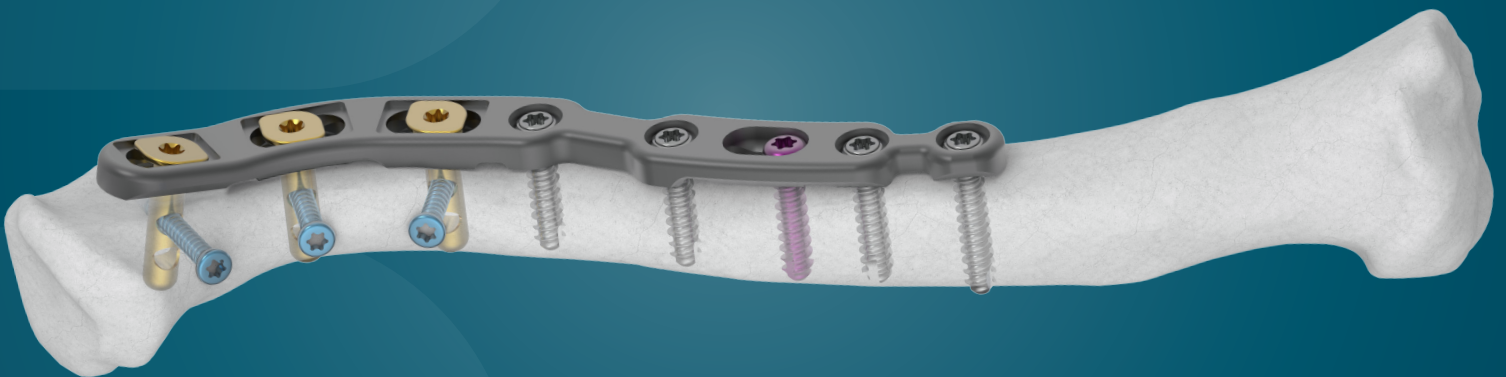


SURGICAL TECHNIQUE GUIDE

CLAVIX[™]

fixation system



As described by:
Jorge L. Orbay, M.D.
Miami Bone & Joint Institute

CLAVIX FIXATION SYSTEM

As described by: **Jorge L. Orbay, M.D.** Miami Bone & Joint Institute

Description

The Skeletal Dynamics Clavix Fixation System is a comprehensive plating system to treat clavicle fractures and designed to address the broad spectrum of clavicular anatomy. The system includes dedicated midshaft plates for both anterior and superior support with an array of length options to conform to the curvature of the clavicle. The system provides two solutions for distal lateral fractures, including Orthogonal Fixation, for improved fixation in that region of the anatomy, especially in osteopenic bone. For cases where lower profile plates are necessary, the system includes PROTEAN plating options for dual-plating solutions. Additionally, dedicated instrumentation is included to improve ergonomics and user experience.

Indications for Use

The Skeletal Dynamics Clavix Fixation System is indicated for fractures, osteotomies, and non-unions of the Clavicle including osteopenic bone.

DESCRIPTION	HOLES	MIDSHAFT PLATES	LENGTH	WIDTH	THICKNESS	SCREW	DRILL Ø
2.7mm Superior Midshaft Size 1	9		80mm	9mm	2.8mm	2.7mm	2.0mm
2.7mm Superior Midshaft Size 2	10		88mm				
2.7mm Superior Midshaft Size 3	11		95mm				
3.5mm Superior Midshaft Size 1	9		90mm	10mm	3.5mm	3.5mm	2.7mm
3.5mm Superior Midshaft Size 2	10		99mm				
3.5mm Superior Midshaft Size 3	11		107mm				
3.5mm Superior Midshaft Size 4	12		115mm				
3.5mm Superior Midshaft Size 5	13		123mm				
2.7mm Anterior Midshaft	9		88mm	9mm	2.8mm	2.7mm	2.0mm
3.5mm Anterior Midshaft	9		99mm	10mm	3.5mm	3.5mm	2.7mm
PROTEAN Anterior	12		97mm	6.4mm	2.0mm	2.5mm	2.0mm
PROTEAN S Plate	12		113mm	6.4mm	2.0mm	2.5mm	2.0mm

DESCRIPTION	HOLES	LATERAL PLATES	LENGTH	WIDTH	THICKNESS	SCREW	DRILL Ø
2.7mm Anterior Lateral	11		96mm	9mm	2.8mm	2.7mm	2.0mm
2.7/3.5mm Anterior Lateral	12		107mm	Lat 7.6mm Med 9mm	Lat 2.8mm Med 3.5mm	Lat 2.7mm Med 3.5mm	Lat 2.0mm Med 2.7mm
2.7mm Superior Cluster	12		87mm	Lat 16mm Med 9mm	2.8mm	2.7mm	2.0mm
3.5mm Superior Cluster	12		99mm	Lat 16mm Med 10mm	Lat 2.8mm Med 3.0mm	Lat 2.7mm Med 3.5mm	Lat 2.0mm Med 2.7mm
2.7mm Superior Lateral	7		86mm	Lat 10mm Med 9mm	2.8mm	Lat 3.8mm Med 2.7mm	Lat 3.8mm Med 2.0mm
3.5mm Superior Lateral	8		96mm	10mm	3.5mm	Lat 3.8mm Med 2.7mm	Lat 3.8mm Med 2.7mm
PROTEAN Curved Y Plate	10		85mm	6.4mm	2.0mm	2.5mm	2.0mm

DESCRIPTION	SCREWS	LENGTH	Ø
Screw, Variable Angle Non-Locking (VAN), 2.7mm, Ti		8mm - 20mm 1mm increments 20mm - 30mm 2mm increments	2.7mm
Screw, Variable Angle Locking (VAL), 2.7mm, CoCr			
Screw, Variable Angle Non-Locking (VAN), 3.5mm, Ti		8mm - 20mm 1mm increments 20mm - 30mm 2mm increments	3.5mm
Screw, Variable Angle Locking (VAL), 3.5mm, CoCr			
Screw, Non-Locking, 2.5mm, Ti		8mm - 30mm 2mm increments	2.5mm
Screw, Variable Angle, 2.5mm, CoCr			
Screw, Non-Locking, Big Head (VANB), 2.5mm, Ti			
Post, Clavicle Plate, Ti		16mm	3.8mm

PATIENT POSITIONING AND APPROACH

1

The procedure can be performed in the beach-chair position or supine position as per the surgeon's discretion.



ASSESS THE FRACTURE FLUOROSCOPICALLY

2



Examine the fracture based on intraoperative fluoroscopy.

EXPOSURE

3



Choose an approach based on surgeon preference.

Note: Careful consideration should be given to the acromioclavicular, coracoclavicular, and sternoclavicular ligaments to address potential soft tissue injuries that may be present.

4

REDUCTION

Debride the fracture sites and reduce fragments.

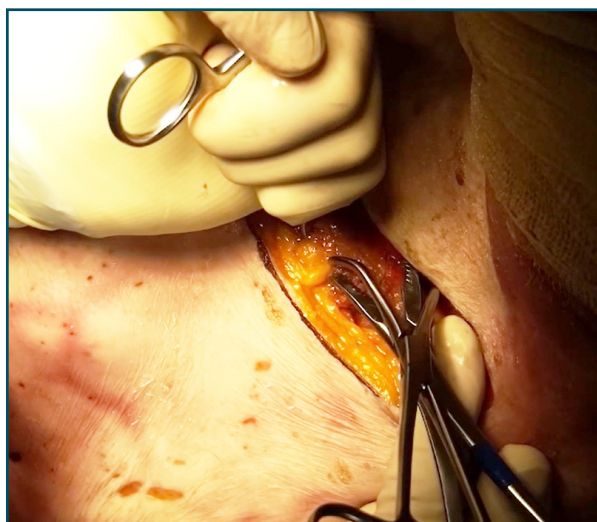
Bone Holding Forceps, Bone Clamps, or K-Wires may assist in achieving reduction.

Caution: Carefully place K-Wires as needed to avoid interference with final fixation.

Optional: Lag Screw

If the fracture does not require the use of a Lag Screw, proceed to plate selection.

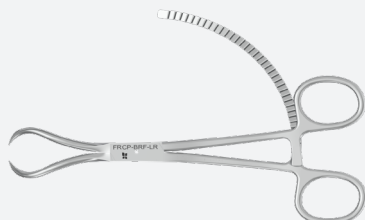
When needed, use a 2.5mm Compression Screw (VANB) for interfragmentary fixation. Overdrill with the 2.7mm bit, and use the 2.7mm Countersink to limit screw head prominence.



