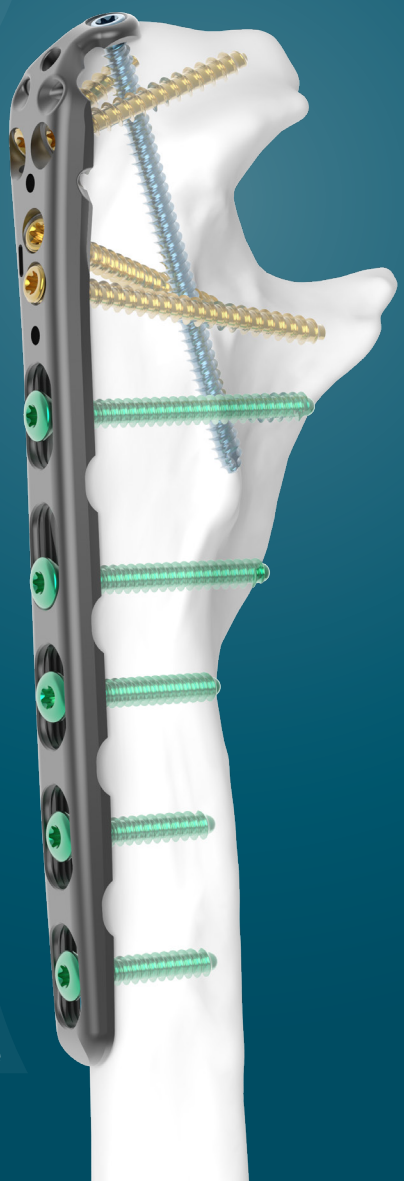
skeletal dynamics®
UNDERSTANDING THE UPPER EXTREMITY

SURGICAL TECHNIQUE GUIDE

PROXIMAL ULNA PLATE

with FREEFIX®



As described by:
Jorge L. Orbay, M.D.
Miami Hand & Upper Extremity Institute

PROXIMAL ULNA PLATE

Description

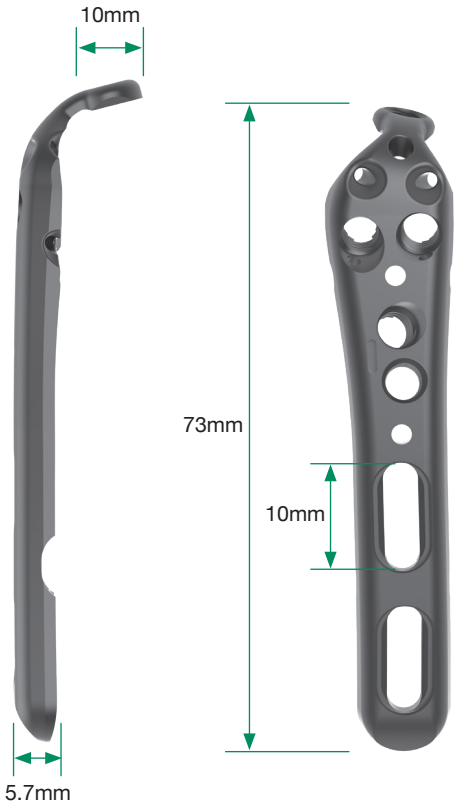
The Skeletal Dynamics Distal Elbow Plating System consists of titanium alloy plates and screws, cobalt chrome cannulated polyaxial locking screws, k-wires, and specialized instrumentation.

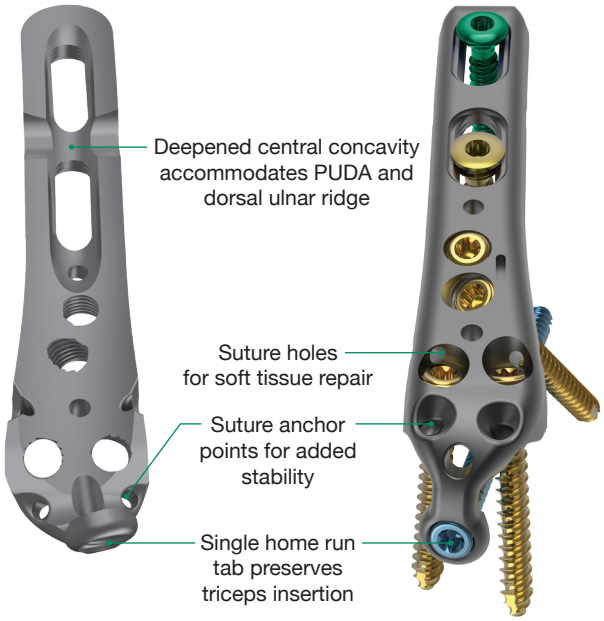
Proximal Ulna Implants include:

- 3.5mm titanium locking screws
- 3.5mm multi-thread compression screws
- 3.5mm cortical non-locking screws
- 3.0mm cobalt chrome polyaxial locking screws
- 2 Slot Plate (left and right specific)
- 3 Slot Plate (left and right specific)
- 4 Slot Plate (left and right specific)
- 5 Slot Plate (left and right specific)
- 5 Slot Plus Plate (left and right specific)
- 6 Slot Plate (left and right specific)
- 7 Slot Plate (left and right specific)
- 8 Slot Plate (left and right specific)
- 8 Slot Plus Plate (left and right specific)

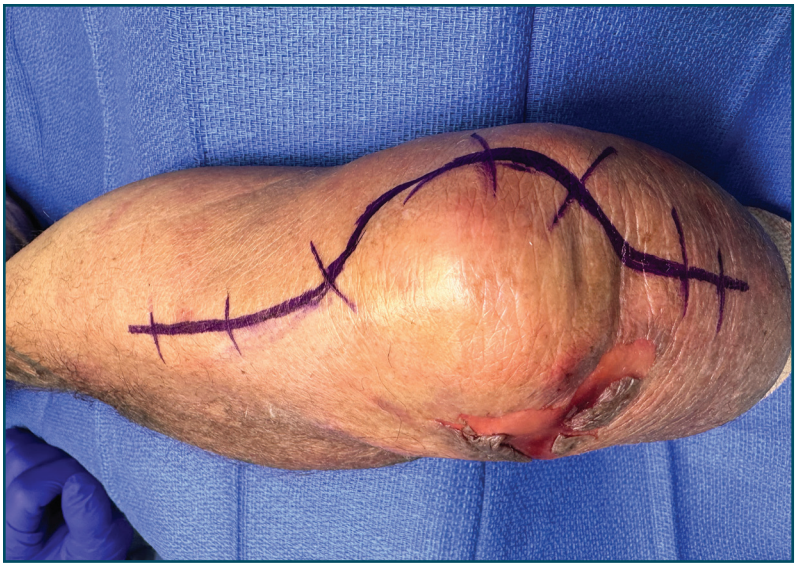
Indications for Use

The Skeletal Dynamics Distal Elbow Plating System is intended for fixation of fractures, fusions, osteotomies and non-unions of the radius and ulna, particularly in osteopenic bone.





1 SUPERFICIAL EXPOSURE

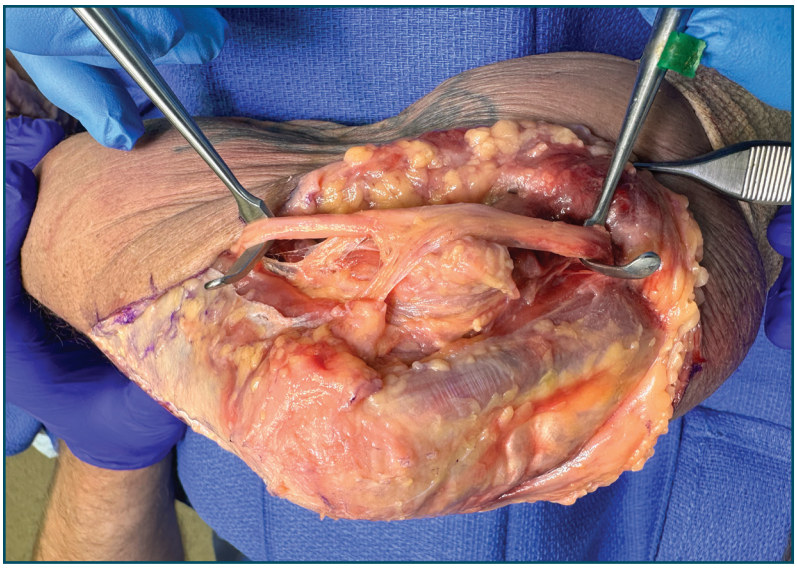


With the elbow flexed 90°, make a posterior incision extending distally, curving around the olecranon and over the subcutaneous border of the ulna.

Note:
The incision can be curved slightly lateral or medial to the tip of the olecranon based on your preferred method.

Warning:
Take care to avoid injury to the ulnar nerve.

2 RELEASING THE ULNAR NERVE



Locate the ulnar nerve.

Release and protect the nerve, considering the possibility of transposition.

DEEP EXPOSURE 3

Expose the proximal ulna subperiosteally.



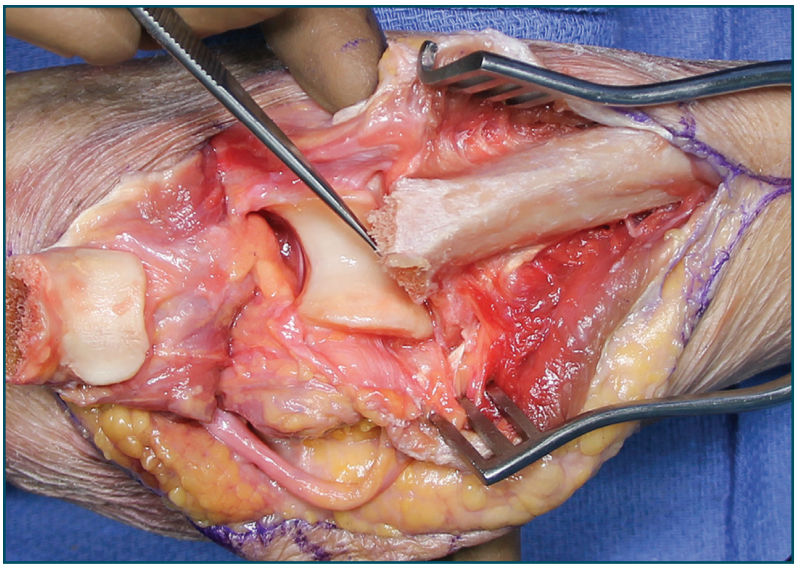
ACCESSING THE JOINT 4

For olecranon fractures, enter the joint through the fracture plane by releasing the capsular attachments on the proximal fragment as needed.

