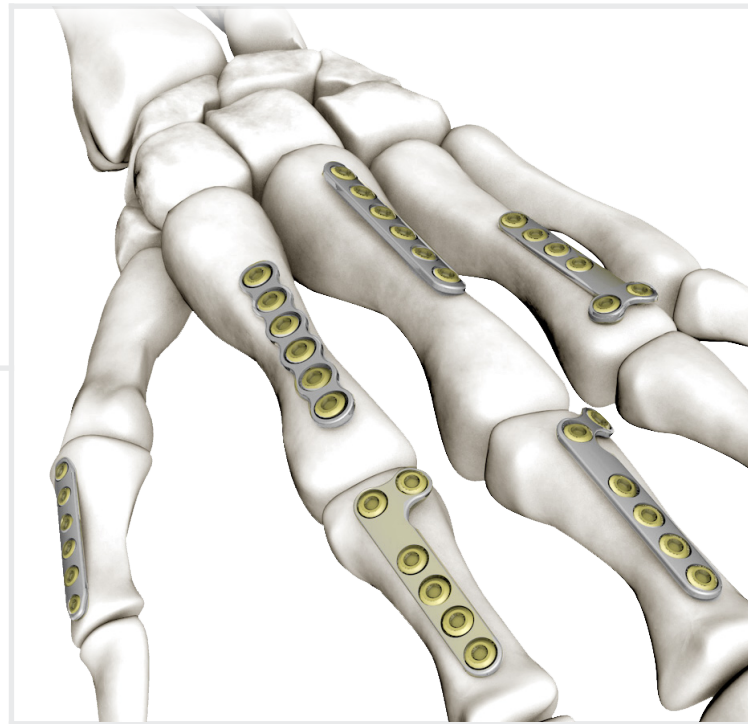




MINI

LOCKING PLATE & SCREW SYSTEM

SURGICAL TECHNIQUE



THE MINI LOCKING PLATE AND SCREW SYSTEM offers multiple fixation options in a variety of configurations. Plates in this system are intended for use in the small bones of the hand, wrist, and foot. The low profile plates are constructed of titanium and are used with solid locking and non-locking screws. The titanium alloy screws are available in 1.5mm and 2.0mm diameters, and range in length from 6-16mm in 1mm increments and 18-20mm in 2mm increments.

MINI LOCKING PLATE OPTIONS

 MINI LOCKING X-PLATE (5 Hole) DOUBLE X-PLATE (8 Hole) TRIPLE X-PLATE (11 Hole)	 MINI LOCKING ZIG ZAG PLATE 5 and 7 Hole
 MINI LOCKING DCP PLATE 4 to 8 Hole	 MINI LOCKING RECONSTRUCTION PLATE 4 to 8 Hole
 MINI LOCKING L-PLATE 3 to 8 Hole Left and Right	 MINI LOCKING L PLATE, OBLIQUE 3 to 8 Hole Left and Right
 MINI LOCKING 3 T-PLATE 3 to 8 Hole	 MINI LOCKING Y PLATE 3 to 8 Hole
 MINI LOCKING CONDYLAR PLATE, PIN 3, 4, and 6 Hole Left and Right	 MINI LOCKING Y PLATE, WEDGE 2 and 3 Hole 3 - 6mm

1

FRACTURE REDUCTION

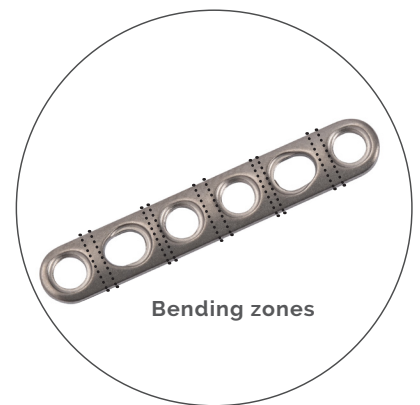
Reduce the fracture and stabilize with lag screws, bone clamps, and temporary fixation K-wires.

2

PLATE CONTOURING (OPTIONAL)

Select the appropriate plate and, if necessary, contour the plate with the **Plate Bending Pliers**.

