

medartis®

PRECISION IN FIXATION

SURGICAL TECHNIQUE – STEP BY STEP

CCS

Cannulated Compression Screws

1.7, 2.2, 3.0, 4.0, 5.0, 7.0

headedCCS

Headed Cannulated Compression Screws

2.2, 3.0, 4.0, 5.0, 7.0



APTUS®

Contents

3	Introduction
3	Product Materials
3	Indications
3	Contraindications
3	Caution
3	Color Coding
3	Symbols
4	Examples of Use
5	System Overview
5	Screws
8	Instruments
8	Soft Tissue Protection
10	K-Wires
10	Assigning the Screw Length
11	Drilling and Countersinking
12	Screw Pick-Up
13	Surgical Techniques
13	General Surgical Techniques
13	CCS 1.7, 2.2, 3.0 and headed CCS 2.2, 3.0
18	CCS 4.0, 5.0, 7.0 and headed CCS 4.0, 5.0, 7.0
25	Specific Surgical Techniques
25	Click-on Parallel K-Wire Guide
26	Drill Stop
28	Protecting Soft Tissue During Screw Insertion
28	Determining Soft Tissue Thickness
29	Implant Removal
30	Implants, Instruments and Storage

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

Introduction

Product Materials

Medartis APTUS cannulated compression screws are made of titanium alloy (ASTM F136, ISO 5832-3). All of the titanium materials used are biocompatible, corrosion-resistant and non-toxic in a biological environment.

K-wires and staples are made of stainless steel (ASTM F138, ASTM F139); instruments are made of stainless steel, PEEK, aluminum, Nitinol or titanium.

Indications

Treatment of fractures, osteotomies and arthrodesis of bones with the appropriate screw size.

Contraindications

- Pre-existing or suspected infection at or near the implantation site
- Known allergies and/or hypersensitivity to implant materials
- Inferior or insufficient bone quality to securely anchor the implant
- Patients who are incapacitated and/or uncooperative during the treatment phase
- Growth plates are not to be blocked with plates and screws

Caution

- In patients with Charcot foot and/or other neuropathic diseases, the CCS 4.0, 5.0, 7.0 and headedCCS 4.0, 5.0, 7.0 are not to be used as stand-alone implants. They need to be used with supplemental fixation, such as additional screws and plates, across the fused joints.

- CCS and headedCCS screws have sharp threads and need to be picked up from the implant container by means of the screwdriver. Be cautious touching the screws directly.
- Screws are not to be positioned in the joint gap (exception: arthrodesis).

Color Coding

System Size	Color Code
APTUS 1.7	Turquoise
APTUS 2.2	Purple
APTUS 3.0	Yellow
APTUS 4.0	Brown
APTUS 5.0	Dark blue
APTUS 7.0	Turquoise

Screws

Implant screws have their own color:

Implant screws gold	1.7 CCS
Implant screws gold	2.2 CCS
Implant screws gold	2.2 headedCCS
Implant screws gold	3.0 CCS
Implant screws gold	3.0 headedCCS
Implant screws gold	4.0 CCS
Implant screws gold	4.0 headedCCS
Implant screws gold	5.0 CCS
Implant screws gold	5.0 headedCCS
Implant screws gold	7.0 CCS
Implant screws gold	7.0 headedCCS

