

PRODUCT INFORMATION

Distal Radius System 2.5

APTUS® Wrist

Contents

- 3 A New Generation of Radius Plates
- 4 One System for Primary and Secondary Reconstruction
- 6 ADAPTIVE II Distal Radius Plates
- 8 FPL Plates
- 10 Hook Plates
- 11 Lunate Facet Plates
- 12 Rim Plates
- 13 Fracture Plates
- 14 Correction Plates
- 15 Volar Frame Plates
- 16 Extra-Articular Plates
- 17 Small Fragment Plates
- 18 Dorsal Frame Plates
- 19 XL Plates
- 20 Distal Ulna Plates
- 21 Fracture Treatment Concept
- 22 Technology, Biomechanics, Screw Features
- 24 Precisely Guided Screw Placement
- 25 Instrument for Reconstruction of the Volar Tilt
- 26 Storage
- 27 Overview Screw Trajectories
- 29 Ordering Information
- 47 Bibliography

For further information regarding the APTUS product line visit: www.medartis.com/products

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A New Generation of Radius Plates

Why is a new generation of radius plates needed?

Distal radius fractures are the most common fractures of the upper extremities. The knowledge of these fractures has grown enormously over the last years. Treatment concepts have likewise been refined. It is now generally accepted that the best possible anatomical reconstruction of the radiocarpal joint (RCJ) and distal radioulnar joint (DRUJ) to produce a functional outcome is a requirement. Multidirectional and angular stable plate systems have enabled open reduction and internal fixation to become an established treatment method for intra- and extra-articular distal radius fractures. These systems have enabled even severe extension fractures with dorsal defect zones to be precisely repositioned and treated with osteosynthesis via volar access without the need for additional cortico-cancellous bone graft.

Can an established system be further improved?

The literature shows that differentiating treatment strategies, taking into consideration different fracture types and modern implants, are able to lower the rate of complications and significantly improve functional outcomes^{1–8}. Complications such as irritations and ruptures of the flexor tendons and extensor tendons are still described in the literature, however^{10–20}. These complications are caused by a prominent distal plate design or a plate position that is too distal, for example. Healing of a distal radius fracture in an incorrect position is another common complication. This has a longterm negative

effect on the joint geometry with a resultant restriction in wrist mobility, reduction in the grip force, and development of pain and possible early osteoarthritis.

In collaboration with internationally renowned specialists, Medartis has refined its established APTUS radius portfolio to lower the rates of these complications.

One System for Primary and Secondary Reconstruction

Complete system for fracture-specific treatment



ADAPTIVE volar radius plates for very distal placement and for support of the lunate facet and the DRUJ. A selection of different widths and lengths to meet different anatomical requirements.



Hook plates for the treatment of very small distal rim fragments and bony ligament avulsions.



FPL plates for stabilization of the sigmoid notch, the lunate facet and improved radial support. The unique plate design enables a very distal plate position considering the flexor pollicis longus tendon. Classic styloid-oriented volar plates for the treatment of extension fractures that extend towards the radial styloid. Volar correction plates indicated for correction osteotomies and extension fractures with radial defect.



Specific small fragment plates for dorsal, volar and radial fixation.



Lunate facet and rim plates for support of volar rim fractures.



Dorsal plates for fractures that cannot be addressed with a volar plate.



XL plates for fixation of combined diaphyseal-metaphyseal radius fractures.

ADAPTIVE II Distal Radius Plates Support of the lunate facet and the DRUJ

Clinical Benefits

- Improved anatomical fit *
- Stabilization of the sigmoid notch and lunate facet
- Treatment of fractures with ulnar fragments
- Three different widths to meet individual anatomical requirements
- Window enables viewing of the fracture position









Subchondral buttressing of the RCJ and DRUJ due to the possibility of converging screw placement

* Evaluated on 250 cadaver bones

** Clinical case published with the kind permission of: Bernard Schick, Sydney, Australia



Female. 77 years. Simple intra-articular fracture **

Specific Plate Features



Plate Features

- \bullet TriLock variable angle of \pm 15° in all directions in each screw hole *
- Pre-angled TriLock holes for oriented screw placement specially for the radial styloid
- Rounded edges and a smooth surface for soft tissue protection
- Oblong hole for variable positioning of the plate
- Radiolucent drill guide block available for rapid and easy angulation of screws
- K-wire holes for temporary fixation of the plate

