

Item Catalogue

NUPCO CODE: 4229660303600 | SN: 597

NUPCO ITEM DESCRIPTION

SET, COMPLETE INSTRUMENTATION FOR DISTAL HUMERAL VARIABLE ANGLE PLATING WITH NECESSARY CASE AND IMPLANT TRAY

VENDOR PRODUCT DESCRIPTION

Elbow Plating System instruments

SKU CODES INCLUDED FOR THIS NUPCO CODE

80-1007
80-0654
80-0668
80-0622
80-0621
PL-2095
PL-2196
80-0628
80-0623
80-0675
80-0663
80-0760
80-0759
80-0318
80-0627
80-0387
MS-DC35
MS-45300
PL-CL04
80-0676
80-2164
PL-28CLAMP
PL-CLAMP
80-0624
PL-2045
WS-2009ST
WS-1607ST
WS-1106ST
WT-1606STT
WT-0906STT
MS-1280

Olecranon Plate Surgical Technique [continued]



Figure 3

3 Nonlocking Distal Screw Placement

With provisional reduction confirmed, drill with the 2.8 mm Quick Release Drill (80-0387) through a slotted hole, distal to the fracture site and into the ulnar shaft. Use the Depth Gauge 6–65 mm (80-0623) to measure for screw length. Connect the T15 Stick Fit Hexalobe Driver (80-0760) to the Medium Ratcheting Driver Handle (80-0663) and insert the appropriate 3.5 mm Nonlocking Hexalobe Screw (30-02XX) or 3.5 mm Nonlocking Hexalobe CoCr Screw (3063-350XX). Tighten the screw partially to allow for later compression. A 3.5 mm Cortical Screw Bone Tap (MS-LTT35) is available for patients with dense bone.

Note: When implanting the Narrow 5-Hole Olecranon Plates (70-0316 or 70-0317), only the 2.7 mm locking and nonlocking hexalobe screws and associated instrumentation may be used throughout all plate holes.

Note: 3.0 mm or 3.5 mm Nonlocking Hexalobe Screws (30-03XX or 30-02XX) or 3.5 mm Nonlocking Hexalobe CoCr Screws (3063-350XX) can be used in the shaft of the plate.

Screw Diameter	Drill Diameter
2.7 mm	2.0 mm
3.0 mm	2.3 mm
3.5 mm	2.8 mm



Figure 4

4 Proximal Locking Screw Placement

To insert two 2.7 mm Locking Hexalobe Screws (30-03XX) or 2.7 mm Locking Hexalobe CoCr Screws (3060-270XX) into the proximal holes on either side of the 2.0 mm wire, begin by threading the 2.0 mm Locking Drill Guide 4–32 mm (80-0621) through the proximal targeting guide and into the most proximal locking holes. While drilling with the 2.0 mm Quick Release Drill (80-0318), be sure not to exit the bone. Drill depth may be read directly off the laser line on the drill through the locking drill guide or with the 2.0 mm Depth Probe (80-0643). To insert the appropriate 2.7 mm locking hexalobe screw, connect the T8 Stick Fit Hexalobe Driver (80-0759) to the Medium Ratcheting Driver Handle (80-0663).

Note: When using the T8 driver, care should be taken not to overtighten the screw or apply more torque than necessary to seat the locking screw into the plate. Screws should be tightened by hand and not under power.

Olecranon Plate Surgical Technique [continued]

Figure 5



5 Fracture Site Compression

If the selected plate length has two or more compression slots, the fracture site is compressed in the following manner. Insert a 3.5 mm Nonlocking Hexalobe Screw (30-02XX) or 3.5 mm Nonlocking Hexalobe CoCr Screw (3063-350XX) in dynamic compression mode into a distal slot along the ulnar shaft using the Offset Drill Guide (PL-2095). The proximal shaft screw must be slightly loosened to allow for compression. If a longer plate is used and further compression is required, partially insert another nonlocking screw into a distal slot in dynamic compression mode and then loosen the first two screws to allow for plate movement.