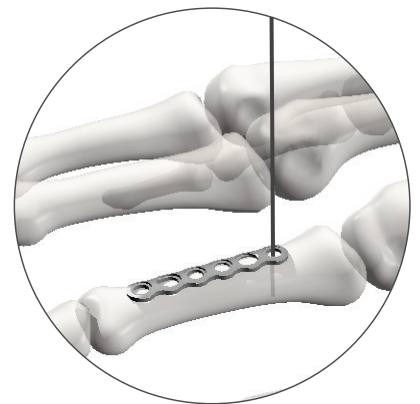
Note: When possible, bend the plate between the locking holes. Do not deform the holes or over-bend the plate as this may reduce locking screw engagement. Insertion of the **Threaded Locking Drill Sleeve** prior to bending can help protect locking holes.



3

PLATE POSITIONING

Position the selected plate over the reduced fracture. Secure the plate in place temporarily using bone clamps or temporary fixation K-wires. For the **Mini Condylar Plate**, pre-drill using the **1.5mm Drill Bit** for the fixed-angle condylar post.



4

SCREW INSERTION

Note: The fracture pattern will dictate the optimal screw placement. All screw holes can accept either 1.5mm or 2.0mm screws. DCP holes accept only cortical screws; all other holes accept either locking or cortical screws.

Drill using the appropriate drill bit and drill sleeve for the selected screw.

1.5mm Screws (Silver Instruments)

Cortical

- 1.1mm Drill Bit
- 1.1mm Single Handle Drill Sleeve

Locking

- 1.1mm Drill Bit
- 1.1mm Locking Drill Sleeve

2.0mm Screws (Light Blue Instruments)

Cortical

- 1.5mm Drill Bit
- 1.5mm Single Handle Drill Sleeve

Locking

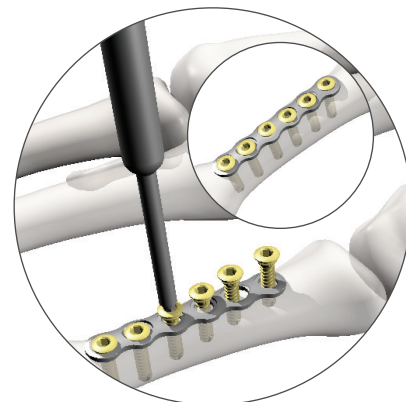
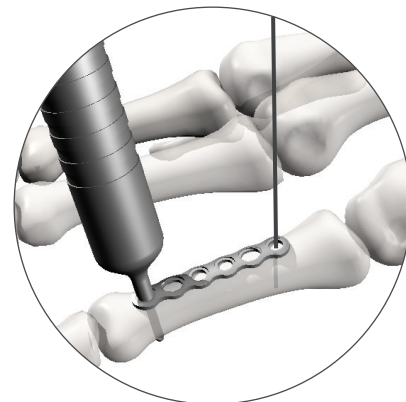
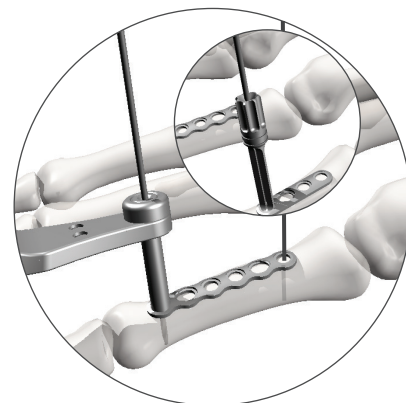
- 1.5mm Drill Bit
- 1.5mm Locking Drill Sleeve

Use the **1.5mm/2.0mm Depth Gauge** to determine appropriate screw length.

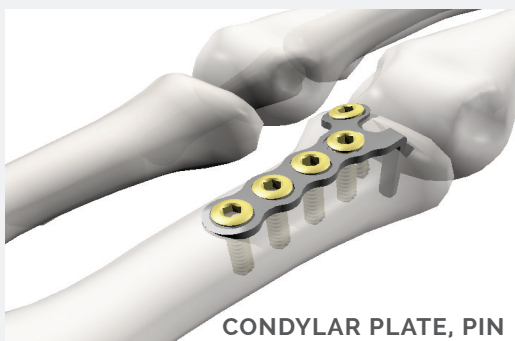
Note: The Depth Gauge reading will place the screw tip slightly beyond the bone in order to ensure fixation in the far cortex. For screw insertion without protrusion, use a screw one size smaller than the measured length.