The articular surfaces can be evaluated at this time.



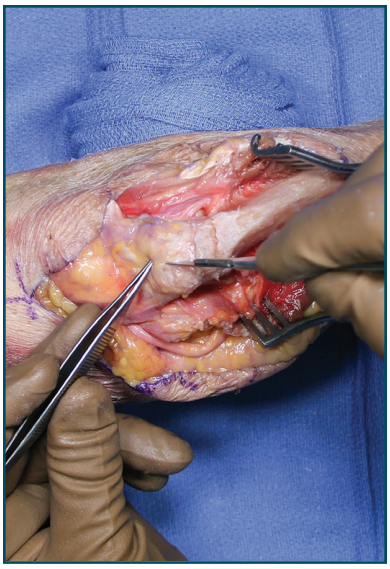
5 DEBRIDING THE FRACTURE



Debride the fracture site.

Note:
It is necessary to remove callus, clot and fibrous tissue in order to achieve a proper reduction.

6 DISTAL TRICEPS RELEASE





Starting distal to proximal, split the triceps insertion longitudinally for approximately 1cm.

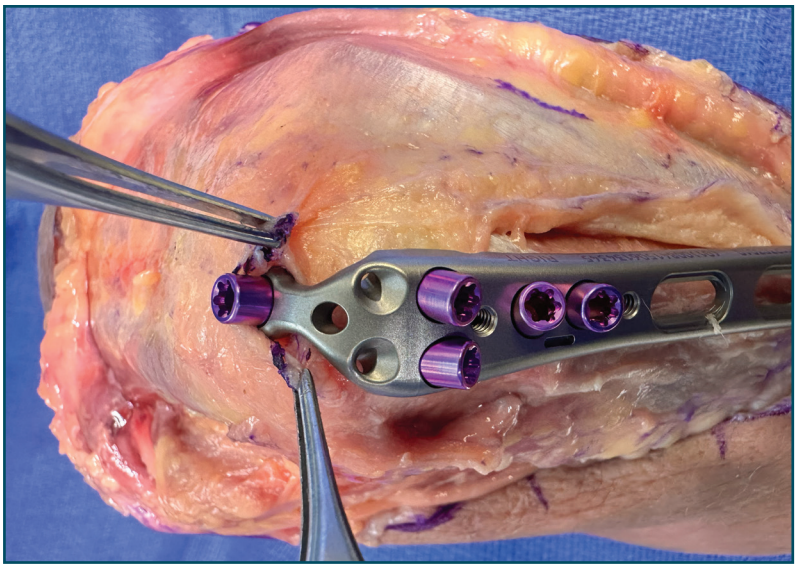
Elevate the triceps along a narrow longitudinal strip to provide space for the “Home Run” (HR) tab.

PLATE SELECTION 7

Select the appropriate length of plate that provides at least six cortices of fixation distal to the fracture line.

Note:
The shaft of the 5 Slot Plus plate can be bent using the Bending Irons. If plate bending is necessary, refer to step 36.

Warning:
Bending may weaken or break the plate. Be sure to inspect the plate for damage prior to use.

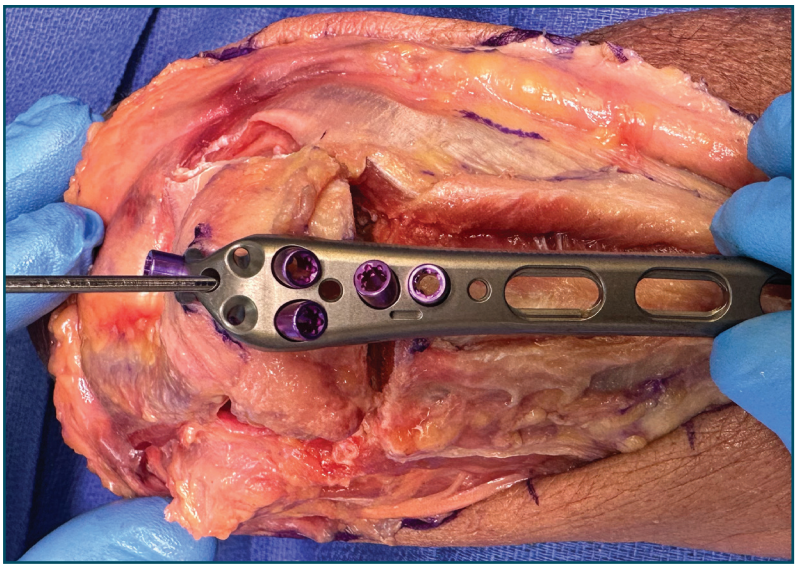


PROVISIONAL PLATE FIXATION 8

Apply the plate to the proximal fragment confirming that the plate is centered on the ulna shaft and that the HR tab is flush to the olecranon.

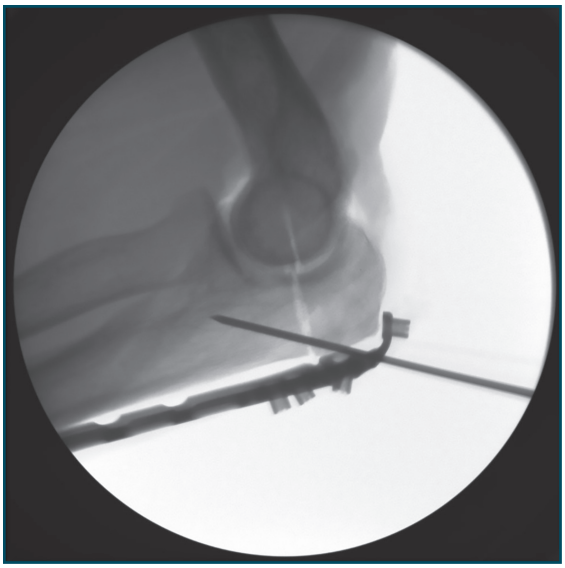
Secure the plate to the proximal fragment using a 2mm K-Wire through the hole at the base of the HR tab.

Note: If the home run tab adjustment is necessary to improve fit, refer to step 37.



KWIR-STD-20152: K-Wire, Standard Tip, 2.0 mm x 152 mm

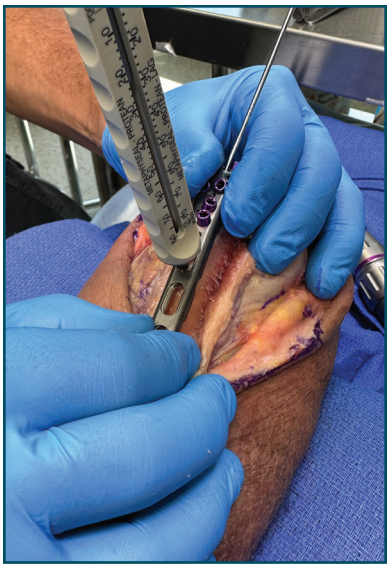
9 FRACTURE REDUCTION

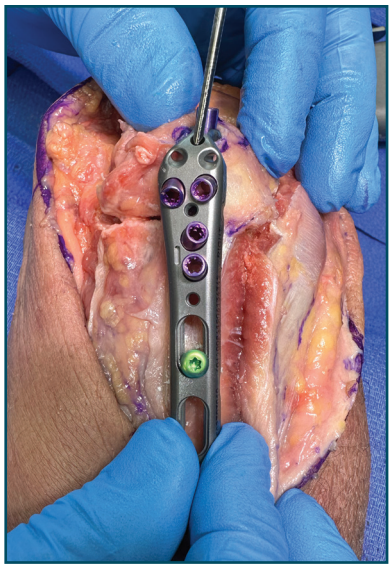


Reduce the fracture by levering the shaft of the plate to the distal fragment.

Confirm fracture reduction and plate alignment using fluoroscopy.

10 DISTAL FRAGMENT FIXATION





Using the 2.7mm x 40mm drill bit, drill through the distal end of a FreeFix slot that is distal to the fracture line through both cortices. This will allow for dynamic compression of the fracture.

Measure screw length using the appropriate scale on the 50mm Depth Gauge, then insert a 3.5mm compression screw using the T-10 Driver while applying interfragmentary compression.

Note:
The depth gauge has a dual scale to reflect measurements through the PDGs (top scale) or directly through the plate (bottom scale).



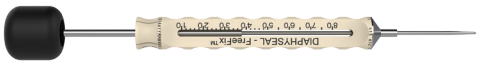
DRLL-SSC-27040: Drill, 2.7mm x 40mm



DRVR-UQC-T10: Driver, Universal Quick Connect, T10



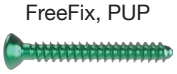
TPDG-FF-PUP: Drill Guide, FreeFix, PUP



DPGA-HPS: Depth Gauge, HPS



FFL-35XXX-TS: FreeFix Locking Screw, 3.5mm x XXmm



FFC-35XXX-TS: FreeFix Compression Screw, 3.5mm x XXmm

PROXIMAL FIXATION OPTIONS 11

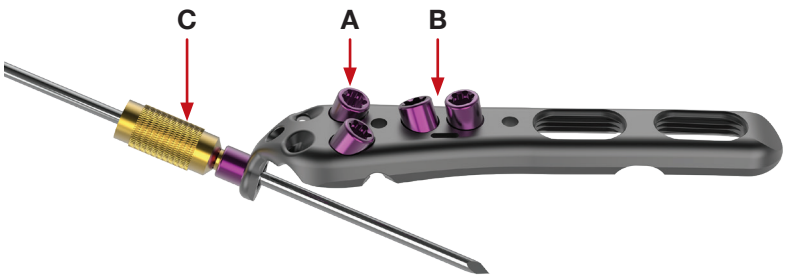
A. The two proximal holes containing Pre Assembled Drill Guidesare for fixation to the olecranon.

