

Medartis AG  
Hochbergerstrasse 60E  
CH-4057 Basel  
P +41 61 633 34 34  
F +41 61 633 34 00

[www.medartis.com](http://www.medartis.com)

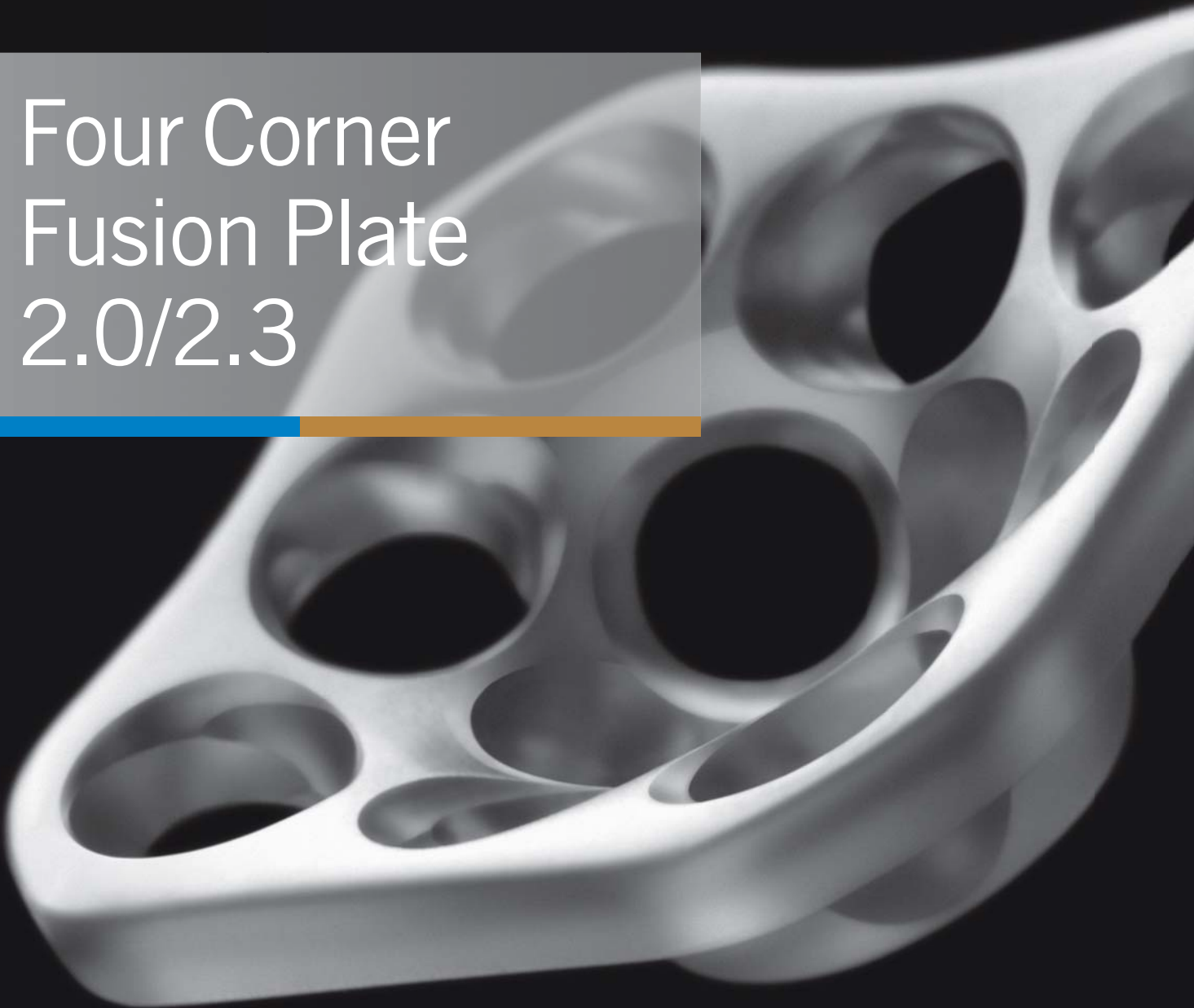
medartis®

PRECISION IN FIXATION

PRODUCT INFORMATION

Four Corner  
Fusion Plate  
2.0/2.3

APTUS®  
Wrist



# Four Corner Fusion Plate 2.0/2.3

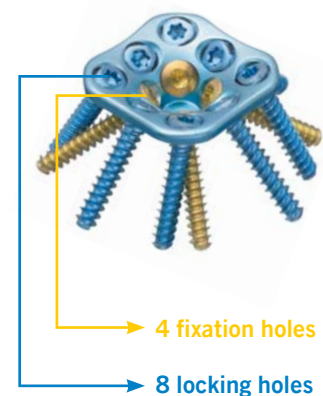
## Multidirectional angular stable plate osteosynthesis for mediocarpal partial arthrodesis

The APTUS Four Corner Fusion Plate is an extension to the APTUS Hand 2.0/2.3 fixation system. The implant was developed to fuse the carpal bones capitate, hamate, triquetrum and lunate. Special feature: the plate combines compression of the carpal bones with angular stable fixation and therefore creates a solid bone formation.

Plate osteosynthesis with the Four Corner Fusion Plate is intended for patients suffering from post-traumatic or degenerative carpal bone arthrosis, from carpal instability (SNAC or SLAC), from fractures in the intercarpal region or from failed partial arthrodesis. The APTUS Four Corner Fusion Plate allows for an early mobilization.

### FUSION OF THE CARPAL BONES THROUGH COMPRESSION AND STABILITY

- Plate has two different rows of screw holes
