

CrossCHECK[™] NX

Compression Plating System



Utility
Lapidus &
MTP Plates

Low profile, joint specific anatomical plate design

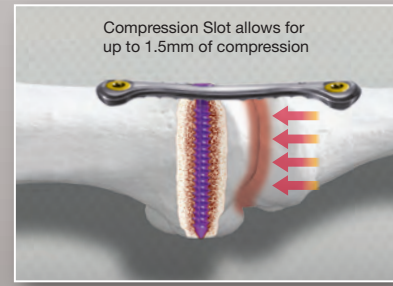


MTP Compression Plate

CrossGRIP Ridges designed for anti-slip purchase with reduced bone to plate contact



Dynamic, mechanical compression



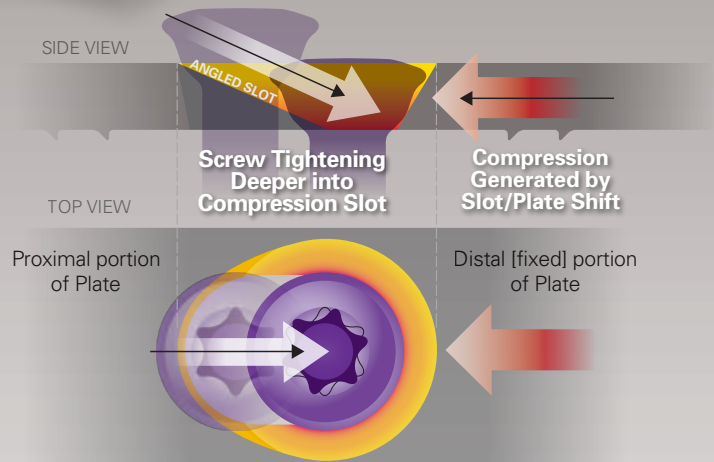
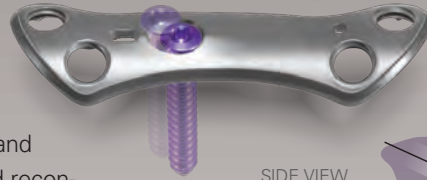
Compression Slot allows for up to 1.5mm of compression



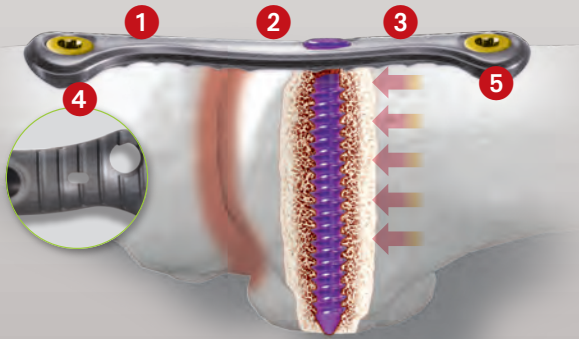
CrossCHECKTM NX

Compression Plating System

CrossCHECKTM NX Plating is indicated for stabilization and fixation of joint fusion and reconstruction of small bones in the foot and toes. The System uses Compression Slot Technology to create mechanical compression across the fusion site. Up to 1.5mm of compression is possible using the Compression Slot, an elliptical slot with progressive depth. With the MTP NX Plate, as the non-locking slot Screw is tightened, it seats deeper into the slot, sliding the Plate and attached phalanx proximally, closing and compressing the fusion site. The Compression Slot is featured on a variety of CrossCHECK NX Plates including MTP, Lapidus and Utility Plates.

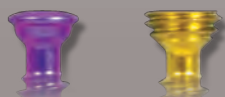


CrossCHECK Advantages

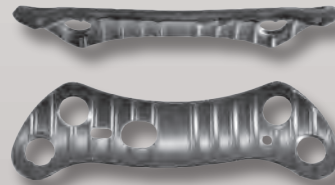


The CrossCHECK MTP Plate was designed to generate fusion site compression and to eliminate extraneous bone removal common in some compression techniques. They feature:

- 1 Low profile, joint specific design
- 2 Dynamic, Compression Slot mechanical compression technology
- 3 Type II anodized titanium strength and bio-compatibility
- 4 CrossGRIP Ridges designed for anti-slip purchase with reduced bone to plate contact
- 5 Locking / non-locking Screw options



