LOCKING COMPRESSION PLATING SYSTEM FOR SMALL FRAGMENT – Surgical Technique

The Locking Compression Plating - ULTRALOCK TECHNOLOGY

The following points distinguish treatment using locking screw technology:

- It allows fracture treatment using conventional plating with conventional Cortical or Cancellous bone screws.
- An ULTRALOCK plate can also be used as an internal fixator and permits stable bridging over shattered zones.
- The ULTRALOCK system permits the combination of Conventional and locking screws.
- Unicortical locking screws permit better vascularity.

Important notes:

The UltraLock Plating system applies to many different plate types and is therefore suitable for a large number of fracture types of small bones. For that reason, this Surgical Technique does not deal with any specific fracture type. Please refer to literatures of Principles of Fracture Management for specific fracture procedure.

Indications

The Ortho Max UltaLock Compression Plates— Small & Narrow, are intended for fixation of various small bones, such as the Radius/Ulna , Humerus, Clavicle and Acetabulum. They are also for use in fixation of osteopenic bone and fixation of nonunions or malunions.

Various Plates options and their intended use are:

-Dynamic Compression Locking Plate – Thin for Radius/Ulna- For Fracture Fixation of Radius/Ulna Shaft.

- Proximal Humerus Multi-Angle Locking Plates – For Fracture Fixation of Proximal Humerus Head & Shaft

- Distal Humerus Locking Plates Dorsolateral with Support / without Support – For Internal Fixation of Distal Humerus Condyle.

- Distal Humerus Locking Plates –Medial - For Internal Fixation of Distal Humerus Condyle.

- Extra-Articular Locking Plates - For Internal Fixation of Distal Humerus Condyle.

- Olecronan Locking Plates – For Internal Fixation of Olecronan.

- Clavicle Locking Plates (Medial) – For Internal Fixation of Medial Clavicle Bone.

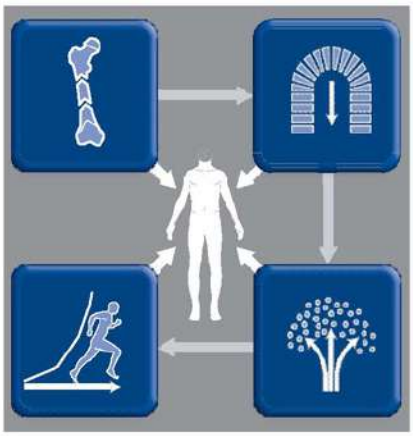
- Superior Clavical Locking Plates (with Lateral Extension) - For Internal Fixation of Lateral Clavicle Bone.

- Clavicle Hook Plates - For Internal Fixation of Clavicle Head.

- Reconstruction Locking Plates – For Internal Fixation of small Fragment & Acetabulum

AO Principles

In1958, AO formulated four basic principles, which have become the guidelines for internal fixation



Anatomic reduction

Fracture reduction and fixation to restore anatomical

Stable fixation

Fracture fixation providing Absolute or relative stability, as Relationships.

Early, active Mobilization

Early and safe mobilization and rehabilitation of the injured part and the patient as a whole.

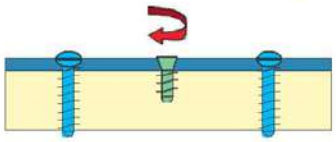
Required by the patient, the injury, and the personality of the fracture.

Preservation of blood supply Preservation of the blood supply to soft tissues and bone by gentle reduction techniques and careful handling.

Combined Internal Fixation

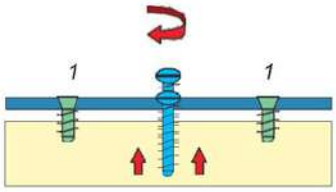
The combination of conventional compression plating and locked plating techniques enhances plate osteosynthesis. The result is a combination hole that, depending on the indication, allows conventional compression plating, locked plating, or a combination of both.

Internal fixation using a combination of locking screws and standard screws



Note: If a combination of Cortical and locking screws is used, a cortical screw should be inserted first to pull the plate to the bone.