B. The adjacent two distal holes containing PDGs are for fixation to the coronoid.

C. All PDGs can accept an AIMing Guide using 2.0mm K-Wires for provisional fixation.

If it is necessary to alter a screw trajectory, remove the PDG and drill free-hand. A tissue protector is included in the system.

If a 3.0mm Cannulated Polyaxial Locking Screw (PLS) is needed, refer to steps 22 through 25.



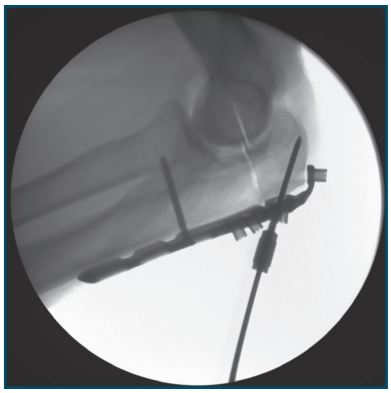


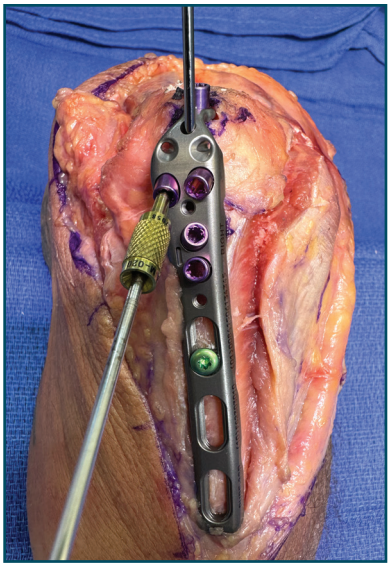
TPDG-DSD-XL: Tissue Protector / Drill Guide, Dual Sided, 2.7mm x 2.7mm, XL

PROVISIONAL K-WIRE FIXATION 12

If provisional plate fixation is needed, insert a 2.0mm AIMing Guide into the desired PDG, then drive a 2.0mm k-wire through the AIMing Guide, taking care to avoid the articular surfaces of the joint.

Using the 2.7mm drill bit, drill through the PDG. If a K-Wires obstructs drilling, it may be bent out of the way.



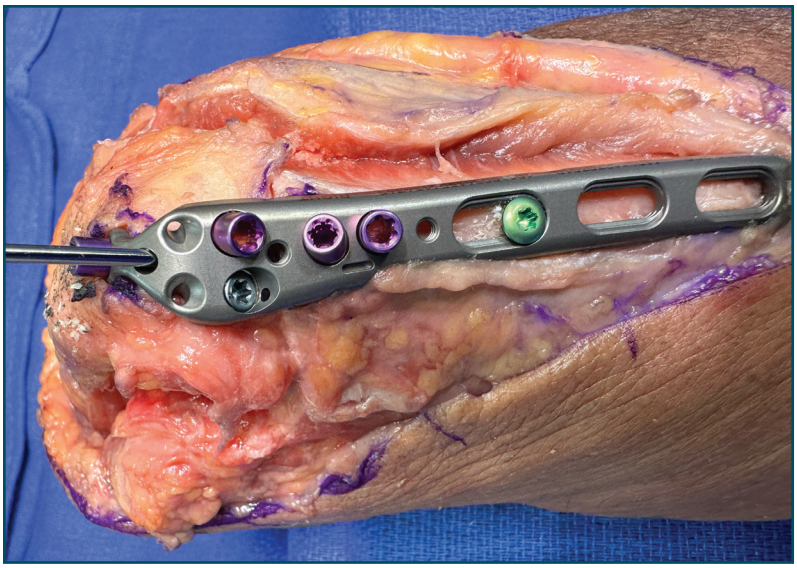




PDG-AIM-020: AIMing Guides, 2.0mm

KWIR-STD-20152: K-Wire, Standard Tip, 2.0 mm x 152 mm

13 OLECRANON FIXATION



Measure the screw length using the appropriate scale on the 50mm Depth Gauge.

Using the T-10 Driver, remove the PDG and insert the correct length 3.5mm Multi-Thread Compression Screw until the screw head contacts the plate.

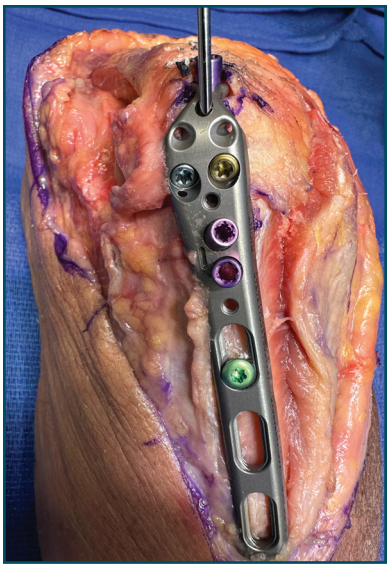
Remove the K-Wires at the base of the HR tab, then fully seat the Compression Screw until the plate is reduced to the olecranon.

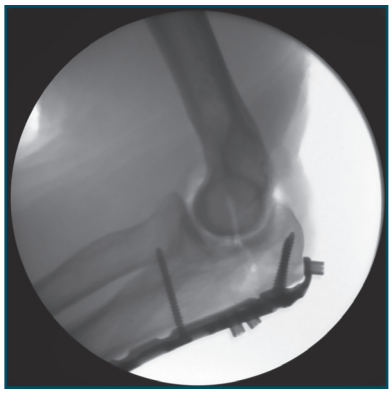
Note:
It is recommended to subtract ~2mm from the measured screw lengths to avoid compromising the articular surfaces and/or soft tissue irritation.



MTNL-35XXX-TS: Screw, Multi-Thread Compression, 3.5mm x XXmm, Ti

14 FLUOROSCOPIC CONFIRMATION





Repeat steps 12 and 13 for the remaining olecranon screw hole using a 3.5mm Multi-Thread Locking Screw.

Confirm proper plate positioning, fracture reduction and screw lengths using fluoroscopic imaging.



MTLS-35XXX-TS: Screw, Multi-Thread Locking, 3.5mm x XXmm, Ti

PREPARING THE HOME RUN TAB 15

Confirm that the HR tab is flush to the tip of the olecranon. If necessary, bend the tab as described in step 37.



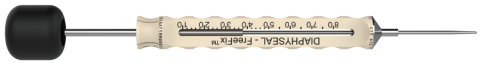
Using the 2.7mm x 80mm drill bit, drill through the PDG, then measure and record the screw length using the appropriate scale on the 80mm Depth Gauge.

Note:
If the HR tab was bent, confirm that the new trajectory will avoid contact with the articular surfaces of the joint.

Warning:
Bending may weaken or break the tab. Be sure to inspect the tab for damage prior to use.



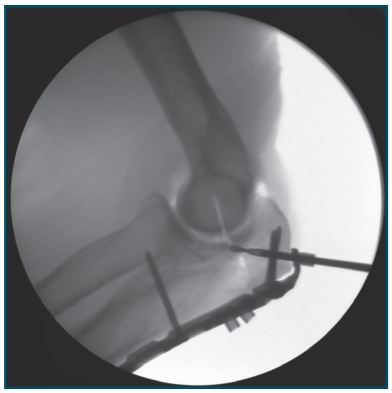
DRLL-SSC-27080: Drill, 2.7mm x 80mm



DPGA-HPS: Depth Gauge, HPS

OVER DRILLING THE HOME RUN TAB 16

Using the T-10 Driver, remove the PDG in the HR tab.

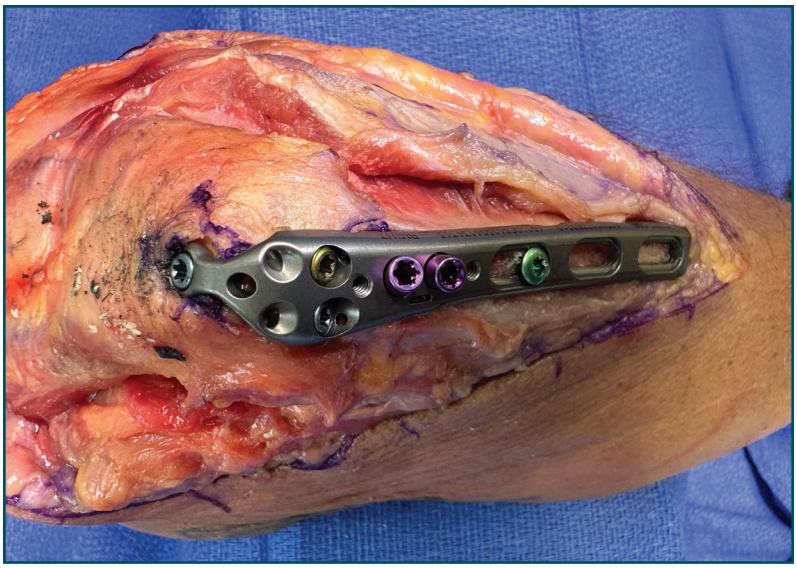


Drill up to the fracture line using the 3.5mm drill bit. Fluoroscopic imaging is helpful during this step.



DRLL-SSC-35070: Drill, 3.5mm x 70mm

17 LAGGING THE PROXIMAL FRAGMENT



Loosen the screw previously placed in the oblong hole of the shaft.

