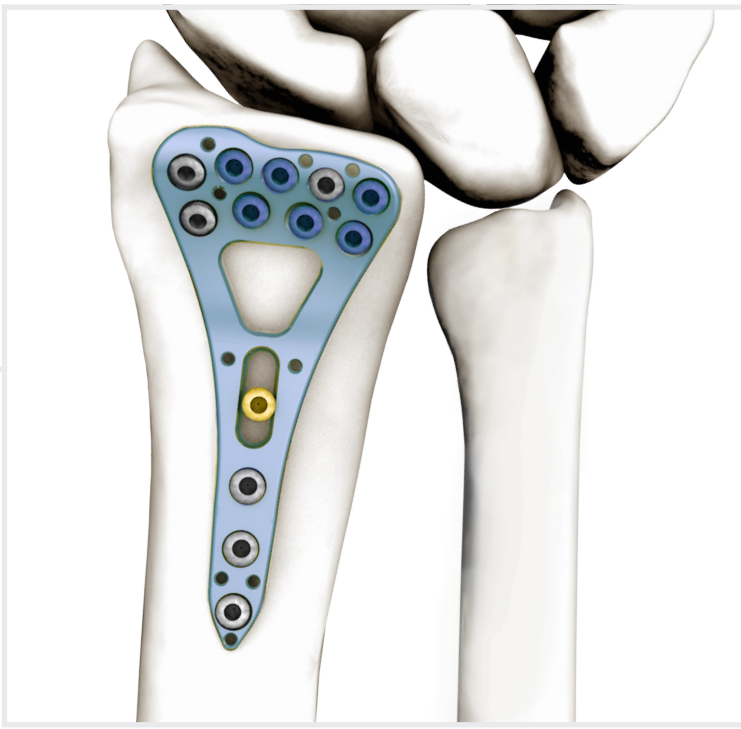
DISTAL/PROXIMAL RADIUS
LOCKING PLATE & SCREW SYSTEM

SURGICAL TECHNIQUE



TDMUSA

DISTAL/PROXIMAL RADIUS LOCKING PLATE & SCREW SYSTEM

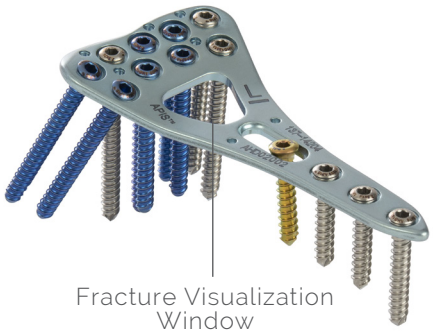
THE DISTAL/PROXIMAL RADIUS LOCKING PLATE AND SCREW SYSTEM offers multiple fixation and size options in a variety of configurations. Plates in this system are intended for use in the distal radius and radial head. The low-profile, 1.5mm thick plates are constructed of titanium and are used with 2.5mm titanium alloy locking and non-locking screws, ranging in length from 10-30mm. Screw options include Small Head Locking Screws, Blunt Tip Locking Screws, or Low Profile Cortical Screws.