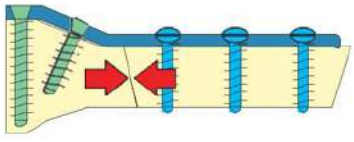
If locking screws (1) have been used to fix a plate to a fragment, subsequent insertion of a conventional screw



(2) in the same fragment without loosening and retightening the locking screw is NOT RECOMMENDED.

Note: If a locking screw is used first, care should be taken to ensure that the plate is held securely to the bone to avoid spinning of the plate about the bone.

Dynamic compression



Once the metaphyseal fragment has been fixed with locking screws, the fracture can be dynamically compressed using conventional screws in the DC hole portion of the ULTRALOCK Plate.

Locked and conventional plating techniques

- First, use lag screws to anatomically reconstruct the joint surfaces.
- The behavior of a locking screw is not the same as that of a lag screw. With the locked plating technique, the implant locks the bone segments in their relative positions regardless of how they are reduced.
- A plate used as a locked plate does not produce any additional compression between the plate and the bone.
- The unicortical insertion of a locking screw causes no loss of stability.

Surgical Technique

Plate selection

The plates are available in various lengths and configurations as shown above similar to the Ortho Max Basic Plating Set.

Contouring

Use the current Plate bender in Pair to contour the Locking Compression Plate to the anatomy.

Note: The plate holes have been designed to accept some degree of deformation. When bending the plate, place the benders on two consecutive holes.

This ensures that the threaded holes will not be distorted. Significant distortion of the locking holes will reduce locking effectiveness.

Reduction and temporary plate placement

The plate may be temporarily held in place with K wire holding in bony fragment.

Note: The middle of the plate should be positioned over the fracture site if compression of the fracture fragments is desired.

Screw insertion:

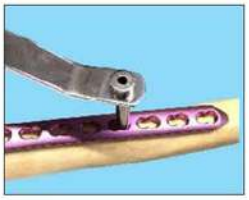
Determine whether conventional Cortical screws, cancellous bone screws or locking screws will be used for fixation. A combination of all may be used.

Note: If a combination of Cortical, cancellous and locking screws is used, a conventional screw should be used first to pull the plate to the bone.

Warning: If a locking screw is used first, care should be taken to ensure that the plate is held securely to the bone to avoid spinning of the plate about the bone.

Insertion of a Cortical or cancellous bone screw

Use the 4.5 mm Drill & Tap Sleeve for an eccentric (compression) or neutral (buttress) insertion of Cortical screws.



Neutral position

Screw insertions:

Insertion of 4.0 mm and 5.0 mm Locking Screws

Note: The locking screw is not a lag screw. Use non locking screws when requiring a precise anatomical reduction (e.g., joint surfaces) or interfragmentary compression. Before inserting the first locking screw, perform anatomical reduction and fix the fracture with lag screws, if necessary. After the insertion of locking screw as anatomical reduction will no longer be possible without loosening the locking screw.

A Screw the appropriate Threaded Locking Drill Sleeve for 4.0 mm or 5.0 mm screws into plate hole until fully seated.

B Use the appropriate Drill Bit (3.2 mm for 4.0 mm screws and 4mm for 5.0 mm screws) to drill to the desired depth.

C Remove the drill Sleeve.

D Use the Depth Gauge 3.5mm to determine screw length.

Note 1: Since the direction of a locking screw is determined by plate design, final screw position may be verified with a K wire prior to insertion. This becomes especially important when the plate has been contoured or applied in metaphyseal regions around joint surfaces.

Warning: Do not try to bend the plate using the Locking Drill Sleeve because damage may occur to the hole's threads.

E Insert the locking screw of respective dia. And length using the Torque Limit Screw driver of 4mm.

Note: The screw is securely locked to the plate when an audible "click" is heard.

Alternative Method of Locking Screw Insertion

Use the Hexagonal Screw driver 3.5mm to manually insert the appropriate locking screw.

Carefully tighten the locking screw, as excessive force is not necessary to produce effective screw-to- plate locking which can damage screw head and driver.