Symbols



HexaDrive



See Instructions for Use
www.medartis.com

→ www.medartis.com

Examples of Use

Shoulder

Fractures

- of the proximal humerus
- of the glenohumeral joint

Elbow

Fractures

- of the distal humerus
- of the proximal ulna
- of the proximal radius

Wrist

Fractures

- of the radius
- of the ulna

Fractures and arthrodesis

- of the carpal bones

Hand

Fractures, arthrodesis and osteotomies

- of the phalanges
- of the metacarpals
- of the carpals

Knee

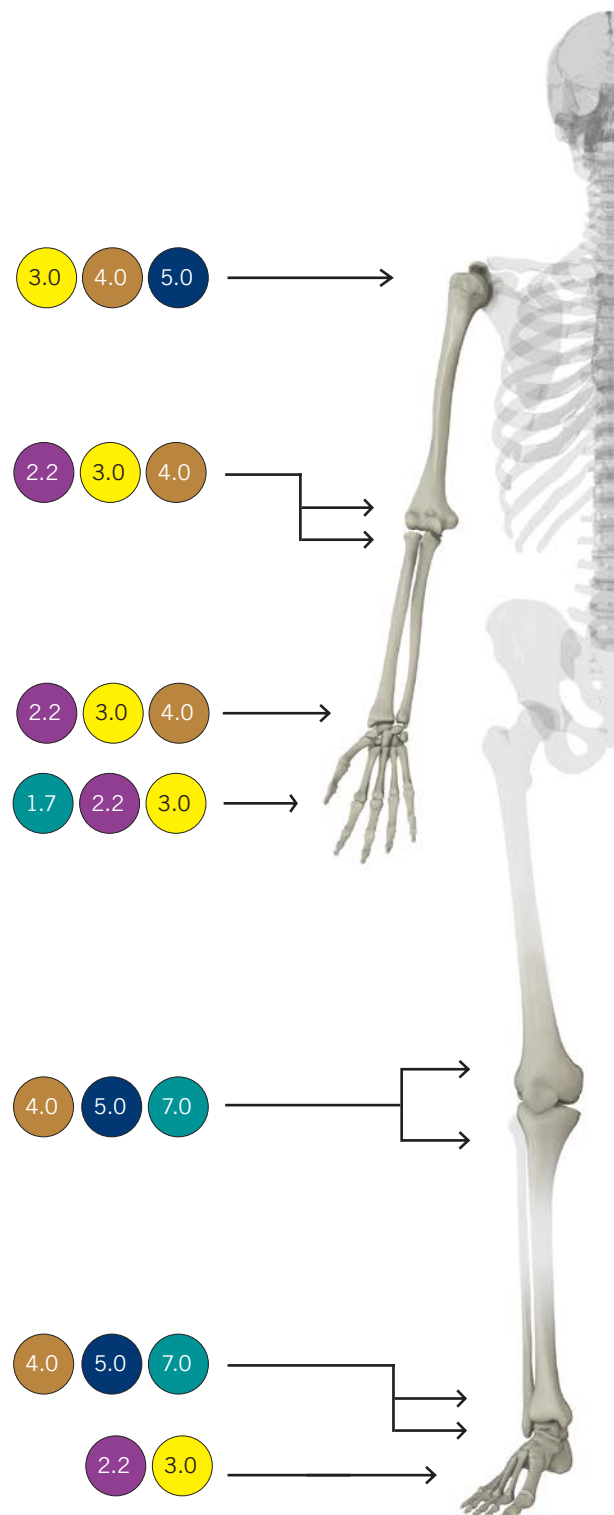
Fractures

- of the proximal tibia
- of the distal femur

Foot and Ankle

Fractures, arthrodesis and osteotomies

- of the ankle joint
- of the subtalar joint
- of the hindfoot
- of the midfoot
- of the forefoot



System Overview

Screws

Cannulated compression screws and headed cannulated compression screws are available with short thread, long thread or fully threaded in different diameters and lengths. CCS are available sterile and non-sterile, while CCS 1.7 and CCS 4.0 are available non-sterile only. Headed cannulated compressions screws are available non-sterile only.

For detailed ordering information, please refer to chapter “Implants, Instruments and Storage”.

Description	Example	Main Feature	Compression	Screw Length (Increment)
CCS 1.7	 A-5281.xx	Long distal thread	Yes	8–16 mm (1 mm), 18–20 mm (2 mm)
	 A-5282.xx	Fully threaded	No	6–16 mm (1 mm)
CCS 2.2	 A-5780.xx	Short distal thread	Yes	10–30 mm (1 mm)
	 A-5781.xx	Long distal thread	Yes	22–40 mm (2 mm)
headed CCS 2.2	 A-5785.xx	Short distal thread	Yes	10–30 mm (1 mm), 32–40 mm (2 mm)
	 A-5786.xx	Long distal thread	Yes	20–30 mm (1 mm), 32–40 mm (2 mm)
CCS 3.0	 A-5880.xx	Short distal thread	Yes	10–30 mm (1 mm), 32–40 mm (2 mm)
	 A-5881.xx	Long distal thread	Yes	26–40 mm (2 mm)

Description	Example	Main Feature	Compression	Screw Length (Increment)
headedCCS 3.0	 Ø 4.5 mm A-5885.xx Ø 3.0 mm	Short distal thread	Yes	10–30 mm (1 mm), 32–40 mm (2 mm)
	 Ø 4.5 mm A-5886.xx Ø 3.0 mm	Long distal thread	Yes	20–30 mm (1 mm), 32–40 mm (2 mm)
CCS 4.0	 Ø 4.8 mm A-8110.xx Ø 4.0 mm	Short distal thread	Yes	16–50 mm (2 mm), 55–60 mm (5 mm)
	 Ø 4.8 mm A-8111.xx Ø 4.0 mm	Long distal thread	Yes	20–50 mm (2 mm), 55–60 mm (5 mm)
	 Ø 4.8 mm A-8112.xx Ø 4.0 mm	Fully threaded	No	16–50 mm (2 mm), 55–60 mm (5 mm)
headedCCS 4.0	 Ø 5.1 mm A-8115.xx Ø 4.0 mm	Short distal thread	Yes	16–50 mm (2 mm), 55–60 mm (5 mm)
	 Ø 5.1 mm A-8116.xx Ø 4.0 mm	Long distal thread	Yes	20–50 mm (2 mm), 55–60 mm (5 mm)
	 Ø 5.1 mm A-8117.xx Ø 4.0 mm	Fully threaded	No	16–50 mm (2 mm), 55–60 mm (5 mm)
CCS 5.0	 Ø 5.7 mm A-8210.xx Ø 5.0 mm	Short distal thread	Yes	24–40 mm (2 mm), 45–70 mm (5 mm)
	 Ø 5.7 mm A-8211.xx Ø 5.0 mm	Long distal thread	Yes	30–40 mm (2 mm), 45–70 mm (5 mm)
	 Ø 5.7 mm A-8212.xx Ø 5.0 mm	Fully threaded	No	24–40 mm (2 mm), 45–70 mm (5 mm)