Insert the appropriate screw using the **1.5mm Hex Screwdriver**.

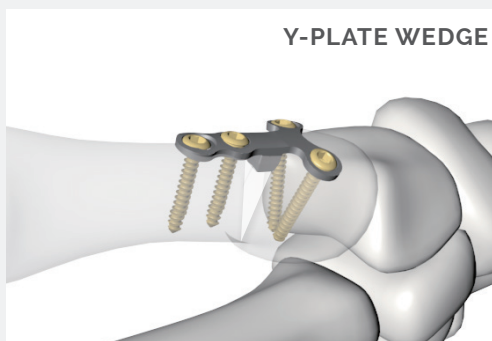
Insert remaining screws as needed for the fracture.



SPECIALTY PLATE PLACEMENT



CONDYLAR PLATE, PIN



Y-PLATE WEDGE

MINI LOCKING LOCKING PLATE & SCREW SYSTEM

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

Mini Mid Locking Plate and Screw System:

The Mini and Mid Locking Plate and Screw System is intended to be used in the hands, wrist, and small bones in the foot.

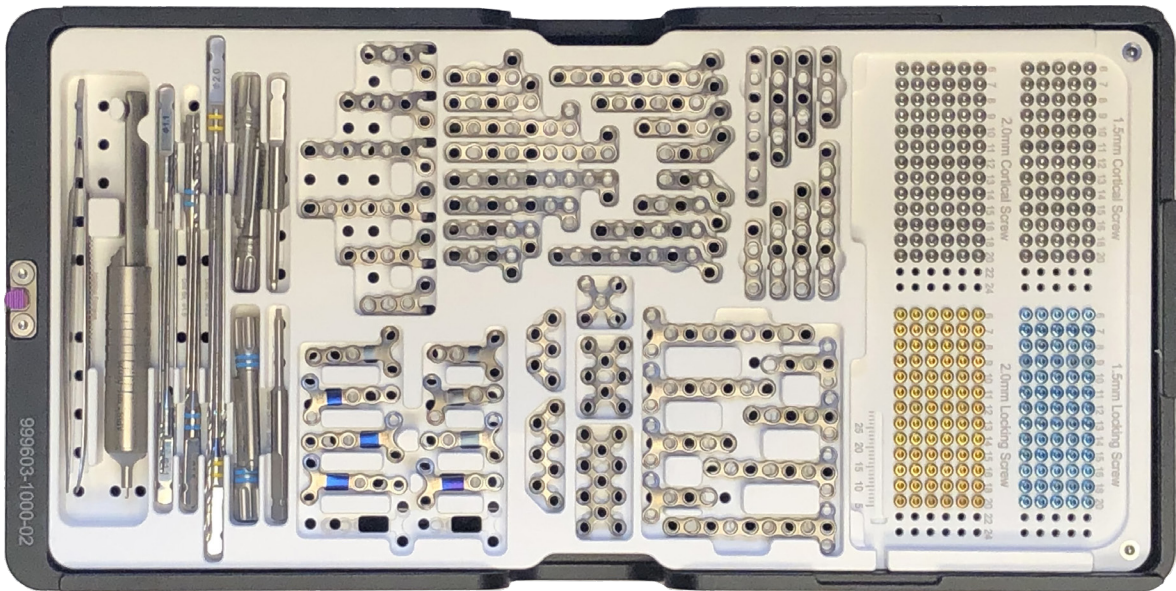
The TDM Screws (1.5mm and larger, solid) are intended to be used with the plate for internal bone fixation for bone fractures, fusions, osteotomies and non-unions in the foot, hand, wrist, clavicle, scapula, olecranon, humerus, radius, ulna, tibia, calcaneus, and fibula.

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.