* Exception: oblong hole

FPL Plates

Support of the lunate facet, the DRUJ and the radial styloid

Flexor tendon injury is a recognized complication after open reduction and internal fixation with volar locking plates of distal radius fractures^{10–20}. A major contributing factor to these tendon problems is reported to be plate prominence in the region of the watershed line where the flexor tendons are in direct contact with the bone, hence metal protruding this aspect would inflict immediate irritation of these structures. The flexor pollicis longus (FPL) tendon travels in the distal radial metaphysis over the watershed line between the scaphoid and lunate facets. The placement of a volar plate distal to the watershed line especially in this aspect is therefore a potential cause of FPL tendon injury, as the transverse distal edge of the plate, when placed too distally, would be in direct contact with the FPL tendon.

Clinical Benefits

- Improved anatomical fit *
- Stabilization of the sigmoid notch, the lunate facet and improved radial support
- Very distal plate positioning possible

- Y-shape with a central recess may minimize the contact pressure on the flexor pollicis longus tendon
- Window enables viewing of the fracture position



Position of the FPL tendon





* Evaluated on 250 cadaver bones

Specific Plate Features



- TriLock variable angle of $\pm 15^{\circ}$ in all directions in each screw hole **
- Pre-angled TriLock holes for oriented screw placement specially for the radial styloid
- Rounded edges and a smooth surface for soft tissue protection
- Oblong hole for variable plate positioning
- ** Exception: oblong hole

- Radiolucent drill guide block available for rapid and easy angulation of screws
- First distal screw row for support of the central aspect of the radio carpal joint
- Second distal screw row provides stabilization of the dorsal rim
- K-wire holes for temporary fixation of the plate

Hook Plates

For treatment of small, very distal fracture fragments and bony ligament avulsions

Small fracture fragments that are distal to the watershed line represent a clinical challenge. A conventional volar distal radius plate which is placed distally of the watershed line to fixate these avulsed fragments would lead to flexor tendon irritations and screws for capturing these fragments would be too large.

Clinical Benefits

- Hook plate design to fixate rim fragments and bony ligament avulsions
- Plate can be positioned below the volar plate
- Two different widths to meet individual anatomical requirements

Plate Features

- Low plate profile (0.6 mm) and non-protruding screw heads for soft tissue protection
- Self drilling 1.5 SpeedTip screws for fast and easy insertion







2 holes

Hook plate, 4 holes



Preoperative X-ray



Intraoperative view after fixation of screws



Postoperative X-ray control



Lunate Facet Plates

Treatment of isolated, volar rim fragments

Clinical Benefits

- Combination of hook and TriLock plate for fixation of isolated, ulnar-sided rim fragments
- Stabilization of the sigmoid notch and the lunate facet
- Distal suture holes for additional soft tissue fixation
- Chamfered distal plate edge for minimal implant protrusion
- Low plate profile of 1.6 mm

Plate Features

- Hook thickness of 0.6 mm
- TriLock variable angle of $\pm 15^{\circ}$ in all directions in each screw hole *
- Rounded edges and a smooth surface for soft tissue protection
- Oblong hole for variable positioning of the plate
- K-wire holes for temporary fixation of the plate



Preoperative X-ray



Intraoperative view of plate position



Postoperative X-ray control with anatomical reconstruction

 $\label{eq:clinical case published with the kind permission of: J. \ Grünert, \ St. \ Gallen, \ Switzerland$

Rim Plates

Treatment of complex, intra-articular fractures with volar rim fragments

Clinical Benefits

- Bendable distal flaps
 - For support and fixation of volar rim fragments
 - Can be used for the insertion of 1.5 SpeedTip screws or as suture holes for additional soft tissue fixation
- Anatomically pre-contoured plate design
- Improved anatomical fit*
- Low plate profile of 1.8 mm
- First distal screw row for support of the central aspect of the radiocarpal joint
- Second distal screw row provides stabilization of the dorsal rim

Plate Features

- Flap thickness of 0.6 mm, flaps can be bent up to 35°
- TriLock multidirectional angular stability of ±15° in all directions in each screw hole **
- Rounded edges and a smooth surface for soft tissue protection
- Oblong hole for variable positioning of the plate
- Radiolucent drill guide block available for rapid and easy angulation of screws
- K-wire holes for temporary fixation of the plate



