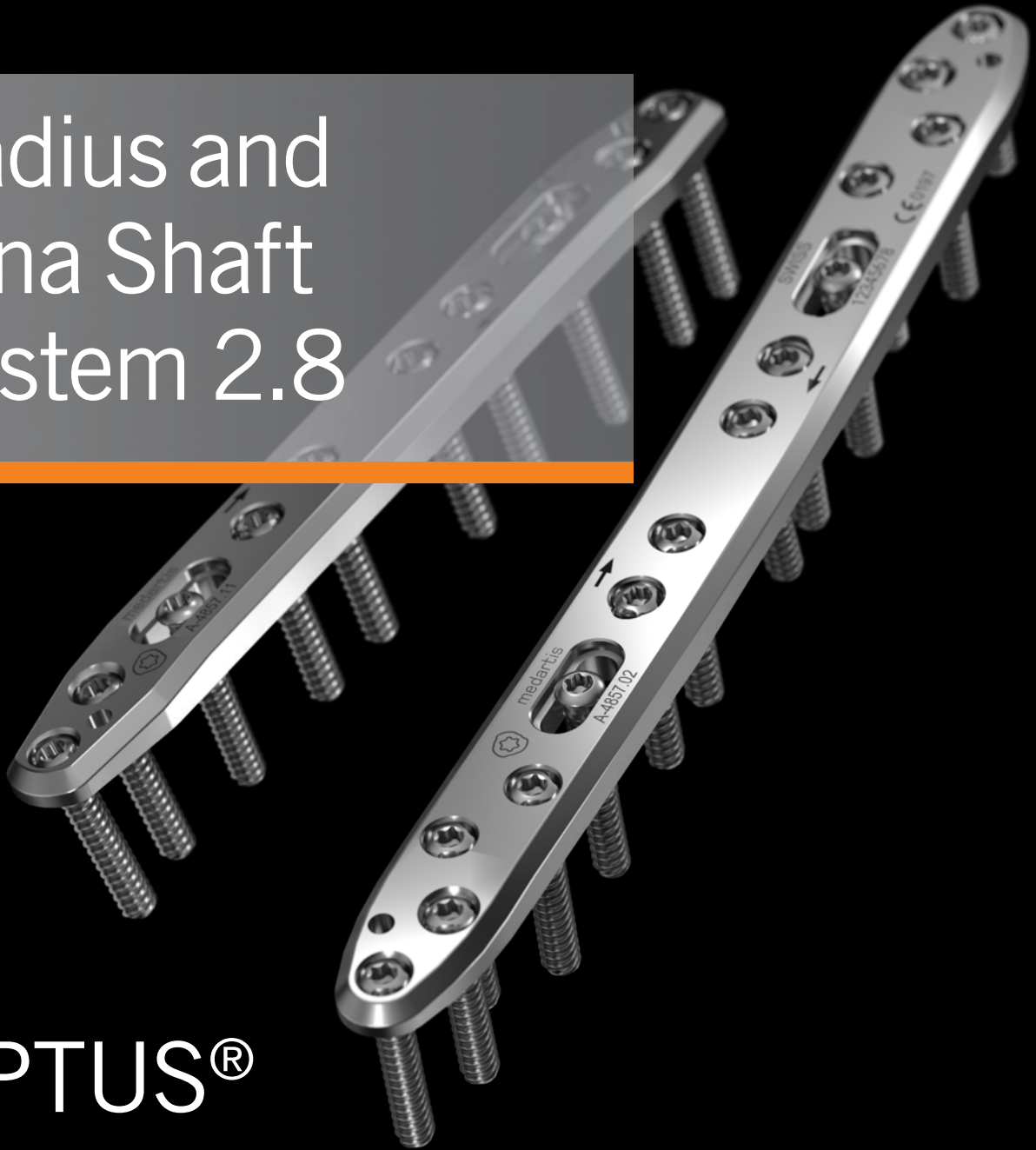


medartis®

PRECISION IN FIXATION

PRODUCT INFORMATION

Radius and Ulna Shaft System 2.8



APTUS®
Forearm

Radius and Ulna Shaft System 2.8

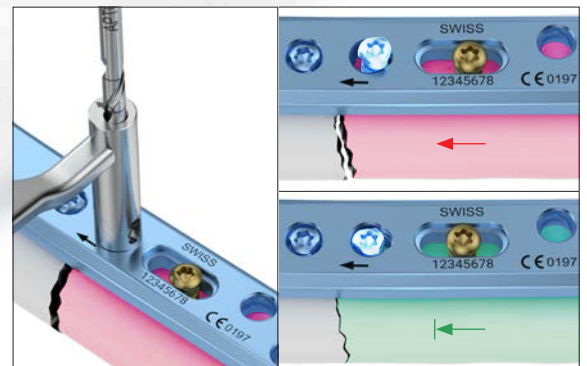
A standard taken to the next level

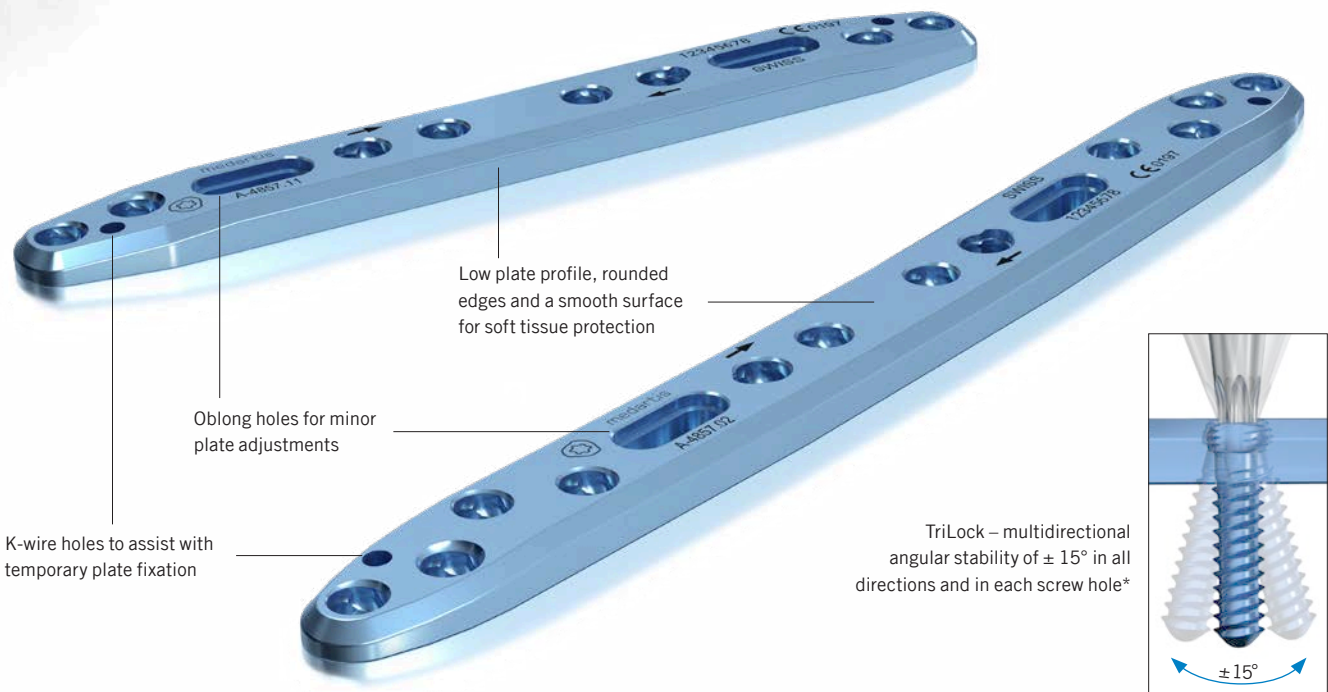
Clinical Benefits

- Precontoured and straight plate designs to facilitate anatomical reduction of shaft fractures
- Numerous plate lengths to address different fracture patterns
- Offset screw arrangement to address small fragments more easily and to provide additional stability
- Tapered plate ends may help reduce peak stresses on the bone
- Consistent screw diameter of 2.8 mm for intraoperative simplicity



TriLock^{PLUS} screw holes offer the advantage of locking and compression in one step