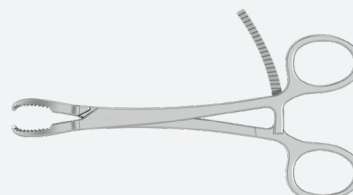
Countersink, 2.7mm
DRLL-CSK-27C



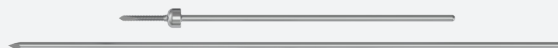
Drill, Solid Side Cutting, 2.0mm x 40mm
DRLL-SSC-20040



Reduction Forceps, Long Ratcheting
FRCP-BRF-LR



Forceps, Bone Holding Medium, Long Ratcheting
FRCP-BHM-LRT



K-Wire, 1.6mm, Treaded, Olive
KWR-TOD-16127

K-Wire, 1.6mm x 127mm
KWR-STD-15127

PLATE SELECTION

5

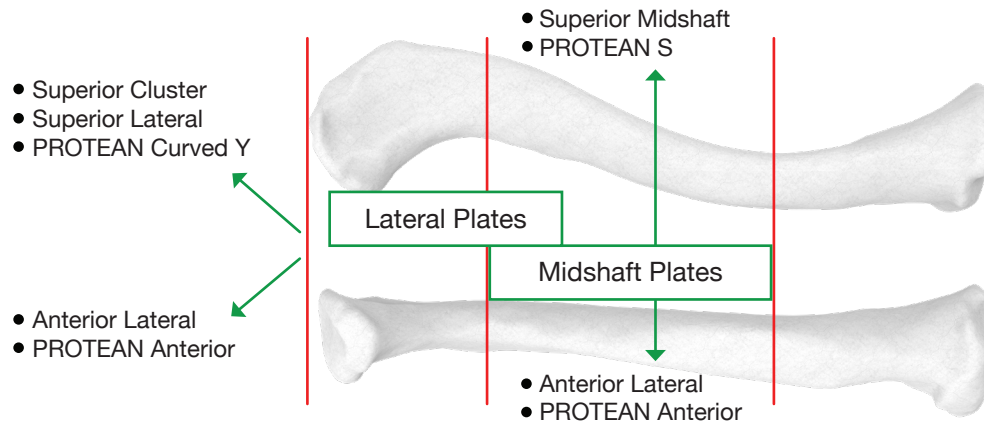


Figure 1: Plate offerings based on fracture location

Select the appropriate plate type and size depending on fracture location and complexity. See Figure 1 for recommended plate selection.

Note: Anterior plates are not side specific. Superior plates are side specific.

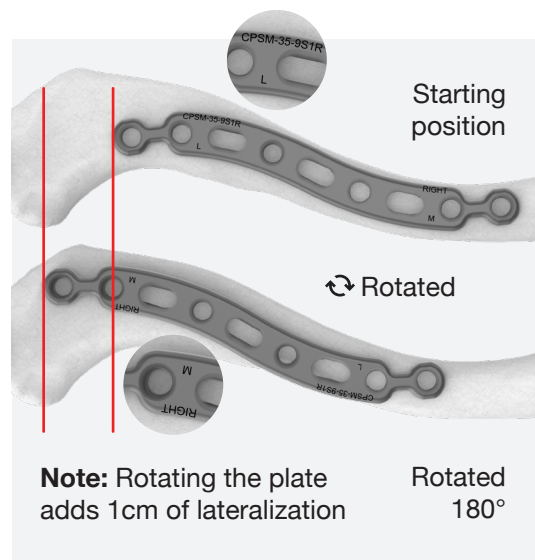
Note: Only the Superior Cluster and Superior Lateral allow for Orthogonal Fixation.

PLATE POSITIONING

6

After plate selection, confirm proper fit. If modifications are needed, see Step 7. If not, proceed to Step 8.

Note: If the fracture location is more lateral, the Superior Midshaft plates can be rotated 180° to optimize screw distribution.



7

OPTIONAL: PLATE BENDING

Due to the variability in clavicle anatomy, all plates can be contoured.

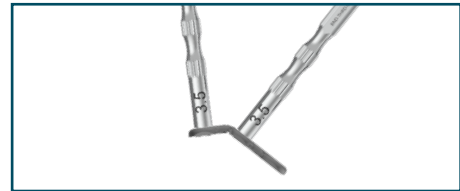
Plate Shortening: PROTEAN nodes may be removed to shorten the plate. Use the PROTEAN Pliers or Thread-In Plate Benders on either side of the desired internode. Bend the plate down past 90° to shorten.

Plate Bending: All plates are designed to be bent in the vertical plane. The plates with a bending section feature can additionally be bent horizontally or transversely. The following tools can be used: Plate Benders, Thread-In Plate Benders, PROTEAN Pliers.

Warning: Bending the plates may weaken or break the plates.



Note: PROTEAN Plate Bending Pliers pictured



Clavicle Plate Benders
BND-CFS



PROTEAN Plate Bending Pliers
PRT-BND-PLR
PROTEAN Plate Bending Pliers, Large
PRT-BND-PLL



Clavicle Thread-In Plate Benders
BND-THRD-CFS

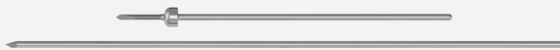
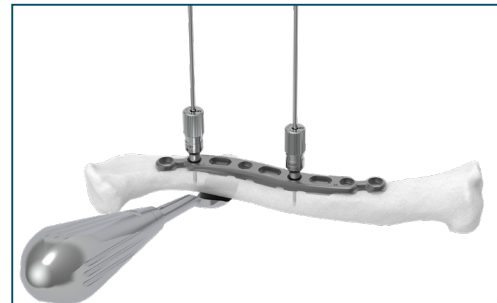
8

PROVISIONAL FIXATION

Once the desired position and fit is achieved, use K-Wires or Reduction Forceps for provisional fixation. Confirm positioning using fluoroscopy.

Thread-In K-Wire Guides are provided for insertion of 1.6mm K-Wires. Threaded Olive K-Wires are also available.

Caution: Avoid overpenetration of the inferior cortex to protect neurovascular structures. Use the Crego Elevator to help minimize the risk of over-penetration.



K-Wire, 1.6mm, Threaded, Olive
KWR-TOD-16127

K-Wire, 1.6mm x 127mm
KWR-STD-15127

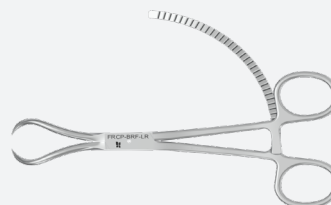


Thread-In K-Wire Guide, 2.7mm Hole
THKG-16-27H

Thread-In K-Wire Guide, 3.5mm Hole
THKG-16-35H



Crego Elevator, Full Curve, 14mm Wide
INST-CRG-14W



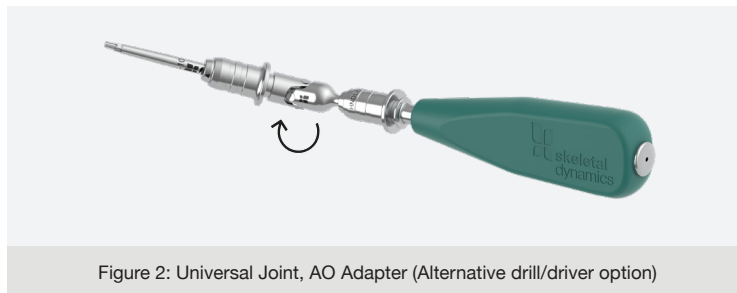
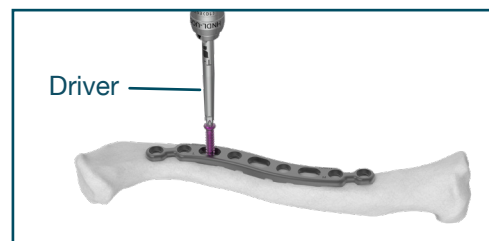
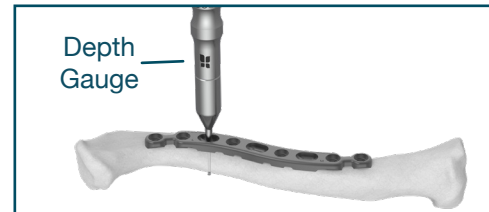
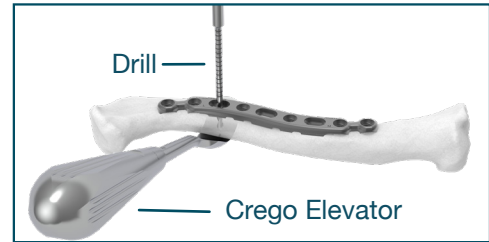
Reduction Forceps, Long Ratcheting
FRCP-BRF-LR

Drill bicortically through a slot using the appropriate drill size (based on plate selection).