Postoperative Treatment

Postoperative treatment with Locking Compression Plates does not differ from conventional internal fixation procedures.

Implant removal

The UltraLock Plates, unlock all screws from the plate; then remove the screws completely from the bone by following screw removal technique of cortical screws with the help of Hexagonal Screw Driver 3.5mm. This prevents simultaneous rotation of the plate when removing the last locking screw .The following should be noted in order to avoid damage to the instrument or implants: Always engage the screw driver tip firmly into the head of screw to remove. Don't give extra quick torque to damage screw head. If screw head gets damaged during removal, use the screw removal instruments to remove damage head screws.

Note: The final decision of removing the implants shall be taken by the operating surgeon only. It is recommended that the implant used as an aid for healing should be removed once its service is over after proper consultation and examination by the operating surgeon in final follow up, particularly in younger and more active patients.

Caution:

Used Implants:

Used implants which appear undamaged may have internal and /or external defects. It is possible that individual stress analysis of each part fail to reveal the accumulated stress on the metals as a result of use within the body. This may lead ultimately to implant failure after certain point of time due to metal fatigue. Therefore reuses of implants are strictly not recommended.

Disposal of Used Implants:

Every used or removed implant must be discarded after use and must never be re- used. It should be bent or scratched & then disposed of properly so that it becomes unfit for reuse. While disposing it off, it should be ensured that the discarded implant does not pose any threat to children, stray animals and environment. Dispose of the implants as per applicable medical practices and local, state and country specific regulatory requirements of Bio Medical Waste rules.

Packaging Material Dispoal:

The packaging material of this device is made of LDPE and therefore if swallowed, may cause choking Hazards. Therefore, it should be disposed of in such ways that keep out of reach of children and stray animals.

Single Brand Usage:

Implant components from one manufacture should not be used with those of another. Implants from each manufacture may have metal, dimensions and design differences so that the use in conjunction with different brands of devices may lead to inadequate

fixation or adverse performances of the devices.

MRI SAFETY INFORMATION

- Ortho Max Mfg. Co Pvt. Ltd. implants are manufactured from Titanium Gr.2, SS316L, SS316LVM material for Bone Plate & Titanium Gr.5, SS316L, SS316LVM material for Bone Screw, Pins & Wires, both are non-magnetic material, hence it do not pose any safety risk.

- Patients should be directed to seek a medical opinion before entering potentially adverse environments that could affect the performance of the implants, such as electromagnetic or magnetic field or including a magnetic resonance environment.

- Doctor shall conduct a Risk Benefit Analysis before directing the patient to enter electromagnetic or magnetic fields or including a magnetic resonance environment.

- The Ortho Max Mfg. Co Pvt. Ltd. implants has not been evaluated for safety and compatibility in the MR environment but on the basis of literature study below mentioned points can be taken care during MRI

✓ The minimum recommended time after the implantation that allows patients to safely undergo MRI examination or allowing the patient or an individual to enter the MRI environment is 6 (six) weeks.

✓ The maximum recommended time limit for MRI examination in patients implanted with the evaluated device is 30 min with a scanner operating at 1.5T (Tesla) or less.

Product Details:

Ultra Lock® Plating System - Small Fragment

Dynamic Compression Locking Plates (DCLP)
Thin for Radius/Ulna

Size	S.S.	Titanium
5 Holes	192.1005	192.T1005
6 Holes	192.1006	192.T1006
7 Holes	192.1007	192.T1007
8 Holes	192.1008	192.T1008
9 Holes	192.1009	192.T1009
10 Holes	192.1010	192.T1010
12 Holes	192.1012	192.T1012

Intended Use	For internal Fixation of Radius/Ulna shaft
Profile	10mm x 3.2mm profile, 4mm compatible, 0.8mm thread pitch
Material	SS 316L & Titanium

3

Ultra Lock® Plating System - Small Fragment

Proximal Humerus Multi Angle Locking Plates

Size	S.S.	Titanium
3 Holes	203.103	203.T103
4 Holes	203.104	203.T104
5 Holes	203.105	203.T105
6 Holes	203.106	203.T106
7 Holes	203.107	203.T107
8 Holes	203.108	203.T108
9 Holes	203.109	203.T109
10 Holes	203.110	203.T110
12 Holes	203.112	203.T112