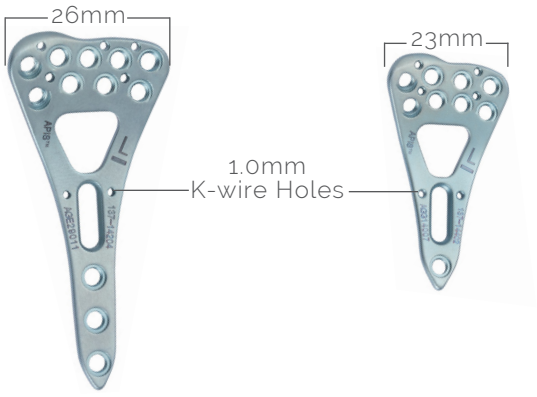
DISTAL RADIUS LOCKING PLATE OPTIONS

DISTAL RADIUS
2 to 10 Hole
Left and Right
Standard and Small

PROXIMAL RADIUS
2 to 5 Hole
Standard and Buttress

DISTAL RADIUS LOCKING PLATE FEATURES





Standard
9 Hole Head

Small
8 Hole Head

1

FRACTURE REDUCTION & PLATE POSITIONING

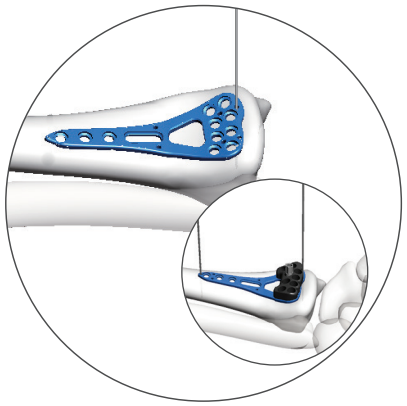
Using direct and indirect methods, reduce the fracture and stabilize with bone clamps and temporary fixation K-wires.

Select the appropriate plate. If using the **Drill Guide Block**, attach it using the **2.5mm Hex Screwdriver**.

Position the plate on the distal radius and insert temporary fixation **1.0mm K-wires** through the distal and proximal K-wire holes to hold it in place.

Note: *The plate is designed to sit proximal to the margin of the watershed line.*

Check plate positioning radiographically.



2

INITIAL PLATE FIXATION

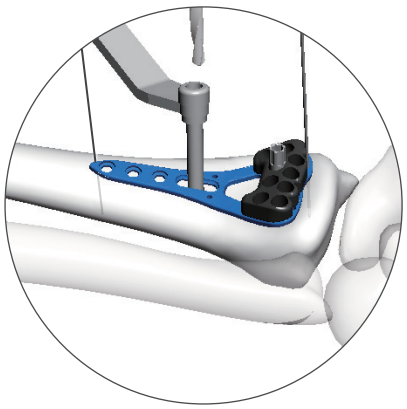
Starting in the center of the slotted hole in the plate shaft, drill with the **2.0mm Drill Bit**.

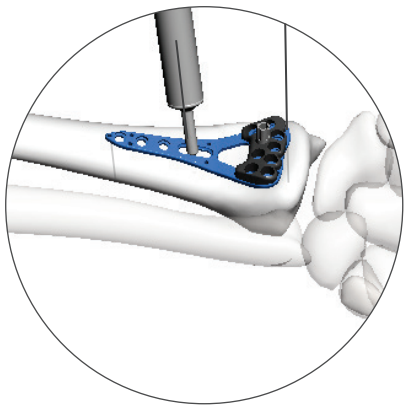
Use the **Depth Gauge** to determine appropriate screw length.

Note: *The Depth Gauge reading will place the screw tip slightly beyond the bone in order to ensure fixation in the far cortex. For screw insertion without protrusion, use a screw one size smaller than the measured length.*

Insert a **2.5mm Cortical Screw** with the **1.5mm Hex Screwdriver**.

Note: *Using the slotted center hole allows proximal/distal adjustment if needed.*





3

DISTAL FIXATION

Continue screw insertion in the distal screw holes.

Using the **2.0mm Drill Bit**, drill through the appropriate **Drill Sleeve** for the selected screw.

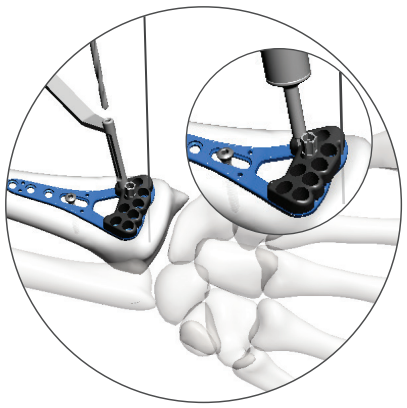
2.5mm Cortical Screws

- 2.0mm Single Handle Locking Drill Sleeve

2.5mm Locking Screws, Small Head

2.5mm Locking Screws, Blunt Tip

- 2.0mm Locking Drill Sleeve **or**
- 2.0mm Single Handle Locking Drill Sleeve for insertion through Drill Guide Block

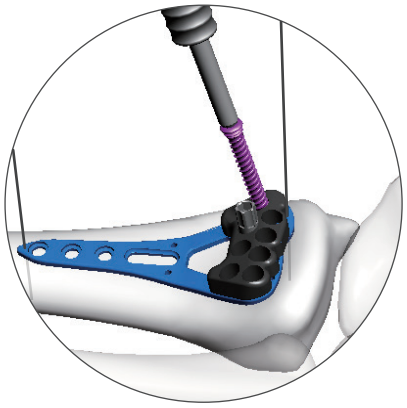


Use the **Depth Gauge** to determine appropriate screw length.