Description	Example	Main Feature	Compression	Screw Length (Increment)
headedCCS 5.0	 A-8215.xx	Short distal thread	Yes	24–40 mm (2 mm), 45–70 mm (5 mm)
	 A-8216.xx	Long distal thread	Yes	30–40 mm (2 mm), 45–70 mm (5 mm)
	 A-8217.xx	Fully threaded	No	24–40 mm (2 mm), 45–70 mm (5 mm)
CCS 7.0	 A-8410.xx	Short distal thread	Yes	40–110 mm (5 mm), 120–140 mm (10 mm)
	 A-8411.xx	Long distal thread	Yes	40–110 mm (5 mm), 120–140 mm (10 mm)
	 A-8412.xx	Fully threaded	No	40–110 mm (5 mm), 120–140 mm (10 mm)
headedCCS 7.0	 A-8415.xx	Short distal thread	Yes	30–110 mm (5 mm), 120–140 mm (10 mm)
	 A-8416.xx	Long distal thread	Yes	35–110 mm (5 mm), 120–140 mm (10 mm)
	 A-8417.xx	Fully threaded	No	30–110 mm (5 mm), 120–140 mm (10 mm)

Instruments

Color-coded instruments are available for every APTUS CCS and headedCCS system size.

Instruments are color coded as follows:

System Size	Color Code
APTUS 1.7	Turquoise
APTUS 2.2	Purple
APTUS 3.0	Yellow
APTUS 4.0	Brown
APTUS 5.0	Dark blue
APTUS 7.0	Turquoise

Soft Tissue Protection

Screw Size	Color Code of System Size	Instrument	Use
CCS 1.7	Turquoise	 A-2225 1.7 K-Wire Guide/Protection Sleeve	K-wire guide Drill guide Protection sleeve for screw insertion
CCS 2.2	Purple	 A-2725 2.2 Drill Guide	K-wire guide Drill guide
CCS 3.0	Yellow	 A-2825 3.0 Drill Guide	K-wire guide Drill guide
CCS 2.2 CCS 3.0	Purple, Yellow, but not on instrument	 A-2039 2.2/3.0 Protection Sleeve	Protection sleeve for screw insertion
CCS 2.2 CCS 3.0 headedCCS 2.2 headedCCS 3.0	Purple, Yellow, but not on instrument	 A-2007 2.2/3.0 K-Wire Guide, Percutaneous	Percutaneous K-wire guide
headedCCS 2.2 headedCCS 3.0	Purple, Yellow	 A-2824 2.2/3.0 K-Wire Guide/Protection Sleeve	K-wire guide Drill guide Protection sleeve for screw insertion

Screw Size	Color Code of System Size	Instrument	Use
CCS 4.0 headed CCS 4.0	Brown	 A-8004.23 4.0 Protection Sleeve, AO	Drill guide Protection sleeve for screw insertion
		 A-8004.25 4.0 K-Wire Guide for A-8004.23	K-wire guide
		 A-8004.24 4.0 Trocar for A-8004.23	Insertion into soft tissue
CCS 5.0 headed CCS 5.0	Dark blue	 A-8000.23 5.0 Protection Sleeve, AO	Drill guide Protection sleeve for screw insertion
		 A-8000.25 7.0 K-Wire Guide for A-8000.23	K-wire guide
		 A-8000.24 7.0 Trocar for A-8000.23	Insertion into soft tissue
CCS 7.0 headed CCS 7.0	Turquoise	 A-8001.23 7.0 Protection Sleeve, AO Large	Drill guide Protection sleeve for screw insertion
		 A-8001.25 7.0 K-Wire Guide for A-8001.23	K-wire guide
		 A-8001.24 7.0 Trocar for A-8001.23	Insertion into soft tissue

K-Wires

Screw Size	Color Code of System Size	K-Wire		Type of K-Wire	Diameter × Length
		Non-Sterile	Sterile		
CCS 1.7	Turquoise, but not on K-wire	A-5040.90 A-5043.90	A-5040.90/1S A-5043.90/1S	Trocar 2 × trocar tip	0.6 mm × 100 mm
CCS 2.2 headed CCS 2.2	Purple, but not on K-wire	A-5040.00 A-5043.00	A-5040.00/1S A-5043.00/1S	Trocar 2 × trocar tip	0.8 mm × 100 mm
CCS 3.0 headed CCS 3.0	Yellow, but not on K-wire	A-5040.10 A-5043.10	A-5040.10/1S A-5043.10/1S	Trocar 2 × trocar tip	1.1 mm × 100 mm
CCS 4.0 headed CCS 4.0	Brown, but not on K-wire	A-5040.30 A-5044.30	A-5040.30/1S A-5044.30/1S	Trocar Threaded trocar	1.25 mm × 200 mm
CCS 5.0 headed CCS 5.0	Dark blue, but not on K-wire	A-5040.42 A-5044.42	A-5040.42/1S A-5043.42/1S	Trocar Threaded trocar	1.6 mm × 200 mm
CCS 7.0 headed CCS 7.0	Turquoise, but not on K-wire	A-5040.74 A-5044.74	A-5040.74/1S A-5043.74/1S	Trocar Threaded trocar	2.2 mm × 250 mm

