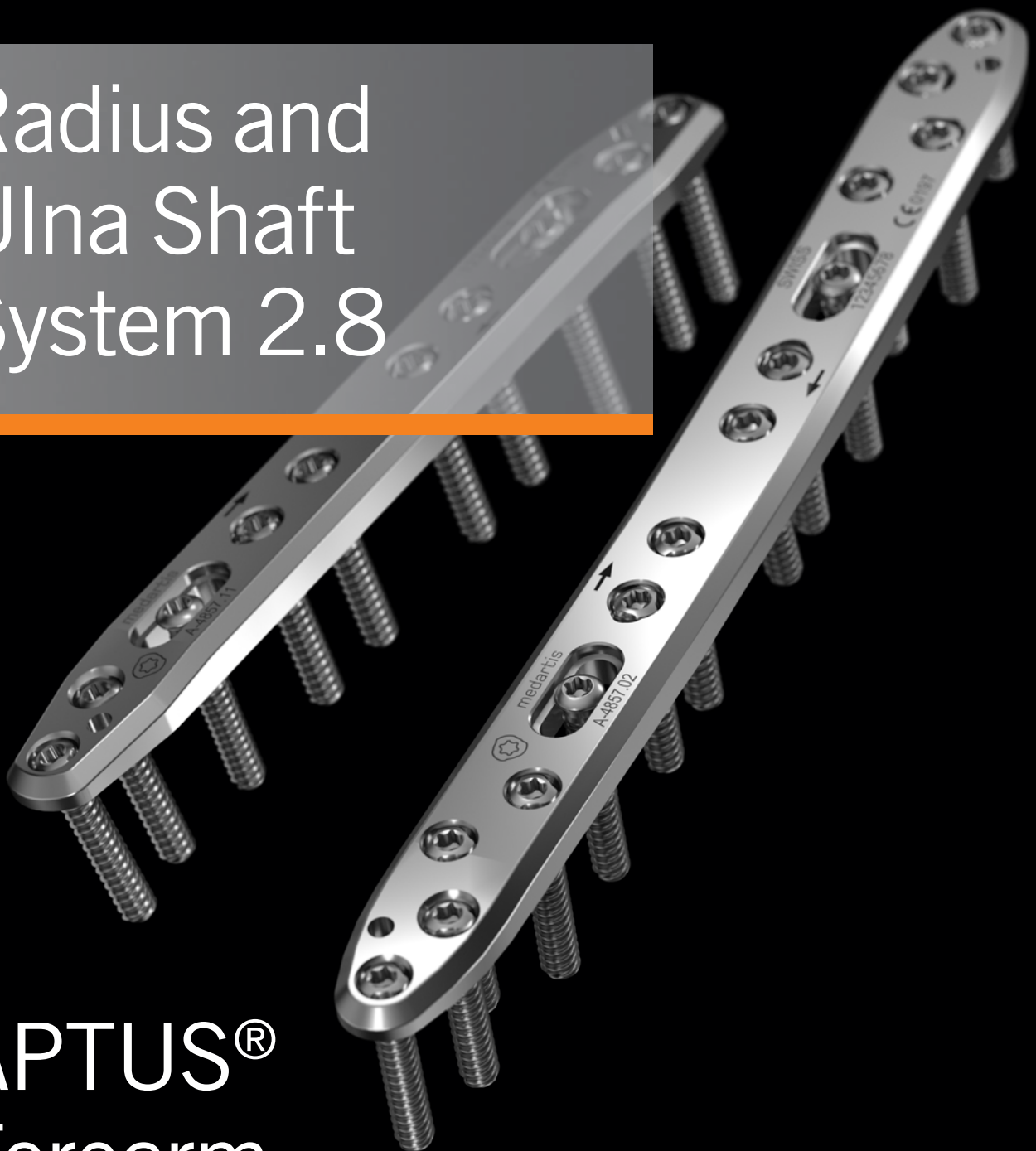


medartis®

PRECISION IN FIXATION

PRODUCT INFORMATION

# Radius and Ulna Shaft System 2.8



APTUS®  
Forearm

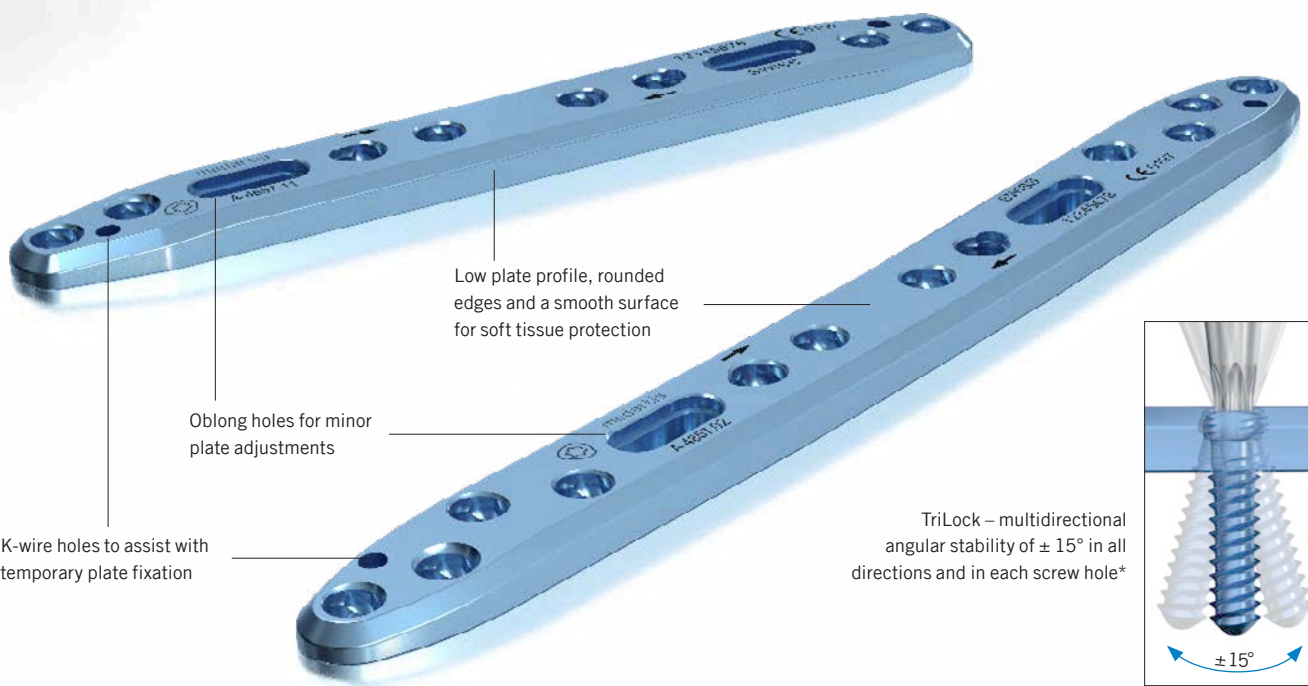
# Radius and Ulna Shaft System 2.8

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





K-wire holes to assist with temporary plate fixation

Oblong holes for minor plate adjustments

Low plate profile, rounded edges and a smooth surface for soft tissue protection

TriLock – multidirectional angular stability of  $\pm 15^\circ$  in all directions and in each screw hole\*