Figure 6



6 Final Screw Placement

Remove the 2.0 mm K-wire from the most proximal plate hole. Thread the 2.8 mm Hexalobe Locking Drill Guide 6–65 mm (80-0668) into that hole and use the 2.8 mm Quick Release Drill (80-0387) in the path of the wire. Measure for screw length with the Depth Gauge 6–65 mm (80-0623) and insert the appropriately sized 3.5 mm Locking Hexalobe Screw (30-02XX) or 3.5 mm Locking Hexalobe CoCr Screw (3062-350XX).

If a 3.0 mm Locking Hexalobe Screw (30-02XX) is desired, the 2.3 mm Hexalobe Locking Drill Guide 6–65 mm (80-0622) and 2.3 mm Quick Release Drill (80-0627) are utilized. The remaining locking screws are then inserted at the surgeon's discretion.

Distal Humerus Plates Surgical Technique [continued]

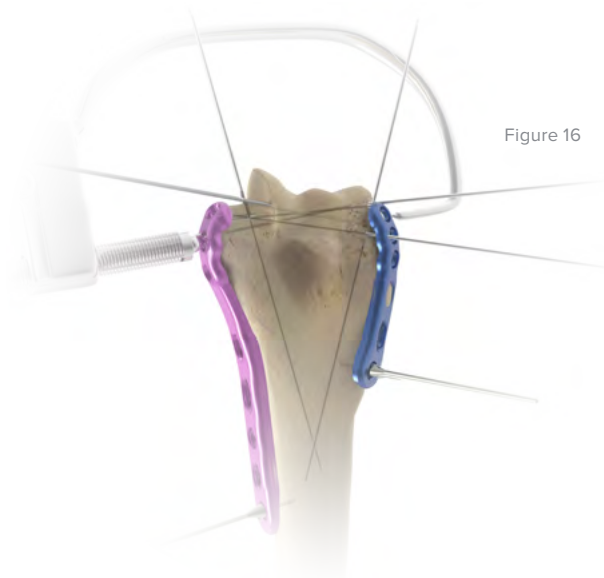


Figure 16

2 Plate Placement and Provisional Fixation

The selected Medial and Lateral Distal Humerus Plates (PL-LEMXX and PL-LELXXX) are placed and held apposed to the distal humerus, while one 2.0 mm x 9" ST Guide Wire (WS-2009ST) is inserted through hole #2 (numbered from distal to proximal) of each plate through the epicondyles and across the distal fragments to maintain provisional fixation. These 2.0 mm wires are left in place until Step 7 to aid in placing the locking screws in the distal fragments.

Note: The Medial and Lateral Distal Humerus Plates are designed to accept 3.0 mm and 3.5 mm hexalobe screws. If using 3.0 mm screws, use the 2.3 mm Quick Release Drill (80-0627) and the 2.3 mm Locking Drill Guide, 6–65 mm (80-0622). If using 3.5 mm screws, use the 2.8 mm Quick Release Drill (80-0387) and the 2.8 mm Hexalobe Locking Drill Guide, 6–65 mm (80-0668).

Note: The 2.7 mm hexalobe screws have a smaller head diameter and should NOT be used with the Medial and Lateral Distal Humerus Plates.

Note: The Medial Plates are not left and right specific and are all fuchsia in color. The Lateral Plates are green for use on a right arm and blue for use on a left arm.