Intraoperative view of the fracture fixation

Preoperative CT scan

* Evaluated on 250 cadaver bones

* * Exception: oblong hole and flaps



Fracture Plates

Support of extension fractures with involvement of the radial styloid

Clinical Benefits

- Low plate profile of 1.6 mm
- First distal row can be bent individually to match the anatomy
- Window enables viewing of the fracture position

Plate Features

- \bullet TriLock variable angle of \pm 15° in all directions in each screw hole *
- Buttressing of the RCJ and DRUJ due to the possibility of converging screw placement
- Rounded edges and a smooth surface for soft tissue protection
- Oblong hole for variable plate positioning
- K-wire holes for temporary fixation of the plate

Trauma case of a C3 fracture in a 47-year old male patient

Intraoperative view of the plate position

Postoperative X-ray control with anatomical reconstruction and subchondral screw position

Clinical case published with the kind permission of: Prof. H. Krimmer, Ravensburg, Germany

Correction Plates

The solution for the treatment of incongruencies both in length and angle

Clinical Benefits

- Low plate profile of 1.6 mm
- Applicable also for complex radius reconstructions
- Fixation of transplant possible
- Distal plate edge for simplified finding and adjusting the ulnar inclination angle
- Support of extension fractures with involvement of the radial styloid

Plate Features

- \bullet TriLock variable angle of \pm 15° in all directions in each screw hole *
- Buttressing of the RCJ and DRUJ due to the possibility of converging screw placement
- Rounded edges and a smooth surface for soft tissue protection
- Oblong hole for correction of the length or variable plate positioning
- K-wire holes for temporary fixation of the plate

Preoperative X-ray (lateral) with moderate malpositioning

Intraoperative view after fixation of distal screws

Postoperative X-ray (lateral) after healing of correction osteotomy

Clinical case published with the kind permission of: H. Krimmer, Ravensburg, Germany

- * Exception: oblong hole
- → www.medartis.com/products/aptus/wrist

Volar Frame Plates

Unique solution for a less invasive surgical approach

Clinical Benefits

- Low plate profile of 1.6 mm
- Frame design allows for individual adaptation to anatomy
- Double shaft design provides high rotational stability
- Compact plate design for short incisions
- Support of extension fractures with involvement of the radial styloid

Plate Features

- \bullet TriLock variable angle of \pm 15° in all directions in each screw hole *
- Buttressing of the RCJ and DRUJ due to the possibility of converging screw placement
- Rounded edges and a smooth surface for soft tissue protection
- Oblong hole for variable plate positioning
- Frame design enables screw placement in the radial as well as the ulnar margin for an even better purchase

Trauma case of a C3 fracture in a 68-year old female patient

Frame design

Intraoperative view of positioning the plate as far distal as possible

X-ray control 4 weeks postoperatively

Clinical case published with the kind permission of: Ch. Ranft, Kiel, Germany

* Exception: oblong hole

Extra-Articular Plates

Fixation of extra-articular distal radius fractures

Clinical Benefits

- Plate profile of 2.0 mm
- Support of extension fractures with involvement of the radial styloid

Plate Features

- \bullet TriLock variable angle of \pm 15° in all directions in each screw hole *
- Buttressing of the RCJ and DRUJ due to the possibility of converging screw placement
- Rounded edges and a smooth surface for soft tissue protection
- Oblong hole for variable plate positioning
- K-wire holes for temporary fixation of the plate

Postoperative X-rays

- * Exception: oblong hole
- → www.medartis.com/products/aptus/wrist

Small Fragment Plates

For fracture-specific fixation of isolated small to complex intra-articular distal radius fractures

Clinical Benefits

- Low plate profile of 1.6 mm
- Anatomical plate design, easily contourable to provide the desired fit
- Small fragment plates in L, T and straight design to address individual fracture patterns and anatomies
- Internal fixation of the intermediate and radial column according to the 3 column concept

Plate Features

- \bullet TriLock variable angle of \pm 15° in all directions in each screw hole *
- Rounded edges and a smooth surface for soft tissue protection
- Oblong hole for variable plate positioning
- K-wire holes for temporary fixation of the plate