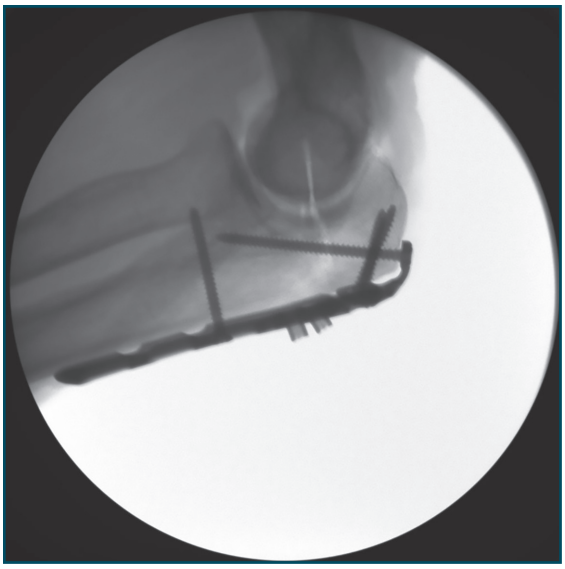
Insert the recorded length 3.5mm Multi-Threaded Compression Screw through the HR tab to further reduce the fracture.

Retighten the screw in the oblong hole of the shaft.



MTNL-35XXX-TS: Screw, Multi-Thread Compression, 3.5mm x XXmm, Ti

18 FLUOROSCOPIC CONFIRMATION



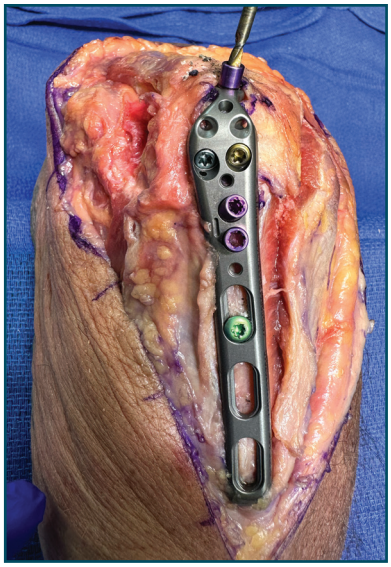
Confirm proper plate positioning, fracture reduction and screw lengths using fluoroscopic imaging.

CORONOID PREPARATION 19

Using the 2.7mm drill bit, drill through each PDG.

Measure the screw length using the appropriate scale on the Depth Gauge.

Note:
If the home run tab has been repositioned, consider the use of a Polyaxial Locking Screw if impingement occurs.

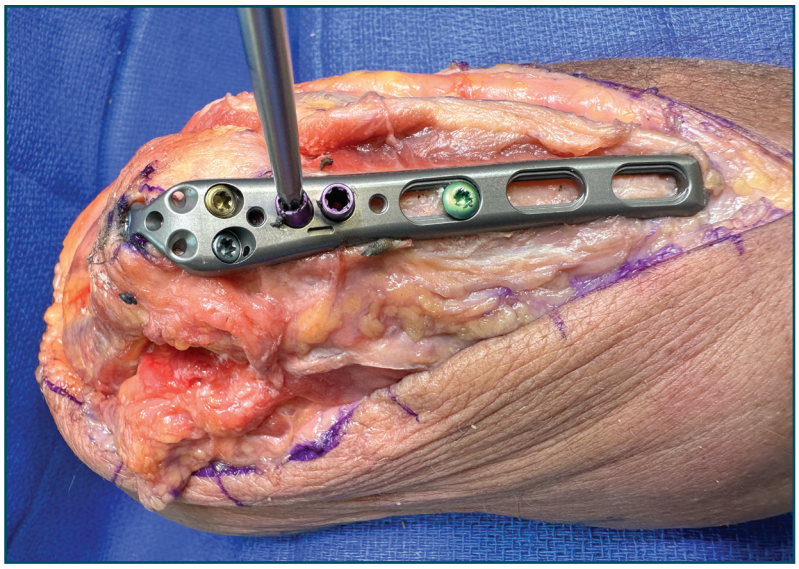




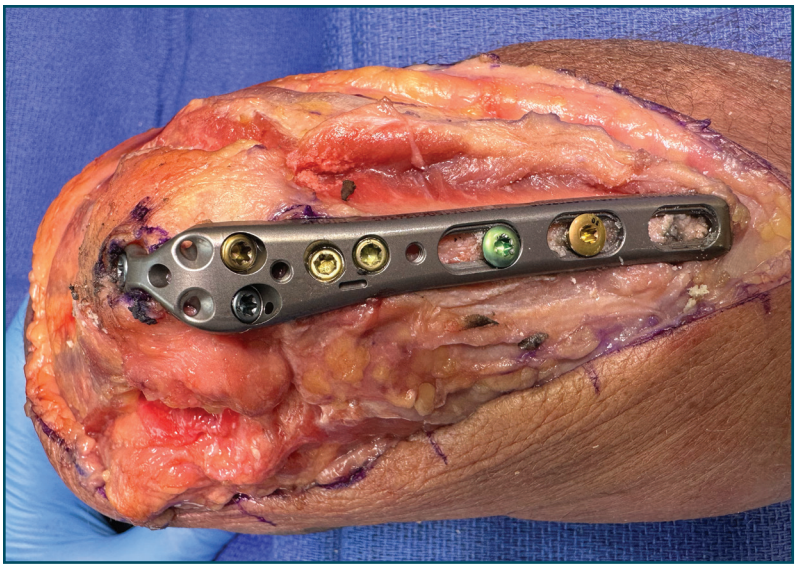
CORONOID FIXATION 20

Using the T-10 Driver, remove the PDG and insert the correct length 3.5mm Multi-Thread screw until fully tightened.

Repeat steps 19 and 20 for the remaining coronoid screw hole.



21 DISTAL PLATE FIXATION



Fill the remaining holes in the humeral shaft FreeFix® slots with 3.5mm locking or compression screws using the PUP or 3.5mm thread-in drill guide, and 2.7mm x 50mm drill bit.

Note:
1.5mm of dynamic compression can be achieved at any slot using the eccentric hole on the drill guide. Make sure the reference arrow is pointing towards the fracture.



FFL-35XXX-TS, FreeFix Locking Screw, 3.5mm x XXmm



FFL-35XXX-TS, FreeFix Locking Screw, 3.5mm x XXmm

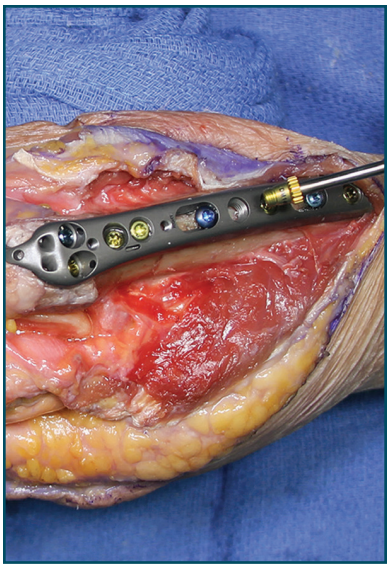


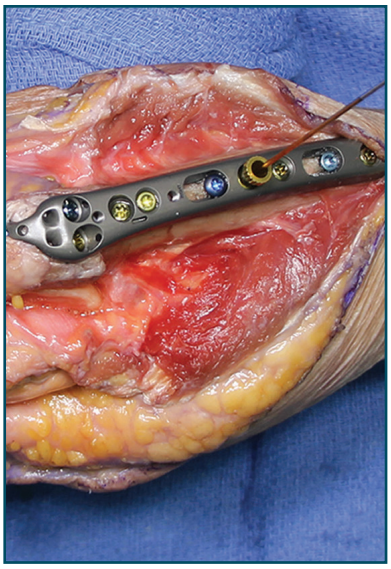
TPDG-FF@-35: Thread-in Drill Guide, FreeFix, 3.5mm



TPDG-FF-PUP: Drill Guide, FreeFix, PUP

22 CANNULATED 3.0 PLS SETUP (OPTIONAL)





If a Polyaxial Locking Screw is needed in any of the threaded holes, use the T-10 driver to remove the PDG if present and insert the 1.1mm PLS AIMing Guide.

Insert a 1.1mm K-Wire through the PLS AIMing Guide in the desired trajectory until the far cortex is reached.

Note:
Fluoroscopy is helpful to confirm the trajectory of the K-Wire.

Polyaxial Locking Screw's are not intended to be used in a FreeFix slot.

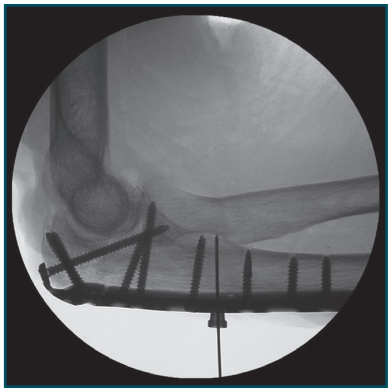


PDG-AIM-011: PLS AIMing Guide, 1.1mm x 10°

KWIR-PLS-11152: K-Wire,1.1 mm x 152 mm

FLUOROSCOPIC CONFIRMATION 23

After confirming the K-Wire reaches the far cortex, use the cannulated 3.0 PLS T-10 Driver to remove the PLS AIMing Guide, leaving the K-Wire in place.





