PRODUCT INFORMATION

TriLock 1.5
Scaphoid Plate

APTUS®
Hand
TriLock 1.5 Scaphoid Plate

Angular stable treatment for scaphoid nonunion

Clinical Benefits and Plate Features

Optimized Plate Geometry

• Excellent stability of the reduction due to grid structure
• Two bars in the middle keep bone graft in place
• For optimal stability, up to 3 TriLock screws can be placed on each side of the nonunion
• Anatomically preshaped plate for simple and fast intraoperative use
• Marginal holes only have one bar to easily fit the plate to the shape of the scaphoid
• Variable angled locking (±15°) in each plate hole
• Early mobilization possible due to angular stability
• Volar plate placement
• Easy explantation

Maximum Soft Tissue Protection

• 0.8 mm low profile plate
• Highly polished surface and well rounded edges to reduce soft tissue irritation
• Minimal overall profile height

LITERATURE


www.medartis.com/products/aptus/hand
Biomechanics

- Internal fixator principle
  - Stable plate – screw construct allows the bridging of unstable zones
  - Improved vascularization of the periosteum due to low contact of the plate

TriLock 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 ± 15° in all directions for optimal positioning
- Intra-operative fine tuning capabilities
- TriLock screws can be re-locked in the same plate hole under individual angles up to three times
- Minimal screw head protrusion thanks to internal 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
- 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 screws
- TiAl6V4 for improved strength

Ordering Information

1.5 TriLock Scaphoid Plate

Material: Titanium (ASTM F67)
Plate thickness: 0.8 mm

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1.5 TriLock Screws, HexaDrive 4

Material: Titanium (ASTM F136)

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Clinical Cases

Case 1 - Scaphoid Nonunion

Preoperative CT and X-ray
Patient: male, 18 years old
Nonunion of the scaphoid

Intraoperative images
Left: Intraoperative X-ray. A K-wire was placed for additional stability
Right: Plate fixed to the scaphoid

Left: X-ray, 6 weeks postoperative
Right: CT, 15 weeks postoperative
The union of the pseudarthrosis is well visible

Case 2 - Scaphoid Nonunion

Preoperative CT and X-ray
Patient: male, 38 years old
Nonunion of the scaphoid

Intraoperative image, volar
Left: Resection of the pseudarthrosis tissue
Right: Pre-fixation of the plate with a suture

X-rays, 10 weeks postoperative
The union of the pseudarthrosis is well visible