Dorsal Frame Plates

Fixation of complex fractures and osteotomies of the distal radius

Clinical Benefits

- Low plate profile of 1.6 mm
- Multiple screw holes offer a high degree of intra-operative flexibility
- Anatomical plate design, easily contourable to provide the desired fit

Plate Features

- \bullet TriLock variable angle of \pm 15° in all directions in each screw hole *
- Oblong holes for variable plate positioning
- Buttressing of the RCJ and DRUJ due to the possibility of converging screw placement
- Rounded edges and a smooth surface for soft tissue protection
- Offset screw holes in the shafts avoid screw collisions

Clinical picture (lateral X-ray of fracture) of a 73-year old female patient

Intraoperative view after insertion of 12 screws (6 fixation, 6 TriLock); bone defect filled with bone substitute

Postoperative X-ray control

Clinical case published with the kind permission of: R. Steiger, Liestal, Switzerland

* Exception: oblong holes

XL Plates

Fixation of combined diaphyseal-metaphyseal radius fractures as well as correction osteotomies

(2)

Clinical Benefits

- Stable fixation with a variable plate profile in the shaft of 3.2 mm to 1.8 mm distally
- Two-row screw arrangement in the distal area for subchondral support

Plate Features

- \bullet TriLock variable angle of \pm 15° in all directions in each screw hole *
- TriLock^{PLUS} screw holes combine compression and angular stability in one step
- Rounded edges and a smooth surface for soft tissue protection
- Oblong hole for variable plate positioning
- K-wire holes for temporary fixation of the plate
- Buttressing of the RCJ and DRUJ due to the possibility of converging screw placement
- Anatomically pre-contoured plate design in the shaft and distal area available in three different lengths
- Offset screw holes in the shaft avoid screw collisions

TriLockPLUS screw holes

TriLockPLUS with compression of 1 mm

Distal Ulna Plates

Fixation of intra- and extra-articular fractures of the head and neck of the distal ulna

The ulnar head is the center of rotation for the distal radioulnar joint during pronation and supination and must withstand considerable forces. Its distal ulnar surface also stabilizes the

Clinical Benefits

- Low plate profile of 1.6 mm
- Up to three screws capture and stabilize even distal fragments
- Plate position can be either lateral (ulnar), volar or dorsal
- Anatomical plate design, easily contourable to provide the desired fit
- Two plate lengths to address fractures of the ulnar head, neck and the distal shaft

Plate Features

- \bullet TriLock variable angle of $\pm\,15^\circ$ in all directions in each screw hole *
- Rounded edges and a smooth surface for soft tissue protection
- Oblong hole for variable plate positioning
- K-wire holes for temporary fixation of the plate
- Anatomically pre-contoured plate design

carpus and the hand. Stable fixation of distal ulna fractures ensures the congruence of the joints and allows early mobilization of the wrist.

Preoperative X-rays

Intraoperative view

Postoperative X-ray control with long distal ulna plate

Clinical cases published with the kind permission of: L. Acciaro, Modena, Italy * Exception: oblong hole

Fracture Treatment Concept

Plate Type												
Fracture Type	*	*	*	*	¥	*	anoodi Boocho Boocho	96	*	ALCONO DE	ÿ	00000 00000
A1												
A2												
АЗ												
B1.1												
B1.2												
B1.3												
B2												
ВЗ												
C1												
C2												
СЗ												
Volar lunate facet fragment												
Bony ligament avulsions												
Diaphyseal-metaphyseal fracture												
Correction osteotomy												

Primary recommendation The above-mentioned information is a recommendation only. The operating surgeon is solely responsible for the choice of the suitable implant for the specific case.

Possible

Recommendation

* Soft tissue protecting plate position along the watershed line to be respected, according to Soong et al.¹⁷

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
- \bullet Screws can pivot freely by $\pm\,15^\circ$ in all directions for optimal positioning
- Fine tuning capabilities of fracture fragments
- TriLock screws can be re-locked 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

Locked

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

±15°

Minimal screw head protrusion

Biomechanics

- Internal fixator principle
 - Forces around the distal radius bypass the unstable fracture site
 - Low contact for ideal blood supply
 - Functionally dynamic construct to avoid possible screw stripping and cut-outs in the bone

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

Contact surface for screw _____ retention (red)

Contact surface for torque transmission (green)