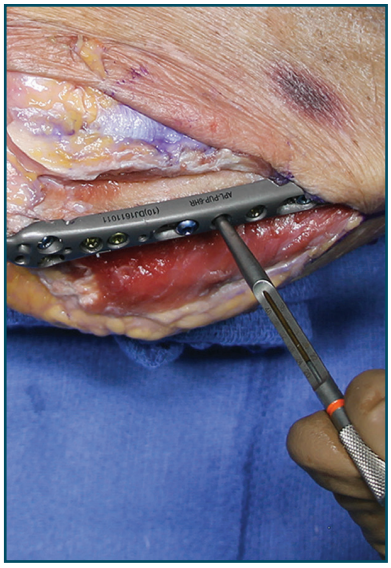


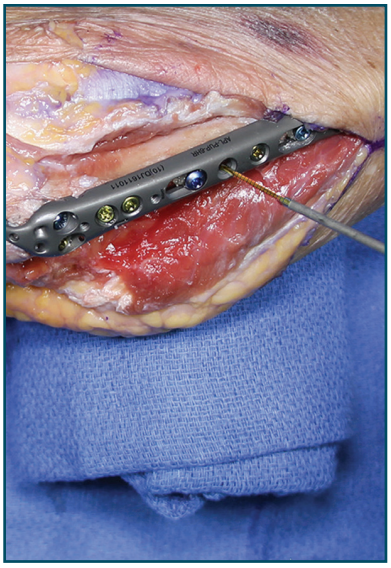
DRVR-PLS-30C: Driver, 3.0 PLS, T-10

CANNULATED 3.0 PLS PREPARATION 24

Slide the cannulated Depth Gauge over the K-Wire to measure the appropriate length of screw.

Using the 2.4mm cannulated PLS drill bit, drill over the K-Wire to the proper depth.





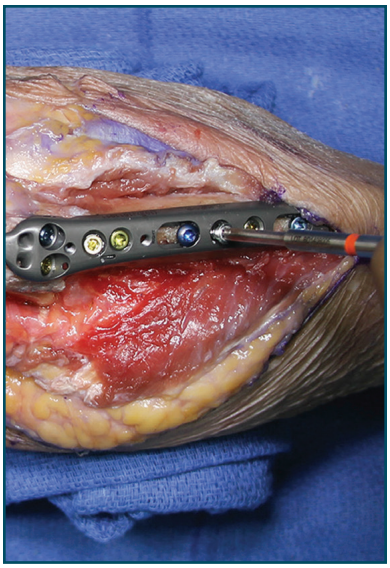


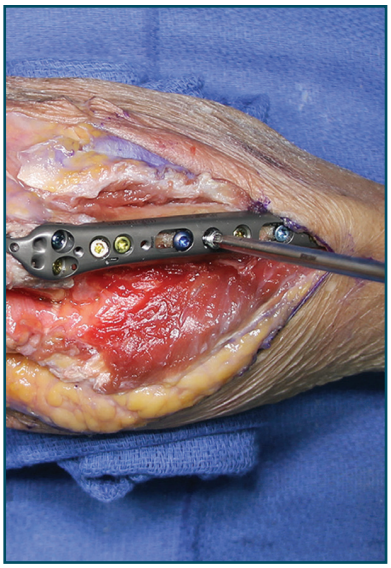
DPGA-PLS-030: Cannulated Depth Gauge, Polyaxial Locking Screw, 3.0mm



DRLL-PLS-24: Drill, Cannulated, PLS, 2.4mm x 40mm

25 CANNULATED 3.0 PLS FIXATION





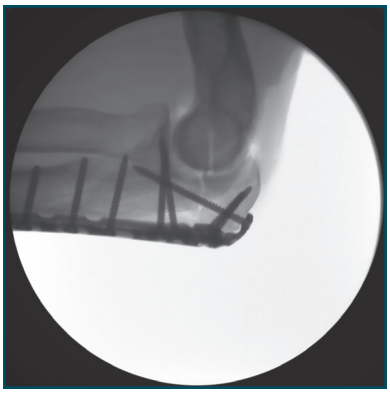
Using the Cannulated 3.0 PLS T-10 driver, thread the screw down the K-Wire until the head of the screw contacts the plate.

Remove the K-Wire and fully lock the screw to the plate using the non-cannulated T-10 Driver.



PALS-30XXX-CC: Screw, Polyaxial Locking, 3.0mm x XXmm Cannulated, CoCr

26 FLUOROSCOPIC CONFIRMATION



Using fluoroscopic imaging, confirm that proper reduction has been maintained and that all screws are of proper length and fully engaged to the plate.

Confirm that all PDGs have been removed.

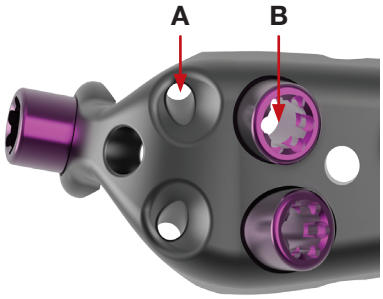
Where soft tissue attachment is preferred to support fracrure reduction, an additional suture technique is described starting with step 27. If not required, proceed to step 35 for closure.

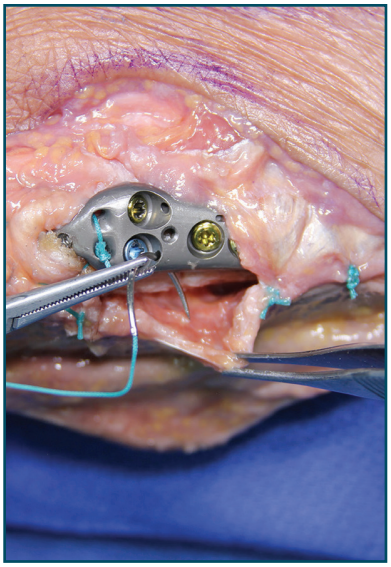
SOFT TISSUE ATTACHMENT POINTS (OPTIONAL) 27

All plates incorporate two suture attachment points proximal and distal to the olecranon screw holes that will accommodate a curved needle.

A. The triceps attachment points are beneficial to augment plate fixation when the triceps insertion is avulsed and osteoporotic or comminuted olecranon fractures are evident.

B. The fascia attachment points are beneficial for re-attaching the fascia when necessary.





BEGIN PASSING SUTURE 28

With the elbow in 90° flexion, mark a spot approximately 5mm distal to the home run tab.

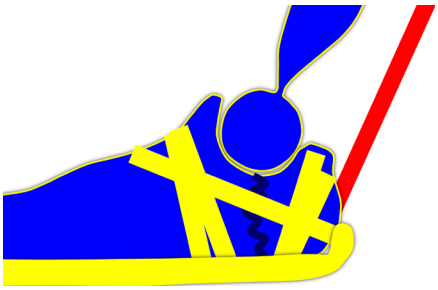


29 OUTLINE SUTURE PATH

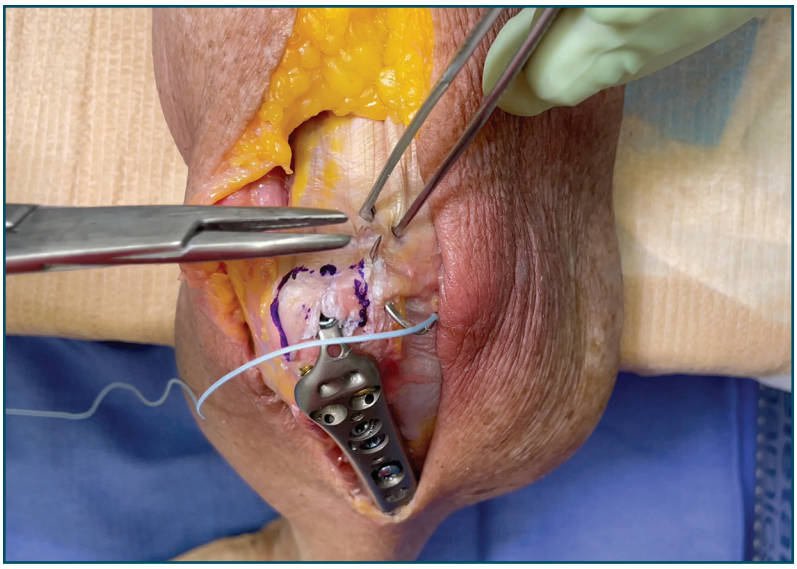


Draw an outline as shown to mark the suture path.

Note:
Make sure the suture path goes through the medial head of the triceps tendon.



30 BEGIN PASSING SUTURE

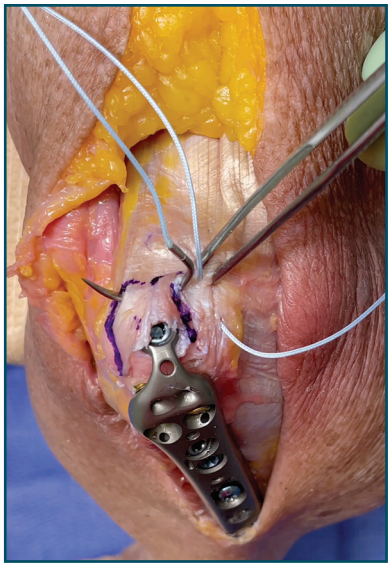


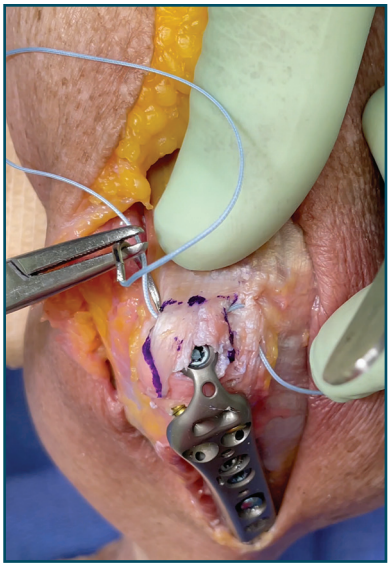
Begin a non-locked running stitch along the lateral side. Pass the suture deep to capture as much of the underlying tissue as possible.

CONTINUE PASSING SUTURE 31

Continue passing the suture deep along the olecranon surface and the distal outline, incorporating Sharpey's fibers.

Continue the deep-running stitch medially.