  - o Lower plate holes for compression of the carpal bones, using cortical screws
  - o Upper plate holes for the angular stable fixation, using TriLock locking screws
- Plate is placed beneath the bone surface – therefore no risk of impingement between the plate and the dorsal radiolunar edge of the radius
- In every carpal bone up to three screws can be inserted
- Concave shape of the reamer and the plate for minimal reaming depth and minimal bone removal
- Easy handling without intra-operative tilting of the plate
- Screws with HexaDrive screw head design
- All screws and instruments of the APTUS Hand 2.0/2.3 system can be used



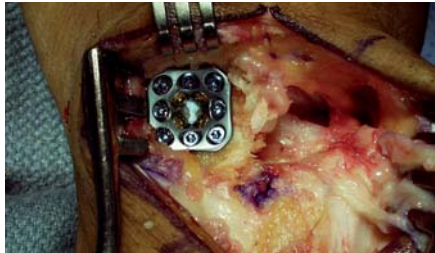
# Clinical Cases

## SNAC Wrist

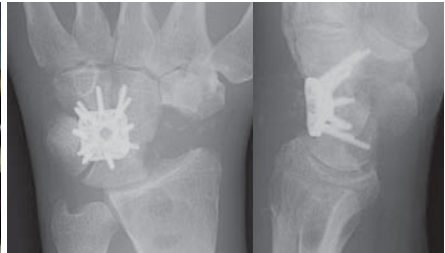
Dr. Arnold-Peter Weiss, Providence, USA



Radiograph of a 61-year-old woman, left wrist.



Per carpal bone capitate, hamate, triquetrum and lunate 3 screws (1x cortical screw, 2x locking screws) are inserted.



Postoperative X-ray control in 2 planes.

## SLAC Wrist

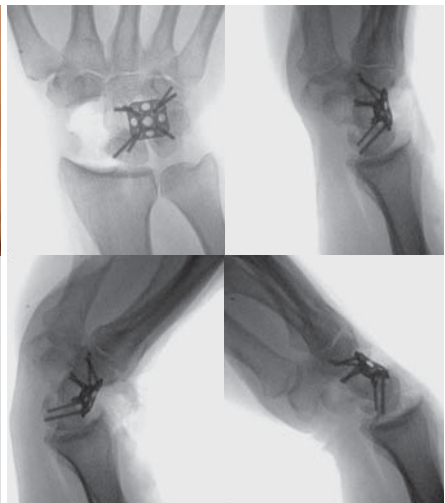
Prof. Dr. Hermann Krimmer, Ravensburg, Germany



Radiograph of a 55-year-old man, right wrist.