Intended Use	For Internal Fixation of proximal Humerus Head & Shaft
Profile	12mm x 3.5mm, 4mm compatible Screw, 0.8 mm thread pitch
Material	SS 316L & Titanium

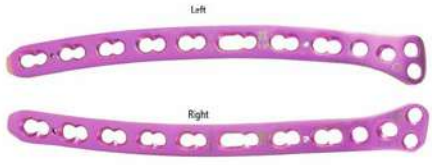
Distal Humerus Locking Plates
Dorsolateral With Support

Size	S.S.	Reference
4 Holes	2018.140(L/R)	2018.T140(L/R)
5 Holes	2018.150(L/R)	2018.T150(L/R)
6 Holes	2018.160(L/R)	2018.T160(L/R)
7 Holes	2018.170(L/R)	2018.T170(L/R)
8 Holes	2018.180(L/R)	2018.T180(L/R)
9 Holes	2018.190(L/R)	2018.T190(L/R)
10 Holes	2018.110(L/R)	2018.T110(L/R)
12 Holes	2018.112(L/R)	2018.T112(L/R)

Intended Use	For Internal Fixation of Distal Humerus Condyle
Profile	10mm x 3mm, 6 Distal Holes -3mm Screw compatible Shaft Holes 4mm Screw compatible, 0.8mm thread pitch
Material	SS 316L & Titanium

Distal Humerus Locking Plates
Dorsolateral Without Support

Size	S.S.	Titanium
4 Holes	2018.240(L/R)	2018.T240(L/R)
5 Holes	2018.250(L/R)	2018.T250(L/R)
6 Holes	2018.260(L/R)	2018.T260(L/R)
7 Holes	2018.270(L/R)	2018.T270(L/R)
8 Holes	2018.280(L/R)	2018.T280(L/R)
9 Holes	2018.290(L/R)	2018.T290(L/R)
10 Holes	2018.210(L/R)	2018.T210(L/R)
12 Holes	2018.212(L/R)	2018.T212(L/R)

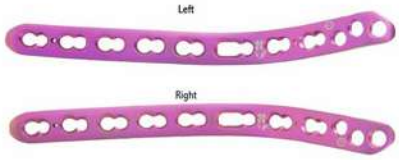


Intended Use	For Internal Fixation of Distal Humerus Condyle
Profile	10mm x 3mm, 4 Distal Holes -3mm Screw compatible Shaft Holes 4mm Screw compatible, 0.8mm thread pitch
Material	SS 316L & Titanium

Ultra Lock® Plating System - Small Fragment

Distal Humerus Locking Plates

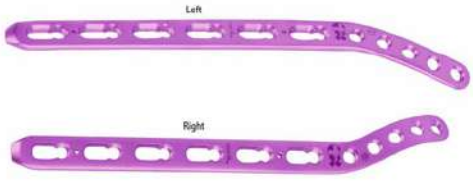
Medial



Size	S.S.	Titanium
4 Holes	2019.04 (L/R)	2019.T04 (L/R)
5 Holes	2019.05 (L/R)	2019.T05 (L/R)
6 Holes	2019.06 (L/R)	2019.T06 (L/R)
7 Holes	2019.07 (L/R)	2019.T07 (L/R)
8 Holes	2019.08 (L/R)	2019.T08 (L/R)
9 Holes	2019.09 (L/R)	2019.T09 (L/R)
10 Holes	2019.10 (L/R)	2019.T10 (L/R)
12 Holes	2019.12 (L/R)	2019.T12 (L/R)

Intended Use	For Internal Fixation of Distal Humerus Condyle
Profile	10mm x 3mm,3 distal screws -3mm compatible, shaft screw 4mm compatible, 0.8 mm thread pitch
Material	SS 316L & Titanium

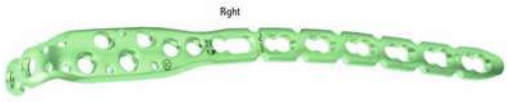
Extra-Articular Distal Humerus Locking Plates