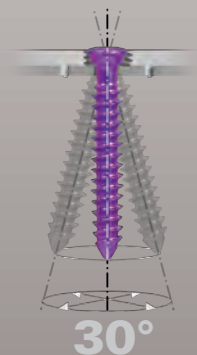
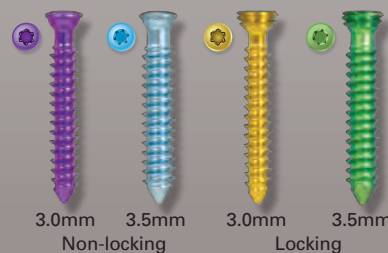
CrossGRIPTM Ridges



All CrossCHECK NX System Plates benefit from CrossGRIP Ridges that line the underside of each Plate. These Ridges are designed for powerful purchase and reduced bone to Plate contact.

Locking / Non-locking Screw Options

CrossCHECK Plates feature both locking and non-locking T8 Screw options in all threaded holes. The non-locking Screws offer polyaxial alignment, +/- 15° for a full 30° range of angulation.



MTP Compression Plate Surgical Technique



1 INCISION/EXPOSURE

- A dorsal longitudinal incision is commonly used. This approach provides excellent exposure of the MTP joint.
- A medial approach may be considered in patients where healing of the skin flap may be problematic.



2 METATARSAL PREPARATION

- The amount of bone resection depends upon the desired length of the 1st metatarsal. (Note: some revision cases may not require additional extensive resection).
- Displace the phalanx plantarly to expose the metatarsal head. Using a powered drill, place a 1.6mm Guide Wire proximally through the center of the metatarsal head and into the diaphysis.



3 Beginning with the largest diameter Reamer (22mm), place

- the Reamer over the Guide Wire and gently ream the metatarsal head until bleeding subchondral bone becomes visible on the joint surface. To ensure proper sizing, it is advisable to begin by using the largest size Reamer, and then downsizing to match the diameter of the metatarsal head. NOTE: Make sure to protect the sesamoids, and check the progress of the Reamer frequently to prevent excessive shortening of the metatarsal. Take note of the last Reamer size used.
- Once reaming is complete, the Guide Wire can be held to elevate the metatarsal head to enable the removal of the bone on the plantar aspect.

MTP Compression Plate Surgical Technique cont.



4 PHALANGEAL PREPARATION

- The proximal phalanx is plantar flexed using a curved McGlamry or Hohmann retractor. The 1.6mm Guide Wire is again placed in the center of the articular cartilage and directed through the diaphysis. Care should be taken not to penetrate the interphalangeal joint.
- Reaming should begin by using the smallest size of phalangeal Reamer (14mm) and must end with the same diameter size as the last Reamer on the metatarsal head. NOTE: The metatarsal head should be protected when reaming.
- Both the metatarsal and phalangeal reaming should end with the same size. Example, if the metatarsal reaming stopped at 16mm, the last and largest reamer used on the phalanx will be 16mm.



5 PROVISIONAL PLACEMENT / PLATE SELECTION

- The cup and cone shaped surfaces can be aligned in any desired position. It is then possible to rotate the surfaces and set the dorsal flexion and valgus angles.
- Once this is determined a provisional Guide Wire should be placed across the joint through the plantar aspect, aligning the joint in the proper and final arthrodesis position.



- 6 With the joint now stationary, the Plate should be placed over the joint and evaluated. This evaluation should determine the degree of bend (if any) desired. The Plate should then be bent using the Plate Bender provided within the instrument set. **NOTE:** Plates should only be bent in one direction. Never re-bend Plates.

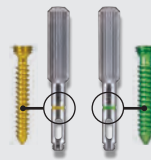


Threaded Plate Bender/Holder and Bending Iron



7 The Plate should then be positioned over the joint and held in place with 2, 1.2mm Olive or Guide Wires. Proximal Guide Wire should be placed proximally, within the pin fixation hole, to accommodate Compression Slot. Once in place, distal Screws should be inserted.

NOTE: All holes can accommodate both locking and non-locking Screws (3.0mm and 3.5mm diameter). The Compression Slot can only accommodate a 3.0mm non-locking Screw.