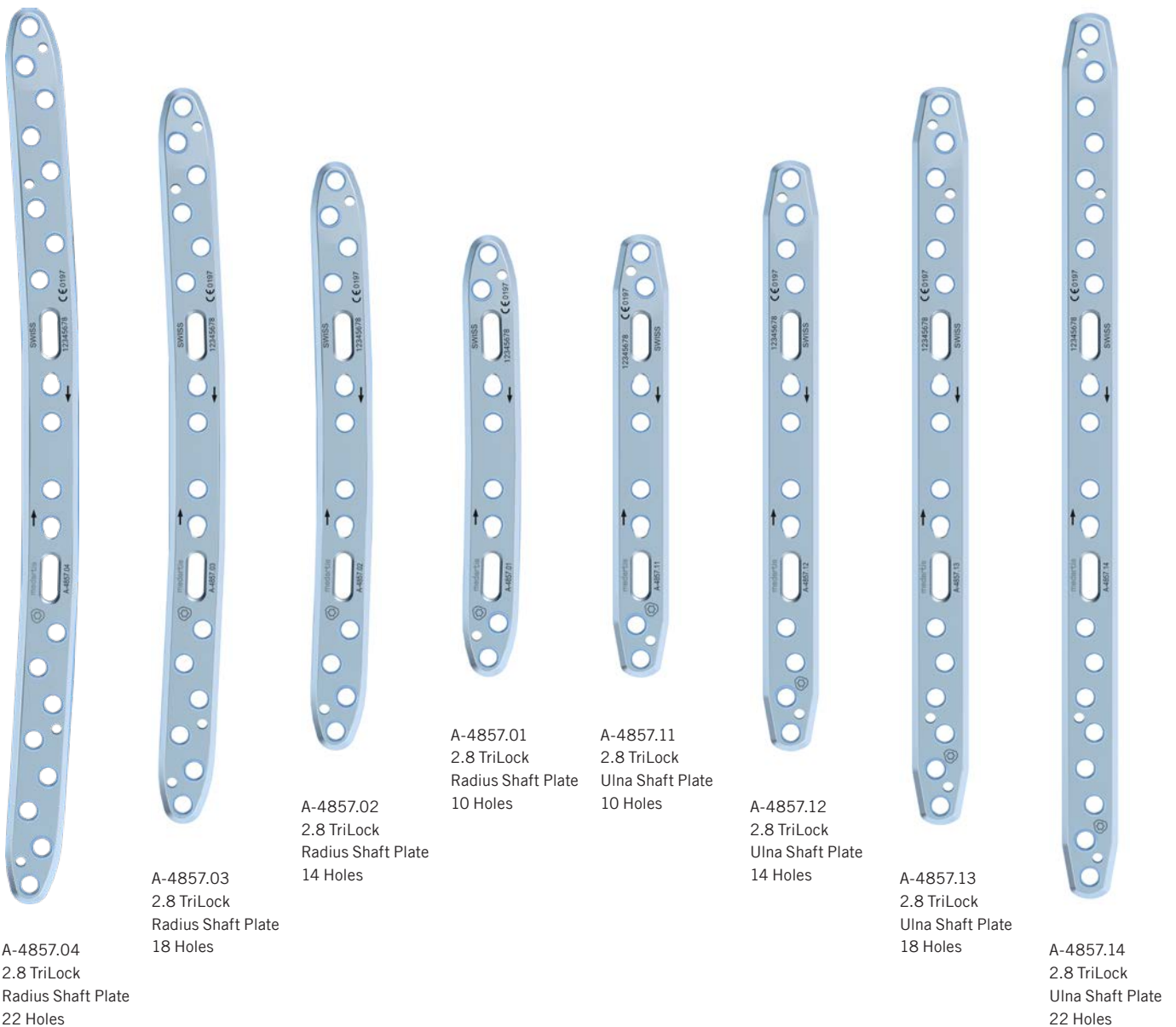
\*Exception: oblong holes

# 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



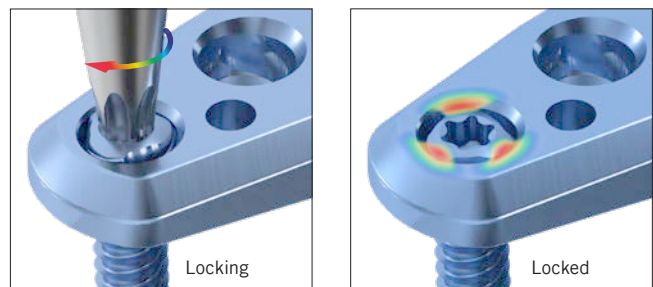
# Technology, Biomechanics, Screw Features

