Upper Extremity Repair Solutions

Complete Solutions for Upper Extremity Surgeons.
How to use this product guide

Smith & Nephew developed this guide to introduce you to our comprehensive range of repair solutions. Products are organized by procedure, with detailed product information in the front of the brochure and ordering information in the back.

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Patient Positioning

**SPIDER2° Limb Positioner**

The SPIDER2 Limb Positioner brings measurable traction and unimpeded access to arthroscopic upper extremity procedures. Its hands-free, multiple-position operation means easy traction and trouble-free positioning.

**Elbow**
- Allows unimpeded access to the elbow joint.
- Enables easy positioning of elbow in extended or flexed position.
- Delivers full control of supination or pronation position with 90° Connector.
- Facilitates ideal positioning for supine elbow arthroscopy or open elbow procedures.

**Wrist**
- Offers unimpeded access to the surgical wrist.
- Delivers measured traction without weights.
- Provides exceptional control of both supination and pronation positioning.
- Facilitates ideal positioning for pinning and fracture work.
**Western Elbow Positioner**

The Western Elbow Positioner provides ideal access, adjustability, and stability for lateral and prone elbow procedures.

- Fits into any Clark Clamp; easy to set up and adjust.
- Double swivel design of vertical bar provides ideal positioning and uncompromised access.
- Tilt and rotation of the Support Pad ensure optimal adjustability, and reduces pressure points on the arm.

**Smith & Nephew Wrist Tower**

The Smith & Nephew Wrist Tower is easy to set up and adjust without using weights to apply distraction. It also provides excellent stability, allowing you to operate with confidence.

**Flexible design**

- Low-profile design ensures excellent C-arm access.
- Includes removable hand plate.
- Offers three sizes of finger traps.
- Allows for ulnar and radial deviation and full rotation of patient’s arm.

**Easy to use**

- Fine traction system eliminates weights.
- Allows intraoperative positioning within the sterile field.

**Convenient**

- Simple to set up, break down, and store.
- Easily sterilized and fully autoclavable.
- Compatible with most OR tables.

**Secure positioning**

- Provides stable distraction, up to 30 lbs.
**Extremities Instrumentation**

The complex structures of the upper extremities demand specialization, which is why Smith & Nephew offers instrumentation designed specifically for these structures and the procedures you routinely perform. The tray offers convenient storage for manual and handheld instruments as well as cannulas, obturators and the MICROVECTOR® Drill Guide System, delivering an all-inclusive solution for wrist and elbow arthroscopy.

- Includes microfracture picks, curettes, osteotomes, elevators and probes.
- Handles are color-coded according to instrument type for quick identification.

*Proprietary Pick Assist* ensures tapping will align force in direction of pick.

**Curved microfracture picks** feature axial-aligned receptacle for Pick Assist

**Curved and straight picks** feature an easy-to-see laser mark at 3 mm

**Handles** are color-coded and labeled for easy identification

* Patent Pending
MICRO VECTOR™ Drill Guide System

The MICRO VECTOR™ Drill Guide System provides a precise path for cannulated drills, fixation pins and screws, and is the only guide wire targeting and insertion system specifically designed for extremity procedures.

- Easy-to-handle system provides the stability required for the precise guide wire insertion and placement necessary for the repair of osteochondral lesions, arthroscopic fracture fixation with cannulated screws, and arthroscopic arthodesis.
- Probe Lever allows easy, one-handed control of probe movement.
- Exclusive offset drill guide facilitates placement of both .045” and .062” K-wires in the precisely-patterned tunnel series needed for arthroscopic arthodesis.
- Tapered, rounded probe tip eases advancement to desired drill site, protects articular surfaces, and enhances arthroscopic visualization for proper positioning.
- Articulating arm ensures constant alignment of distal ends for precise K-wire placement.
- Designed to accommodate both arthroscopic and open techniques.
- Facilitates gross distraction within the sterile field.

Manual Instrument Tray

This stainless steel 'double-decker' tray is designed to store and sterilize Extremities color-coded manual instruments (probes, microfracture Picks, curettes, osteotomes and elevators). Surgeons can customize the contents of the tray to their preference.

- 28 Instrument holders promotes flexibility.
- Two-tier design with a removable tray promotes convenience.
- Small size promotes easy handling.

If an account already has a Manual Instrument Tray, the manual instrument tray can serve as storage for duplicates and backups. This provides the ability to use the set across a broad surgeon base.