Color-coded Locking Screw Drill Guides

PROXIMAL PIN LOCATION



8 For CrossCHECK NX Plates the distal Screws should be placed first from medial to lateral.

3.0/3.5mm Locking Non-locking option

3.0mm Non-locking ONLY

SCREW SIZE & SEQUENCE



9 Once the distal Screws are in place, the 3.0mm non-locking Drill Guide can be used to prepare the Compression Slot Screw hole. For maximum compression, place the Drill Guide in the most proximal portion of the Compression Slot. The plantar provisional Guide Wire should be removed and the appropriate 3.0mm non-locking Screw placed in the Compression Slot.

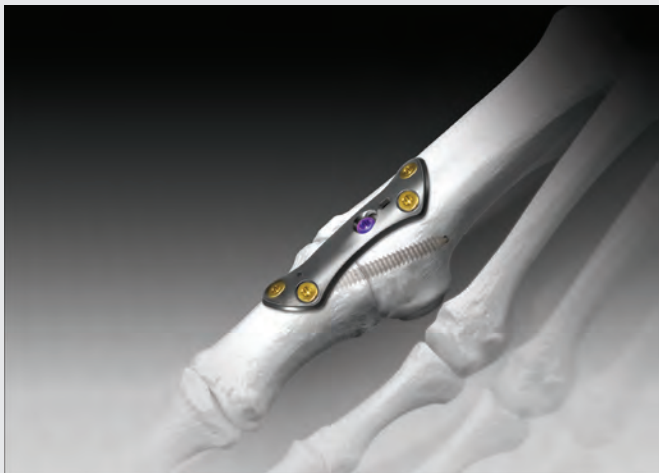
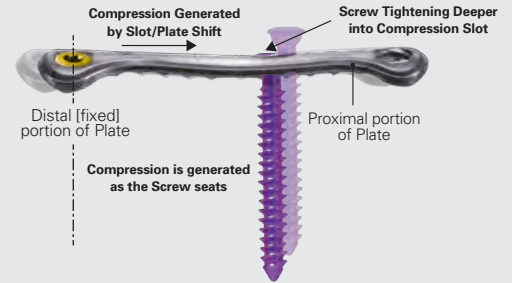
COMPRESSION SLOT DRILLING CENTER-POINT



MTP Compression Plate Surgical Technique cont.



- 10** The Compression Slot Screw (3.0mm non-locking only) should be tightened in a clock-wise motion until fully compressed. The Compression Slot allows for approximately 1.5mm of compressive movement. Once compressed, the remaining proximal Screws are inserted and all temporary fixation wires are removed.



