
44115 Haute Goulaine, France
+33 (0)2 28 21 23 25
orders@newcliptechnics.com
www.newcliptechnics.com

NEWCLIP TECHNICS GERMANY
Newclip GmbH
Pröllstraße 11
D-86157 Augsburg, Deutschland
+49 (0)821 650 749 40
info@newclipgmbh.com
www.newclipgmbh.de

NEWCLIP TECHNICS USA
Newclip USA
642 Larkfield Center
Santa Rosa CA 95403, USA
+1 707 230 5078
customerservice@newclipusa.com
www.newclipusa.com

NEWCLIP TECHNICS AUSTRALIA
Newclip Australia
3B/11 Donkin Street
West End 4101, Australia
+61 (0)2 81 866 110
solutions@newclipaustralia.com
www.newcliptechnics.com

NEWCLIP TECHNICS JAPAN
Newclip Technologies Japan K.K.
KIK Bldg. 502, 3-18-1 Asakusabashi
Taito-Ku, Tokyo, 111-0053, Japan
+81 (0)3 56 25 49 81
Fax: +81 (0)3 56 25 49 86
www.newcliptechnics.com

NEWCLIP TECHNICS IBERIA
Newclip Iberia
Calle Frederic Mompou 4b,
Sant Just Desvern, 08960, Barcelona, Spain
+34 938 299 526
contact@newclipiberia.com
www.newcliptechnics.com