Use the Depth Gauge to measure and then insert the appropriately sized Compression Screw (VAN).

Note: Alternative drilling and driving options are available to accommodate patient head positioning (see figure 2 below).

Caution: Avoid overpenetration of the inferior cortex to protect neurovascular structures. Use the Crego Elevator to help minimize the risk of over-penetration.



Handle, Universal QC, Fixed
HNDL-UQC-FXD

Handle, Universal QC, Ratcheting
HNDL-UQC-RTC

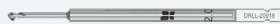


Universal Joint, AO Adapter
INST-UNJ



Depth Gauge, Universal, 30mm
DPGA-UNV-030

2.7 mm



Drill, 2.0mm x 18mm
DRLL-20018



Drill, Solid Side Cutting, 2.0mm x 40mm
DRLL-SSC-20040



Driver, T8, Short
DRVR-T8S



Driver, T8, Long
DRVR-T8L



Driver, Universal QC, T8
DRVR-UQC-T8

3.5 mm



Drill, 2.7mm x 18mm
DRLL-27018



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



Driver, T10, Short
DRVR-T10S



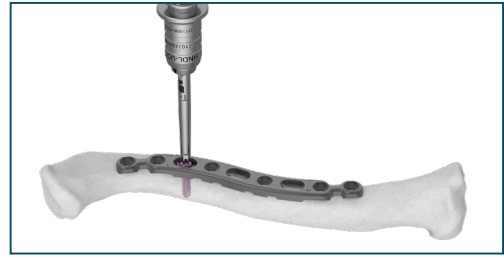
Driver, T10, Long
DRVR-T10L



Driver, Universal QC, T10
DRVR-UQC-T10

10 CONFIRM FRACTURE REDUCTION

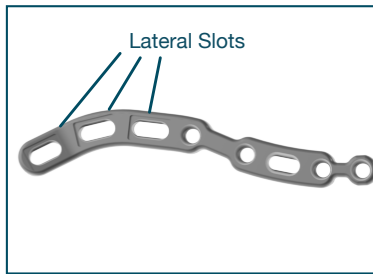
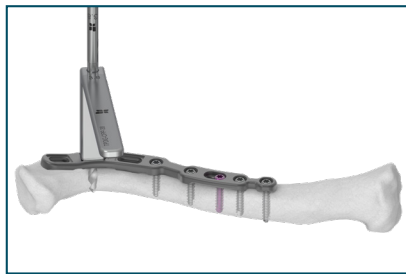
Confirm the fracture is fully reduced. Skip to Step 18 if not performing Orthogonal Fixation after reduction.



11 OPTIONAL: ORTHOGONAL FIXATION - DRILLING

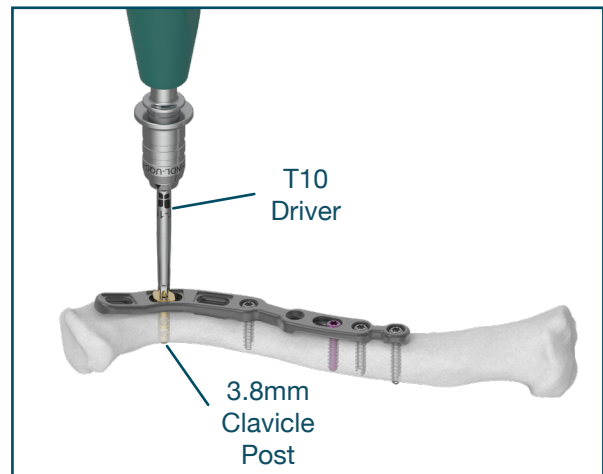
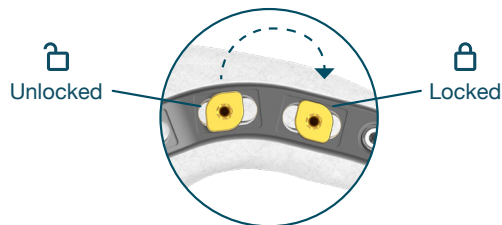
For fractures of the lateral clavicle, use the Superior Lateral Plate. Position the 3.8mm Tissue Protector Drill Guide in one of the lateral slots and drill bicortically with the 3.8mm Drill.

Caution: Avoid overpenetration of the inferior cortex to protect neurovascular structures.



12 OPTIONAL: ORTHOGONAL FIXATION - POST INSERTION AND LOCKING

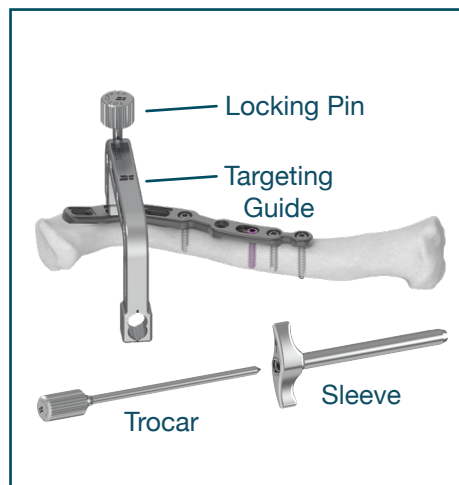
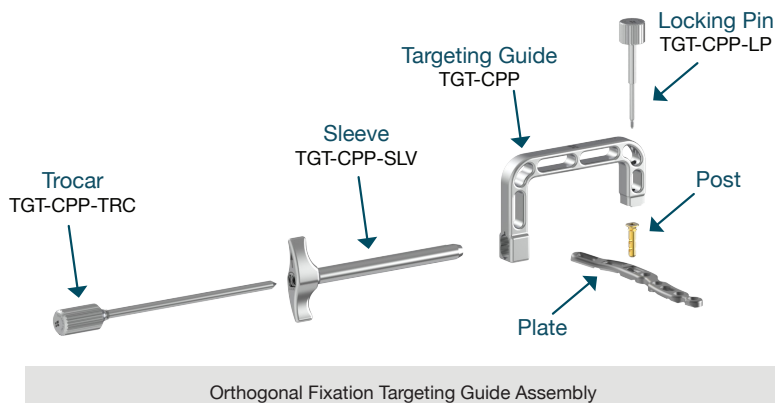
Using the T10 Driver, insert a Clavicle Post (see figure 3) and ensure it is fully seated in the plate. Turn 90° until the Clavicle Post locks into the slot on the plate.



OPTIONAL: ORTHOGONAL FIXATION - PREPARE POST TARGETING GUIDE

13

Use the Locking Pin to secure the Targeting Guide Assembly to the plate. Screw the Trocar into Targeting Guide Sleeve.



OPTIONAL: ORTHOGONAL FIXATION - ANTERIOR INCISION AND PREPARATION

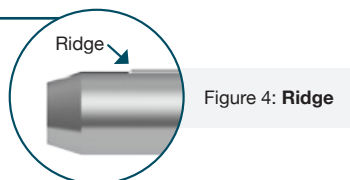
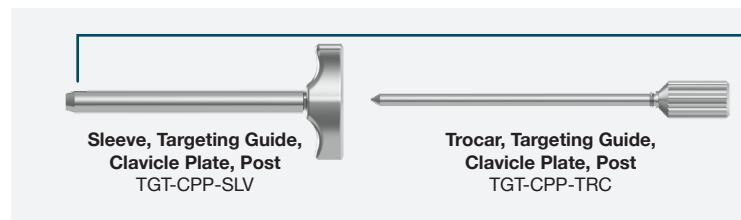
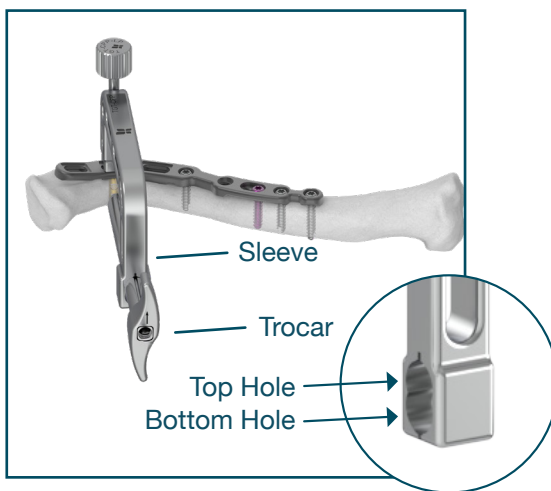
14

Select the top or bottom hole of the Targeting Guide. Insert Targeting Guide Sleeve and Trocar.