Conical core -

Patented SpeedTip Thread Design

- Functionally unique cutting with immediate bite
- Immediate cutting of the bone with only slight axial pressure
- The triangular tip design permits simultaneous drilling, tapping and compression of the bone tissue during insertion for increased pull-out stability²⁵⁻²⁶
- Reduced insertion torque thanks to the polygonal tip and tapered shaft

Precisely Guided Screw Placement

Drill Guide Block Features

- Drill, assign the screw length and insert screws with fixed drill guide block
- Rapid screw insertion and easy to use
- Radiolucent
- Specific left and right drill guide blocks to fit all ADAPTIVE II, FPL and rim plates

K-wire holes for temporary fixation of the plate and for verification of the correct plate and screw positions

Fixed angles to avoid joint penetration

Clear markings for easy identification

Fast fixing and detaching of the drill guide block

Self-Holding Drill Sleeve

- Can be locked in the TriLock contour of the plate in the selected angle
- Multidirectional ±15°
- Enables single-handed drilling

Holding and Positioning Instrument

The plate holding and positioning instrument can be locked in any TriLock contour of the plate. It facilitates pick-up, positioning and holding the implant on the bone.

Instrument for Restoration of the Volar Tilt

This instrument enables controlled restoration of the volar tilt. After the instrument has been set to the desired angle and locked in the appropriate shaft hole, the plate is premounted to the distal aspect of the radius. After performing an osteotomy, the plate can be reduced to the radius and the desired volar tilt is restored.

- Continuously adjustable restoration angle
- Is locked in the appropriate screw hole
- Precise and comprehensive application

Correction plates

O Instrument position

Easy pick-up, positioning and holding of the hook plate. 1.1.5

Storage

- Customized system arrangement and modular concept
- Compact system
- Easy to use
- Lightweight components
- Validated cleaning and sterilization of the implants

Examples of equipped implant cases

Distant I	(CARTING)	(UVALITE)
		Distance.
		B
		Ø

Example of an equipped instrument case

Example of an equipped all-in-one-set

ADAPTIVE II plates with drill guide block (fixed angle)

Overview Screw Trajectories

Screw trajectories for the ADAPTIVE II plates, the FPL and rim plates, without and with drill guide block.

ADAPTIVE II plates (variable angle) *

A-4750.110

 * All screw holes of the ADAPTIVE II plates allow for additional angulation of \pm 15° of the pre-angled value.

FPL plate (variable angle)*

Rim plate (variable angle)*

FPL plate with drill guide block (fixed angle)

Rim plate with drill guide block (fixed angle)

* All screw holes of the FPL and rim plates allow for additional angulation of $\pm 15^{\circ}$ of the pre-angled value.

Ordering Information

2.5 Drill Guide Blocks, FPL

Material: PEEK

Art. No.	Description			
A-2727.13	left	A-4750.123/125	6	1
A-2727.14	right	A-4750.124/126	6	1
	-			

2.5 TriLock Distal Radius Plates FPL, Volar

Material: Titanium (ASTM F67) Plate thickness: 2.0 mm

Art. No.	Description	Holes	Pieces/Pkg
A-4750.123	left	10	1
A-4750.124	right	10	1
A-4750.125	left, long	12	1
A-4750.126	right, long	12	1

					Material: PEEK
← 19 mm →		← 23 mm →		← 26 mm →	
Left	Received right	ATTENT Left	Riterer	A STRONG LIFT	R
A-2727.01	A-2727.02	A-2727.03	A-2727.04	A-2727.05	A-2727.06
Art. No.	Description		for Plates	Holes	Pieces/Pkg
A-2727.01	left, narrow		A-4750.101/103	6	1
A-2727.02	right, narrow		A-4750.102/104	6	1
A-2727.03	left		A-4750.105/107	7	1
A-2727.04	right		A-4750.106/108	7	1
A-2727.05	left, wide		A-4750.109/111	9	1
A-2727.06	right, wide		A-4750.110/112	9	1

2.5 Drill Guide Blocks, ADAPTIVE II

2.5 ADAPTIVE II TriLock Distal Radius Plates, Volar

19 m right left right left right left A-4750.101 A-4750.102 A-4750.105 A-4750.106 A-4750.109 A-4750.110 A-4750.101 left, narrow 10 1 A-4750.102 10 1 right, narrow A-4750.105 11 left 1 A-4750.106 11 1 right