Insert **2.5mm Screws** with the **Torque Limiting Handle, 0.6Nm** and the **1.5mm Hex Screwdriver**.

Ensure each major fragment is fixed with at least two screws.

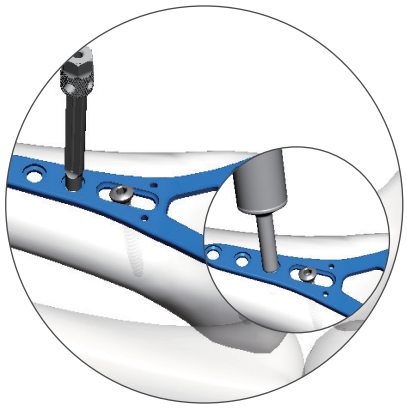
Confirm screw placement radiographically, ensuring screws do not extend into the joint or beyond the dorsal cortex.

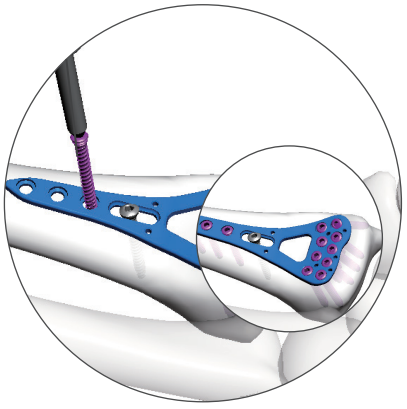


4

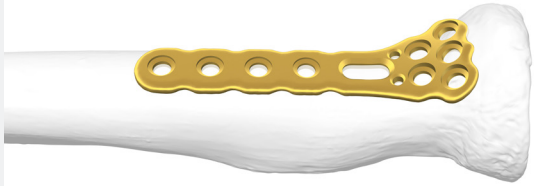
PROXIMAL FIXATION

Using the techniques above, insert locking or cortical screws in the proximal shaft of the plate as appropriate for the fracture and patient.



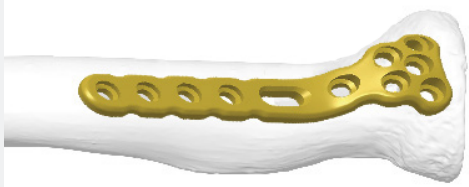


The system offers two plate options for the proximal radius:



PROXIMAL RADIUS LOCKING PLATE

Designed to sit more distal for a neck fracture



PROXIMAL RADIUS LOCKING PLATE, BUTTRESS

Designed to sit more proximal to buttress the radial head rim

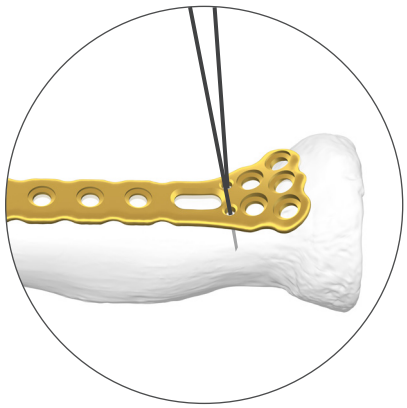
1

FRACTURE REDUCTION & PLATE POSITIONING

Reduce the fracture and hold the fragments in place with temporary fixation K-wires.

Select the appropriate plate. Position the plate on the proximal radius and use temporary fixation **1.0mm K-wires** to hold the plate in place. Plate placement should remain within the safe zone defined by an arc from Lister's tubercle to the radial styloid extended proximally.

Check plate positioning radiographically.