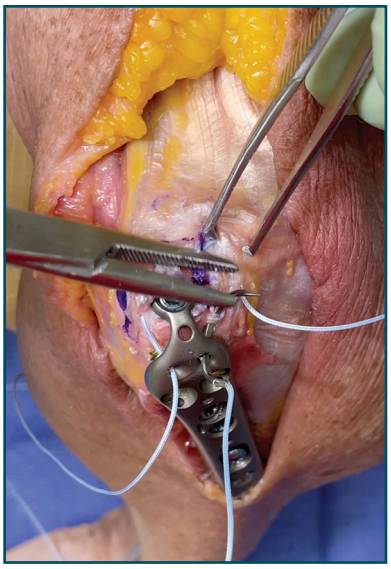




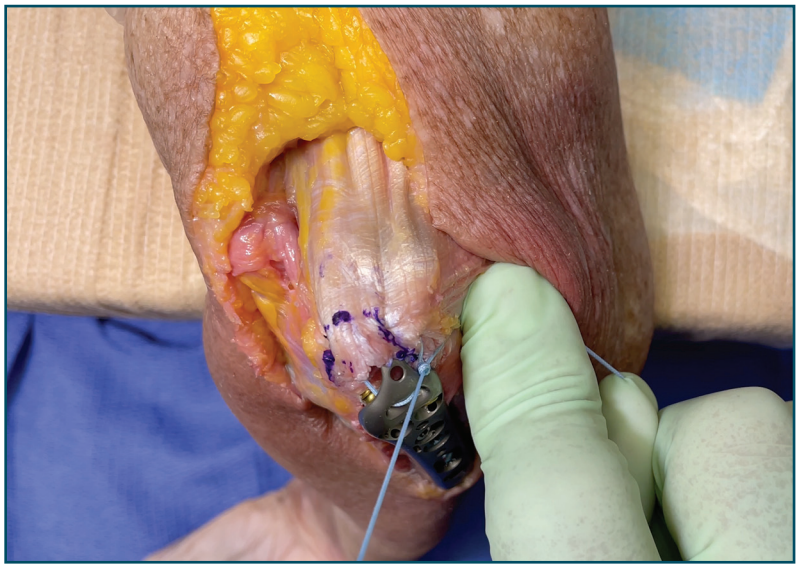
PASS SUTURE THROUGH PLATE 32

Pass the suture through the medial suture hole of the plate, then pass the suture through the lateral suture hole of the plate.





33 TIE SLIDING KNOT



Tighten the suture to remove all slack. Pull suture limbs to confirm the suture slides within the tissue.

Tie and tension a sliding knot on the lateral side.

34 SECURE CONSTRUCT

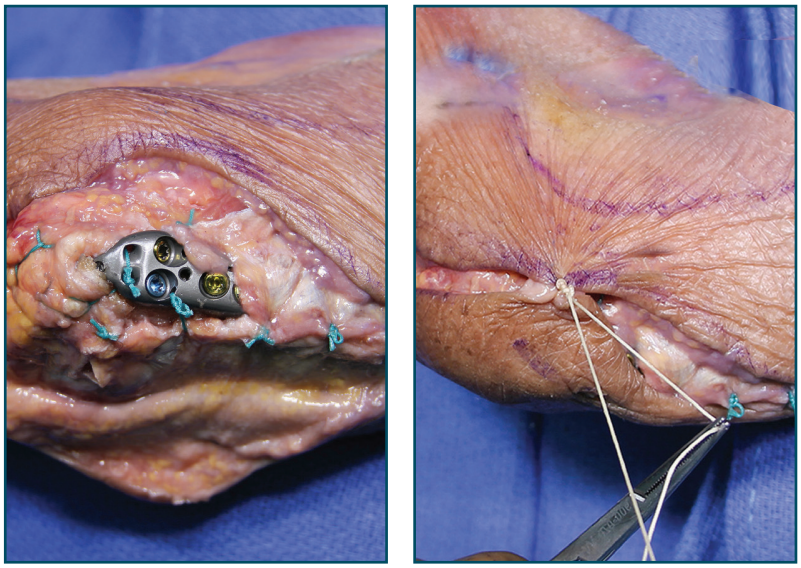


Secure the construct with six additional surgeon knots. To avoid irritation of the soft tissue, ensure the knot stack is lateralized as much as possible.

WOUND CLOSURE 35

Confirm that the ulnar nerve is free of any impingement.

Close deep to superficial in the usual fashion. Apply a standard long-arm post-op dressing as necessary.



KWIR-PLS-11152: K-Wire,1.1 mm x 152 mm

PLATE BENDING (OPTIONAL) 36

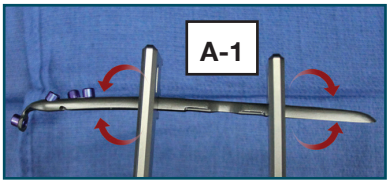
If it is necessary to modify the shaft of the 5 Slot Plus plate, attach the Bending Irons to bend the plate in any plane up to 10°.

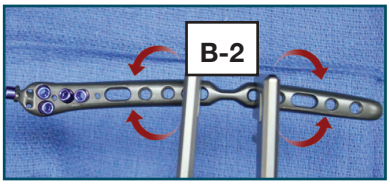
A. Vertical Plane: Use section 1 of the Bending Irons.

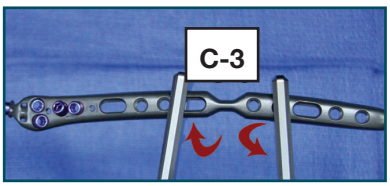
B. Horizontal Plane: Use section 2 of the Bending Irons. This plate manipulation can also be performed in-situ.

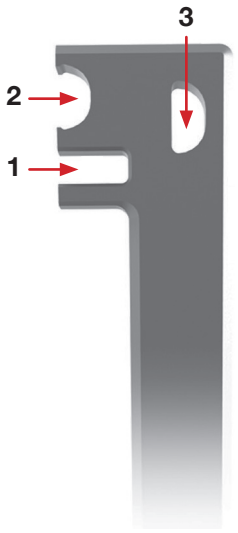
C. Transverse Plane: Use section 3 of the Bending Irons.

Note:
Do not exceed the respective maximum bend angles as described above.



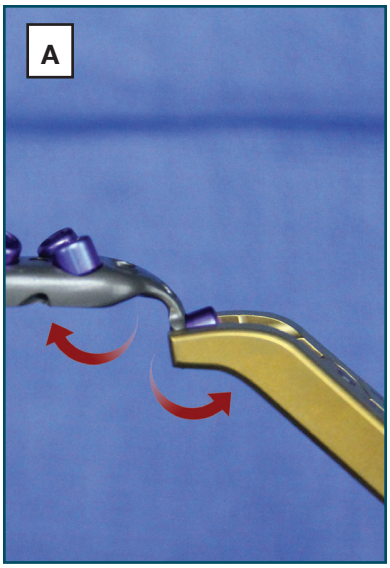


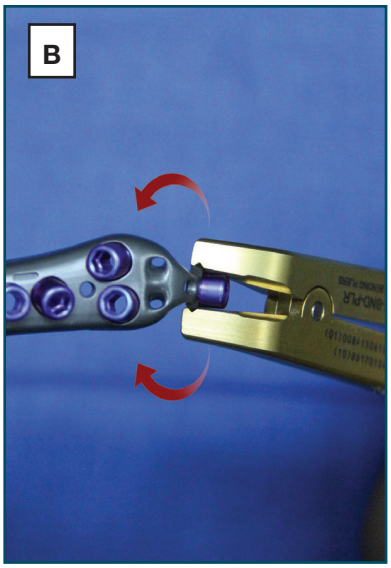




Warning:
Bending may weaken or break the plate. Be sure to inspect the plate for damage prior to use.

37 HOME RUN TAB BENDING (OPTIONAL)





If it is necessary to modify the HR tab, firmly hold the plate, then grip the round node of the HR tab using the Bending Pliers and shape as intended.

A. Vertical Plane: Secure the Bending Plier to bend up to 30°.

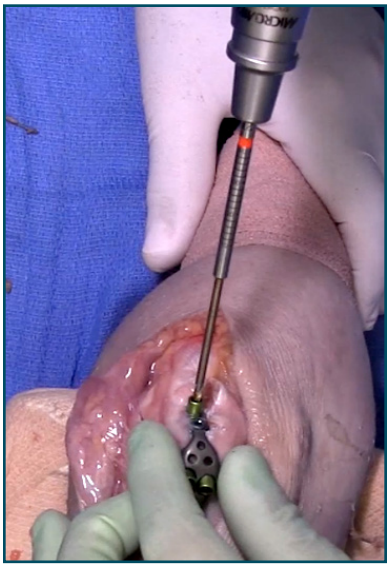
B. Transverse Plane: Secure the Bending Plier to bend up to 45°.

Confirm that the new trajectory avoids contact with the articular surfaces and other screw trajectories using fluoroscopy.

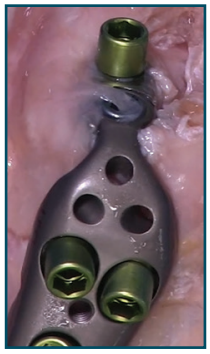
Note:
Do not exceed the maximum bend angles as described above.

Warning:
Bending may weaken or break the plate. Be sure to inspect the plate for damage prior to use.

38 PROXIMAL ULNA PLATE EXTENSION (OPTIONAL)







Attach the Proximal Ulna Plate Extension to the Home Run Tab prior to applying the plate to the bone.

Using the 2.7mm x 80mm drill bit, drill through the drill guide, and measure the screw length using the appropriate scale on the Depth Gauge.

Warning: When drilling screw holes, be sure to avoid drilling into the articular surfaces.

Insert the appropriate length screw.

Warning: Care should be taken that no screws are placed in the joint.