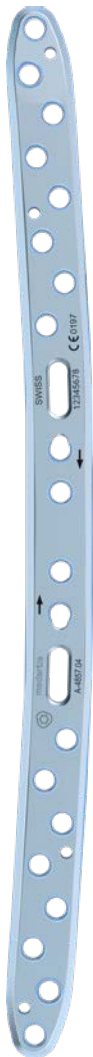
*Exception: oblong holes

System Overview

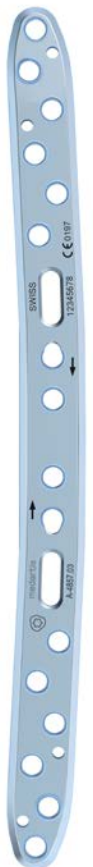
The implant plates of the APTUS Forearm Radius and Ulna Shaft System 2.8 are available in the following designs:

2.8 TriLock Radius Shaft Plates

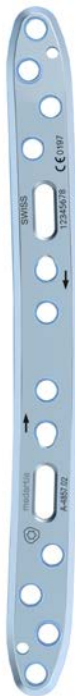
2.8 TriLock Ulna Shaft Plates



A-4857.04
2.8 TriLock
Radius Shaft Plate
22 Holes



A-4857.03
2.8 TriLock
Radius Shaft Plate
18 Holes



A-4857.02
2.8 TriLock
Radius Shaft Plate
14 Holes



A-4857.01
2.8 TriLock
Radius Shaft Plate
10 Holes



A-4857.11
2.8 TriLock
Ulna Shaft Plate
10 Holes



A-4857.12
2.8 TriLock
Ulna Shaft Plate
14 Holes



A-4857.13
2.8 TriLock
Ulna Shaft Plate
18 Holes



A-4857.14
2.8 TriLock
Ulna Shaft Plate
22 Holes

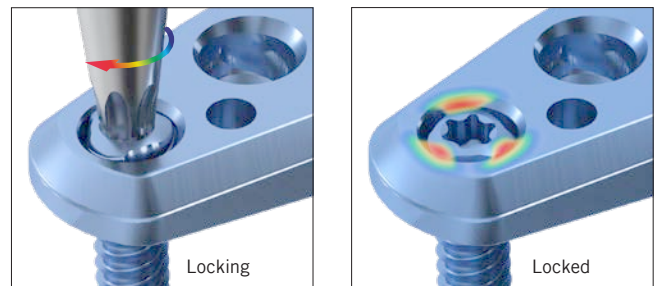
Technology, Biomechanics, Screw Features

Multidirectional and angular stable TriLock[®] locking technology

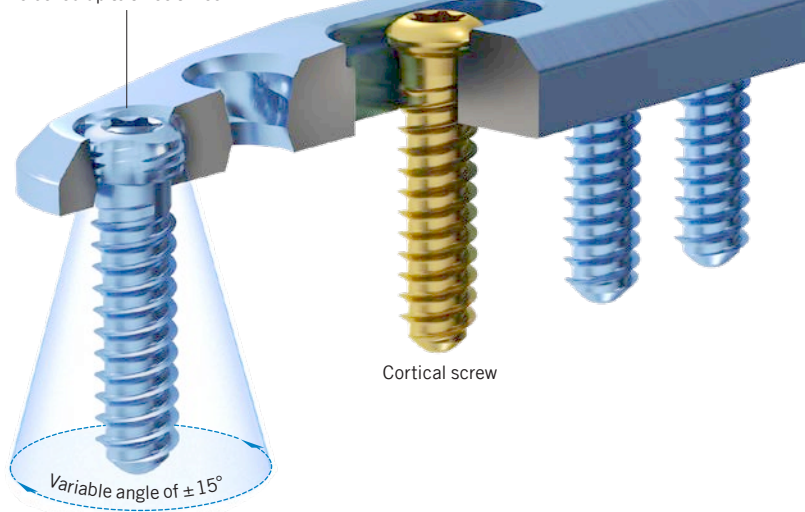
TriLock Technology

- Patented TriLock locking technology – multidirectional 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
- Fine-tuning capabilities of fracture fragments
- TriLock screws can be relocked in the same screw hole at individual angles up to three times
- Minimal screw head protrusion thanks to internal locking contour
- No cold welding between plate and screws

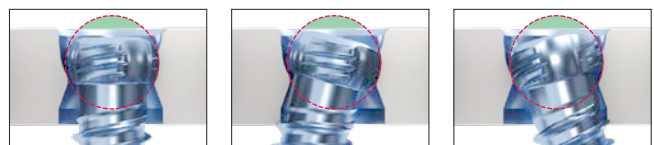
Patented TriLock locking technology – multidirectional locking of the screw in the plate