Assigning the Screw Length

Screw Size	Color Code of System Size	Depth Gauge	For K-Wires		
			Diameter × Length	Non-Sterile	Sterile
CCS 1.7	Turquoise, but not on depth gauge	 A-2235 1.7 Depth Gauge	0.6 mm × 100 mm	A-5040.90 A-5043.90	A-5040.90/1S A-5043.90/1S
CCS 2.2 headed CCS 2.2	Purple, yellow, but not on depth gauge	 A-2835 2.2/3.0 Depth Gauge	0.8 mm × 100 mm	A-5040.00 A-5043.00	A-5040.00/1S A-5043.00/1S
CCS 3.0 headed CCS 3.0			1.1 mm × 100 mm	A-5040.10 A-5043.10	A-5040.10/1S A-5043.10/1S
CCS 4.0 headed CCS 4.0	Brown	 A-8004.27 4.0 Depth Gauge	1.25 mm × 200 mm	A-5040.30 A-5044.30	A-5040.30/1S A-5044.30/1S
CCS 5.0 headed CCS 5.0	Dark blue	 A-8000.27 5.0 Depth Gauge	1.6 mm × 200 mm	A-5040.42 A-5044.42	A-5040.42/1S A-5044.42/1S
CCS 7.0 headed CCS 7.0	Turquoise	 A-8001.27 7.0 Depth Gauge	2.2 mm × 250 mm	A-5040.74 A-5044.74	A-5040.74/1S A-5044.74/1S

Drilling and Countersinking

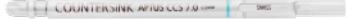
Notice

Countersinks are different for CCS and headedCCS due to the different screw head designs.

To facilitate the selection of the appropriate instrument, the countersinks are labeled differently:

The countersinks for CCS are labeled with “COUNTERSINK CCS” on the shaft.

The countersinks for headedCCS are labeled with “COUNTERSINK headedCCS” on the shaft.

Screw Size	Color Code of System Size	Drill	Countersink
CCS 1.7	Turquoise	 A-3236 1.7 Cannulated Twist Drill Ø 1.3 mm, L 67 mm, AO	 A-3932 1.7 CCS Countersink, Cannulated, AO
CCS 2.2	Purple	 A-3736 2.2 Cannulated Twist Drill Ø 1.8 mm, L 87 mm, AO	 A-3937 2.2 CCS Countersink, AO
headedCCS 2.2			 A-3935 2.2 headedCCS Countersink, Cannulated, AO
CCS 3.0	Yellow	 A-3836 3.0 Cannulated Twist Drill Ø 2.1 mm, L 87 mm, AO	 A-3938 3.0 CCS Countersink, Cannulated, AO
headedCCS 3.0			 A-3936 3.0 headedCCS Countersink, Cannulated, AO
CCS 4.0	Brown	 A-8004.01 4.0 Cannulated Twist Drill Ø 2.7 mm, L 160 mm, AO	 A-8004.02 4.0 CCS Countersink, Cannulated, AO
headedCCS 4.0			 A-8004.03 4.0 headedCCS Countersink, Cannulated, AO
CCS 5.0	Dark blue	 A-8000.03 5.0 CCS Twist Drill Ø 3.1 mm, L 177 mm, AO	 A-8000.04 5.0 CCS Countersink, AO Large
headedCCS 5.0			 A-8000.05 5.0 headedCCS Countersink, Cannulated, AO
CCS 7.0	Turquoise	 A-8001.01 7.0 CCS Twist Drill Ø 4.8 mm, L 265 mm, AO Large	 A-8001.02 7.0 CCS Countersink, AO Large
headedCCS 7.0			 A-8001.03 7.0 headedCCS Countersink, Cannulated, AO Large

Screw Pick-Up

The screwdriver blades feature the patented HexaDrive (HD) self-holding technology.



Screw Size	Color Code of System Size	Screwdriver Blades, Cannulated, Self-Holding	Interface	Handle
CCS 1.7	Turquoise	 A-2216 1.7 Cannulated Screwdriver Blade	 HD4 AO	 A-2073 Cannulated Handle with Quick Connector
CCS 2.2 headed CCS 2.2	Purple	 A-2716 2.2 Cannulated Screwdriver Blade	 HD7 AO	
CCS 3.0 headed CCS 3.0	Yellow	 A-2816 3.0 Cannulated Screwdriver Blade	 HD10 AO	
CCS 4.0 headed CCS 4.0	Brown	 A-8004.11 4.0 Cannulated Screwdriver Blade	 HD12 AO	 A-2077 Cannulated Handle with Quick Connector
CCS 5.0 headed CCS 5.0	Dark blue	 A-8000.21 5.0 Cannulated Screwdriver Blade	 HD15 AO	 A-8000.20 Cannulated Handle with Quick Connector
CCS 7.0 headed CCS 7.0	Turquoise	 A-8001.11 7.0 Cannulated Screwdriver Blade	 HD25 AO Large	 A-8001.10 Cannulated Handle with Quick Connector

Surgical Techniques

General Surgical Techniques

CCS 1.7, 2.2, 3.0 and headedCCS 2.2, 3.0

1. Selecting the K-wire

Select the required K-wire diameter depending on the screw size and verify the diameter in the container.