Create an incision on the lateral aspect of the clavicle in line with the tip of the Trocar.

Reach the anterior cortex with the Trocar. Unscrew the Trocar and continue to push the Targeting Guide Sleeve to ensure it is fully seated on the anterior cortex. Lock the Targeting Guide Sleeve by turning it clockwise.

Note: Ridge up for the top hole and ridge down for the bottom hole (see figure 4).

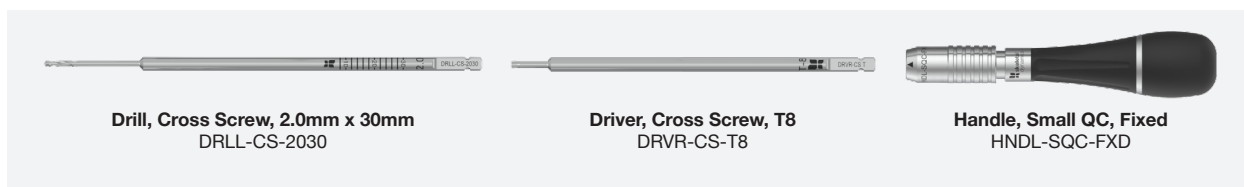


15

OPTIONAL: ORTHOGONAL FIXATION - CROSS SCREW DRILLING AND INSERTION

Drill bicortically through the Targeting Guide Sleeve using the 2.0mm Cross Screw Drill. Measure off the drill to determine screw size.

Insert the appropriate 2.5mm Compression Screw (VANB) using the T8 Cross Screw Driver.



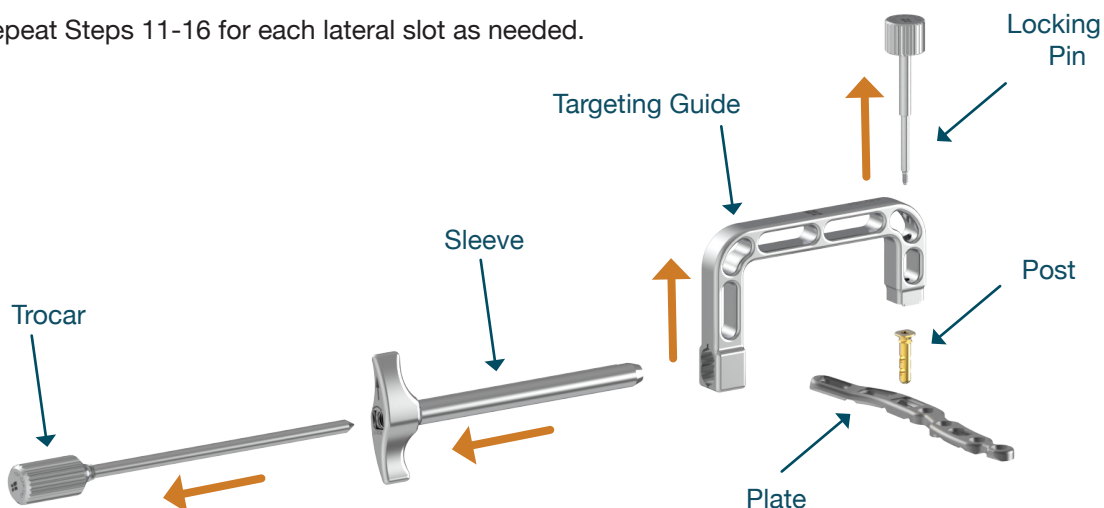
16

OPTIONAL: ORTHOGONAL FIXATION – REMOVE TARGETING GUIDE AND REPEAT

Remove Targeting Guide Sleeve.

Disengage Locking Pin and remove, along with the Targeting Guide.

Repeat Steps 11-16 for each lateral slot as needed.



OPTIONAL: ADDITIONAL FIXATION

17

If additional fixation is preferred, the following PROTEAN Plates are available: S, Curved Y, Anterior.

Drill bicortically using a 2.0mm drill. Measure using the Universal Depth Gauge. Insert the appropriate 2.5mm screws (VAN and/or VAL) using the T6 Driver.

Note: Avoid colliding screws during insertion.



INSTRUMENTS



Drill, 2.0mm x 18mm
DRLL-20018



Driver, T6
DRV-R-UQC-T6



Drill, Solid Side Cutting, 2.0mm x 40mm
DRLL-SSC-20040



Handle, Small QC, Fixed
HNDL-SQC-FXD



Depth Gauge, Universal, 30mm
DPGA-UNV-030

IMPLANTS



PROTEAN, Curved Y
PRT-CFS-CYN



Screw, Variable Angle Locking, 2.5mm, CoCr
VAL-25XX0-CL



Screw, Non-Locking, 2.5mm, Ti
VAN-25XX0-TS



PROTEAN, Anterior
PRT-CFS-ANT



PROTEAN, S
PRT-CFS-SX

18 COMPLETE PLATE FIXATION

Drill bicortically using the appropriate drill size for the remaining holes desired.

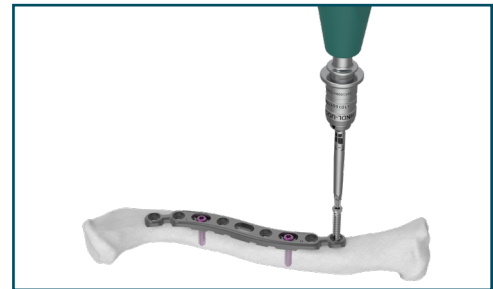
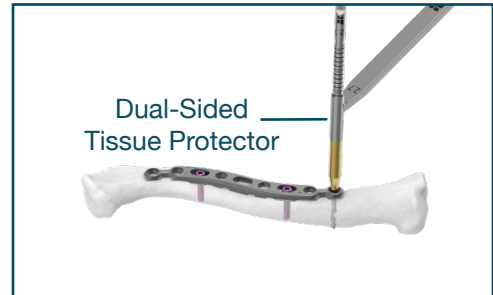
Use Dual-Sided Tissue Protector Drill Guide and drill bicortically.

Use the Depth Gauge to measure and then insert the appropriately sized Locking Screw (VAL) or Compression Screw (VAN), as desired.

Note: For off-axis drilling and Variable Angle Screws, the maximum cone of angulation is 15°.

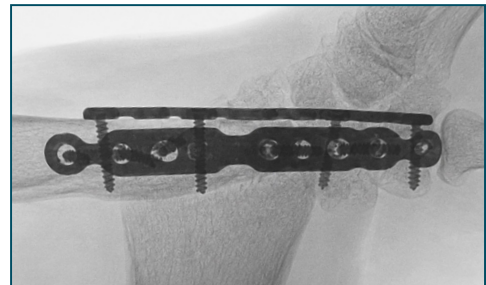
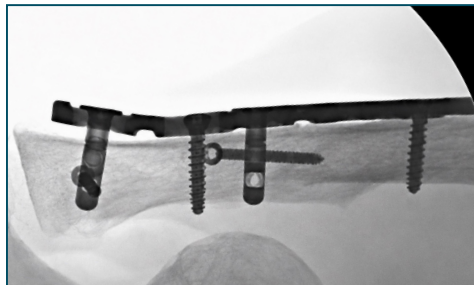
Note: To prevent over torquing, use the corresponding Torque Limiting Adapter provided.

Caution: Avoid overpenetration of the inferior cortex to protect neurovascular structures. Use the Crego Elevator to help minimize the risk of over-penetration.



19 FINAL VERIFICATION

Assess reduction, plate and screw/post placement using fluoroscopy.



20 CLOSURE

Verify that all screws are securely engaged. Close the wound in the usual manner.

21 REMOVAL

Clear any tissue overgrowth from the screw holes of the plate. Then, remove the screws by inserting the appropriate driver and turning it counterclockwise.

Once all the screws are removed, remove the plate.

1 EXPOSURE AND REDUCTION

Choose an approach based on surgeon preference. Debride the fracture sites and reduce fragments.



2 PLATE SELECTION AND PROVISIONAL FIXATION

Select the appropriate plate type and size depending on fracture location and complexity.

Use K-Wires or Reduction Forceps for provisional fixation. Confirm positioning using fluoroscopy.