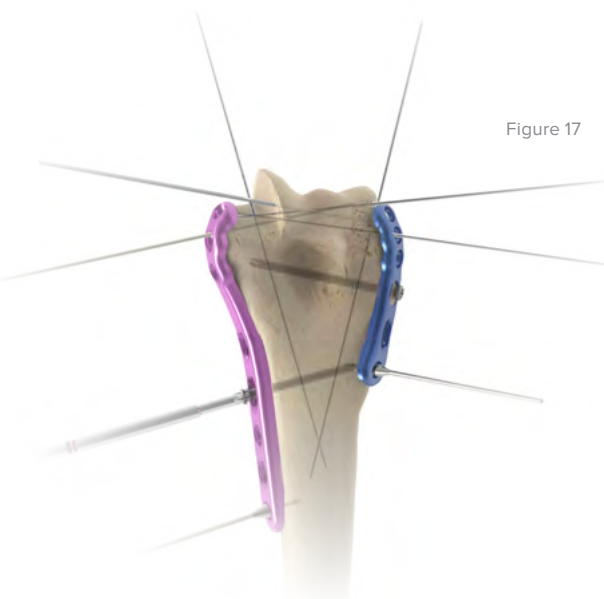


Figure 17

3 Initial Proximal Screw Placement

With provisional reduction confirmed, drill through a proximal slotted hole along the shaft of the plate with the 2.8 mm Quick Release Drill (80-0387) and measure for depth with the Depth Gauge 6–65 mm (80-0623). Connect the T15 Stick Fit Hexalobe Driver (80-0760) to the Medium Ratcheting Driver Handle (80-0663) and insert the appropriate length of 3.5 mm Nonlocking Hexalobe Screw (30-02XX) or 3.5 mm Nonlocking Hexalobe CoCr Screw (3063-350XX). Tighten the screw partially, allowing some freedom for the plate to move proximally during compression in later steps.

The undersurface of each plate is tubular in the metaphyseal and diaphyseal regions, so the screw in the slotted hole only needs to be tightened slightly to provide provisional fixation of the entire distal humerus.

Note: The 3.5 mm Cortical Screw Bone Tap (MS-LTT35) is available for patients with dense bone.

Posterolateral Plate Surgical Technique

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Figure 26



Figure 27



Figure 28



Figure 29

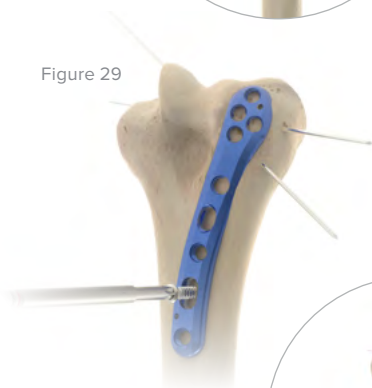


Figure 30



1 Articular Fragment Reduction

Following exposure, the articular fragments are reduced anatomically and provisionally held using .045" x 6" ST Guide Wires (WS-1106ST), functioning as K-wires. The Bone Reduction Forceps, 5.25 (MS-45300) and the 8" Bone Reduction Forceps (MS-1280) are provided in the system to aid in fracture reduction.

Note: Place the wires holding the articular fragments close to the subchondral level to avoid interference with later screw placement, and away from where the plates will be placed on the posterolateral column.

2 Plate Placement and Provisional Fixation

Apply the selected Posterolateral Plate (70-03XX) to the bone. K-wire holes are included on the plate for provisional fixation and accept .062" x 6" Guide Wires (WS-1607ST). Plate Tacks (PL-PTACK) may also be used through the plate holes to aid in provisional fixation.

Note: Plates designed for use on the left arm are blue. Plates designed for use on the right arm are green.

3 Initial Proximal Screw Placement

With provisional reduction confirmed, drill with the 2.8 mm Quick Release Drill (80-0387), measure depth with the Depth Gauge 6–65 mm (80-0623), and insert a 3.5 mm Nonlocking Hexalobe Screw (30-02XX) or 3.5 mm Nonlocking Hexalobe CoCr Screw (3063-350XX) through the slotted hole that is located proximally on the plate. Connect the T15 Stick Fit Hexalobe Driver (80-0760) to the Medium Ratcheting Driver Handle (80-0663) and insert the screw.

Note: Bone taps are provided and recommended for patients with dense bone.

Note: If a 3.0 mm Nonlocking Hexalobe Screw (30-03XX) is preferred, use the 2.3 mm Quick Release Drill (80-0627).