The two tier Manual Instrument Tray design is comprised of the removable tray and the base tray. The removable tray can be rested on the wall of the tray with a ‘cleat’ feature at its base, similar to the Extremities Instrument Tray. Since the tray can hold only the Extremities color coded manual instruments, the contents of the tray can be easily identified in the OR.

A fully-loaded Manual Instrument Tray is 14.3” Long x 98” Wide x 4” High and weighs 10.8 lbs. The imprint and weight are smaller than the Extremities Instrument Tray.
Resection

DYONICS® POWERMINI™ Shaver System

The DYONICS POWERMINI Shaver System packs the power and features of a full-size shaver into a compact handpiece that is designed to access the small, tight joints encountered in the extremities. This lightweight shaver allows the freedom of movement required for precise control, plus the power to swiftly resect the toughest tissue and bone.

• Powerful, ergonomically-designed solution.
• Fast resection rates help to remove tough soft tissue, quickly.
• High operating torque helps to remove dense bone such as found in the upper extremity, and protects against sudden stalls.

VULCAN™ RF Arthroscopy System

The VULCAN™ RF Arthroscopy System is designed to help improve procedure efficiency and outcomes, and offers a complete line of extremity radiofrequency probes.

• Autoprobe recognition takes the guesswork out of selecting power settings.
• Temperature control and impedance monitoring capabilities aid in optimizing energy delivery to produce the desired effect.
• Troubleshooting is facilitated with audible alarms and error message displays.
• All probes are bendable, enhancing the ability to access small spaces.
• Offers the Micro ABLATOR™-S Probe – the only extremity probe available today with suction.
• Monopolar design ensures that treatment occurs only to tissue where probe is directly applied.
TOPAZ™ EZ MicroDebrider COBLATION™ Wand with Integrated Finger Switch

Brought to you by the inventors of COBLATION Technology, the TOPAZ EZ MicroDebrider COBLATION Wand with Integrated Finger Switch (Ref. #Q6006-01) enables tendon debridement in the wrist and elbow.¹

One-touch finger control

- Effortless assembly.
- Eliminates the need for the foot control.
- Button design supplies consistent, tactile feedback.
- Designed to work with the QUANTUM 2 Controller System (Ref # 28168 US and Ref # H4500-01 OUS) and QUANTUM Controller System (Ref # H4000-00, only available OUS).

The only minimally invasive radiofrequency-based treatment for tendons and fascia.

- Allows for the application of radiofrequency energy to targeted tissue on tendons and fascia.
- Provides patients with a minimally invasive alternative to surgical debridement.
- Allows use of a minimally invasive technique, requiring only a small incision.
- Slim tip design facilitates access to target tissue.

¹. 501k (K140521).
Soft Tissue Repair

- Fast, easy deployment
- Ergonomically designed solid handle
- Twist-and-release anchor delivery system

Titanium Suture Anchors

Providing strength and stability for reliable fixation.

**TWINFIX® Ti 3.5 mm Suture Anchor**

The TWINFIX Ti 3.5 mm Suture Anchor offers the strength and stability of titanium, and includes an ideally-sized inserter.

- Transitional thread design provides secure fixation with distal cutting threads for easy insertion and proximal locking threads to provide effective pull-out strength, even in poor bone quality.¹
- Elongated distal trocar tip allows anchor to be self-tapping, eliminating the need to predrill in most bone qualities.
- Accompanied by drill and drill guide (sold separately).

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¹ Data on file at Smith & Nephew, ITR-4091, ITR-4039, ITR-3952 [2009], 15001547.
**Non-absorbable PEEK-OPTIMA® Suture Anchors**

Made from radiolucent PEEK-OPTIMA polymer, a biocompatible, non-absorbable stable polymer with high strength and a modulus comparable to cortical bone.

**TWINFIX Ti 2.8 HS Anchor**

Designed for demanding upper extremity procedures, the TWINFIX Ti 2.8 HS Anchor features an easy-to-use delivery system and is preloaded with ULTRABRAID® Suture.

- No predrilling required.
- Made of radiopaque titanium.
- Inserter is preloaded with anchor and (1) size 2-0 ULTRABRAID Suture with tapered needles.

**MINITAC® Ti 2.0 Suture Anchor**

The MINITAC® Ti 2.0 Suture Anchor is a strong, reliable and ergonomic anchor designed for demanding upper extremity procedures.

- Short inserter shaft gets your hands closer to the surgical site.
- Inserter is pre-loaded with anchor and two size 2-0 ULTRABRAID Suture with tapered needles.
- No predrilling required.

**RAPTORMITE® 3.0 PK Suture Anchor**

This easy-to-deploy non-absorbable, biocompatible anchor features a twist-and-release delivery system.