13

13

Material: Titanium (ASTM F67) Plate thickness: 2.0 mm

left, wide

right, wide

A-4750.109

A-4750.110

1

1

Art. No.	Description		
A-4750.103	left, narrow, long	12	1
A-4750.104	right, narrow, long	12	1
A-4750.107	left, long	13	1
A-4750.108	right, long	13	1
A-4750.111	left, wide, long	15	1
A-4750.112	right, wide, long	15	1

2.5 TriLock Distal Radius Small Fragment Plates

Material: Titanium (ASTM F67) Plate thickness: 1.6 mm

1.5 Hook Plates

Material: Titanium (ASTM F67) Plate thickness: 0.6 mm

Art. No.	Description	Holes	Pieces/Pkg
A-4200.40	2 hooks	2	1
A-4200.41	4 hooks	4	1

Material: Titanium (ASTM F67) Plate thickness: 1.8 mm

2.5 Drill Guide Blocks, Rim Plates

∢ ── 23 mm ──	>>			Material: PEEK
2	left River right			
A-2727.23	A-2727.24			
Art. No.	Description	for Plates	Holes	Pieces/Pkg
A-2727.23	left	A-4750.145	7	1
A-2727.24	right	A-4750.146	7	1

2.5 TriLock Distal Radius Rim Plates, Volar

			Pieces/Pkg
A-4750.145	left	13	1
A-4750.146	right	13	1

2.5 TriLock Lunate Facet Plates, Volar

 \rightarrow www.medartis.com/products/aptus/wrist

2.5 TriLock Distal Radius Correction Plates, Volar *

Material: Titanium (ASTM F67) Plate thickness: 1.6 mm

A-4750

22 mm -

right

A-4750.17

A-4750.18

A-4750.19

A-4750.20

Art. No.	Description	Holes	Pieces/Pkg
A-4750.11	left	14	1
A-4750.12	right	14	1
A-4750.15	left, long	15	1
A-4750.16	right, long	15	1
A-4750.17	left, narrow	12	1
A-4750.18	right, narrow	12	1
A-4750.19	left, narrow, long	13	1
A-4750.20	right, narrow, long	13	1

* Plates can also be used for treatment of fractures

2.5 TriLock Distal Radius Fracture Plates, Volar

Material: Titanium (ASTM F67) Plate thickness: 1.6 mm

2.5 TriLock Distal Radius Fracture Plates, Extra-Articular, Volar

					Plate thickness: 2.0 mm
			< 25 mm →		
	left	right	The second secon	right	
A-4750.71		A-4750.72	A-4750.73	A-4750.74	
Art. No.	Descriptio	n	Holes		Pieces/Pkg
A-4750.71	left		9		1
A-4750.72	right		9		1
A-4750.73	left, long		11		1

11

Material: Titanium (ASTM F67) Plate thickness: 2.0 mm

A-4750.74

right, long

2.5 TriLock Distal Radius Frame Plates, Volar

Material: Titanium (ASTM F67) Plate thickness: 1.6 mm

	Description		
A-4750.03	left	10	1
A-4750.04	right	10	1
A-4750.05	left, long	12	1
A-4750.06	right, long	12	1
A-4750.33	left, narrow	10	1
A-4750.34	right, narrow	10	1
A-4750.35	left, narrow, long	12	1
A-4750.36	right, narrow, long	12	1

	Description		
A-4750.75	left, TriLock ^{PLUS}	20	1
A-4750.76	right, TriLock ^{PLUS}	20	1
A-4750.77	left, TriLock ^{PLUS}	25	1
A-4750.78	right, TriLock ^{PLUS}	25	1
A-4750.79	left, TriLock ^{PLUS}	29	1
A-4750.80	right, TriLock ^{PLUS}	29	1

2.5 TriLock Distal Radius Plates, Dorsal

Material: Titanium (ASTM F67) Plate thickness: 1.6 mm

Art. No.	Description	Holes	Pieces/Pkg
A-4750.13	H, left	12	1
A-4750.14	H, right	12	1
A-4750.41	frame, left, narrow	18	1
A-4750.42	frame, right, narrow	18	1
A-4750.43	frame, left	20	1
A-4750.44	frame, right	20	1