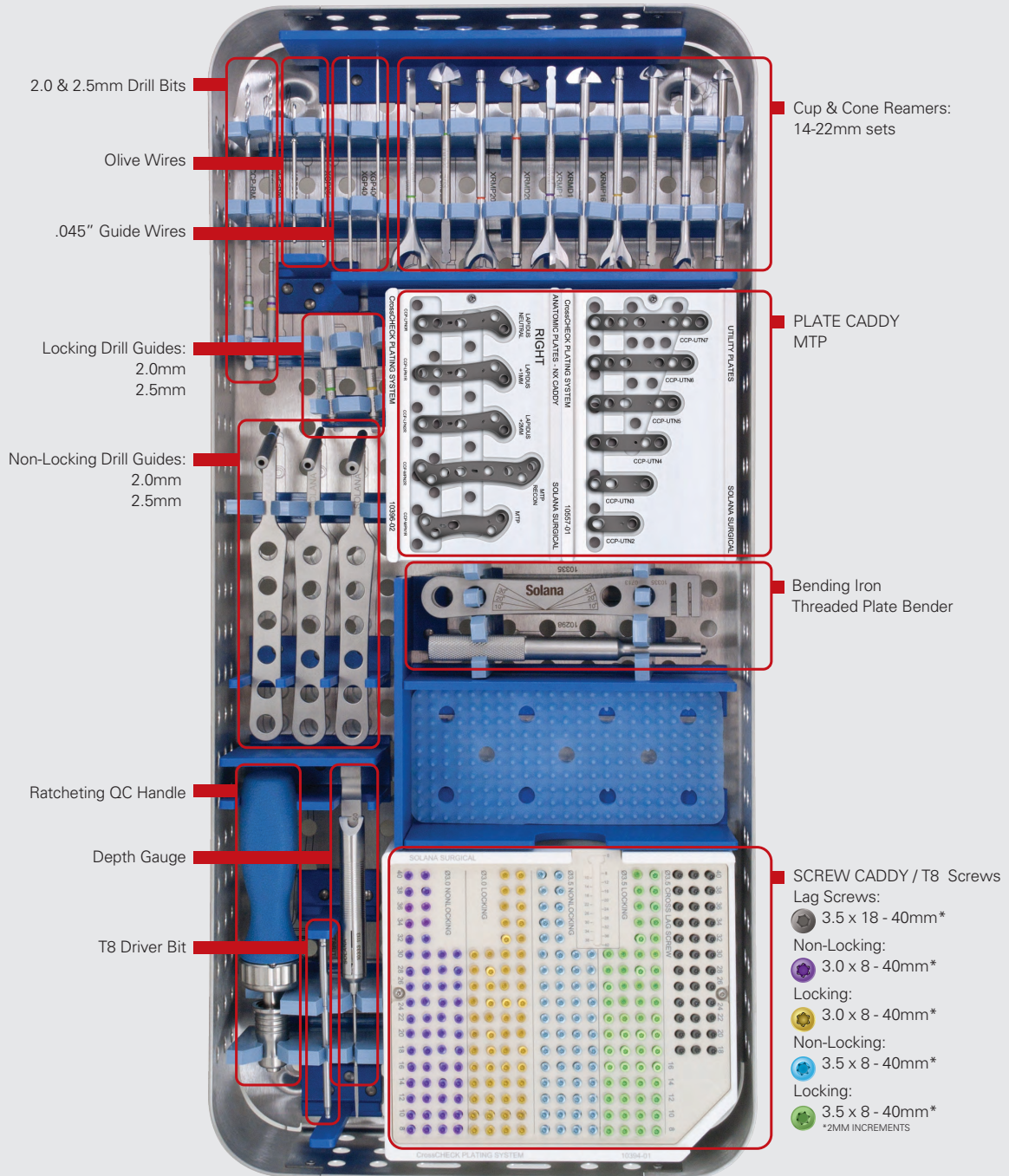
- 11** A non-locking plantar Screw can be Implanted across the fusion site to insure stable fixation. Surgical closure should be performed in a normal fashion.

DISCLOSURE: Proper surgical procedures and techniques are the responsibility of the medical professional. This guidelines are furnished for information purposes only. Each surgeon must evaluate the appropriateness of the procedures based on his or her personal medical training and experience. Prior to use of the system, the surgeon should refer to the product package insert for complete warnings, precautions, indications, contraindications and adverse effects. Package inserts are also available by contacting Solana Surgical, LLC.

Compression Slot Technology

CrossCHECK[™] NX Compression Plating System

CrossCHECK Instruments Tray



Ordering Info



CrossCHECKTM NX

Plating System - MTP Compression Plate



CATALOG NO	DESCRIPTION
CCP - MPN1L	MTP NX Plate Left
CCP - MPN1R	MTP NX Plate Right
CCP - MPN2L	MTP NX Plate Recon Left - Long
CCP - MPN2R	MTP NX Plate Recon Right - Long

CATALOG NO	DESCRIPTION
CCP - LPN0L	Lapidus NX Plate - Neutral, Left
CCP - LPN0R	Lapidus NX Plate - Neutral, Right
CCP - LPN1L	Lapidus NX Plate - 1mm step, Left
CCP - LPN1R	Lapidus NX Plate - 1mm step, Right
CCP - LPN2L	Lapidus NX Plate - 2mm step, Left
CCP - LPN2R	Lapidus NX Plate - 2mm step, Right

CATALOG NO	DESCRIPTION
CCP - UTN2	Utility Plate - 2 Hole
CCP - UTN3	Utility Plate - 3 Hole
CCP - UTN4	Utility Plate - 4 Hole
CCP - UTN5	Utility Plate - 5 Hole
CCP - UTN6	Utility Plate - 6 Hole
CCP - UTN7	Utility Plate - 7 Hole