The inner plate holes are filled with 4 golden cortical screws, the outer plate holes are filled with 4 blue locking screws.



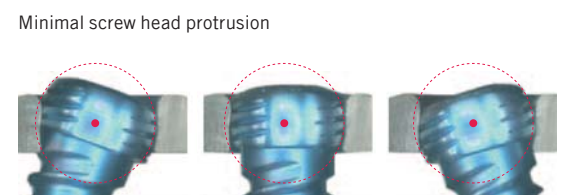
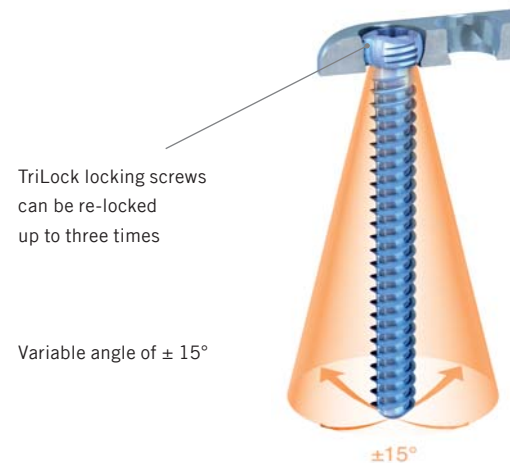
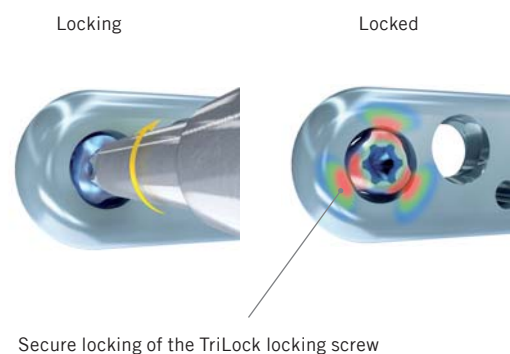
Postoperative X-ray control.

# Technology, Screw Features

## Multidirectional and angular stable TriLock locking technology

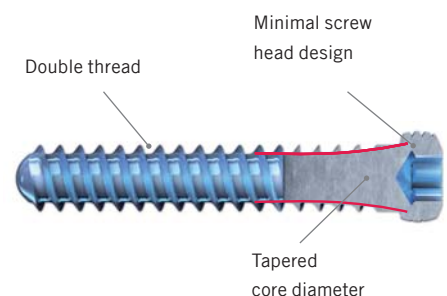
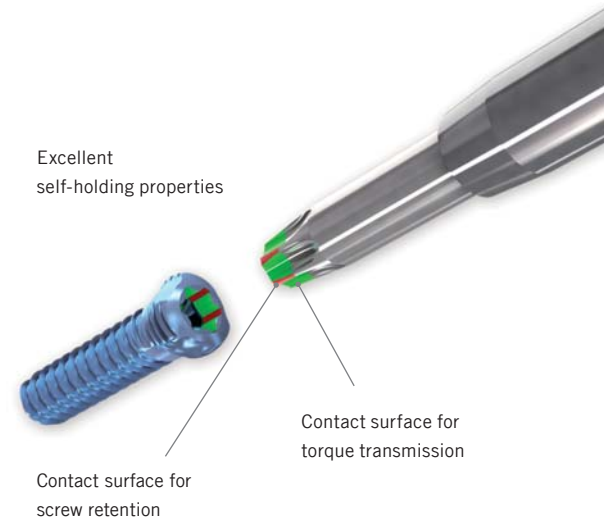
### Technology

