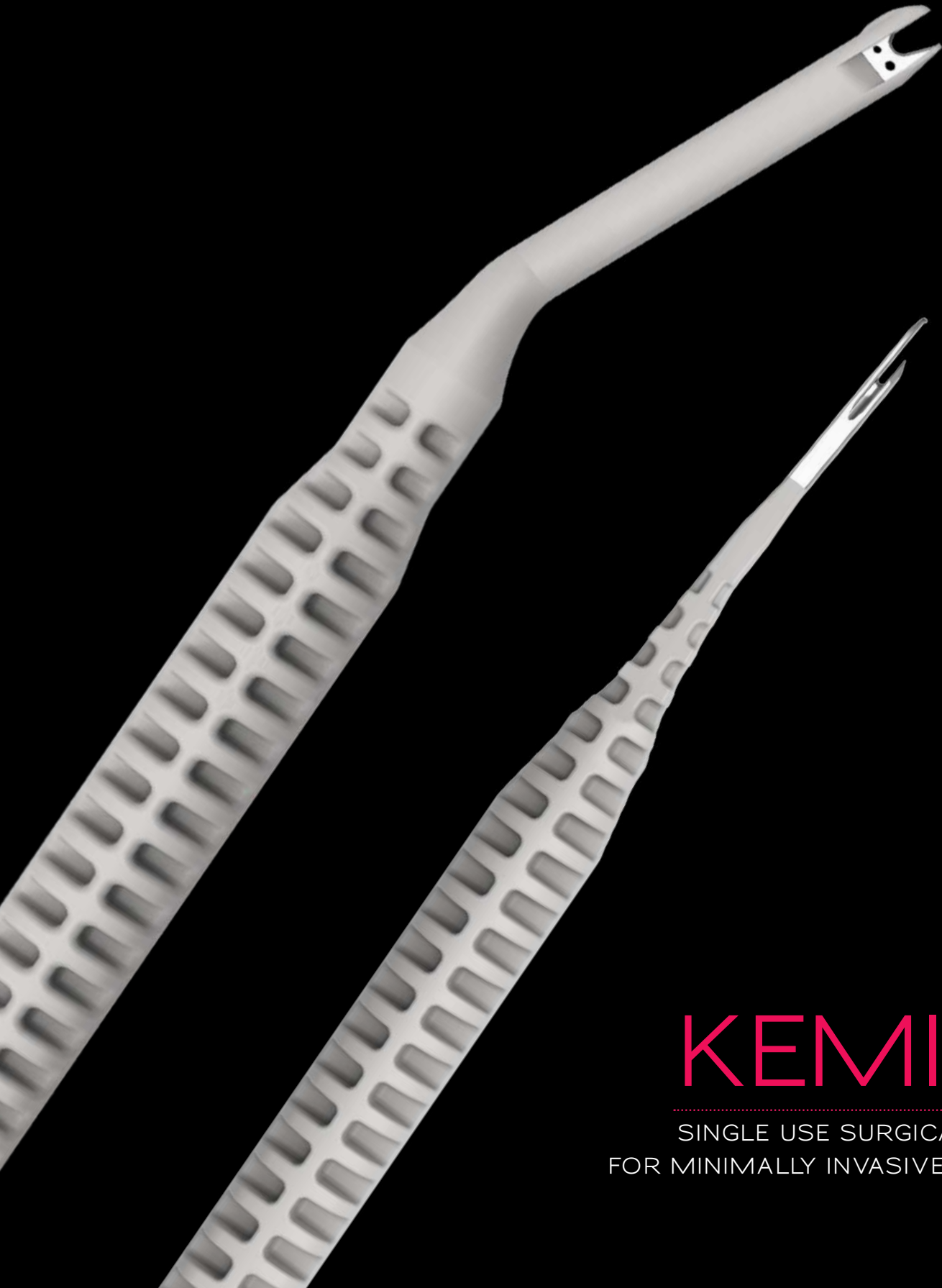




NEWCLIP
TECHNICS



KEMIS®

SINGLE USE SURGICAL KNIVES
FOR MINIMALLY INVASIVE SURGERY

Indication: the knives of the Kemis® range are single-use manual minimally-invasive percutaneous knives, for transient use to cut soft tissues during surgical procedures.