MINI LOCKING PLATE & SCREW SYSTEM
TRAY LAYOUT



TOP TRAY



BOTTOM TRAY

MINI LOCKING PLATE & SCREW SYSTEM

IMPLANT ORDERING INFORMATION

MINI LOCKING X PLATE

5H	X Plate	13mm	189-10005
8H	Double X	21mm	189-10008
11H	Triple X	29mm	189-10011



MINI LOCKING ZIG ZAG PLATE

5H	21mm	189-11005
7H	29mm	189-11007



MINI LOCKING DCP PLATE

4H	20mm	181-11004
5H	25mm	181-11005
6H	30mm	181-11006
8H	40mm	181-11008



MINI LOCKING RECONSTRUCTION PLATE

4H	20mm	186-11004
5H	25mm	186-11005
6H	30mm	186-11006
8H	40mm	186-11008



MINI LOCKING L PLATE

3H	Right	20mm	182-11103
4H		25mm	182-11104
6H		35mm	182-11106
8H		45mm	182-11108
3H	Left	20mm	182-11203
4H		25mm	182-11204
6H		35mm	182-11206
8H		45mm	182-11208



MINI LOCKING L PLATE, OBLIQUE

3H	Right	20mm	183-11103
4H		25mm	183-11104
6H		35mm	183-11106
8H		45mm	183-11108
3H	Left	20mm	183-11203
4H		25mm	183-11204
6H		35mm	183-11206
8H		45mm	183-11208



MINI LOCKING 3T PLATE

3H	20mm	184-11003
4H	25mm	184-11004
6H	35mm	184-11006
8H	45mm	184-11008



MINI LOCKING Y PLATE

3H	20mm	187-10003
4H	25mm	187-10004
6H	35mm	187-10006
8H	45mm	187-10008



MINI LOCKING CONDYLAR PLATE - PIN

3H	Right	20mm	188-10103
4H		25mm	188-10104
6H		35mm	188-10106
3H	Left	20mm	188-10203
4H		25mm	188-10204
6H		35mm	188-10206



MINI LOCKING Y PLATE, WEDGE

2H	3mm	20mm	187-10132
2H	4mm	21mm	187-10142
2H	5mm	22mm	187-10152
2H	6mm	23mm	187-10162
3H	3mm	25mm	187-10133
3H	4mm	26mm	187-10143
3H	5mm	27mm	187-10153
3H	6mm	28mm	187-10163



MINI LOCKING PLATE & SCREW SYSTEM

IMPLANT ORDERING INFORMATION/INSTRUMENT OVERVIEW

1.5mm LOCKING SCREW

6-20mm

215-250xx*

1.5mm CORTICAL SCREW

6-20mm

215-210xx*

2.0mm LOCKING SCREW

6-20mm

220-270xx*

2.0mm CORTICAL SCREW

6-20mm

220-210xx*



(All 6-16mm screws in 1mm increments, all 18-20mm screws in 2mm increments)

*xx = Screw length

Drill Bit

1.1 X 100mm (Silver) 901-01211
1.5 X 100mm (Light Blue) 901-01415
2.0 X 130mm (Yellow) 901-01220



Drill Bit, AO QC

1.1 X 100mm (Silver) 901-31111
1.5 X 100mm (Light Blue) 901-31115
2.0 X 130mm (Yellow) 901-31120



Locking Drill Sleeve, Single Handle

1.1mm (Silver) 901-02211
1.5mm (Light Blue) 901-02215



Drill Sleeve, Single Handle

2.0mm (Yellow) 901-13320



Locking Drill Sleeve

1.1mm (Silver) 901-12511
1.5mm (Light Blue) 901-12515



Depth Gauge

1.5/2.0mm 901-04020



DCP Drill Guide

1.5mm 901-03020



Screwdriver, Self-Retaining

1.5mm Hex 901-35015



Torque Limiting Handle, AO QC

0.6Nm 901-17006



Screwdriver Shaft, Self-Retaining, AO QC

1.5mm Hex 901-15415



Plate Cutter

902-05203



Plate Bending Plier, Flat

902-05001



Forceps

901-08001



Refer to Instructions for Use for additional information.
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TDMUSA

MLB1015-16 Rev B