Screw Diameter	Drill Diameter
2.7 mm	2.0 mm
3.0 mm	2.3 mm
3.5 mm	2.8 mm

Posterolateral Plate Surgical Technique [continued]

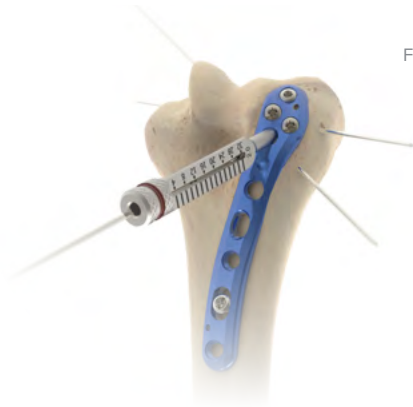


Figure 31



Figure 32

4 Distal Screw Fixation and Supracondylar Compression

The three most distal locking screws are inserted first by threading the 2.0 mm Hexalobe Locking Drill Guide 4–32 mm (80-0621) into one of the three most distal plate holes. Select the 2.0 mm Quick Release Drill (80-0318) and drill to the desired depth through the 2.0 mm locking drill guide. Drill depth may be read directly off the laser band on the drill or with a 2.0 mm Depth Probe (80-0643). The most-proximal of the four distal screws may be inserted for additional fixation of the distal fragments (shown in the illustration).

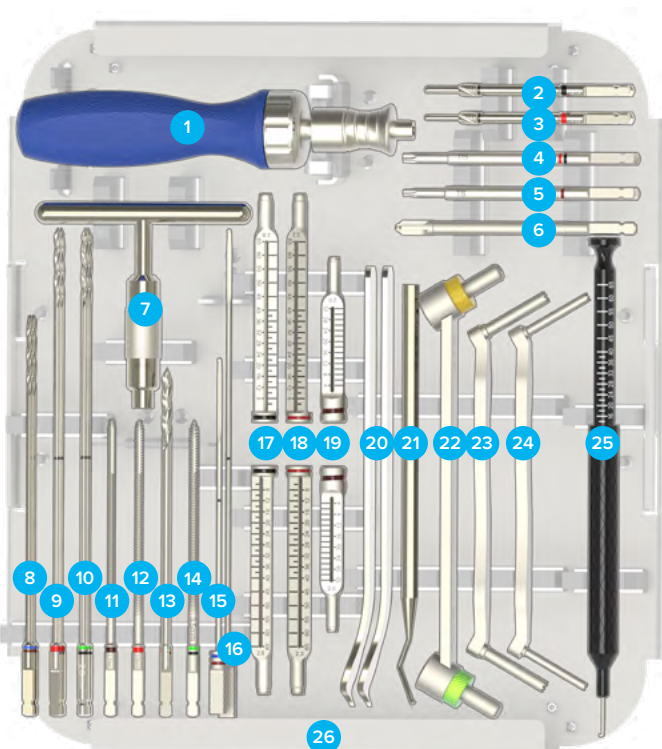
Connect the T8 Stick Fit Hexalobe Driver (80-0759) to the Medium Ratcheting Driver Handle (80-0663) and insert a 2.7 mm Locking Hexalobe Screw (30-03XX) or 2.7 mm Locking Hexalobe CoCr Screw (3060-270XX) until it is fully seated in the plate. Repeat this step for the remaining distal screws.

Note: Care should be taken not to overtighten the locking screws.

To achieve supracondylar compression, the screw in the slotted hole should be loosened and the fracture compressed at the supracondylar level.

Note: To assist in threading the 2.0 mm Locking Drill Guide into the distal locking holes, an optional Posterolateral Distal Humerus Targeting Guide is an available optional part. Choose the Posterolateral Distal Humerus Targeting Guide Left (80-2143) for a left plate or the Posterolateral Distal Humerus Targeting Guide Right (80-2144) for a right plate. Place the appropriate guide over the distal locking holes and secure in place with the Targeting Guide Locking Bolt: 10-32 (80-2164). The locking bolt is designed to be inserted through the locking bolt hole on the guide, which is the most proximal hole.

Ordering Information [continued]