- Preloaded with (2) size 0 ULTRABRAID Sutures and needles.
**SPYROMITE® PK 2.0 Anchor**

This anchor’s screw-in design makes it ideal for soft-bone matrix.

- Inserter offers excellent tactile feel.
- Inserter is preloaded with anchor and (1) size 2-0 ULTRABRAID® Suture with tapered needles.

**DYNOMITE® PK 2.0 Anchor**

The tap-in design of this anchor makes it ideal for hard-bone matrix.

- Fine depth control aids in cortical bone fixation.
- Inserter is preloaded with anchor and (1) size 2-0 ULTRABRAID® Suture with tapered needles.

**Absorbable PLLA Suture Anchor**

Made from radiolucent PLLA (p[ly-l]-lactic acid), a bioabsorbable polymer.

**RAPTORMITE® 3.7 PLLA Suture Anchor**

This easy-to-deploy absorbable, biocompatible anchor features a twist-and-release delivery system.

- Inserter is preloaded with anchor and (2) size 0 ULTRABRAID Sutures and needles.
**TFCC Mender Kit**

The Smith & Nephew TFCC Mender Disposable Suture System is designed for repairing type 1B tears of the triangular fibrocartilage complex under arthroscopic visualization. The TFCC Mender System allows the surgeon to work from the outside of the wrist into the joint, instead of starting sutures inside the capsule and exiting the posterior capsule blindly.

The TFCC Mender System utilizes curved and straight needles and a patented loop. Each Smith & Nephew TFCC Mender Disposable Suture System is packaged sterile.

**TFCC FAST-FIX® Kit**

Current repair techniques that address peripheral TFCC tears can be limited by prolonged recovery time and knot stack intolerance. The TFCC FAST-FIX Kit was specifically developed to offer surgeons an all-inside, knotless repair solution that is fast and easy-to-use and that provides a strong, reproducible and secure repair.1

- No counterincision – minimizes repair and recovery time.
- No knot stack – eliminates irritation which may improve patient satisfaction.

**Disposable Slotted Cannula**

protective blue split cannula designed to minimize trauma to soft tissue during insertion into the joint space

**Knot Pusher/Suture Cutter**

combines two instruments in one, allowing the knot to be advanced to the desired tension and excess suture to be trimmed

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Carpal Tunnel Release System

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 slotted cannula 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 Procedure Kit, single-use, disposable
Contents: Probe knife, retrograde knife, triangle knife, hand pad, swabs
Internal Fixation

D-RAD SMART PACK™ System

Work Smarter. The D-RAD SMART PACK System enables surgeons and supporting staff members to work smarter in the OR and out. The system includes sterile single-use instrument kits and sterile packaged implants to avoid challenges that exist with traditional reprocessed plate and screw systems. The intelligent design improves efficiency in and out of the OR without sacrificing the intraoperative flexibility needed to best treat patients. The system includes a complete selection of locking and non-locking screws and pegs.

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<th>Challenges with reprocessed plate and screw systems</th>
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<td><strong>Resources</strong></td>
<td>Costly and labor-intensive to clean, sterilize, process and shelve</td>
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<td><strong>Downtime</strong></td>
<td>Set availability often dictates surgery schedules</td>
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<tr>
<td><strong>Contamination</strong></td>
<td>Possible breach of sterility due to poor handling and/or reprocessing</td>
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<tr>
<td><strong>Reliability</strong></td>
<td>Sets can arrive in the OR with damaged or missing implants and instruments</td>
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<tr>
<td><strong>Compliance</strong></td>
<td>Part and lot numbers should be recorded for all implanted devices but are often difficult to find or read</td>
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**D-RAD SMART PACK®**

Workflow for reprocessed instruments, plates and screws

1. Instrument, implant and screw collection
2. Transport for reprocessing
3. Manual washing
4. Mechanical washing
5. Inspection
6. Tray assembly
7. Sterilization
8. Transport to storage or OR

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**Packed with smart benefits**

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<th>Benefit</th>
<th>Description</th>
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<tr>
<td>Savings</td>
<td>No material or labor costs to clean, sterilize and reprocess</td>
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<tr>
<td>Efficiency</td>
<td>Ready at a moment’s notice – eliminates set downtime</td>
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<tr>
<td>Safety</td>
<td>Eliminates the risk of contamination as a result of poor handling and reprocessing</td>
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<tr>
<td>Reliability</td>
<td>Always complete with new instruments and implants</td>
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<tr>
<td>Compliance</td>
<td>Chart Stiks® to record part and lot numbers for every implant</td>
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<tr>
<td>Green</td>
<td>All packaging and single-use instrumentation is made from recyclable material</td>
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Gain the upper hand in the OR. The VLP MINI-MOD Small Bone Plating System is a modular mini-fragment system designed to treat small bone fractures and small bone fragments. The system integrates the variable locking technology of VLP Foot System with smaller, pre-contoured Titanium plates.