2

INSERT FIXATION

Using the **2.0mm Drill Bit**, drill through the appropriate **Drill Sleeve** for the selected screw.

2.5mm Cortical Screws

- 2.0mm Single Handle Locking Drill Sleeve

2.5mm Locking Screws, Small Head

2.5mm Locking Screws, Blunt Tip

- 2.0mm Locking Drill Sleeve

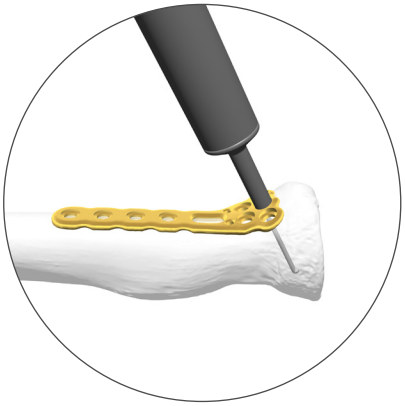
Use the **Depth Gauge** to determine appropriate screw length.

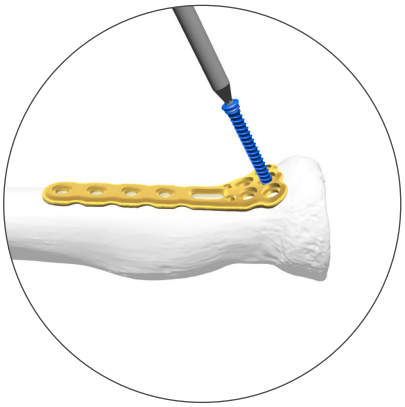
***Note**: The Depth Gauge reading will place the screw tip slightly beyond the bone in order to ensure fixation in the far cortex. For screw insertion without protrusion, use a screw one size smaller than the measured length.*

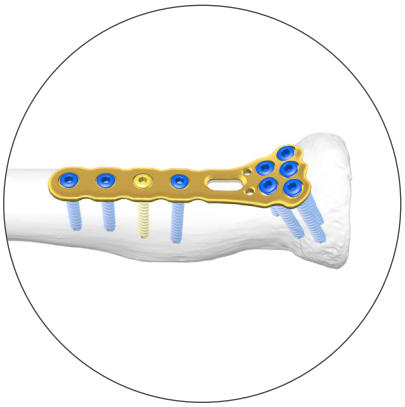
Insert **2.5mm Screws** with the **Torque Limiting Handle, 0.6Nm** and the **1.5mm Hex Screwdriver**.

Ensure each major fragment is fixed with at least two screws.

Confirm screw placement radiographically, ensuring screws do not extend into the joint.







IMPLANT REMOVAL (IF NECESSARY)

Fully expose the plate and screws, including removing any bone or soft-tissue growth into the screw heads.

Using the corresponding Screwdriver, unlock all screws from the plate to prevent plate rotation during removal. Remove all screws fully from the construct.

Remove the plate from the bone using an elevator, osteotome, or forceps.

Indications

Small Locking Plate and Screw System:
The small locking plate and screw system is indicated for the clavicle, scapula, olecranon, humerus, radius, ulna, tibia, calcaneus, and fibula.