TriLock screws can be relocked up to three times

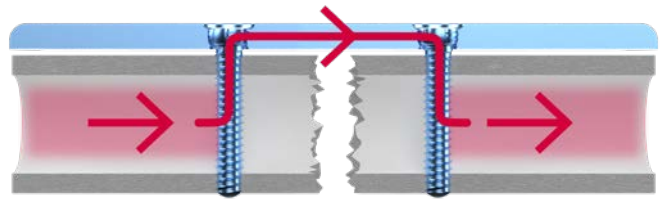


Completely countersunk screws



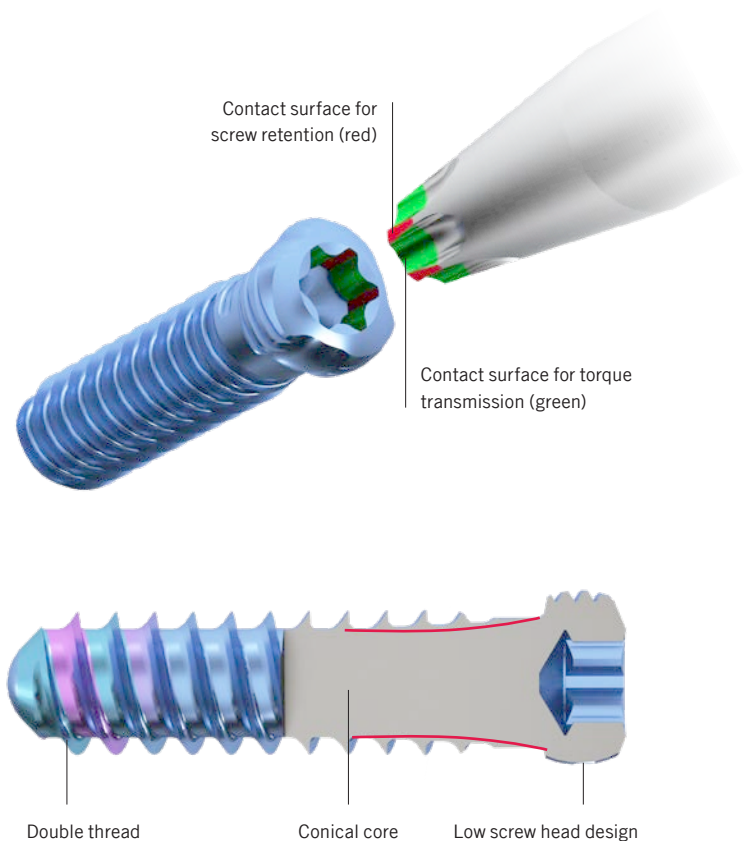
Biomechanics

- Internal fixator principle
 - Stable plate-screw construct allows for the bridging of unstable zones



Screw Features

- Patented HexaDrive screw head design:
 - HexaDrive interface with self-holding properties between screw and screwdriver
 - Increased torque transmission
 - Simplified screw pick-up due to patented self-holding technology
- Atraumatic screw tip offers soft tissue protection when inserting screws bicortically
- Soft tissue protection due to smooth screw head design
- Double-threaded screws reduce screw insertion time
- Increased torsional, bending and shear stability due to conical core
- Precision-cut thread profile for sharpness and self-tapping properties



Bibliography

1. Schulte, L. M. et al. (2014), **Management of Adult Diaphyseal Both-bone Forearm Fractures.** J Am Acad Orthop Surg, 22(7), 437–446.
2. Korompilias, A. V. et al. (2011), **Distal Radioulnar Joint Instability (Galeazzi Type Injury) After Internal Fixation in Relation to the Radius Fracture Pattern.** JHS, 36A:847–852.
3. Ring, D. et al. (2006), **Isolated Radial Shaft Fractures Are More Common Than Galeazzi Fractures.** J Hand Surg 2006;31A:17–21.
4. Ellwein, A. and H. Lill, **[Diaphyseal fractures of the forearm in adults].** Obere Extremität, 2015. 10(4): p. 222–228
5. Jayakumar, P. and J.B. Jupiter, **Reconstruction of malunited diaphyseal fractures of the forearm.** Hand (N Y), 2014a. 9(3): p. 265–73.
6. Lee, S.K., et al., **Plate osteosynthesis versus intramedullary nailing for both forearm bones fractures.** Eur J Orthop Surg Traumatol, 2014. 24(5): p. 769–76.

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