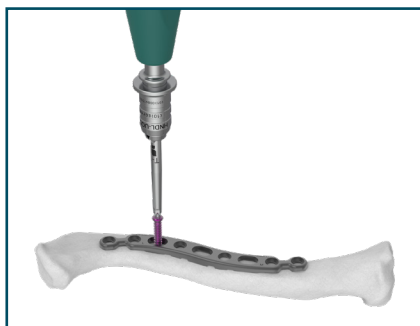


3 PLATE FIXATION

Drill bicortically through a slot using the appropriate drill size.

Use the Depth Gauge to measure and then insert the appropriately sized Compression Screw (VAN).

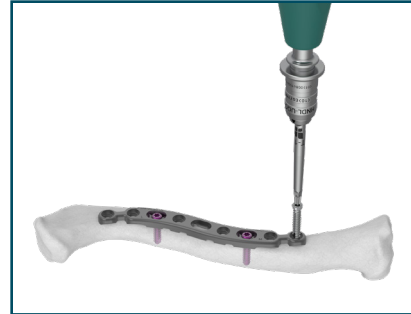
Confirm the fracture is fully reduced.



4 COMPLETE FIXATION

Drill bicortically using the appropriate drill size for the remaining holes desired.

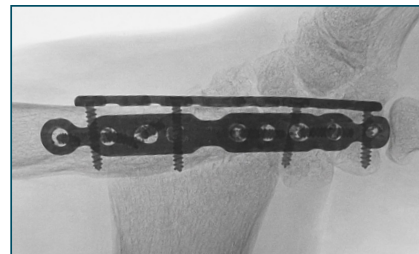
Use the Depth Gauge to measure and then insert the appropriately sized Locking Screw (VAL) or Compression Screw (VAN), as desired.



5 FINAL VERIFICATION AND CLOSURE

Assess reduction, plate and screw/post placement using fluoroscopy.

Close the wound in the usual manner.



1 EXPOSURE AND REDUCTION

Choose approach based on surgeon preference.

Debride the fracture sites and reduce fragments.



2 PROVISIONAL FIXATION

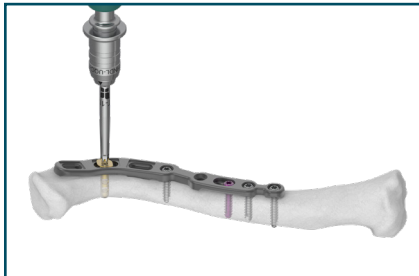
Use K-Wires or Reduction Forceps for provisional fixation. Confirm positioning using fluoroscopy.

3 PLATE FIXATION

Drill bicortically through a slot using the appropriate drill size.

Use the Depth Gauge to measure and then insert the appropriately sized Compression Screw (VAN).

Confirm the fracture is fully reduced.



4 LATERAL POST FIXATION

Position the 3.8mm Tissue Protector Drill Guide in a lateral slot and drill bicortically with the 3.8mm Drill.

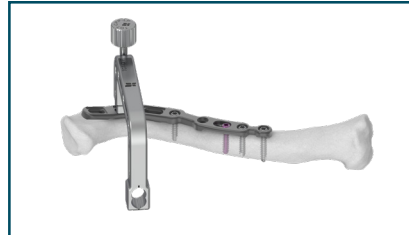
Using the T10 Driver, insert a Clavicle Post and ensure it is fully seated in the plate. Turn 90° until the Clavicle Post locks into the slot.



5 ASSEMBLE POST TARGETING GUIDE

Use the Locking Pin to secure the Targeting Guide assembly to the plate.

Select the top or bottom hole of the Targeting Guide. Insert Targeting Guide Sleeve and Trocar.



6 PREPARE FOR INSERTION

Create an incision on the lateral aspect of the clavicle in line with the tip of the Trocar. Reach the anterior cortex with the Trocar. Remove the Trocar and continue to push the Targeting Guide Sleeve to ensure it is fully seated on the anterior cortex. Lock the Targeting Guide Sleeve by turning it clockwise.

7 CROSS SCREW INSERTION

Drill bicortically through the Targeting Guide Sleeve using the 2.0mm Cross Screw Drill. Measure off the drill to determine screw size.

Insert the appropriate 2.5mm Compression Screw (VANB) using the T8 Cross Screw Driver.



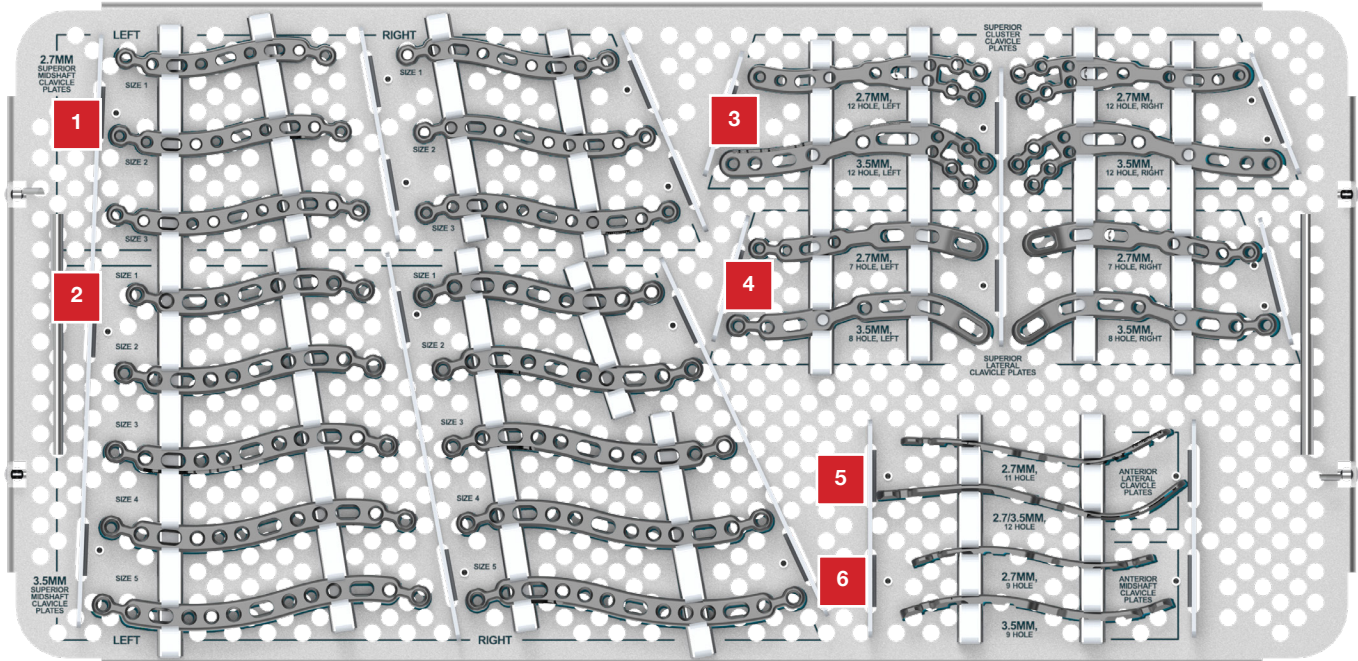
8 REMOVE TARGETING GUIDE

Remove Targeting Guide Sleeve. Disengage Locking Pin and remove, along with the Targeting Guide.

9 FINAL VERIFICATION AND CLOSURE

Assess reduction, plate and screw/post placement using fluoroscopy. Close the wound in the usual manner.