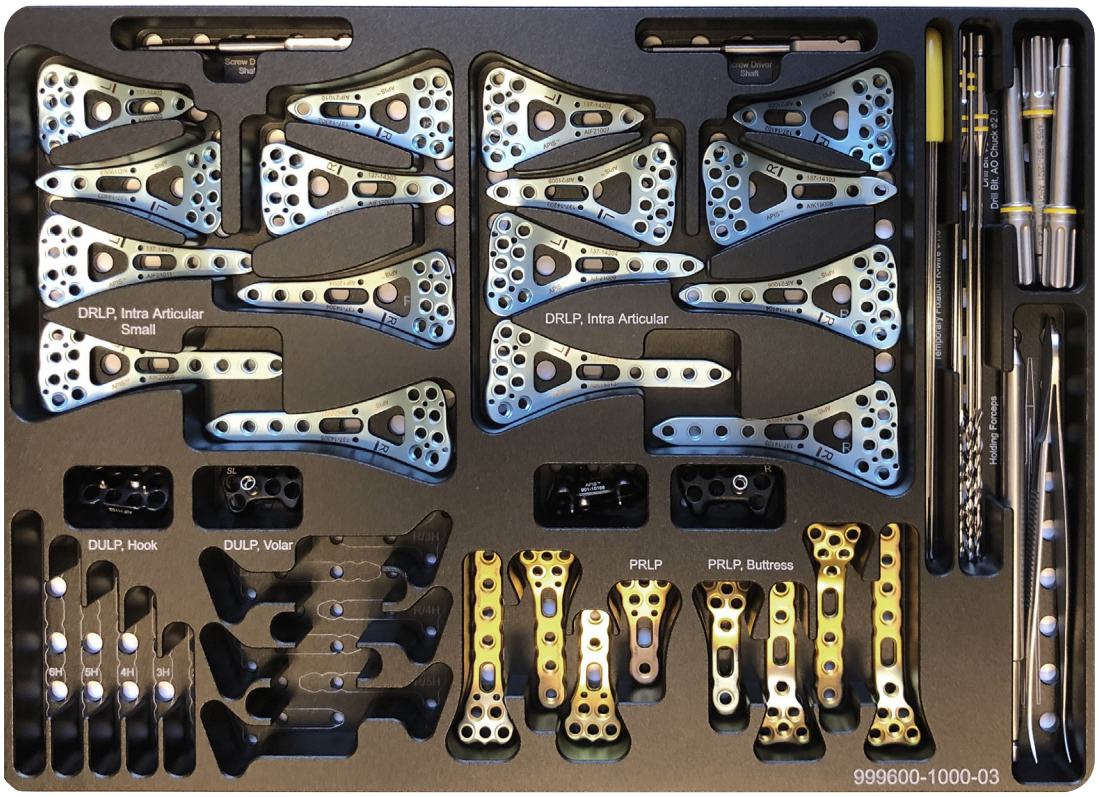
The TDM Screws (1.5mm and larger, solid) are intended to be used with the plate for internal bone fixation for bone fractures, fusions, osteotomies and non-unions in the foot, hand, wrist, clavicle, scapula, olecranon, humerus, radius, ulna, tibia, calcaneus, and fibula.

Contraindications

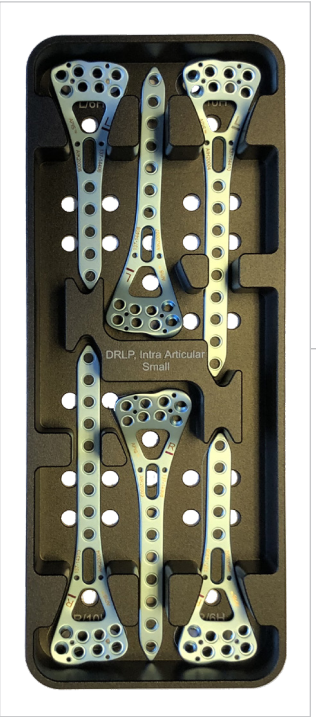
- Do not use for surgeries other than those indicated.
- In case of material sensitivity, documented or suspected, appropriate tests should be performed for material suitability prior to implantation.
- Severe osteoporosis, compromised bone stock, insufficient or immature bone may not be suitable for use of this device.
- Any active or suspected latent infection, sepsis or marked local inflammation in or around the surgical area.
- Physical interference with other implants during implantation or use.
- Compromised vascularity, inadequate skin or neurovascular status.
- Patients who are unwilling or incapable of following post-operative care instructions.

Please refer to package insert for additional usage information.