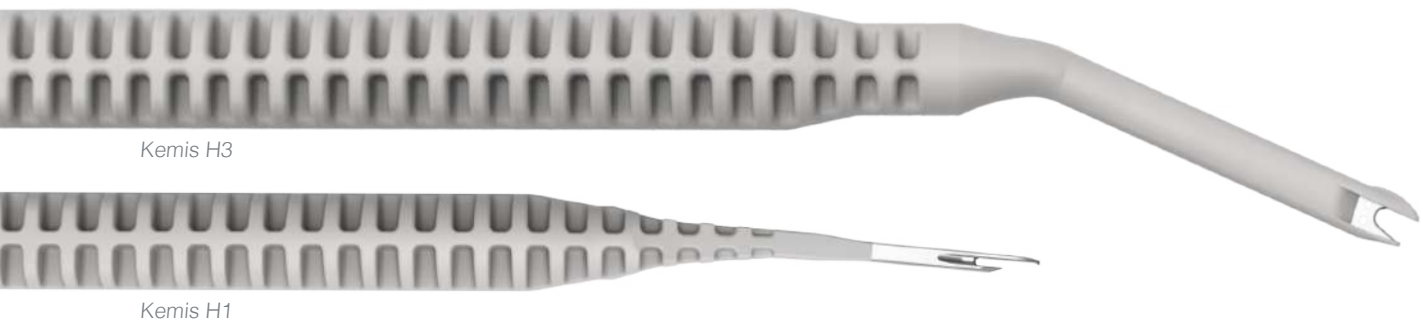
Contraindications:

- Serious vascular deterioration.
- Pregnancy.
- Acute or chronic local or systemic infections.
- Lack of musculo-cutaneous cover, severe vascular deficiency affecting the concerned area.
- Allergy to one of the materials used
- Serious problems of non-compliance, mental or neurological disorders, failure to follow post-operative care recommendations.
- Unstable physical and/or mental condition.

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 whilst preserving the surrounding soft tissues:

- The Kemis H3
- The Kemis H1



ERGONOMICALLY ENHANCED INSTRUMENTS

- Ergonomic design, **upper and lower curves** designed for reducing the risk of injury of the anatomical structures when inserting the knife.
- End tip designed to protect surrounding anatomical structures from the cutting edge of the blade, thus reducing the risks of unintentional injuries.

A MINI-INVASIVE TECHNIQUE

- Small incision (7 to 15 mm for Kemis H3 and 3 to 5 mm for Kemis H1) resulting in smaller scar compared to a surgery performed using a scalpel.
- Possibility of visual monitoring by ultrasound.

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:



Carpal tunnel syndrome



**Tennis elbow
(lateral epicondylitis)**



**Compartment syndrome
(upper and lower limb)**



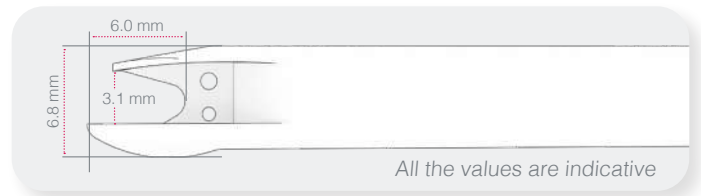
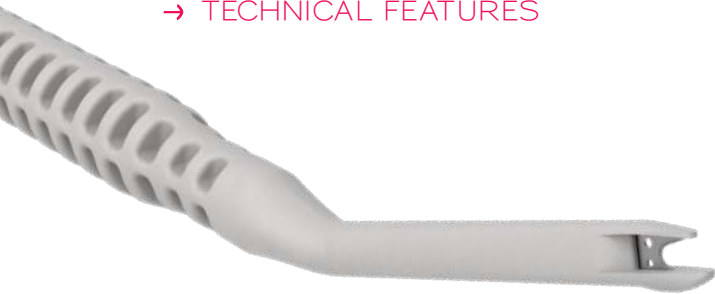
**Lacertus fibrosus
syndrome**



**Spasticity
(treatment by tenotomy)**

(this instrument can also be used for other canalar syndromes)

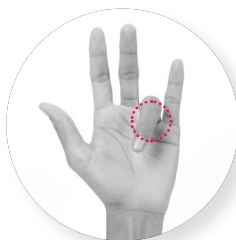
→ TECHNICAL FEATURES



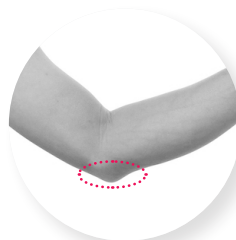
KEMIS H1

→ APPLICATIONS

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



Trigger finger



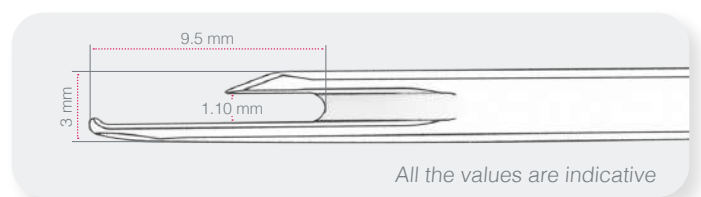
Ulna nerve entrapment



De Quervain's tenosynovitis

(this instrument can also be used for other canalar syndromes)