Size	S.S.	Titanium
4 Holes	2053.04 (L/R)	2053.T04 (L/R)
5 Holes	2053.05 (L/R)	2053.T05 (L/R)
6 Holes	2053.06 (L/R)	2053.T06 (L/R)
7 Holes	2053.07 (L/R)	2053.T07 (L/R)
8 Holes	2053.08 (L/R)	2053.T08 (L/R)
9 Holes	2053.09 (L/R)	2053.T09 (L/R)
10 Holes	2053.10 (L/R)	2053.T10 (L/R)
12 Holes	2053.12 (L/R)	2053.T12 (L/R)

Intended Use	For Internal Fixation of Distal Humerus Condyle
Profile	12mm x 3mm, 5 Distal Holes -3mm Screw compatible, Shaft Holes 4mm Screw compatible, 0.8mm thread pitch
Material	SS 316L & Titanium

Olecronan Locking Plates



Size	S.S.	Titanium
3 Holes	2049.03 (L/R)	2049.T03 (L/R)
4 Holes	2049.04 (L/R)	2049.T04 (L/R)
5 Holes	2049.05 (L/R)	2049.T05 (L/R)
6 Holes	2049.06 (L/R)	2049.T06 (L/R)
7 Holes	2049.07 (L/R)	2049.T07 (L/R)
8 Holes	2049.08 (L/R)	2049.T08 (L/R)
9 Holes	2049.09 (L/R)	2049.T09 (L/R)
10 Holes	2049.10 (L/R)	2049.T10 (L/R)

Intended Use	For Internal Fixation of Olecronan
Profile	10mm x 2.5mm, 8 Proximal Holes -3mm Screw compatible, Shaft Holes 4mm Screw compatible, 0.8mm thread pitch
Material	SS 316L & Titanium

Ultra Lock® Plating System - Small Fragment

Superior Clavical Locking Plates (With Lateral Extension)

Size	S.S.	Titanium
3 Holes	2051.03(L/R)	2051.T03(L/R)
4 Holes	2051.04(L/R)	2051.T04(L/R)
5 Holes	2051.05(L/R)	2051.T05(L/R)
6 Holes	2051.06(L/R)	2051.T06(L/R)
7 Holes	2051.07(L/R)	2051.T07(L/R)
8 Holes	2051.08(L/R)	2051.T08(L/R)

Intended Use	For Internal Fixation of Lateral Clavicle Bone
Profile	10mm x 3mm, Head 2.5mm Compatible Screws, Shaft 4mm Compatible Screws
Material	SS 316L & Titanium

Clavical Hook Locking Plates

Size	S.S.	Titanium
4 Holes	2052.04(L/R)	2052.T04(L/R)
5 Holes	2052.05(L/R)	2052.T05(L/R)
6 Holes	2052.06(L/R)	2052.T06(L/R)

Intended Use	For Internal Fixation of Clavicle Head
Profile	10mm x 3mm, 4mm Compatible Screws
Material	SS 316L & Titanium

Reconstruction Locking Plate - 4mm

Size	S.S.	Titanium
4 Holes	212.404	212.T404
5 Holes	212.405	212.T405
6 Holes	212.406	212.T406
7 Holes	212.407	212.T407
8 Holes	212.408	212.T408
9 Holes	212.409	212.T409
10 Holes	212.410	212.T410
12 Holes	212.412	212.T412
14 Holes	212.414	212.T414
16 Holes	212.416	212.T416
20 Holes	212.420	212.T420

Interded Use	For Internal Fixation of small fragment & Acetabulam
Profile	10mm x 2.5mm, 4mm Compatible Screws
Material	SS 316L & Titanium

Ultra Lock® Plating System - Small Fragment

Cortical Locking Screws - 2.5 mm

Hexagonal

Size	S.S.	Titanium
6mm	219.006	219.T006
8mm	219.008	219.T008
10mm	219.010	219.T010
12mm	219.012	219.T012
14mm	219.014	219.T014
16mm	219.016	219.T016
18mm	219.018	219.T018
20mm	219.020	219.T020
22mm	219.022	219.T022
24mm	219.024	219.T024
26mm	219.026	219.T026
28mm	219.028	219.T028
30mm	219.030	219.T030