CATALOG NO	STYLE	DIA x LENGTH
CCP-N3008	Non-Locking	3.0 x 8 mm
CCP-N3010	Non-Locking	3.0 x 10 mm
CCP-N3012	Non-Locking	3.0 x 12 mm
CCP-N3014	Non-Locking	3.0 x 14 mm
CCP-N3016	Non-Locking	3.0 x 16 mm
CCP-N3018	Non-Locking	3.0 x 18 mm
CCP-N3020	Non-Locking	3.0 x 20 mm
CCP-N3022	Non-Locking	3.0 x 22 mm
CCP-N3024	Non-Locking	3.0 x 24 mm
CCP-N3026	Non-Locking	3.0 x 26 mm
CCP-N3028	Non-Locking	3.0 x 28 mm
CCP-N3030	Non-Locking	3.0 x 30 mm
CCP-N3032	Non-Locking	3.0 x 32 mm
CCP-N3034	Non-Locking	3.0 x 34 mm
CCP-N3036	Non-Locking	3.0 x 36 mm
CCP-N3038	Non-Locking	3.0 x 38 mm
CCP-N3040	Non-Locking	3.0 x 40 mm
CCP-N3508	Non-Locking	3.5 x 8 mm
CCP-N3510	Non-Locking	3.5 x 10 mm
CCP-N3512	Non-Locking	3.5 x 12 mm
CCP-N3514	Non-Locking	3.5 x 14 mm
CCP-N3516	Non-Locking	3.5 x 16 mm
CCP-N3518	Non-Locking	3.5 x 18 mm
CCP-N3520	Non-Locking	3.5 x 20 mm
CCP-N3522	Non-Locking	3.5 x 22 mm
CCP-N3524	Non-Locking	3.5 x 24 mm
CCP-N3526	Non-Locking	3.5 x 26 mm
CCP-N3528	Non-Locking	3.5 x 28 mm
CCP-N3530	Non-Locking	3.5 x 30 mm
CCP-N3532	Non-Locking	3.5 x 32 mm
CCP-N3534	Non-Locking	3.5 x 34 mm
CCP-N3536	Non-Locking	3.5 x 36 mm
CCP-N3538	Non-Locking	3.5 x 38 mm
CCP-N3540	Non-Locking	3.5 x 40 mm

CATALOG NO	STYLE	DIA x LENGTH
CCP-L3008	Locking	3.0 x 8 mm
CCP-L3010	Locking	3.0 x 10 mm
CCP-L3012	Locking	3.0 x 12 mm
CCP-L3014	Locking	3.0 x 14 mm
CCP-L3016	Locking	3.0 x 16 mm
CCP-L3018	Locking	3.0 x 18 mm
CCP-L3020	Locking	3.0 x 20 mm
CCP-L3022	Locking	3.0 x 22 mm
CCP-L3024	Locking	3.0 x 24 mm
CCP-L3026	Locking	3.0 x 26 mm
CCP-L3028	Locking	3.0 x 28 mm
CCP-L3030	Locking	3.0 x 30 mm
CCP-L3032	Locking	3.0 x 32 mm
CCP-L3034	Locking	3.0 x 34 mm
CCP-L3036	Locking	3.0 x 36 mm
CCP-L3038	Locking	3.0 x 38 mm
CCP-L3040	Locking	3.0 x 40 mm
CCP-L3508	Locking	3.5 x 8 mm
CCP-L3510	Locking	3.5 x 10 mm
CCP-L3512	Locking	3.5 x 12 mm
CCP-L3514	Locking	3.5 x 14 mm
CCP-L3516	Locking	3.5 x 16 mm
CCP-L3518	Locking	3.5 x 18 mm
CCP-L3520	Locking	3.5 x 20 mm
CCP-L3522	Locking	3.5 x 22 mm
CCP-L3524	Locking	3.5 x 24 mm
CCP-L3526	Locking	3.5 x 26 mm
CCP-L3528	Locking	3.5 x 28 mm
CCP-L3530	Locking	3.5 x 30 mm
CCP-L3532	Locking	3.5 x 32 mm
CCP-L3534	Locking	3.5 x 34 mm
CCP-L3536	Locking	3.5 x 36 mm
CCP-L3538	Locking	3.5 x 38 mm
CCP-L3540	Locking	3.5 x 40 mm



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