→ TECHNICAL FEATURES



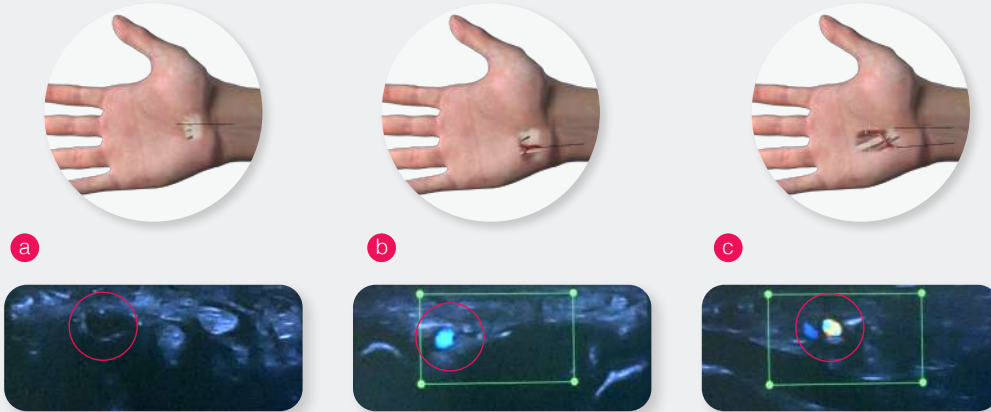
SURGICAL TECHNIQUE

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).

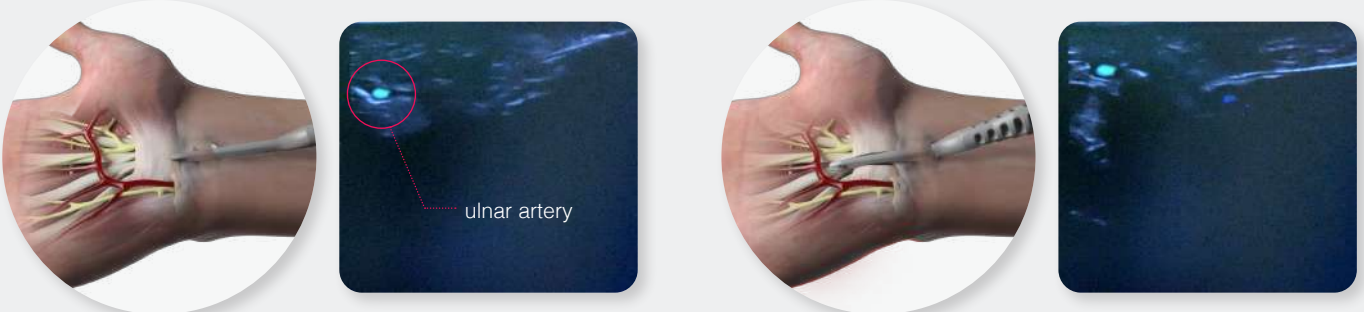
2.



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 continuous 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

SURGICAL TECHNIQUE

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.



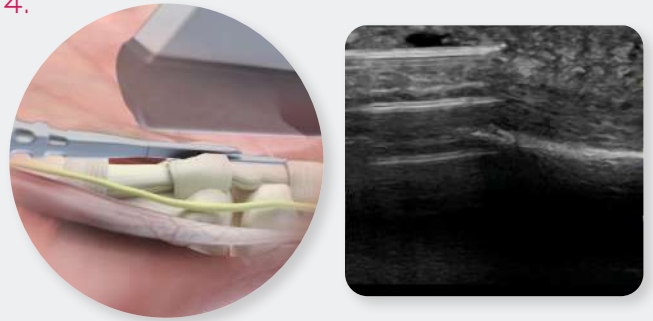
Dynamic control of the nodule by moving the finger.

3.



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

4.



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 surgeon's habit, the cut can also be performed using a retrograde technique. The surgical techniques follow the same steps as explained previously.

REFERENCES

KEMIS H1

Ref.	Description	Qty
ANC1103	KEMIS H1	5



ANC1103

KEMIS H3

Ref.	Description	Qty
ANC209	KEMIS H3	5



ANC209

NOTES

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