Specialized instruments

- **Provisional Fixation Wires**
- **Bending Rods**
- **Plate Holders**

Do not stack more than three trays during sterilization.
### Plate Options – 37 pre-contoured titanium plates

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<th>2.0mm Plates</th>
<th>1.5mm Plates</th>
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<td>Y-Plate, 6 Hole</td>
<td>![Image]</td>
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<td>Y-Plate, 8 Hole</td>
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<td>T-Plate, 2 Hole Head, 6 Hole</td>
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<td>T-Plate, 2 Hole Head, 8 Hole</td>
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<td>T-Plate, 3 Hole Head, 6 Hole</td>
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<td>T-Plate, 3 Hole Head, 8 Hole</td>
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<td>Straight Plate, 6 Hole</td>
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<td>Straight Plate, 8 Hole</td>
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<td>Straight Plate, 12 Hole</td>
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<td>Stout Straight Plate, 6 Hole</td>
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<td>Stout Straight Plate, 12 Hole</td>
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### Screw Options – 6mm – 24mm offered in 1mm increments

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<th>2.4mm Screws*</th>
<th>2.0mm Screws**</th>
<th>1.5mm screws***</th>
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<td>Osteopenia Screw</td>
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<td>Locking Screw</td>
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*Up to 80mm lengths  **Up to 40mm lengths   ***Up to 24mm lengths
PERI-LOC™ Periarticular Locked Plating System

The PERI-LOC™ Periarticular Locked Plating System offers the advantages of locked plating with the flexibility and benefits of traditional plating in one system. Offering both locking and non-locking screw options, the PERI-LOC system can provide a construct that resists angular (e.g. varus, valus, torsional and axial) collapse while simultaneously acting as an effective aid to fracture reduction.

**Optimal plate contours.** The plate contours in the PERI-LOC™ system were determined by studying a large collection of cadaveric specimens at the Cleveland Museum of Natural History. Recon segments were added to plates that are specific to highly variable anatomic structures to assist with additional contouring. In addition to the anatomical plates below, the system also provides a number of utility plating options.

### Clavicle Plates

- 3.5mm Superior Distal Clavicle Locking Plates
- 3.5mm Inferior Medial Clavicle Locking Plates
- 3.5mm Superior Medial Clavicle Locking Plates
- 2.7mm/3.5mm Inferior Distal Clavicle Locking Plates

### Proximal Humerus Locking Plate

- 3.5mm Proximal Humerus Locking Plates
Distal Humerus Locking Plates

2.7mm/3.5mm Medial Distal Humerus Locking Plates
2.7mm/3.5mm Lateral Distal Humerus Locking Plates
2.7mm/3.5mm Posterolateral Distal Humerus Locking Plates

Olecranon Plates

2.7mm/3.5mm Olecranon Locking Plates

Cannulated Screw System

Sizes include:
- 2.0 mm QFX* screw*
- 2.5 mm
- 3.0 mm
- 4.0 mm
- 5.5 mm
- 6.5 mm
- 7.0 mm
- 8.0 mm

*Not Cannulated
JET-X® MINI Bar External Fixator System

The JET-X MINI Bar External Fixator System offers a simple solution for treatment of distal radial fractures. Designed for ease of application, the JET-X MINI Double Pin Clamp facilitates fracture reduction while providing stability in a low-profile and lightweight design. The ball joint feature provides the ability to easily position the wrist in multiple planes to aid in fracture reduction.
For detailed product information, including indications for use, contraindications, effects, precautions and warnings, and sterilization instructions, please consult the product’s Instruction for Use (IFU) prior to use.

All products listed in this catalog are manufactured by Smith & Nephew, Inc., with the exception of the TOPAZ™ EZ MicroDebrider COBLATION® Wand with Integrated Finger Switch, which is manufactured by ArthroCare Corporation, 7000 West William Cannon Drive, Austin, TX 78735 USA.

If you would like to be among the first to hear about related product launches and education events from Smith & Nephew, simply send an email to GetTheUpperHand@smith-nephew.com or scan the QR code and you will be added to our distribution list.

Supporting healthcare professionals for over 150 years