Intended Use	For Internal Fixation with Locking Plates
Profile	Core dia. 2mm, 36 TPI, 2mm Hex. Self Tapping
Material	SS 316L & Titanium

Cortical Locking Screws - 3mm

Size	S.S.	Titanium
10mm	196.310	196.T310
12mm	196.312	196.T312
14mm	196.314	196.T314
16mm	196.316	196.T316
18mm	196.318	196.T318
20mm	196.320	196.T320
22mm	196.322	196.T322
24mm	196.324	196.T324
26mm	196.326	196.T326
28mm	196.328	196.T328
30mm	196.330	196.T330

Size	S.S.	Titanium
32mm	196.332	196.T332
34mm	196.334	196.T334
36mm	196.336	196.T336
38mm	196.338	196.T338
40mm	196.340	196.T340
42mm	196.342	196.T342
44mm	196.344	196.T344
46mm	196.346	196.T346
48mm	196.348	196.T348
50mm	196.350	196.T350
55mm	196.355	196.T355
60mm	196.360	196.T360

Intended Use	For Internal Fixation with Locking Plates
Profile	Core dia. 2.2mm, 36 TPI, 2.5mm Hex. Self Tapping
Material	SS 316L & Titanium

Ultra Lock ® Plating System - Small Fragment

Cortical Locking Screws - 4mm

○ Hexagonal

Size	S.S.	Titanium
10mm	196.410	196.T410
12mm	196.412	196.T412
14mm	196.414	196.T414
16mm	196.416	196.T416
18mm	196.418	196.T418
20mm	196.420	196.T420
22mm	196.422	196.T422
24mm	196.424	196.T424
26mm	196.426	196.T426
28mm	196.428	196.T428
30mm	196.430	196.T430
32mm	196.432	196.T432
34mm	196.434	196.T434
36mm	196.436	196.T436
38mm	196.438	196.T438
40mm	196.440	196.T440
45mm	196.445	196.T445
50mm	196.450	196.T450
55mm	196.455	196.T455
60mm	196.460	196.T460
65mm	196.465	196.T465
70mm	196.470	196.T470
75mm	196.475	196.T475
80mm	196.480	196.T480

Intended Use	For Internal Fixation with Locking Plates
Profile	Core Dia. 3.2mm, 26 TPI, 0.8mm head pitch 2.5mm Hex. Self Tapping
Material	SS 316L & Titanium

Cancellous Locking Screws - 4mm

Size	S.S.	Titanium
10mm	206.110	206.T110
12mm	206.112	206.T112
14mm	206.114	206.T114
16mm	206.116	206.T116
18mm	206.118	206.T118
20mm	206.120	206.T120
22mm	206.122	206.T122
24mm	206.124	206.T124
26mm	206.126	206.T126
28mm	206.128	206.T128
30mm	206.130	206.T130
32mm	206.132	206.T132
34mm	206.134	206.T134
36mm	206.136	206.T136
38mm	206.138	206.T138
40mm	206.140	206.T140
45mm	206.145	206.T145
50mm	206.150	206.T150
55mm	206.155	206.T155
60mm	206.160	206.T160
65mm	206.165	206.T165
70mm	206.170	206.T170
75mm	206.175	206.T175
80mm	206.180	206.T180
85mm	206.185	206.T185
90mm	206.190	206.T190

Intended Use	For Internal Condyler Fixation with Locking Plates
Profile	Core Dia. 2.5mm, 14 TPI, 2.5mm Hex. Self Tapping
Material	SS 316L & Titanium

Doc. No.	Issue No/Rev No	Dated	Page No
F/CMF/ST/03	01/00	24-04-2019	Page **17** of **22**

