

A breakthrough  
in carpal ligament release

 **smith&nephew**  
**ECTRA<sup>°</sup> II**  
Carpal Ligament System



# The superiority of a closed procedure with the advantage of constant visualization

Developed with Dr. James C.Y. Chow, the Smith & Nephew ECTRA® II Carpal Ligament System allows endoscopic access and release of the carpal ligament with complete visualization control.

ECTRA knives permit the surgeon to determine both the direction and depth of cut. The key to this system is ECTRA's slotted cannula. It permits access to the ligament via two portals, which allows cutting from either the distal or proximal end while minimizing endoscopic lens fogging with good airflow. ECTRA II can also be used in the release of the plantar fascia ligament.

## Precision instruments in a convenient, disposable kit

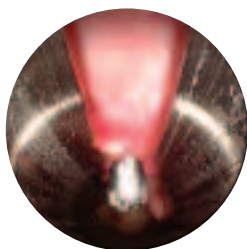
**Probe knife** Patented design permits release of the distal aspect of the ligament while protecting palmar neurovascular structures. This is achieved by the forward cutting action that allows the surgeon to cut proximally. The knife's blunt top and proximal edge allow palpation to dissect synovium and precisely locate the ligament's edge.

**Triangle knife** Allows the controlled upward cut, creating a central opening to insert the retrograde knife. This exacting tool may also be used for follow-up cuts if needed, dissecting one fiber at a time under visualization.

**Retrograde knife** Effectively cuts the ligament without damaging the palmaris brevis. Unique design with polished leading tip and upper curve glides between ligament and muscle while feeding the ligament into the cutting edge of the knife's lower curve.

**Hand pad** Cushions the back of the hand for the patient's comfort.

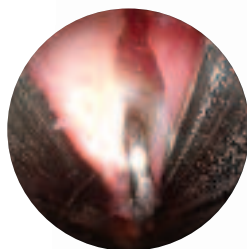
**Swabs** Allow surgeon to eliminate condensation without removing endoscope.



The probe knife is shown inserted through the distal portal, cutting the distal edge of the carpal ligament, distal-to-proximal.



The triangle knife allows a controlled upward cut for incising the midsection of the carpal ligament.



The retrograde knife is shown cutting distally to join the previous two incisions, completing release of the distal carpal ligament.



Probe knife

Triangle knife

Retrograde knife



## ECTRA II System allows endoscopic carpal tunnel access

### Palmar arch suppressor

Serves to depress and protect the palmar arch and receive the obturator tip as it exits the second portal.

### VideoEndoscope

Prevents light guide from interfering with the forearm by providing a light post on the same side as the direction of view. This endoscope is available in an eyepiece or 35 mm video format.

### Slotted cannula

Permits endoscopic surgery via two portals.

### Detachable handle

Attaches to the obturators, each mating perfectly with the slotted cannula for smooth insertion into the carpal tunnel – dissecting, boat nose and conical.

### Dissecting obturator

Aggressively clears the underside of the carpal ligament.

### Boat nose obturator

Provides minimal dissection and easy distal exit.

### Conical obturator

Promotes easy distal exit.

### Hand holder

Maintains hand in proper hyperextended position to open tunnel. Snaps on to tray for convenient system storage.

### Probe

Palpates the transverse carpal ligament.

### Blunt curved dissector

Assists surgeon in identifying/clearing proximal edge of the transverse carpal ligament.

### Regnell retractors (2)

Provide surgeon with control to hold entry portal open prior to cannula placement.

# Ordering Information

## Disposable Procedure Kit

- 4116 ECTRA® II Procedure Kit, single-use, disposable  
Contents: Probe knife, retrograde knife, triangle knife, hand pad, swabs
- 4447 Probe knife (box of 6)
- 4448 Triangle knife (box of 6)
- 4449 Retrograde knife (box of 6)



## ECTRA II System and individual components

- 4143 ECTRA II System (35 mm VideoEndoscope)
- 4143 ECTRA II System (direct view)
- 3896 VideoEndoscope, 35 mm
- 4144 Direct view endoscope
- 4120 Slotted cannula
- 4432 Detachable obturator handle
- 4433 Conical obturator
- 4434 Boat nose obturator
- 4435 Dissecting obturator
- 4101 Blunt dissector, curved
- 4452 Ragnell retractor (2 Included with the system)
- 3856 Probe
- 4283 Palmar arch suppressor
- 4450 Hand holder/sterilization tray with cover
- 4141 Hand strap
- 4453 ECTRA II Obturator Set  
Contents:
  - 4432 Detachable obturator handle
  - 4433 Conical obturator
  - 4434 Boat nose obturator
  - 4435 Dissecting obturator
- 1030040 Illustrated guide to endoscopic release of the carpal ligament
- 4124 Videotape:  
ECTRA II, the Modified Chow Technique



*Endoscopic images provided courtesy of Gregory Hanker, MD*

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978 749 1000  
978 749 1108 Fax  
800 343 5717 U.S. Customer Service

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Printed in USA 08/04 1030034 Rev. F