Tray Components

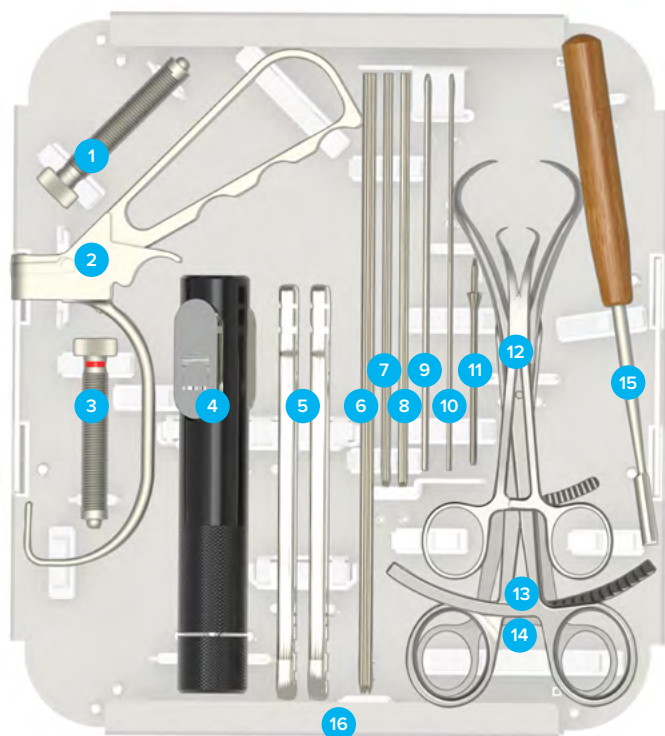
Instrumentation

1	Medium Ratcheting Driver Handle	80-0663
2	Plate Tap for 3.5 mm Screw	80-0661
3	Plate Tap for 3.0 mm Screw	80-0659
4	T15 Stick Fit Hexalobe Driver	80-0760
5	T8 Stick Fit Hexalobe Driver	80-0759
6	CO/CA Countersink	PL-2080
7	Quick Release T-Handle	MS-T1212
8	2.0 mm Quick Release Drill	80-0318
9	2.3 mm Quick Release Drill	80-0627
10	2.8 mm Quick Release Drill	80-0387
11	Bone Tap for 2.7 mm Hexalobe Screws	80-0625
12	Bone Tap for 3.0 mm Nonlocking Screws	80-0626
13	3.5 mm x 5" Quick Release Drill	MS-DC35

Tray Components

14	3.5 mm Cortical Screw Bone Tap	MS-LTT35
15	2.0 mm Depth Probe	80-0643
16	2.3 mm Depth Probe	80-0664
17	2.8 mm Hexalobe Locking Drill Guide 6–65 mm	80-0668
18	2.3 mm Locking Drill Guide 6-65 mm	80-0622
19	2.0 mm Hexalobe Locking Drill Guide 4–32 mm	80-0621
20	15 mm Hohman Retractor	MS-46827
21	Sharp Hook	PL-CL06
22	Offset Drill Guide	PL-2095
23	2.8 mm/3.5 mm Thin Drill Guide	PL-2196
24	2.0 mm/2.3 mm Narrow Drill Guide	80-0628
25	Depth Gauge 6–65 mm	80-0623
26	Hexalobe Screw Instrument Platter	80-0675

Ordering Information [continued]



Tray Components

Instrumentation

1	2.8 mm Drill Guide Cannula	PL-28CLAMP
2	Targeted Drill Guide	PL-CLAMP
3	2.3 mm Drill Guide Cannula	80-0624
4	Plate Holder Assembly	PL-2030
5	Plate Bender, Large	PL-2045
6	2.0 mm x 9" ST Guide Wire*	WS-2009ST
7	.062" x 6" Guide Wire*	WS-1607ST
8	.045" x 6" ST Guide Wire*	WS-1106ST
9	.062 x 5.75 STT Guide Wire, Titanium	WT-1606STT
10	.035 x 5.75 STT Guide Wire, Titanium	WT-0906STT
11	Plate Tack	PL-PTACK
12	8" Bone Reduction Forceps	MS-1280

*Also used as a K-wire

Tray Components

13	Bone Reduction Forceps, 5.25	MS-45300
14	Reduction Forceps With Serrated Jaw	PL-CL04
15	Periosteal Elevator	MS-46212
16	Elbow System Plate Instrument Platter	80-0676

Additional Components

2.0 mm Quick Release Drill	80-0318
Targeting Guide Locking Bolt: 10-32	80-2164

Sterile Parts

Osteotomy Saw Blade Hub Style L*	ZMS-3514
Osteotomy Saw Blade Hub Style S*	SM-3514
Osteotomy Saw Blade Hub Style DS*	SS-3514

*Not available in all markets.