TRAY A



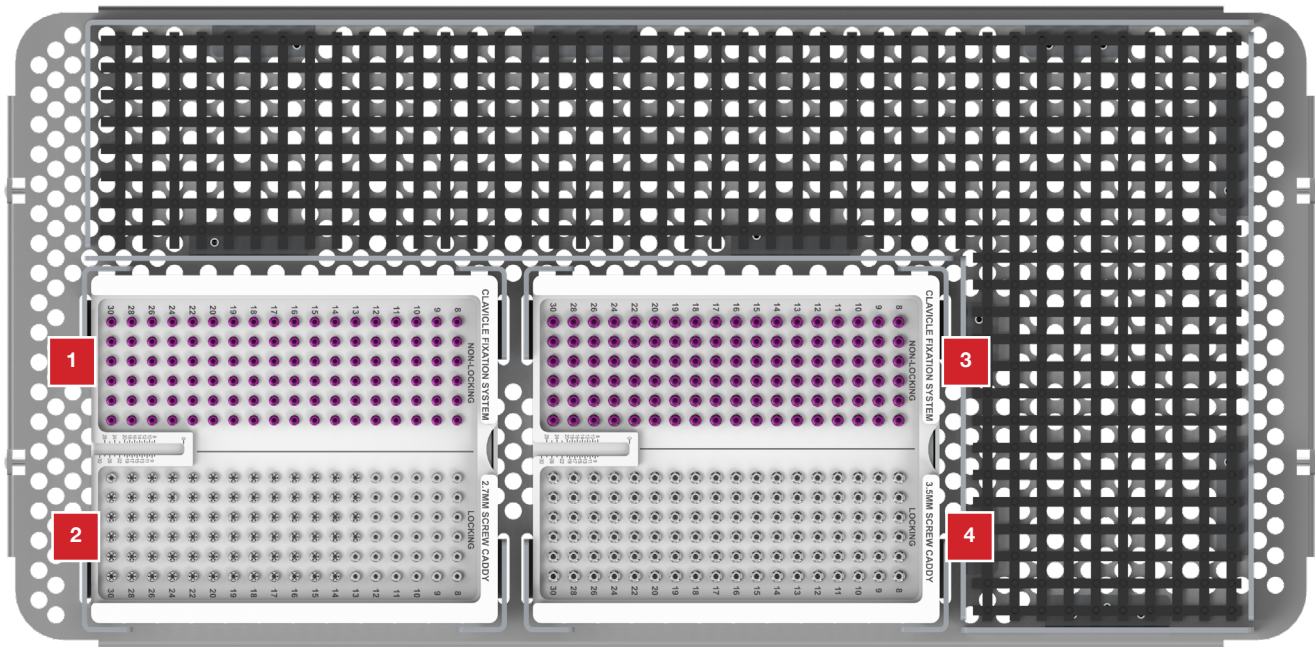
Loc # Catalog # Description

1	CPSM-27-8S1R	Superior Midshaft, 2.7mm, Size 1, 8 Hole, Right, Ti
	CPSM-27-8S1L	Superior Midshaft, 2.7mm, Size 1, 8 Hole, Left, Ti
	CPSM-27-9S1R	Superior Midshaft, 2.7mm, Size 1, 9 Hole, Right, Ti
	CPSM-27-9S1L	Superior Midshaft, 2.7mm, Size 1, 9 Hole, Left, Ti
	CPSM-27-9S2R	Superior Midshaft, 2.7mm, Size 2, 9 Hole, Right, Ti
	CPSM-27-9S2L	Superior Midshaft, 2.7mm, Size 2, 9 Hole, Left, Ti
	CPSM-27-10S2R	Superior Midshaft, 2.7mm, Size 2, 10 Hole, Right, Ti
	CPSM-27-10S2L	Superior Midshaft, 2.7mm, Size 2, 10 Hole, Left, Ti
	CPSM-27-10S3R	Superior Midshaft, 2.7mm, Size 3, 10 Hole, Right, Ti
	CPSM-27-10S3L	Superior Midshaft, 2.7mm, Size 3, 10 Hole, Left, Ti
	CPSM-27-11S3R	Superior Midshaft, 2.7mm, Size 3, 11 Hole, Right, Ti
	CPSM-27-11S3L	Superior Midshaft, 2.7mm, Size 3, 11 Hole, Left, Ti
2	CPSM-35-8S1R	Superior Midshaft, 3.5mm, Size 1, 8 Hole, Right, Ti
	CPSM-35-8S1L	Superior Midshaft, 3.5mm, Size 1, 8 Hole, Left, Ti
	CPSM-35-9S1R	Superior Midshaft, 3.5mm, Size 1, 9 Hole, Right, Ti
	CPSM-35-9S1L	Superior Midshaft, 3.5mm, Size 1, 9 Hole, Left, Ti
	CPSM-35-9S2R	Superior Midshaft, 3.5mm, Size 2, 9 Hole, Right, Ti
	CPSM-35-9S2L	Superior Midshaft, 3.5mm, Size 2, 9 Hole, Left, Ti
	CPSM-35-10S2R	Superior Midshaft, 3.5mm, Size 2, 10 Hole, Right, Ti
	CPSM-35-10S2L	Superior Midshaft, 3.5mm, Size 2, 10 Hole, Left, Ti
	CPSM-35-10S3R	Superior Midshaft, 3.5mm, Size 3, 10 Hole, Right, Ti
	CPSM-35-10S3L	Superior Midshaft, 3.5mm, Size 3, 10 Hole, Left, Ti
	CPSM-35-11S3R	Superior Midshaft, 3.5mm, Size 3, 11 Hole, Right, Ti
	CPSM-35-11S3L	Superior Midshaft, 3.5mm, Size 3, 11 Hole, Left, Ti