Notice

To ensure that the lengths of the screws to be used are assigned correctly, only original APTUS K-wires may be used. If alternative wires are used, the correct screw length selection cannot be assured.



2. Protecting the soft tissue

Position the drill guide or K-wire guide/protection sleeve with the side marked "K-WIRE" onto the bone.



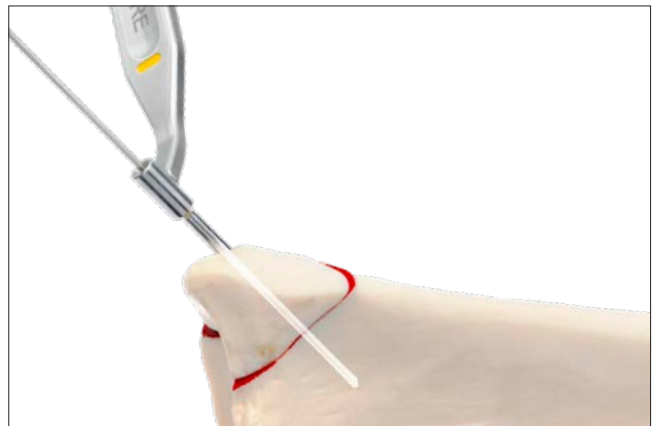
CCS 1.7, 2.2, 3.0 and headedCCS 2.2, 3.0

Art. No	For Screws	Guides/Soft Tissue Protection for
A-2225	CCS 1.7	K-wire Drill Countersink Screw
A-2725	CCS 2.2	K-wire Drill Countersink
A-2825	CCS 3.0	K-wire Drill Countersink
A-2039	CCS 2.2 CCS 3.0	Screw
A-2824	CCS 2.2 CCS 3.0 headedCCS 2.2 headedCCS 3.0	K-wire Drill Countersink Screw
A-2007	CCS 2.2 CCS 3.0 headedCCS 2.2 headedCCS 3.0	K-wire, percutaneous

3. Placing the K-wire

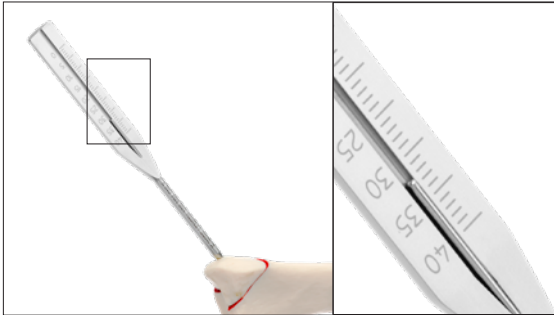
Place the K-wire perpendicularly to the fracture or osteotomy line. Do not forcefully insert the K-wire as it may bend.

Use X-ray control to verify the correct position of the K-wire.



CCS 1.7, 2.2, 3.0

4. Determining the required screw length



Remove the drill guide resp. K-wire guide/protection sleeve. Slide the depth gauge (A-2235, A-2835) over the K-wire until it touches the bone. The length can be read from the end of the K-wire.

5A. Drilling – optional



Position the drill guide (A-2725, A-2825) or the K-wire guide/protection sleeve (A-2225, A-2824) with the side marked “DRILL” or “INSTRUMENTS” on the bone to protect the soft tissue.

Use the color-coded cannulated twist drill (A-3236, A-3736, A-3836).

The twist drill must always be guided through a K-wire guide/protection sleeve. This protects the surrounding tissue from direct contact with the drill. If the K-wire is completely overdrilled, it will no longer have purchase in the bone and it will become floating in the bone.

5B. Countersinking – optional

Use the color-coded countersink (A-3932, A-3937, A-3938) to predrill the near cortex.

Notice

The use of twist drills and/or countersinks is recommended in case of very hard bone.

headed CCS 2.2, 3.0

4A. Drilling – optional



Position the K-wire guide/protection sleeve (A-2824) with the side marked “SCREWS/INSTRUMENTS” onto the bone to protect the soft tissue.

Use the color-coded cannulated twist drill (A-3736, A-3836).

The twist drill must always be guided through a K-wire guide/protection sleeve. This protects the surrounding tissue from direct contact with the drill. If the K-wire is completely overdrilled, it will no longer have purchase in the bone and it will become floating in the bone.