- Secure, angular stable locking of the screw in the plate
  - Spherical three-point wedge-locking
  - Friction locking through radial bracing of the screw head in the plate – without additional tensioning components
- Screws can pivot freely by  $\pm 15^\circ$  in all directions for optimal positioning
- Intra-operative fine adjustable
- TriLock locking screws can be re-locked in the same plate hole under individual angles up to three times
- Minimal screw head protrusion thanks to submerged locking contour
- No cold welding between plate and screws



## Screw Features

- HexaDrive screw head design
  - Secure connection between screw and screwdriver
  - Increased torque transmission
  - Optimal self-retaining mechanism
- Maximum soft tissue protection due to chamfered shape of the screw head without sharp edges
- Atraumatic tip prevents soft tissue irritation when inserting screws bicortically
- Tapered core diameter for increased torsional and tensile strength
- Precision cut thread profile for improved sharpness and self-tapping properties
- Double threaded for faster insertion of TriLock locking screws
- TiAl6V4 for improved strength



# Ordering Information

## 2.0/2.3 Four Corner Fusion Plate

Material: Titanium (ASTM F67)  
 Plate thickness: 1.4 mm

### Fixation and Locking



Art. No.	Pieces per Pack
A-4660.10	1

## Locking Screws, HexaDrive 6, Ø 2.0 mm

Material: Titanium (ASTM F136)



Art. No.	Length	Pieces per Pack	Stickers
A-5450.06	6 mm	5	A-6095.06
A-5450.07	7 mm	5	A-6095.07
A-5450.08	8 mm	5	A-6095.08
A-5450.09	9 mm	5	A-6095.09
A-5450.10	10 mm	5	A-6095.10
A-5450.11	11 mm	5	A-6095.11
A-5450.12	12 mm	5	A-6095.12
A-5450.13	13 mm	5	A-6095.13
A-5450.14	14 mm	5	A-6095.14
A-5450.16	16 mm	5	A-6095.16
A-5450.18	18 mm	5	A-6095.18
A-5450.20	20 mm	5	A-6095.20

For a package of 1 please add "/1" at the end of the art. no., for example A-5450.10/1

## Cortical Screws, HexaDrive 6, Ø 2.0 mm

Material: Titanium (ASTM F136)



1:1

Art. No.	Length	Pieces per Pack	Stickers
A-5400.06	6 mm	5	A-6095.06
A-5400.07	7 mm	5	A-6095.07
A-5400.08	8 mm	5	A-6095.08
A-5400.09	9 mm	5	A-6095.09
A-5400.10	10 mm	5	A-6095.10
A-5400.11	11 mm	5	A-6095.11
A-5400.12	12 mm	5	A-6095.12
A-5400.13	13 mm	5	A-6095.13
A-5400.14	14 mm	5	A-6095.14
A-5400.15	15 mm	5	A-6095.15
A-5400.16	16 mm	5	A-6095.16
A-5400.17	17 mm	5	A-6095.17
A-5400.18	18 mm	5	A-6095.18
A-5400.19	19 mm	5	A-6095.19
A-5400.20	20 mm	5	A-6095.20

For a package of 1 please add "/1" at the end of the art. no., for example A-5400.10/1

## Cortical Screws, HexaDrive 6, Ø 2.3 mm

Material: Titanium (ASTM F136)



1:1

Art. No.	Length	Pieces per Pack	Stickers
A-5500.06	6 mm	5	A-6095.06
A-5500.07	7 mm	5	A-6095.07
A-5500.08	8 mm	5	A-6095.08
A-5500.09	9 mm	5	A-6095.09
A-5500.10	10 mm	5	A-6095.10
A-5500.11	11 mm	5	A-6095.11
A-5500.12	12 mm	5	A-6095.12
A-5500.13	13 mm	5	A-6095.13
A-5500.14	14 mm	5	A-6095.14
A-5500.15	15 mm	5	A-6095.15
A-5500.16	16 mm	5	A-6095.16
A-5500.17	17 mm	5	A-6095.17
A-5500.18	18 mm	5	A-6095.18
A-5500.19	19 mm	5	A-6095.19
A-5500.20	20 mm	5	A-6095.20

For a package of 1 please add "/1" at the end of the art. no., for example A-5500.10/1