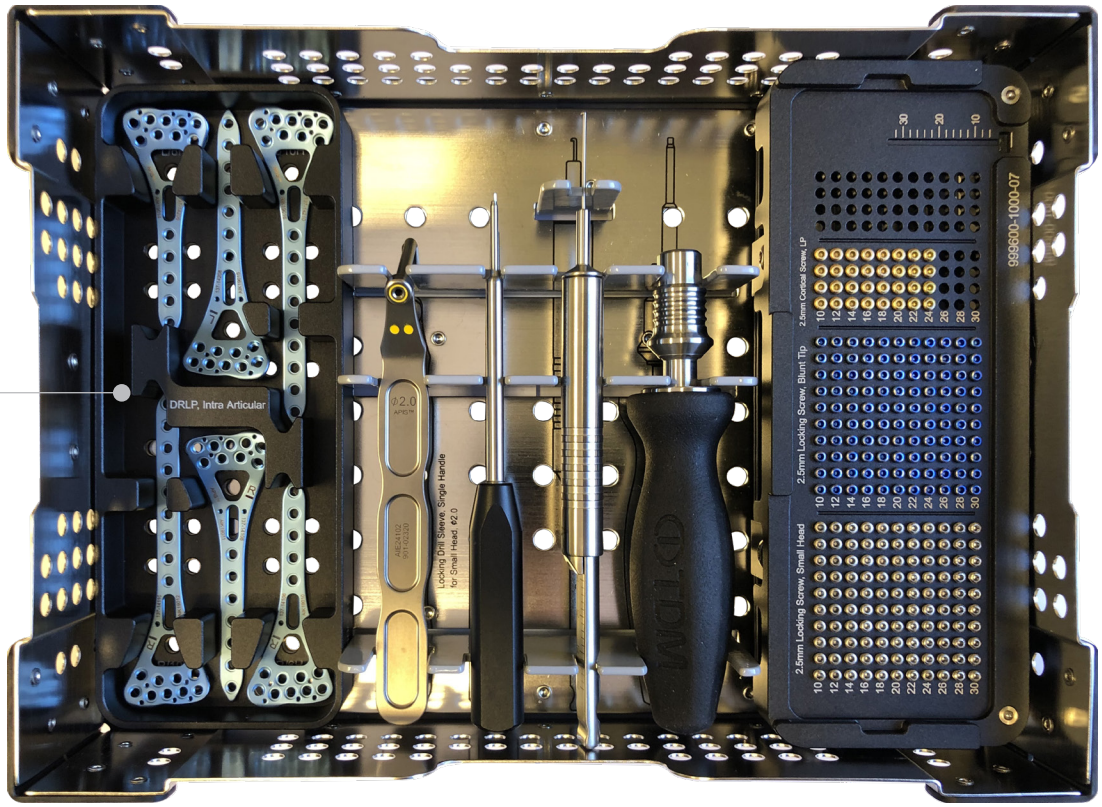
DISTAL/PROXIMAL RADIUS LOCKING PLATE
TRAY LAYOUT



TOP TRAY



SMALL PLATE INSERT



BOTTOM TRAY

DISTAL/PROXIMAL RADIUS LOCKING PLATE & SCREW SYSTEM
IMPLANT ORDERING INFORMATION

DISTAL RADIUS LOCKING PLATE, INTRA-ARTICULAR

Distal Radius Locking Plate, Right 2H	42mm	137-14102
Distal Radius Locking Plate, Right 3H	48mm	137-14103
Distal Radius Locking Plate, Right 4H	55mm	137-14104
Distal Radius Locking Plate, Right 5H	62mm	137-14105
Distal Radius Locking Plate, Right 6H	68mm	137-14106
Distal Radius Locking Plate, Right 8H	82mm	137-14108
Distal Radius Locking Plate, Right 10H	95mm	137-14110
Distal Radius Locking Plate, Left 2H	42mm	137-14202
Distal Radius Locking Plate, Left 3H	48mm	137-14203
Distal Radius Locking Plate, Left 4H	55mm	137-14204
Distal Radius Locking Plate, Left 5H	62mm	137-14205
Distal Radius Locking Plate, Left 6H	68mm	137-14206
Distal Radius Locking Plate, Left 8H	82mm	137-14208
Distal Radius Locking Plate, Left 10H	95mm	137-14210