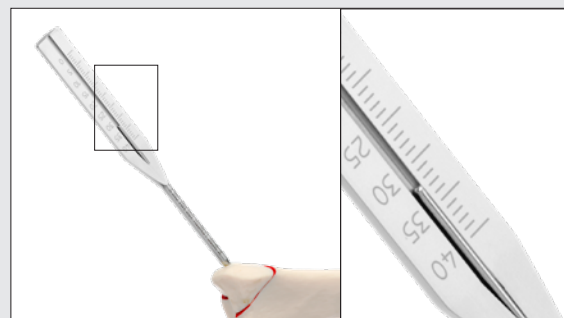
4B. Countersinking – optional

Use the color-coded countersink (A-3935, A-3936) to predrill the near cortex.

Notice

The use of twist drills and/or countersinks is recommended in case of very hard bone.

5. Determining the required screw length



The K-wire guide/protection sleeve can be left in place. Slide the depth gauge (A-2835) over the K-wire until it touches the bone. The length can be read from the end of the K-wire.

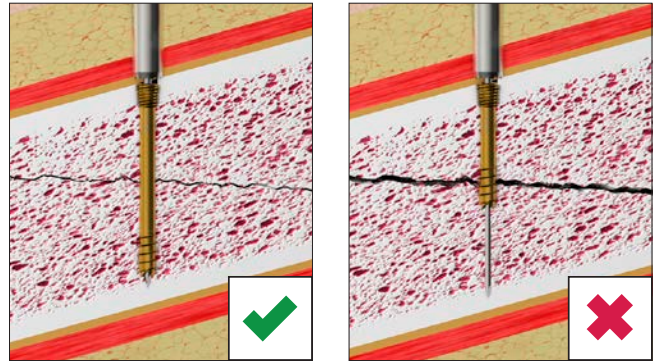
CCS 1.7, 2.2, 3.0 and headedCCS 2.2, 3.0

6. Selecting the screw

Select a screw that is slightly shorter than the length determined in Step 4 (for CCS) or Step 5 (for headedCCS) to allow for shortening through compression of the fracture gap.

Notice

When selecting the screw, it is mandatory that the distal thread is not positioned within the fracture gap, as otherwise no compression can be achieved.



Fully threaded screws

As these screws do not compress, the thread can be positioned after reduction within the fracture gap. If compression of the fracture gap is desired, then a partially threaded screw has to be inserted first. Only afterwards a fully threaded screw may be inserted for stabilization.

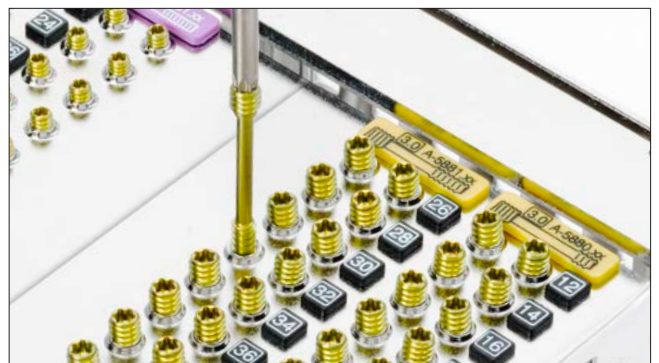
7. Picking up the screw

To remove the screws from the implant container, insert the appropriately color-coded screwdriver blade perpendicularly into the screw head of the desired screw and pick up the screw with axial pressure.

Notice

The screw will not hold without axial pressure!

Vertically extract the screw from the compartment.



Notice

Picking up the screw repeatedly may lead to permanent deformation of the self-retaining area of the HexaDrive inside the screw head. Therefore, the screw may no longer be able to be picked up correctly. In this case, a new screw has to be used.

Check the screw length and diameter at the scale of the measuring module. The screw length is determined at the end of the screw head.



CCS 1.7, 2.2, 3.0 and headedCCS 2.2, 3.0

8A. Inserting the screw

CCS 2.2, 3.0:

Remove the drill guide (A-2725, A-2825).

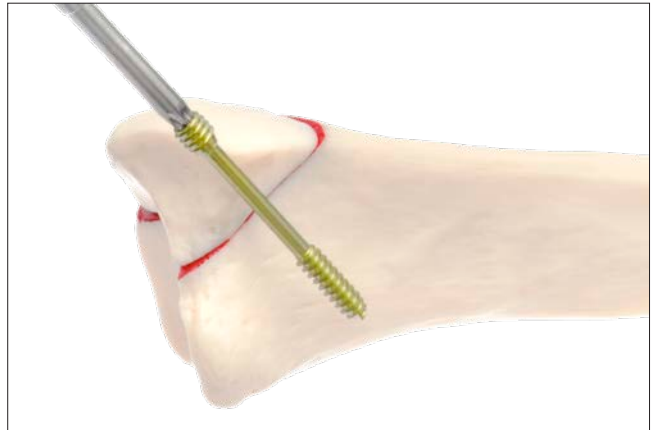
CCS 1.7, 2.2, 3.0 and headedCCS 2.2, 3.0:

The K-wire guide/protection sleeve (A-2225, A-2824) can be left in place.

headedCCS 2.2, 3.0:

Optionally, a washer (A-4700.71, A-4800.70) can also be used to achieve a larger contact surface between screw head and bone.