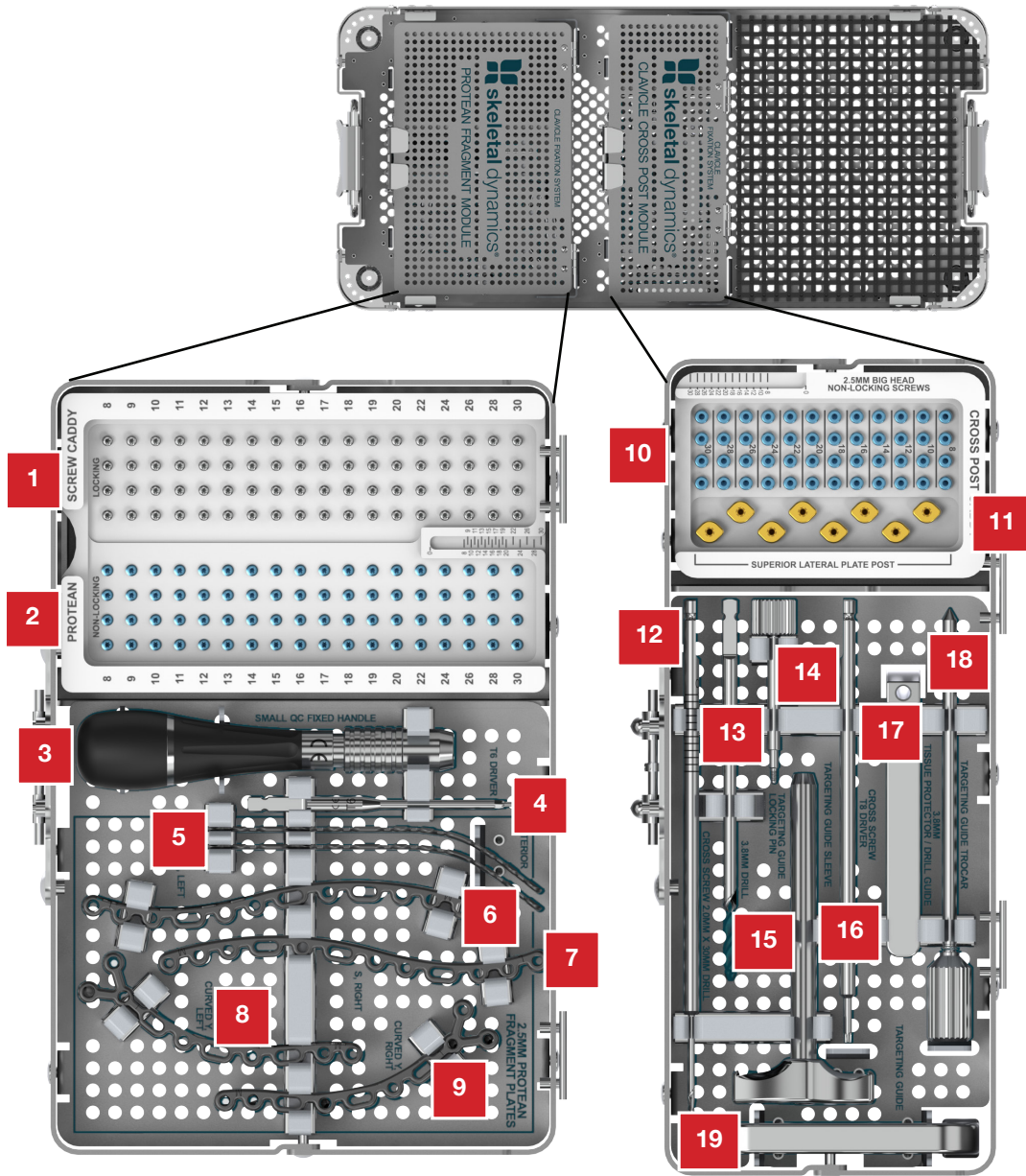
Loc # Catalog # Description

3	CPSM-35-11S4R	Superior Midshaft, 3.5mm, Size 4, 11 Hole, Right, Ti
	CPSM-35-11S4L	Superior Midshaft, 3.5mm, Size 4, 11 Hole, Left, Ti
	CPSM-35-12S4R	Superior Midshaft, 3.5mm, Size 4, 12 Hole, Right, Ti
	CPSM-35-12S4L	Superior Midshaft, 3.5mm, Size 4, 12 Hole, Left, Ti
	CPSM-35-12S5R	Superior Midshaft, 3.5mm, Size 5, 12 Hole, Right, Ti
	CPSM-35-12S5L	Superior Midshaft, 3.5mm, Size 5, 12 Hole, Left, Ti
	CPSM-35-13S5R	Superior Midshaft, 3.5mm, Size 5, 13 Hole, Right, Ti
4	CPSC-27-12R	Superior Cluster, 2.7mm, 12 Hole, Right, Ti
	CPSC-27-12L	Superior Cluster, 2.7mm, 12 Hole, Left, Ti
	CPSC-35-12R	Superior Cluster, 3.5mm, 12 Hole, Right, Ti
	CPSC-35-12L	Superior Cluster, 3.5mm, 12 Hole, Left, Ti
5	CPSL-27-7R	Superior Lateral, 2.7mm, 7 Hole, Right, Ti
	CPSL-27-7L	Superior Lateral, 2.7mm, 7 Hole, Left, Ti
	CPSL-35-8R	Superior Lateral, 3.5mm, 8 Hole, Right, Ti
	CPSL-35-8L	Superior Lateral, 3.5mm, 8 Hole, Left, Ti
6	CPAL-27-11	Anterior Lateral, 2.7mm, 11 Hole, Ti
	CPAL-2735-12	Anterior Lateral, 2.7/3.5mm, 12 Hole, Ti

TRAY A

[illegible]

TRAY A



Loc # Catalog # Description

1	VAL-25080-CC	Screw, Variable Angle Locking, 2.5mm x 8mm, CoCr
	VAL-25090-CC	Screw, Variable Angle Locking, 2.5mm x 9mm, CoCr
	VAL-25100-CC	Screw, Variable Angle Locking, 2.5mm x 10mm, CoCr
	VAL-25110-CC	Screw, Variable Angle Locking, 2.5mm x 11mm, CoCr
	VAL-25120-CC	Screw, Variable Angle Locking, 2.5mm x 12mm, CoCr
	VAL-25130-CC	Screw, Variable Angle Locking, 2.5mm x 13mm, CoCr
	VAL-25140-CC	Screw, Variable Angle Locking, 2.5mm x 14mm, CoCr
	VAL-25150-CC	Screw, Variable Angle Locking, 2.5mm x 15mm, CoCr
	VAL-25160-CC	Screw, Variable Angle Locking, 2.5mm x 16mm, CoCr
	VAL-25170-CC	Screw, Variable Angle Locking, 2.5mm x 17mm, CoCr
	VAL-25180-CC	Screw, Variable Angle Locking, 2.5mm x 18mm, CoCr
	VAL-25190-CC	Screw, Variable Angle Locking, 2.5mm x 19mm, CoCr
	VAL-25200-CC	Screw, Variable Angle Locking, 2.5mm x 20mm, CoCr
	VAL-25220-CC	Screw, Variable Angle Locking, 2.5mm x 22mm, CoCr
	VAL-25240-CC	Screw, Variable Angle Locking, 2.5mm x 24mm, CoCr
	VAL-25260-CC	Screw, Variable Angle Locking, 2.5mm x 26mm, CoCr
	VAL-25280-CC	Screw, Variable Angle Locking, 2.5mm x 28mm, CoCr
	VAL-25300-CC	Screw, Variable Angle Locking, 2.5mm x 30mm, CoCr

2	VAN-25080-TS	Screw, Non-Locking, 2.5mm x 8mm, Ti
	VAN-25090-TS	Screw, Non-Locking, 2.5mm x 9mm, Ti

Loc # Catalog # Description

2	VAN-25100-TS	Screw, Non-Locking, 2.5mm x 10mm, Ti
	VAN-25110-TS	Screw, Non-Locking, 2.5mm x 11mm, Ti
	VAN-25120-TS	Screw, Non-Locking, 2.5mm x 12mm, Ti
	VAN-25130-TS	Screw, Non-Locking, 2.5mm x 13mm, Ti
	VAN-25140-TS	Screw, Non-Locking, 2.5mm x 14mm, Ti
	VAN-25150-TS	Screw, Non-Locking, 2.5mm x 15mm, Ti
	VAN-25160-TS	Screw, Non-Locking, 2.5mm x 16mm, Ti
	VAN-25170-TS	Screw, Non-Locking, 2.5mm x 17mm, Ti
	VAN-25180-TS	Screw, Non-Locking, 2.5mm x 18mm, Ti
	VAN-25190-TS	Screw, Non-Locking, 2.5mm x 19mm, Ti
	VAN-25200-TS	Screw, Non-Locking, 2.5mm x 20mm, Ti
	VAN-25220-TS	Screw, Non-Locking, 2.5mm x 22mm, Ti
	VAN-25240-TS	Screw, Non-Locking, 2.5mm x 24mm, Ti
	VAN-25260-TS	Screw, Non-Locking, 2.5mm x 26mm, Ti
	VAN-25280-TS	Screw, Non-Locking, 2.5mm x 28mm, Ti
	VAN-25300-TS	Screw, Non-Locking, 2.5mm x 30mm, Ti

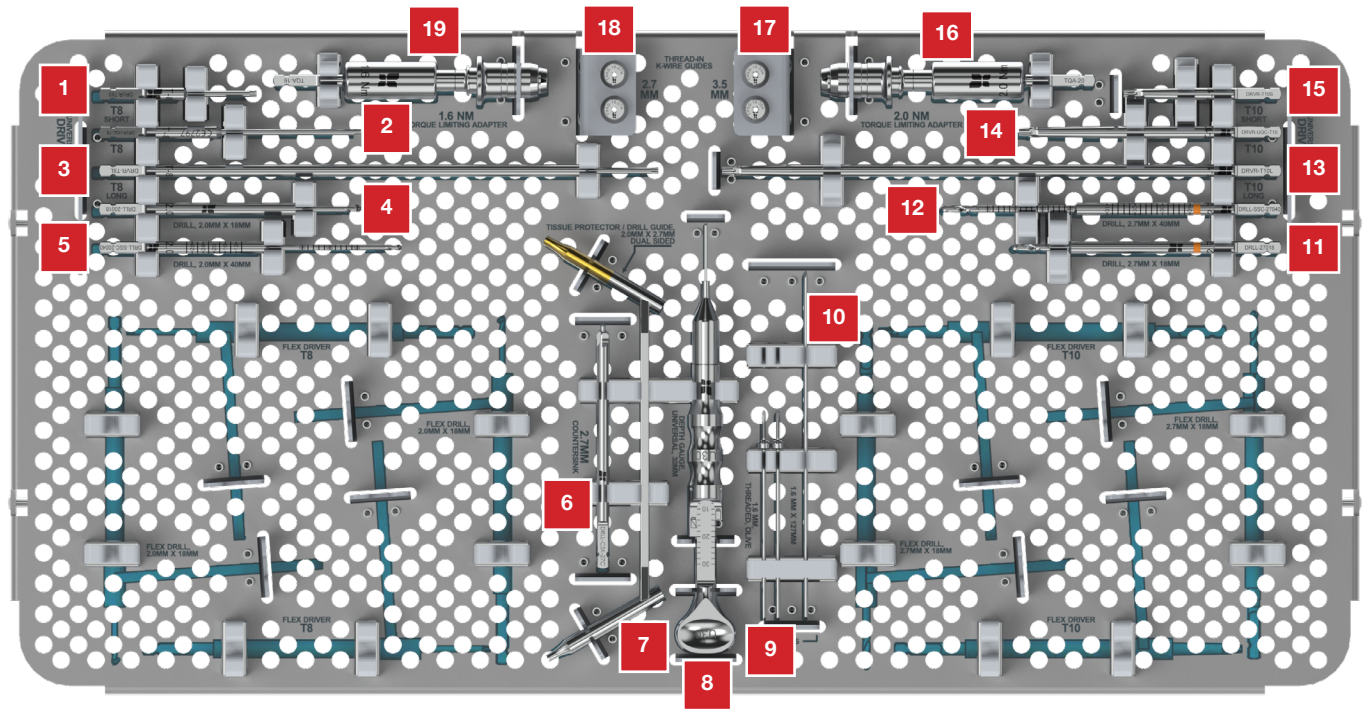
3	HNDL-SQC-FXD	Handle, Small QC, Fixed
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4	DRVR-UQC-T6	Driver, T6
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TRAY A (CONT'D.)