Ultra Lock® Plating System - Small Fragment

Cortical Screws - 2.7 mm

Hexagonal

Size	S.S.	Titanium
10mm	220.010	220.T010
12mm	220.012	220.T012
14mm	220.014	220.T014
16mm	220.016	220.T016
18mm	220.018	220.T018
20mm	220.020	220.T020
22mm	220.022	220.T022
24mm	220.024	220.T024
26mm	220.026	220.T026
28mm	220.028	220.T028
30mm	220.030	220.T030

Intended Use	For Internal Fixation with Bone Plates
Profile	Core dia. 2mm, 24 TPI, 2mm Hex., Self Tapping
Material	SS 316L & Titanium

Cortical Screws - 3.5mm

Size	S.S. 14TPI	S.S. 20TPI	Titanium 20TPI
10mm	101.110	101.210	226.210
12mm	101.112	101.212	226.212
14mm	101.114	101.214	226.214
16mm	101.116	101.216	226.216
18mm	101.118	101.218	226.218
20mm	101.120	101.220	226.220
22mm	101.122	101.222	226.222
24mm	101.124	101.224	226.224
26mm	101.126	101.226	226.226
28mm	101.128	101.228	226.228
30mm	101.130	101.230	226.230
32mm	101.132	101.232	226.232
34mm	101.134	101.234	226.234
36mm	101.136	101.236	226.236
38mm	101.138	101.238	226.238
40mm	101.140	101.240	226.240

Intended Use	For Internal Fixation with Bone plate
Profile	Core dia. 2.7mm for 20 TPI - 2.5mm for 14TPI 2.5mm Hex., Self Tapping,
Material	SS 316L & Titanium

Cap for Locking Plate-4mm

Size	S.S.	Titanium
4mm	198.400	198.T400

Intended Use	To Safe guard hole profile while bending & Plugging blank Hole
Profile	0.8mm Thread Pitch, 2.5mm & 3.5mm Hex.,
Material	SS 316L & Titanium

Ultra Lock® Plating System - Small Fragment Instruments

Drill Bits - 2mm

Size	Screws Size	Reference
2mm x 5"	Cortical Screws - 2.7mm & Cortical Locking Screws - 2.5mm	552.205

Drill Sleeve - 2mm

Size	Screws Size	Reference
2.0mm x 1.5"	Cortical Locking Screws - 2.5mm	555.200

Drill Bits - 2.2mm

Size	Screws Size	Reference
2.2mm x 6"	Cortical Locking Screws - 3mm	552.226

Drill Sleeve - 2.2mm

Size	Screws Size	Reference
2.2mm x 2.5"	Cortical Locking Screws - 3mm	555.220

Drill Bits - 2.5mm

Size	Screws Size	Reference
2.5mm x 8"	Cancellous Locking Screws - 4mm	552.258

Drill Sleeve - 2.5mm

Size	Screws Size	Reference
2.5mm x 2.5"	Cancellous Locking Screws - 4mm	555.250

Drill Bits - 2.5/2.7mm

Size	Screws Size	Reference
2.5mm x 5"	Cortical Screws - 3.5mm x 14 TPI	552.255
2.7mm x 5"	Cortical Screws - 3.5mm x 20 TPI	552.275

Drill & Tap Sleeve Double Ended

Size	Screws Size	Reference
2.7mm x 3.5mm	Cortical Screws - 3.5mm x 20 TPI	558.350

Drill Bits - 3.2mm

Size	Screws Size	Reference
3.2mm x 6"	Cortical Locking Screws - 4mm	552.326
3.2mm x 8"	Cortical Locking Screws - 4mm	552.328

Drill Sleeve - 3.2mm

Size	Screws Size	Reference
3.2mm x 3"	Cortical Locking Screws - 4mm	555.320

Doc. No.	Issue No/Rev No	Dated	Page No
F/CMF/ST/03	01/00	24-04-2019	Page **19** of **22**

Ultra Lock® Plating System - Small Fragment Instruments

Drill Sleeve With Handle

Size	Reference
2mm	558.200

Depth Gauge

Size	Reference
2.5/2.7mm	254.250

Hexagonal Screw Driver

Size	Screws Size	Reference
2.5mm/2.7mm	Cortical Screws - 2.7mm & Cortical Locking Screws - 2.5mm	569.125