When inserting the screw, apply sufficient axial pressure in order to allow for proper cutting and good thread forming.



8B. Sinking the screw head

CCS 1.7, 2.2, 3.0:

Turn the screw until the screw head is completely inserted into the bone.

Remove the K-wire.

Caution

The correct position of the screw, screw head and screw tip as well as the screw length always have to be verified using X-ray control.



CCS 4.0, 5.0, 7.0 and headedCCS 4.0, 5.0, 7.0

1. Selecting the K-wire

Select the required K-wire diameter depending on screw size and verify the diameter in the container's measuring module.

Notice

To ensure that the lengths of the screws to be used are assigned correctly, only original APTUS K-wires may be used. If alternative wires are used, the correct screw length selection cannot be assured.

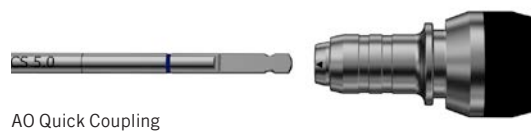


2. Protecting the soft tissue

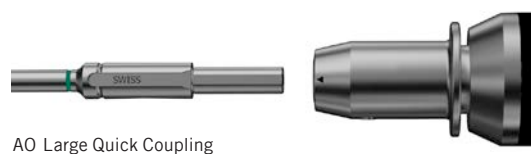
Connect the color-coded protection sleeve (A-8004.23, A-8000.23, A-8001.23) to the cannulated handle with quick coupling AO or AO Large (A-2077, A-8000.20, A-8001.10).



CCS 4.0, headedCCS 4.0
CCS 5.0, headedCCS 5.0



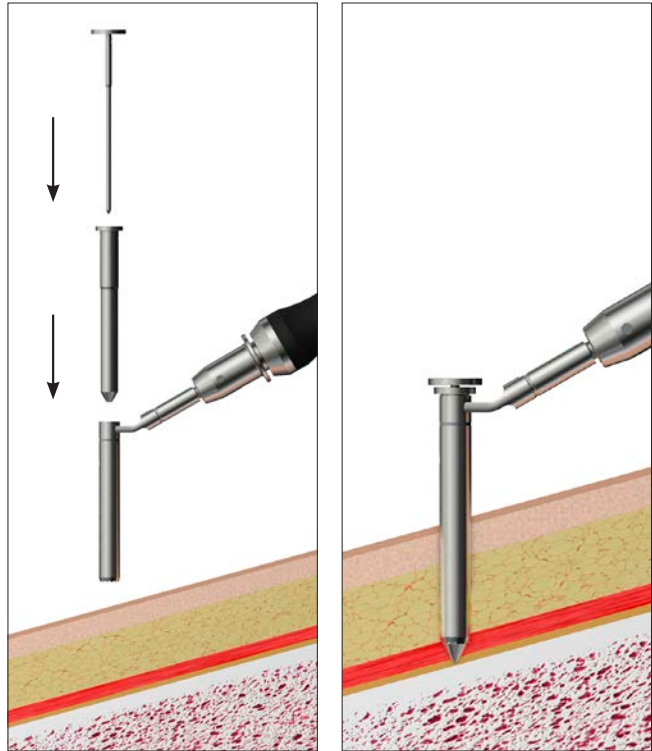
CCS 7.0, headedCCS 7.0



CCS 4.0, 5.0, 7.0 and headedCCS 4.0, 5.0, 7.0

Slide the K-wire guide (A-8004.25, A-8000.25, A-8001.25) and the trocar (A-8004.24, A-8000.24, A-8001.24) into the protection sleeve.

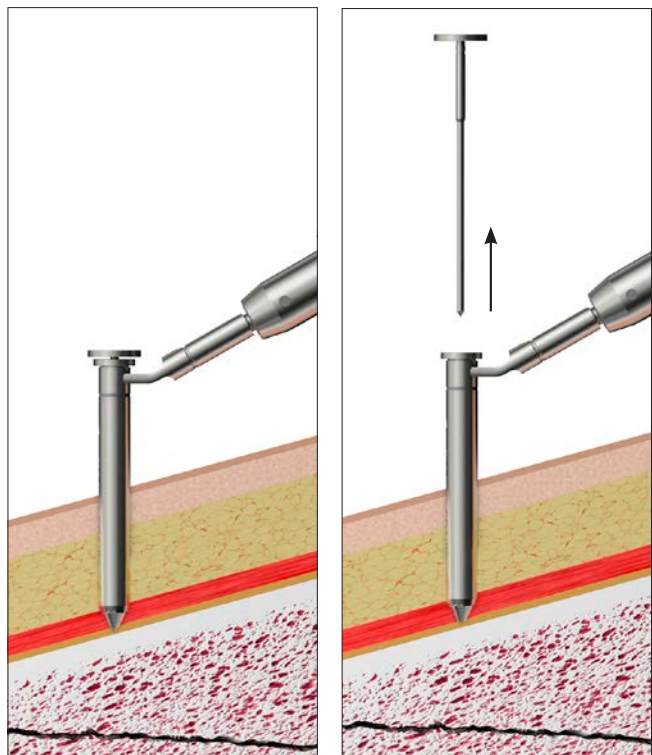
Place the protection sleeve onto the bone.