Twist Drills for Screws Ø 2.0 mm



A-3410



A-3420



A-3430

Art. No	Ø Twist Drills	Stop	Length	Drill Shaft End	Pieces per Pack
A-3410	1.6	25 mm	87 mm	Dental	1
A-3420	1.6	25 mm	87 mm	Stryker J-Latch	1
A-3430	1.6	25 mm	81 mm	AO Quick Coupling	1

2.0 /2.3 Reamer 4CF Plate

Art. No. A-3630



### 2.0/2.3 Screwdriver, HexaDrive 6

Art. No. A-2610



### 1.2 – 2.3 Drill Guide

Art. No. A-2020



### 2.0/2.3 Depth Gauge

Art. No. A-2032



### Handle with Quick Connector, AO

Art. No. A-2070



### 3/16 Module for 4CF Plates/Reamer, height 25 mm

Art. No. A-6400



### K-Wires, 150 mm

Material: Stainless Steel



Art. No.	Description	Pieces per Pack
A-5042.21	Ø 1.2 mm, Lancet	10
A-5042.41	Ø 1.6 mm, Lancet	10

### K-Wires, 150 mm

Material: Stainless Steel



Art. No.	Description	Pieces per Pack
A-5040.21	Ø 1.2 mm, Trocar	10
A-5040.41	Ø 1.6 mm, Trocar	10

### K-Wire Dispenser, 185 mm

Material: Stainless Steel



Art. No.	Description	Pieces per Pack
A-6010.12	Ø 1.2 mm	1
A-6010.16	Ø 1.6 mm	1

# Addresses

## AUSTRALIA

Medartis Australia &  
New Zealand Pty Ltd  
Unit 6, 10 Hudson Road  
PO Box 111  
Albion Qld 4010, Australia  
P 1300 858 853  
P <sup>int</sup> +61 7 3326 8700  
F 1300 854 665  
F <sup>int</sup> +61 7 3862 2665

## AUSTRIA

Medartis GmbH  
Twin Tower  
Wienerbergstrasse 11/12a  
A-1100 Wien  
P +43 1 99460 6499  
F +43 1 99460 6498

## FRANCE

Medartis S.A.R.L.  
Domaine d'Entreprises  
29, rue Condorcet  
F-38090 Vaulx Millieu  
P +33 474 99 94 14  
F +33 474 99 00 19

## GERMANY

Medartis GmbH  
Am Gansacker 10  
D-79224 Umkirch  
P +49 7665 98 24 0  
F +49 7665 98 24 10

## MEXICO

Medartis S.A. de C.V.  
Av. Presidente Masaryk 111 Piso 1  
Col. Chapultepec Morales  
Del. Miguel Hidalgo  
MEX-11560, México, D.F.  
P (+52 55) 3300 6054  
F (+52 55) 3300 6006

## NEW ZEALAND

Medartis New Zealand Ltd  
PO Box 28461  
Remuera  
Auckland, 1541  
New Zealand  
P 0800 548 001  
P <sup>int</sup> +64 9 909 0416  
F 0800 548 002  
F <sup>int</sup> +64 9 909 0419

## POLAND

Medartis Sp. z o.o  
ul. Sokolnicza 5/29  
PL-53676 Wrocław  
P +48 71 359 56 18  
F +48 71 359 56 15

## SPAIN

Medartis SL  
Avda. de la Industria, 4  
Edificio O, Local C  
E-28108 Alcobendas, Madrid  
P +34 91 661 33 15  
F +34 91 661 33 90

## UNITED KINGDOM

Medartis Ltd.  
Batley Business Park  
Suite 63, Annexe 4,  
Technology Drive, Batley  
West Yorkshire, WF17 6ER  
United Kingdom  
P +44 (0)1924 476699  
F +44 (0)1924 472000

## USA

Medartis Inc.  
127 W. Street Rd, Suite 203  
Kennett Square, PA 19348  
USA  
P +1 610 961 6101  
Toll free 877 406 BONE (2663)  
F +1 610 961 6108