2.5 TriLock Distal Ulna Plates

Material: Titanium (ASTM F67) Plate thickness: 1.6 mm

Art. No.	Description		
A-4750.91	Y	7 (2/5)	1
A-4750.92	Y	10 (2/8)	1

2.5 Cortical Screws, HexaDrive 7

Material: Titanium (ASTM F136)

	Length	Art. No.	Pieces/Pkg	Art. No.	Pieces/Pkg
	8 mm	A-5700.08/1	1	A-5700.08	5
1 S	10 mm	A-5700.10/1	1	A-5700.10	5
重	11 mm	A-5700.11/1	1		
Ŧ	12 mm	A-5700.12/1	1	A-5700.12	5
#	13 mm	A-5700.13/1	1		
H	14 mm	A-5700.14/1	1	A-5700.14	5
#	15 mm	A-5700.15/1	1		
重	16 mm	A-5700.16/1	1	A-5700.16	5
	18 mm	A-5700.18/1	1	A-5700.18	5
-	20 mm	A-5700.20/1	1	A-5700.20	5
↔	22 mm	A-5700.22/1	1	A-5700.22	5
Ø 2.5 mm	24 mm	A-5700.24/1	1	A-5700.24	5
	26 mm	A-5700.26/1	1	A-5700.26	5
	28 mm	A-5700.28/1	1	A-5700.28	5
	30 mm	A-5700.30/1	1	A-5700.30	5
	32 mm	A-5700.32/1	1	A-5700.32	5
	34 mm	A-5700.34/1	1	A-5700.34	5

2.5 TriLock Screws, HexaDrive 7

Material: Titanium (ASTM F136)

		Length	Art. No.	Pieces/Pkg	Art. No.	Pieces/Pkg
	~	8 mm	A-5750.08/1	1	A-5750.08	5
		10 mm	A-5750.10/1	1	A-5750.10	5
-		12 mm	A-5750.12/1	1	A-5750.12	5
1		14 mm	A-5750.14/1	1	A-5750.14	5
		16 mm	A-5750.16/1	1	A-5750.16	5
-		18 mm	A-5750.18/1	1	A-5750.18	5
		20 mm	A-5750.20/1	1	A-5750.20	5
		22 mm	A-5750.22/1	1	A-5750.22	5
-		24 mm	A-5750.24/1	1	A-5750.24	5
	26 mm	A-5750.26/1	1	A-5750.26	5	
	28 mm	A-5750.28/1	1	A-5750.28	5	
Ø 2.5 mm	30 mm	A-5750.30/1	1	A-5750.30	5	
	32 mm	A-5750.32/1	1	A-5750.32	5	
		34 mm	A-5750.34/1	1	A-5750.34	5

2.5 TriLock Express Screws, HexaDrive 7

Material: Titanium (ASTM F136)

Ø 2.5 mm	Length	Art. No.	Pieces/Pkg	Art. No.	Pieces/Pkg
	14 mm	A-5755.14/1	1	A-5755.14	5
	16 mm	A-5755.16/1	1	A-5755.16	5
	18 mm	A-5755.18/1	1	A-5755.18	5
	20 mm	A-5755.20/1	1	A-5755.20	5
	22 mm	A-5755.22/1	1	A-5755.22	5
	24 mm	A-5755.24/1	1	A-5755.24	5

Ø 1.9 mm

1.5 SpeedTip Screws, HexaDrive 4

Material: Titanium (ASTM F136)

	Length	Art. No.	Pieces/Pkg	Art. No.	Pieces/Pkg
	8 mm	A-5210.08/1	1	A-5210.08	5
	10 mm	A-5210.10/1	1	A-5210.10	5
	12 mm	A-5210.12/1	1	A-5210.12	5
	14 mm	A-5210.14/1	1	A-5210.14	5
/ ∢→ / Ø15mm					

2:1

Twist Drills ∅ 2.0 mm

<u>E-716716716716716716</u>	02.0x40	P064404	A-3/13		-
A-3713					
<i>5415415415415415</i>	Ø2.0x40	F05AA05	A-3723		
A-3723					
eterterterterter	APIUS 2.5	_	ESWISSII CEO	197)
A-3733					r