Tommy Bar

Reference
943.001

Hexagonal Screw Driver

Size	Screws Size	Reference
3.5mm	Cortical Screws - 3.5mm & Cortical Locking Screws - 3mm,4mm Cancellous Locking Screws- 4mm	569.135

Reduction Bone Holding Forceps - Pointed

Size	Reference
6"	273.006

Reduction Bone Holding Forceps with K wire Guide

Size	Reference
6"	704.106

Plate Bender In Pair

Size	Reference
Small	571.001

Torque Limit Screw driver

Size	Reference
4mm	925.001

Depth Gauge

Size	Reference
3.5mm	561.235

Doc. No.	Issue No/Rev No	Dated	Page No
F/CMF/ST/03	01/00	24-04-2019	Page **20** of **22**

All in One "Ultra Lock®" Small Fragment Set

Contents :

Implants	Size	Qty.
Dynamic Compression Locking Plates(DCLP) Thin For Radius/Ulna - 10 mm	5H, 6H, 7H, 8H, 9H, 10H - 1 each	06 Nos
Proximal Humerus Locking Plates "MultiAngle"	4H, 5H, 6H - 1 each 7H, 8H, 10H - 1 each	03 Nos 03 Nos
Distal Humerus Locking Plates - Dorsolateral		
Without Support - Left & Right	4H, 5H, 6H, 7H, 8H - 1 each	10 Nos
With Support - Left & Right	4H, 5H, 6H, 7H, 8H - 1 each	10 Nos
Distal Humerus Locking Plates Medial or Extra-Articular - Left & Right	4H, 5H, 6H, 7H, 8H - 1 each	10 Nos
Cortical Locking Screws	3mm x 14mm to 50mm - 3 each 4mm x 10mm to 40mm - 8 each 45,50,55,60,65,70mm - 8 each 75, 80mm - 8 each	57 Nos 128 Nos 48 Nos 16 Nos
Cancellous Locking Screws - Full Thread	4mm x 24mm To 38mm - 3 each x 40mm To 70mm - 6 each 75 & 80mm - 3 each	24 Nos 42 Nos 6 Nos
Cortical Screws 3.5mm x 14/20 TPI	3.5mm x 10mm 12mm To 26mm - 8 each 28mm To 40mm - 4 each	04 Nos 64 Nos 28 Nos

Instruments		
S.S. Drill Bits - 2.2mm x 6"	(For Lock. Cortical 3mm)	02 Nos
3.2mm x 6", 8" - 1 each	(For Lock. Cortical 4mm)	02 Nos
2.5mm x 8"	(For Lock. Cancellous - 4mm)	01 No
2.7mm x 6"	(For Cortical 3.5mm x 20TPI)	02 Nos
Drill & Tap Sleeve 2.7mm x 3.5mm	(For Cortical 3.5mm x 20TPI)	01 No
Drill Sleeve 2.2mm	(For Lock. Cortical 3mm)	02 Nos
2.5mm	(For Lock. Cancellous - 4mm)	02 Nos
3.2mm	(For Lock. Cortical 4mm)	02 Nos
Tommy Bar for Drill Sleeve		01 No
Depth Gauge - 3.5mm		01 No
Hexagonal Screw Driver - 3.5mm		01 No
Torque Limit Screw Driver - 4mm		01 No
Reduction Forceps Pointed with K Wire Guide 6"		01 No
Container For Ultra Lock® Small Fragment Set		01 No

*Available in SS316L & Titanium

Reference
920.001

Doc. No.	Issue No/Rev No	Dated	Page No
F/CMF/ST/03	01/00	24-04-2019	Page **21** of **22**

Instruments certified CE

MFG. UNIT & REGD. OFFICE
C-1-B/886/4, G.I.D.C. ESTATE
MAKARPURA,
VADODARA – 390 010 GUJ. INDIA

Tel : +91-89800 15555
+91-89800 25555

E-mail : info@orthomaxindia.net
admin@orthomaxindia.net