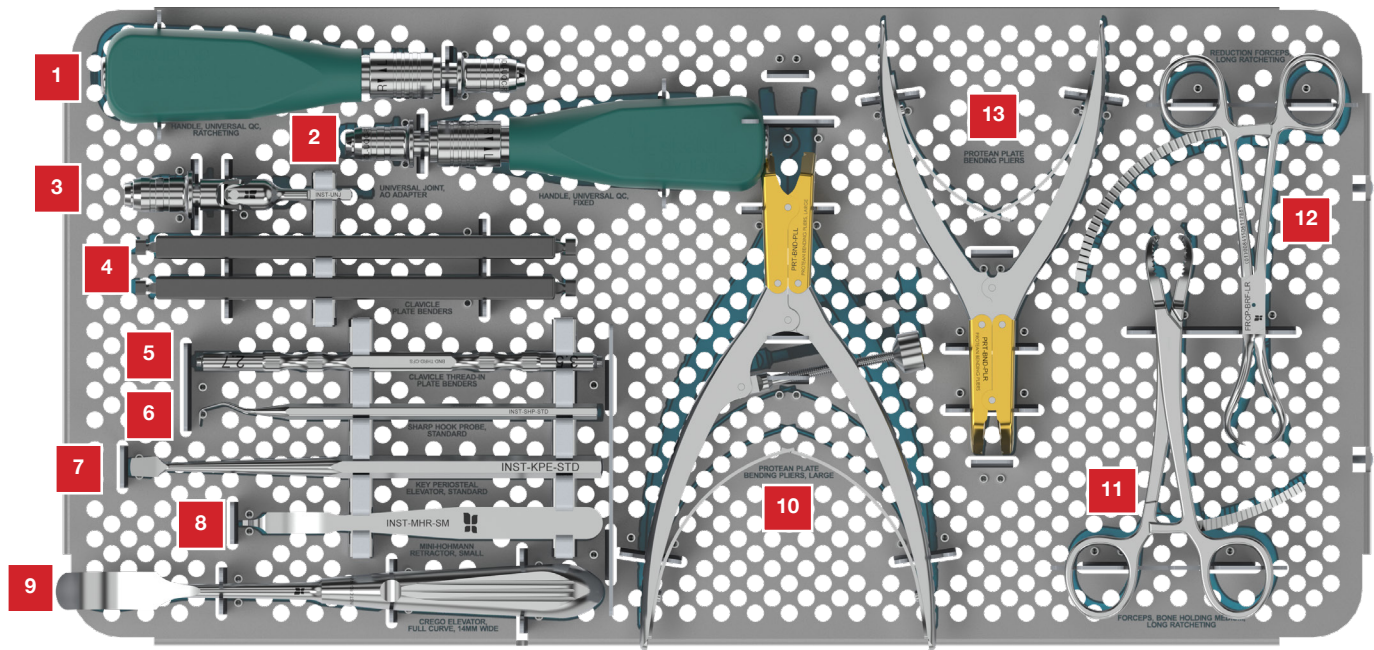
Loc #	Catalog #	Description	Loc #	Catalog #	Description
5	PRT-CFS-ANT	PROTEAN Fragment Plate, Anterior, 2.5mm, Ti	10	VANB-25280-TS	Screw, Non-Locking, Big Head, 2.5mm x 28mm, Ti
6	PRT-CFS-SL	PROTEAN Fragment Plate, S, 2.5mm, Left, Ti		VANB-25300-TS	Screw, Non-Locking, Big Head, 2.5mm x 30mm, Ti
7	PRT-CFS-SR	PROTEAN Fragment Plate, S, 2.5mm, Right, Ti	11	POST-CP	Post, Clavicle Plate, Ti
8	PRT-CFS-CYL	PROTEAN Fragment Plate, Curved Y, 2.5mm, Left, Ti	12	DRLL-CS-2030	Drill, Cross Screw, 2.0mm x 30mm
9	PRT-CFS-CYR	PROTEAN Fragment Plate, Curved Y, 2.5mm, Right, Ti	13	DRLL-POST-38	Drill, Post, 3.8mm
10	VANB-25080-TS	Screw, Non-Locking, Big Head, 2.5mm x 8mm, Ti	14	TGT-CPP-LP	Locking Pin, Targeting Guide, Clavicle Plate, Post
	VANB-25100-TS	Screw, Non-Locking, Big Head, 2.5mm x 10mm, Ti	15	TGT-CPP-SLV	Sleeve, Targeting Guide, Clavicle Plate, Post
	VANB-25120-TS	Screw, Non-Locking, Big Head, 2.5mm x 12mm, Ti	16	DRVR-CS-T8	Driver, Cross Screw, T8
	VANB-25140-TS	Screw, Non-Locking, Big Head, 2.5mm x 14mm, Ti	17	TPDG-CPP-38	Tissue Protector / Drill Guide, Clavicle Plate, Post, 3.8mm
	VANB-25160-TS	Screw, Non-Locking, Big Head, 2.5mm x 16mm, Ti	18	TGT-CPP-TRC	Trocar, Targeting Guide, Clavicle Plate, Post
	VANB-25180-TS	Screw, Non-Locking, Big Head, 2.5mm x 18mm, Ti	19	TGT-CPP	Targeting Guide, Clavicle Plate, Post
	VANB-25200-TS	Screw, Non-Locking, Big Head, 2.5mm x 20mm, Ti			
	VANB-25220-TS	Screw, Non-Locking, Big Head, 2.5mm x 22mm, Ti			
	VANB-25240-TS	Screw, Non-Locking, Big Head, 2.5mm x 24mm, Ti			
	VANB-25260-TS	Screw, Non-Locking, Big Head, 2.5mm x 26mm, Ti			

TRAY B



Loc #	Catalog #	Description	Loc #	Catalog #	Description
1	DRVR-T8S	Driver, T8, Short	11	DRLL-27018	Drill, 2.7mm x 18mm
2	DRVR-UQC-T8	Driver, Universal QC, T8	12	DRLL-SSC-27040	Drill, 2.7mm x 40mm
3	DRVR-T8L	Driver, T8, Long	13	DRVR-T10L	Driver, T10, Long
4	DRLL-20018	Drill, 2.0mm x 18mm	14	DRVR-UQC-T10	Driver, Universal Quick Connect, T10
5	DRLL-SSC-20040	Drill, Solid Side Cutting, 2.0mm x 40mm	15	DRVR-T10S	Driver, T10, Short
6	DRLL-CSK-27C	Countersink, 2.7mm	16	TQA-20	AO to AO Torque Adapter, 2.0 Nm
7	TPDG-CFS-2027	Tissue Protector/Drill Guide, Dual Sided, 2.0mm x 2.7mm, CFS	17	THKG-16-35H	Thread-In K-Wire Guide, 3.5mm Hole
8	DPGA-UNV-030	Depth Gauge, Universal, 30mm	18	THKG-16-27H	Thread-In K-Wire Guide, 2.7mm Hole
9	KWIR-TOD-16127	K-Wire, 1.6 mm, Threaded, Olive	19	TQA-16	AO to AO Torque Adapter, 1.6 Nm
10	KWIR-STD-15127	K-Wire, 1.6 mm x 127mm			

TRAY B



Loc #	Catalog #	Description	Loc #	Catalog #	Description
1	HNDL-UQC-RTC	Handle, Universal QC, Ratcheting	8	INST-MHR-SM	Instrument, Mini-Hohmann Retractor, Small
2	HNDL-UQC-FXD	Handle, Universal QC, Fixed	9	INST-CRG-14W	Crego Elevator, Full Curve, 14mm Wide
3	INST-UNJ	Universal Joint, AO Adapter	10	PRT-BND-PLL	PROTEAN Plate Bending Pliers, Large
4	BND-CFS	Clavicle Plate Benders	11	FRCP-BHM-LRT	Forceps, Bone Holding Medium, Long Ratcheting
5	BND-THRD-CFS	Clavicle Thread-In Plate Benders	12	FRCP-BRF-LR	Reduction Forceps, Long Ratcheting
6	INST-SHP-STD	Instrument, Sharp Hook Probe, Standard	13	PRT-BND-PLR	PROTEAN Plate Bending Pliers
7	INST-KPE-STD	Instrument, Key Periosteal Elevator, Standard			



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