DRLL-SSC-27080: Drill, 2.7mm x 80mm



PUPE-1HL: PUP Extension, 1 Hole



DPGA-HPS: Depth Gauge, HPS



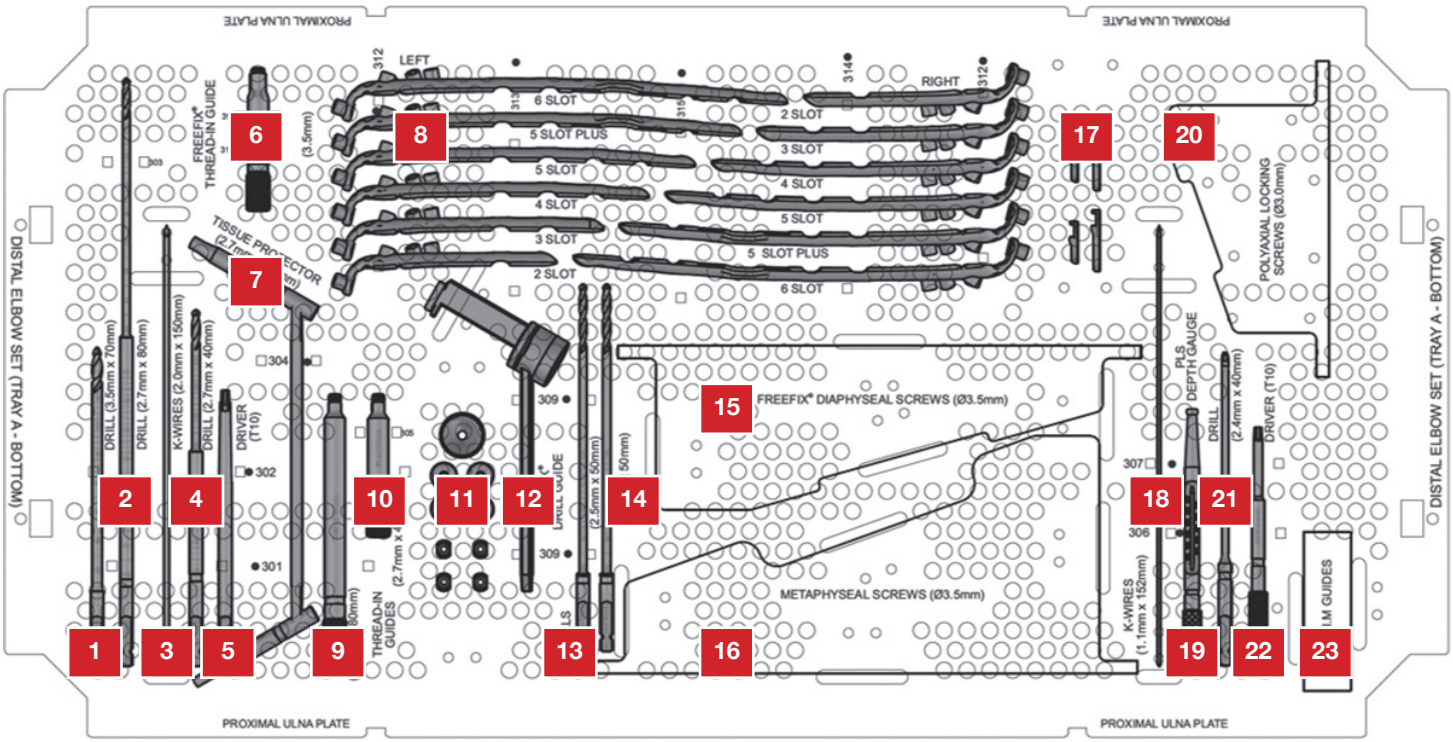
PUPE-2HL: PUP Extension, 2 Hole

IMPLANT REMOVAL (OPTIONAL) 39

Clear any tissue overgrowth from the screw holes of the plate. Then proceed to remove the screws by inserting the corresponding screwdriver and turn counter clockwise.

Once all the scres are removed, remove the plate.

INSTRUMENT TRAY (Standard Configuration)



Loc #	Catalog #	Description
1	DRLL-SSC-35070	Drill, 3.5mm x 70mm
2	DRLL-SSC-27080	Drill, 2.7mm x 80mm
3	KWIR-STD-20152	K-Wire, Standrd Tip, 2.0mm x 152mm
4	DRLL-SSC-27040	Drill, 2.7mm x 40mm
5	DRVR-UQC-T10	Driver, Universal Quick Connect, T10
	TPDG-FF2-35	Thread-in Drill Guide, FreeFix, 3.5mm
7	TPDG-DSD-2735	Tissue Protector/Drill Guide, Dual Sided, 2.7mm x 3.5mm
8	PUPF-2SR	FreeFix, Proximal Ulna Plate, 2 Slot, Right
	PUPF-2SL	FreeFix, Proximal Ulna Plate, 2 Slot, Left
	PUPF-3SR	FreeFix, Proximal Ulna Plate, 3 Slot, Right
	PUPF-3SL	FreeFix, Proximal Ulna Plate, 3 Slot, Left
	PUPF-4SR	FreeFix, Proximal Ulna Plate, 4 Slot, Right
	PUPF-4SL	FreeFix, Proximal Ulna Plate, 4 Slot, Left
	PUPF-5SR	FreeFix, Proximal Ulna Plate, 5 Slot, Right
	PUPF-5SL	FreeFix, Proximal Ulna Plate, 5 Slot, Left
	PUPF-5SPR	FreeFix, Proximal Ulna Plate, 5 Slot Plus, Right
	PUPF-5SPL	FreeFix, Proximal Ulna Plate, 5 Slot Plus, Left
	PUPF-6SR	FreeFix, Proximal Ulna Plate, 6 Slot, Right
	PUPF-6SL	FreeFix, Proximal Ulna Plate, 6 Slot, Left
9	TPDG-27-MXL	Thread-in Drill Guide, 2.7mm, Multi-Thread XL
10	TPDG-27-M	Thread-in Drill Guide, 2.7mm x 40mm, Multi-Thread
11	OADG-FF-T35	Thread-in Off Axis Drill Guide, FreeFix 3.5mm
	TPDG-FF2-KW16	Thread-in Drill Guide, FreeFix, 1.6mm K-Wire
	PDG-AIM-20SF	AIMing Guides, 2.0mm Snap Fit
12	TPDG-FF-PUP	Drill Guide, FreeFix, PUP
13	DRLL-SSC-25050	Drill, 2.5mm x 50mm
14	DRLL-SSC-27050	Drill, 2.7mm x 50mm
15	FFC-35080-TS	Screw, FreeFix Compression, 3.5mm x 08mm, Ti
	FFC-35100-TS	Screw, FreeFix Compression, 3.5mm x 10mm, Ti
	FFC-35120-TS	Screw, FreeFix Compression, 3.5mm x 12mm, Ti
	FFC-35140-TS	Screw, FreeFix Compression, 3.5mm x 14mm, Ti
	FFC-35160-TS	Screw, FreeFix Compression, 3.5mm x 16mm, Ti
	FFC-35180-TS	Screw, FreeFix Compression, 3.5mm x 18mm, Ti
	FFC-35200-TS	Screw, FreeFix Compression, 3.5mm x 20mm, Ti
	FFC-35220-TS	Screw, FreeFix Compression, 3.5mm x 22mm, Ti
	FFC-35240-TS	Screw, FreeFix Compression, 3.5mm x 24mm, Ti
	FFC-35260-TS	Screw, FreeFix Compression, 3.5mm x 26mm, Ti
	FFC-35280-TS	Screw, FreeFix Compression, 3.5mm x 28mm, Ti
	FFC-35300-TS	Screw, FreeFix Compression, 3.5mm x 30mm, Ti
	FFC-35320-TS	Screw, FreeFix Compression, 3.5mm x 32mm, Ti
	FFC-35340-TS	Screw, FreeFix Compression, 3.5mm x 34mm, Ti
	FFC-35360-TS	Screw, FreeFix Compression, 3.5mm x 36mm, Ti
	FFC-35380-TS	Screw, FreeFix Compression, 3.5mm x 38mm, Ti
	FFC-35400-TS	Screw, FreeFix Compression, 3.5mm x 40mm, Ti
	FFC-35420-TS	Screw, FreeFix Compression, 3.5mm x 42mm, Ti
	FFC-35440-TS	Screw, FreeFix Compression, 3.5mm x 44mm, Ti
	FFL-35080-TS	Screw, FreeFix Locking, 3.5mm x 08mm, Ti
	FFL-35100-TS	Screw, FreeFix Locking, 3.5mm x 10mm, Ti
	FFL-35120-TS	Screw, FreeFix Locking, 3.5mm x 12mm, Ti
	FFL-35140-TS	Screw, FreeFix Locking, 3.5mm x 14mm, Ti
	FFL-35160-TS	Screw, FreeFix Locking, 3.5mm x 16mm, Ti
	FFL-35180-TS	Screw, FreeFix Locking, 3.5mm x 18mm, Ti
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	FFL-35220-TS	Screw, FreeFix Locking, 3.5mm x 22mm, Ti
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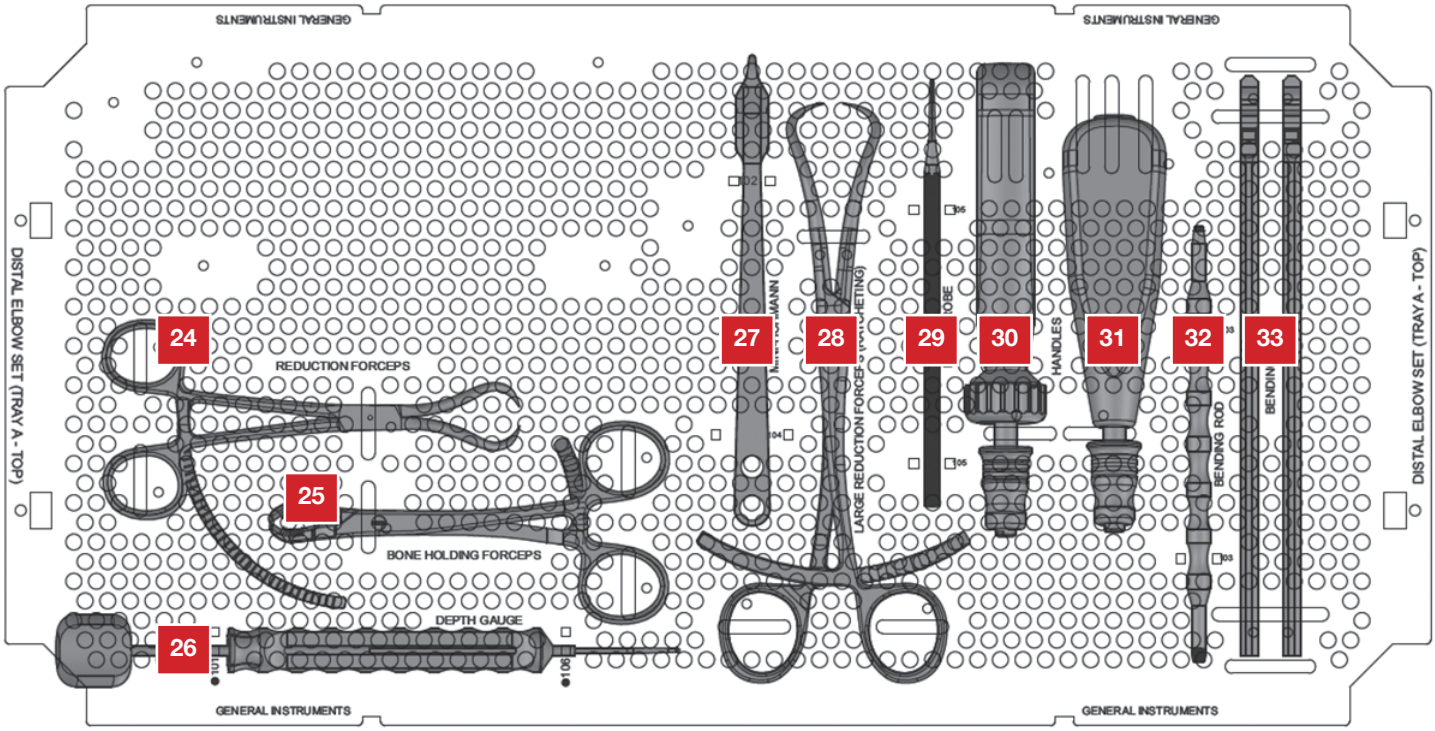
	FFL-35260-TS	Screw, FreeFix Locking, 3.5mm x 26mm, Ti
	FFL-35280-TS	Screw, FreeFix Locking, 3.5mm x 28mm, Ti
	FFL-35300-TS	Screw, FreeFix Locking, 3.5mm x 30mm, Ti
	FFL-35320-TS	Screw, FreeFix Locking, 3.5mm x 32mm, Ti
	FFL-35340-TS	Screw, FreeFix Locking, 3.5mm x 34mm, Ti
	FFL-35360-TS	Screw, FreeFix Locking, 3.5mm x 36mm, Ti
	FFL-35380-TS	Screw, FreeFix Locking, 3.5mm x 38mm, Ti
	FFL-35400-TS	Screw, FreeFix Locking, 3.5mm x 40mm, Ti
	FFL-35420-TS	Screw, FreeFix Locking, 3.5mm x 42mm, Ti
	FFL-35440-TS	Screw, FreeFix Locking, 3.5mm x 44mm, Ti
16	MTNL-35080-TS	Screw, Multi-Thread Compression, 3.5mm x 8mm, Ti
	MTNL-35100-TS	Screw, Multi-Thread Compression, 3.5mm x 10mm, Ti
	MTNL-35120-TS	Screw, Multi-Thread Compression, 3.5mm x 12mm, Ti
	MTNL-35140-TS	Screw, Multi-Thread Compression, 3.5mm x 14mm, Ti
	MTNL-35160-TS	Screw, Multi-Thread Compression, 3.5mm x 16mm, Ti
	MTNL-35180-TS	Screw, Multi-Thread Compression, 3.5mm x 18mm, Ti
	MTNL-35200-TS	Screw, Multi-Thread Compression, 3.5mm x 20mm, Ti
	MTNL-35220-TS	Screw, Multi-Thread Compression, 3.5mm x 22mm, Ti
	MTNL-35240-TS	Screw, Multi-Thread Compression, 3.5mm x 24mm, Ti
	MTNL-35260-TS	Screw, Multi-Thread Compression, 3.5mm x 26mm, Ti
	MTNL-35280-TS	Screw, Multi-Thread Compression, 3.5mm x 28mm, Ti
	MTNL-35300-TS	Screw, Multi-Thread Compression, 3.5mm x 30mm, Ti
	MTNL-35320-TS	Screw, Multi-Thread Compression, 3.5mm x 32mm, Ti