DISTAL RADIUS LOCKING PLATE, INTRA-ARTICULAR, SMALL

Distal Radius Locking Plate, Small, Right 2H	42mm	137-14302
Distal Radius Locking Plate, Small, Right 3H	48mm	137-14303
Distal Radius Locking Plate, Small, Right 4H	55mm	137-14304
Distal Radius Locking Plate, Small, Right 5H	62mm	137-14305
Distal Radius Locking Plate, Small, Right 6H	68mm	137-14306
Distal Radius Locking Plate, Small, Right 8H	82mm	137-14308
Distal Radius Locking Plate, Small, Right 10H	95mm	137-14310
Distal Radius Locking Plate, Small, Left 2H	42mm	137-14402
Distal Radius Locking Plate, Small, Left 3H	48mm	137-14403
Distal Radius Locking Plate, Small, Left 4H	55mm	137-14404
Distal Radius Locking Plate, Small, Left 5H	62mm	137-14405
Distal Radius Locking Plate, Small, Left 6H	68mm	137-14406
Distal Radius Locking Plate, Small, Left 8H	82mm	137-14408
Distal Radius Locking Plate, Small, Left 10H	95mm	137-14410

PROXIMAL RADIUS LOCKING PLATE

Proximal Radius Locking Plate 2H	27mm	190-11002
Proximal Radius Locking Plate 3H	34mm	190-11003
Proximal Radius Locking Plate 4H	41mm	190-11004
Proximal Radius Locking Plate 5H	48mm	190-11005
Proximal Radius Locking Plate 2H, Buttress	27mm	190-10002
Proximal Radius Locking Plate 3H, Buttress	34mm	190-10003
Proximal Radius Locking Plate 4H, Buttress	41mm	190-10004
Proximal Radius Locking Plate 5H, Buttress	48mm	190-10005

DISTAL/PROXIMAL RADIUS LOCKING PLATE & SCREW SYSTEM
IMPLANT ORDERING INFORMATION/INSTRUMENT OVERVIEW

2.5mm LOCKING SCREWS

Small Head, 10-30mm	225-241xx*
Blunt Tip, 10-30mm	225-251xx*

2.5 CORTICAL SCREW

Low Profile Head, 10-24mm	225-210xx*

2.5mm Locking Screw
Small Head

2.5mm Locking Screw
Blunt Tip

2.5mm Cortical Screw
Low Profile Head

(All screws in 2mm increments.)
*xx = Screw length

Temporary Fixation K-wire
1.0mm 901-16010

Drill Guide Block, DRLP, Intra-Articular

Right	901-10169
Left	901-10168
Right, Small	901-11169
Left, Small	901-11168

Drill Bit
2.0 X 130mm (Yellow) 901-01220

Drill Bit, AO QC
2.0 X 130mm (Yellow) 901-31120

Locking Drill Sleeve, Small Head
2.0mm 901-12521

Locking Drill Sleeve, Single Handle, Small Head
2.0mm 901-02320

Depth Gauge
2.5mm 901-04025

Screwdriver Shaft, Self-Retaining, AO QC

1.5mm Hex	901-15515
2.5mm Hex	901-15425

Screwdriver, Self-Retaining
1.5mm Hex 901-35115

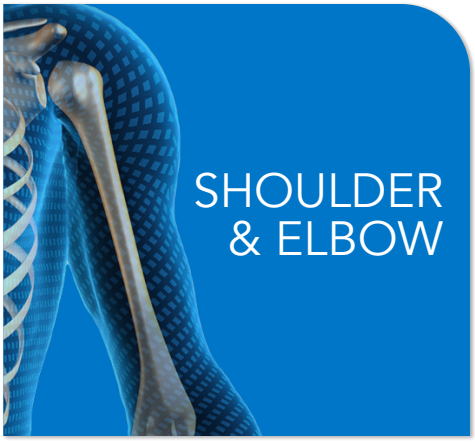
Torque Limiting Handle, AO QC
0.6Nm 901-17006

Forceps 901-08001

EVERY PATIENT IS DIFFERENT
EVERY SURGICAL FACILITY IS DIFFERENT

TDM USA offers multiple plate and screw fixation systems for orthopedic reconstruction and traumatic injuries of the upper and lower extremities. And we partner with medical professionals to define and deliver value-generating solutions for today's complex healthcare challenges.

PRODUCT SOLUTIONS



Refer to Instructions for Use for additional information.

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MLB1015-13 Rev B