Art. No.	System Size	Stop	Length	Drill Shaft End	Pieces/Pkg
A-3713	2.5	40 mm	97 mm	Dental	1
A-3723	2.5	40 mm	97 mm	Stryker J-Latch	1
A-3733	2.5	40 mm	91 mm	AO Quick Coupling	1

Twist Drills \varnothing 2.6 mm (for Gliding Hole)

Art. No.	System Size	Stop		Drill Shaft End	Pieces/Pkg
A-3711	2.5	10 mm	67 mm	Dental	1
A-3721	2.5	10 mm	67 mm	Stryker J-Latch	1
A-3731	2.5	10 mm	61 mm	AO Quick Coupling	1

42 | Distal Radius System 2.5

Countersink for Cortical Screws

A-3830	SWISS)			
A-3830	2.5	3.7 mm	45 mm	AO Quick Coupling	1

K-Wires, Stainless Steel

				A-5040.41
Art. No.	Ø	Description	Length	Pieces/Pkg
A-5040.21	1.2 mm	trocar	150 mm	10
A-5040.41	1.6 mm	trocar	150 mm	10

K-Wires, Stainless Steel

Q				A-5042.41
Art. No.	Ø	Description	Length	Pieces/Pkg
A-5042.21	1.2 mm	lancet	150 mm	10
A-5042.41	1.6 mm	lancet	150 mm	10

Olive K-Wire, Stainless Steel

	1.6 mm					
⊢ 10 mm →	60 mm	A-5045.41				
Length			Art. No.	Pieces/Pkg	Art. No.	
60 mm	10 mm	1.6 mm	A-5045.41/1	1	A-5045.41/4	4

K-Wire Dispensers

*****	ετετετέ Α-6010.12 Ø1.2	Scale 1:2	
Art. No.	System Size	Length	Pieces/Pkg
A-6010.12	1.2	185 mm	1
A-6010.16	1.6	185 mm	1

Drill Guides

Art. No.		Description		
A-2026	2.5/2.8	TriLockPLUS	146 mm	1
A-2721	2.5	for lag screw technique	144 mm	1
A-2722	2.5	scaled	114 mm	1

Drill Sleeve

Scale 1:1

Art. No.	System Size	Description	Length	Pieces/Pkg
A-2726	2.5	self-holding, scaled	34 mm	1

Depth Gauge

			×	
A-2730			A-2730.1	
Art. No.	System Size	Description	Length	Pieces/Pkg
A-2730	2.5		151 mm	1
A-2730.1	2.5	caliper	149 mm	1

Screw Drivers, Self-Holding

		APTUS* 1.2/1.5		A-2710
A-2310 🔘 HD4			A-2710 (D) HD7	
Art. No.	System Size	Interface	Length	Pieces/Pkg
A-2310	1.2/1.5	HD4	138 mm	1
A-2710	2.5	HD7	166 mm	1

Handle with Quick Connector

	Course Course				
Art. No.	Description	Length	for Shaft End	Pieces/Pkg	
A-2073	with twist cap	124 mm	AO Quick Coupling	1	
Screwdriver Blade	, Self-Holding				
Art. No. System	Size Description	Length	for Shaft End	Pieces/Pkg	
A-2013 2.5/2.	8 HD7	75 mm	AO Quick Coupling	1	
Plate and Screw H	olding Forceps				
Art. No.	Description	Length		Pieces/Pkg	
A-2060	angled	148 mm		1	
Plate Holding and	Positioning Instrument	-			
Art No System					

Instrument for Restoration of the Volar Tilt

A-2794			A-2795	
Art. No.	System Size	Description	Length	Pieces/Pkg
A-2794	2.5		105 mm	1
A-2795	2.0	guide wire	105 mm	1

	Description		
2.0–2.8	with pins	158 mm	1

Plate and Bone Holding Forceps

46 | Distal Radius System 2.5

Bone Elevator Mini-Hohmann

	ADDLA * ZUTRA		
Art. No.	Width	Length	Pieces/Pkg
A-7006	8 mm	160 mm	1
Periosteal Elevator			
Art. No.	Width	Length	Pieces/Pkg
A-7007	6 mm	185 mm	1
Hook	P(LS * A-707		
Art. No. Description		Length	Pieces/Pkg
Wound Retractor Mini-La	angenbeck	150 mm	1

Art. No.	Description	Length	Pieces/Pkg
A-7013	20 x 6 mm	156 mm	1

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