INSTRUMENT TRAY (Standard Configuration)



Loc #	Catalog #	Description
	MTNL-35340-TS	Screw, Multi-Thread Compession, 3.5mm x 34mm, Ti
	MTNL-35360-TS	Screw, Multi-Thread Compession, 3.5mm x 36mm, Ti
	MTNL-35380-TS	Screw, Multi-Thread Compession, 3.5mm x 38mm, Ti
	MTNL-35400-TS	Screw, Multi-Thread Compession, 3.5mm x 40mm, Ti
	MTNL-35420-TS	Screw, Multi-Thread Compession, 3.5mm x 42mm, Ti
	MTNL-35440-TS	Screw, Multi-Thread Compession, 3.5mm x 44mm, Ti
	MTNL-35460-TS	Screw, Multi-Thread Compession, 3.5mm x 46mm, Ti
	MTNL-35480-TS	Screw, Multi-Thread Compession, 3.5mm x 48mm, Ti
	MTNL-35500-TS	Screw, Multi-Thread Compession, 3.5mm x 50mm, Ti
	MTNL-35550-TS	Screw, Multi-Thread Compession, 3.5mm x 55mm, Ti
	MTNL-35600-TS	Screw, Multi-Thread Compession, 3.5mm x 60mm, Ti
	MTNL-35650-TS	Screw, Multi-Thread Compession, 3.5mm x 65mm, Ti
	MTNL-35700-TS	Screw, Multi-Thread Compession, 3.5mm x 70mm, Ti
17	PUPE-1HL	PUP Extension, 1 Hole
	PUPE-2HL	PUP Extension, 2 Hole
18	KWIR-PLS-11152	K-Wire, Standard Tip, 1.1mm x 152mm
19	GMN-CDG-PLS	Cannulated Depth Gauge, Polyaxial Locking Screw
20	PALS-25100-CC	Screw, Polyaxial Locking, 2.5mm x 10mm Cannulated, COCR
	PALS-25120-CC	Screw, Polyaxial Locking, 2.5mm x 12mm Cannulated, COCR
	PALS-25140-CC	Screw, Polyaxial Locking, 2.5mm x 14mm Cannulated, COCR
	PALS-25160-CC	Screw, Polyaxial Locking, 2.5mm x 16mm Cannulated, COCR
	PALS-25180-CC	Screw, Polyaxial Locking, 2.5mm x 18mm Cannulated, COCR
	PALS-25200-CC	Screw, Polyaxial Locking, 2.5mm x 20mm Cannulated, COCR
	PALS-25220-CC	Screw, Polyaxial Locking, 2.5mm x 22mm Cannulated, COCR
	PALS-25240-CC	Screw, Polyaxial Locking, 2.5mm x 24mm Cannulated, COCR
	PALS-25260-CC	Screw, Polyaxial Locking, 2.5mm x 26mm Cannulated, COCR
	PALS-25280-CC	Screw, Polyaxial Locking, 2.5mm x 28mm Cannulated, COCR
	PALS-25300-CC	Screw, Polyaxial Locking, 2.5mm x 30mm Cannulated, COCR
21	DRLL-PLS-24	Drill, Cannulated, PLS, 2.4mm x 40mm
22	DRVR-UQC-T10	Driver, Universal Quick Connect, T10
23	PDG-AIM-011	PLS AIMing Guide, 1.1mm x 10°
24	FRCP-BRF-LR	Reduction Forceps, Long Ratcheting
25	FRCP-BHM-RTC	Forceps, Bone Holding Medium, Ratcheting
26	DPGA-UNV-050	Depth Gauge, Universal, 50mm
27	INST-MHR-STD	Instrument, Mini-Hohmann Retractor, Standard
28	FRCP-BHL-RTP	Large Reduction Forceps
29	INST-SHP-STD	Instrument, Sharp Hook Probe, Standard
30.	HNDL-UQC-RTC	Handle, Universal QC, Ratcheting (ALIGN)
31	HNDL-UQC-FXD	Handle, Universal Quick Connect, Fixed
32	BND-ROD-DES	Bending Rod, DES
33	DES-PUP-BND	Proximal Ulna Plate, Dending Irons

OPTIONAL *(not pictured *)*:

34	PUPF-7SR	FreeFix, Proximal Ulna Plate, 7 Slot, Right
	PUPF-7SL	FreeFix, Proximal Ulna Plate, 7 Slot, Left
	PUPF-8SR	FreeFix, Proximal Ulna Plate, 8 Slot, Right
	PUPF-8SL	FreeFix, Proximal Ulna Plate, 8 Slot, Left
	PUPF-8SPR	FreeFix, Proximal Ulna Plate, 8 Slot Plus, Right
	PUPF-8SPL	FreeFix, Proximal Ulna Plate, 8 Slot Plus, Right

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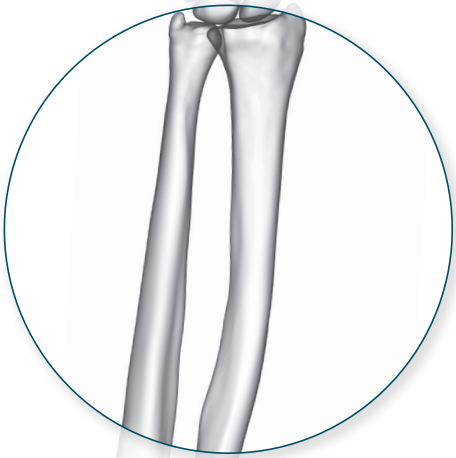



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