

2.3mm CMS (Carpal Medial System) Surgical Technique

Medical Implants

Astrolabe recognizes that proper surgical procedures and techniques are responsibilities of medical professionals.

The following guidelines are provided for information purposes only. Each surgeon must evaluate the appropriateness of the procedures based on their medical training, experience and condition of the patient. Before using the system, the surgeon must consult the operating instructions for additional warnings, precautions, indications, contraindications and adverse effects.

CMS 2.3 mm CARPAL-MEDIAL SYSTEM



General features



2.3mm
Cortical/Locking



Locking Plate,
Arthrodesis, Medial
Carpal, 2.3mm

Locking Plate,
Partial-Arthrodesis,
"STT" Carpal,
Left/Right - 2.3 mm

- CMS 2.3mm system was developed to maximize surgical results by enhancing accuracy and safety.

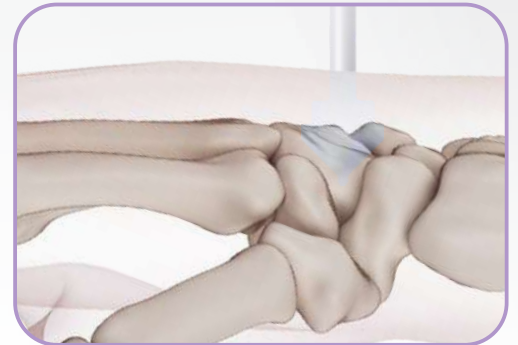
The low profile plates coupled with self-tapping screws offer solid fixation at positions where tension and pressure act more intensely.

- **General Indications:**

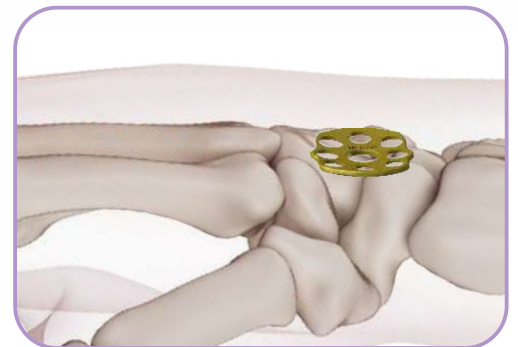
Specially developed for carpal bones fusion (mediocarpal arthrodesis), it allows solid anchorage and the union of four bones - Capitate, Lunate, Hamate and Pyramidal - and STT fusions - Scaphoid, Trapezoid and Trapezium.



- Insert the Countersink (item 02) through the dorsal surface of the bone until it reaches the same level of the back surface. This allows the plate to be placed below the bone surface level.

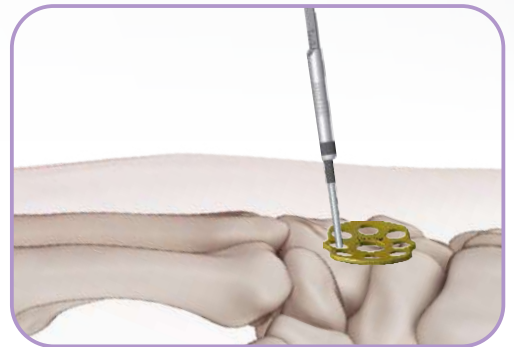
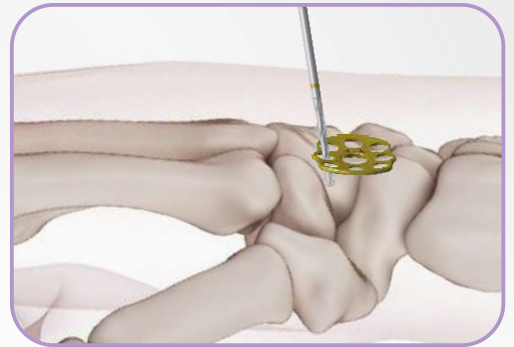


- **Note:**
By performing this step, extra care should be taken to keep enough bone to ensure that fixation by screws will be possible.



Surgical Technique

- To pre-fix the plate at desired position, use two Cortical Screws.
- Use the Drill Bit (item 01) to make a monocortical pre-drilling.
- Use the Depth Gauge (item 06) to measure and select the correct size of the screw.



Note:

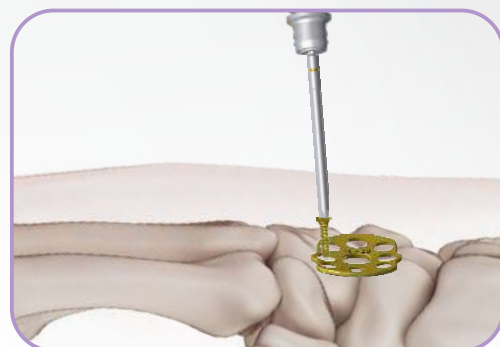
In this process, the Cortical Screws (non-locking) can be replaced by locking screws, if necessary.

Locking Screws Positioning

- Properly place the Threaded Drill Guide (item 09) by turning it into the threaded hole, then proceed with drilling using the Drill Bit (item 01).
- Use the Depth Gauge (item 06) to measure and select the correct size of the screw.

Surgical Technique

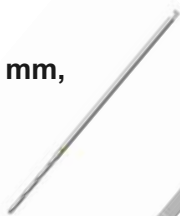
- Use the Handle (item 03) and Shaft Screwdriver (item 05) to position the screws.
- The placement of the screws procedure is repeated as many times as necessary, for optimal fixation of the plate.
- Proceed with x-ray to check if final position is according to initial intention.



Instruments

01

Drill Bit, Ø1.9 x 94 mm, Stop 26 mm,
Stryker Coupling, Yellow Code
Cod.: 09.01.07.19010



02

Countersink, Ø14.5 mm
AO Coupling
Cod.: 09.02.01.14500



03

Handle
Dental Coupling 110 mm, Yellow
Cod.: 09.04.05.11020



04

Locked Sleeve, 2.0 - 2.3 mm
Cod.: 09.06.08.20230



05

Shaft Screwdriver, Cross-2.3
70 mm, Dental Coupling
Yellow Code
Cod.: 09.07.13.23072



06

Depth Gauge, 60 mm
Cod.: 09.08.01.00060



07

Plate and Screw Holding Forceps
Angled-Serrated Jaw, 150 mm
Cod.: 09.10.06.10150



08

Bending Pliers
Flat, 135 mm
Cod.: 09.14.02.00135



09

Drill Guide, Ø2.0mm
Threaded, Hand 2.3mm
Cod.: 09.05.05.20023





2.3 mm

CMS (Carpal Medial system)

Surgical Technique