## Multidirectional and angular stable TriLock<sup>®</sup> locking technology

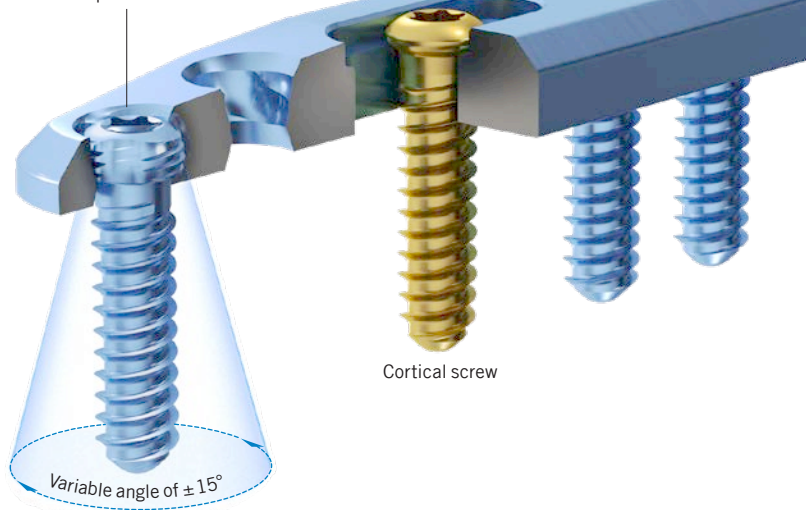
### TriLock Technology

- 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

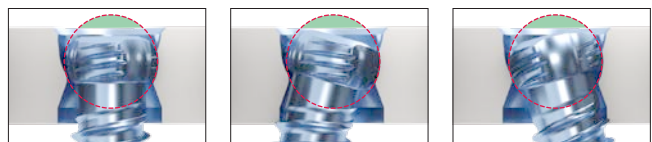
Patented TriLock locking technology – multidirectional locking of the screw in the plate



TriLock screws can be relocked up to three times

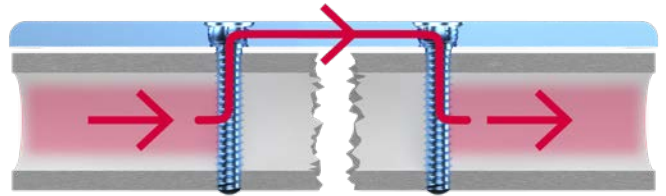


Completely countersunk screws



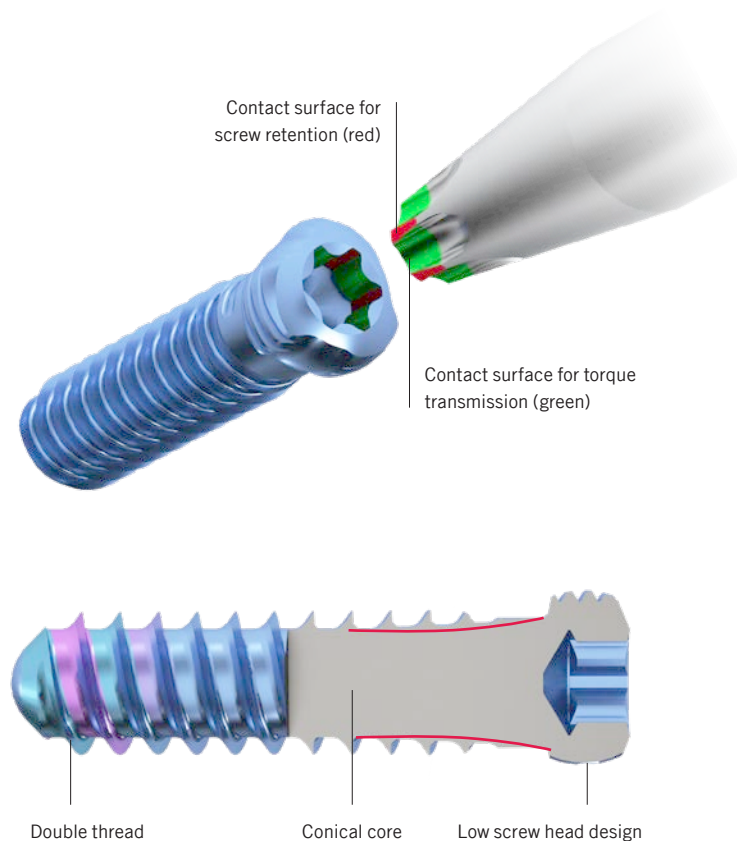
## Biomechanics

- 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

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#### MANUFACTURER & HEADQUARTERS

Medartis AG | Hochbergerstrasse 60E | 4057 Basel/Switzerland

P +41 61 633 34 34 | F +41 61 633 34 00 | [www.medartis.com](http://www.medartis.com)

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