In case the trocar (A-8004.24, A-8000.24, A-8001.24) was used, pull it off with a slight turning and pulling movement.

Notice

In case the K-wire guide (A-8004.25, A-8000.25, A-8001.25) loosens, it needs to be moved back.

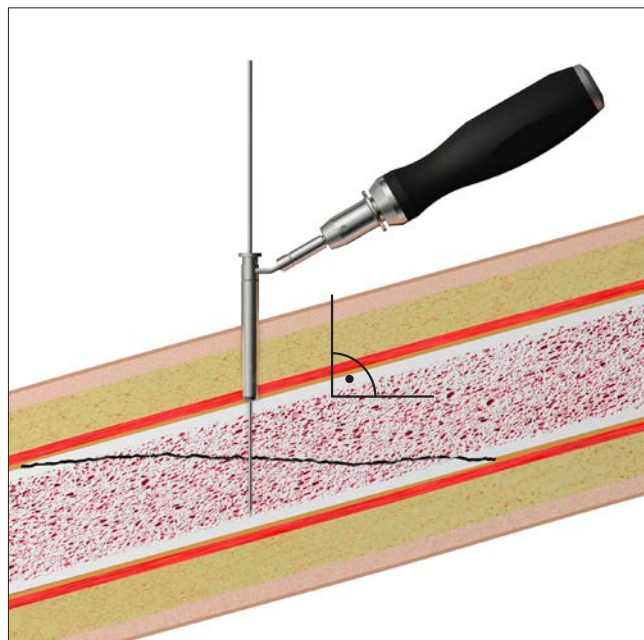


CCS 4.0, 5.0, 7.0 and headedCCS 4.0, 5.0, 7.0

3. Placing the K-wire

Place the K-wire perpendicularly to the fracture or osteotomy line. Do not forcefully insert the guide wire as it may bend.

Use X-ray control to verify the correct position of the K-wire.



CCS 4.0, 5.0, 7.0

4. Determining the required screw length

Remove the K-wire guide (A-8004.25, A-8000.25, A-8001.25).

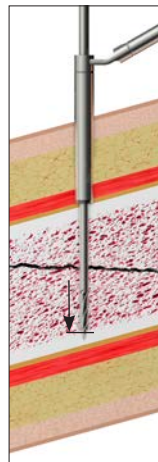
Slide the depth gauge (A-8004.27, A-8000.27, A-8001.27) over the K-wire until it touches the bone. The length can be read from the end of the K-wire.



5A. Drilling – optional

Predrill with the color-coded twist drill (A-8004.01, A-8000.03, A-8001.01) over the K-wire through the protection sleeve.

The twist drill must always be guided through a protection sleeve. This protects the surrounding tissue from direct contact with the drill. If the K-wire is completely overdrilled, it will no longer have purchase in the bone and it will become floating in the bone.

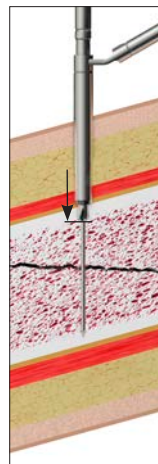


5B. Countersinking – optional

Drill the first cortex with the color-coded countersink (A-8004.02, A-8000.04, A-8001.02) over the K-wire through the protection sleeve.

Notice

The use of twist drills and/or countersinks is recommended in case of very hard bone.



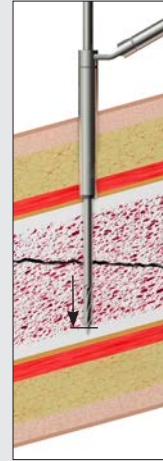
headedCCS 4.0, 5.0, 7.0

4A. Drilling – optional

Remove the K-wire guide (A-8004.25, A-8000.25, A-8001.25).

Predrill with the color-coded twist drill (A-8004.01, A-8000.03, A-8001.01) over the K-wire through the protection sleeve.

The twist drill must always be guided through a protection sleeve. This protects the surrounding tissue from direct contact with the drill. If the K-wire is completely overdrilled, it will no longer have purchase in the bone and it will become floating in the bone.

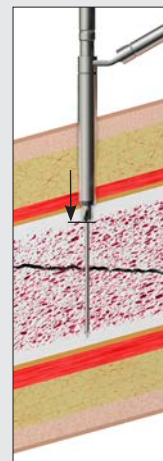


4B. Countersinking – optional

Drill the first cortex with the color-coded countersink (A-8004.03, A-8000.05, A-8001.03) over the K-wire through the protection sleeve.

Notice

The use of twist drills and/or countersinks is recommended in case of very hard bone.



5. Determining the required screw length

Slide the depth gauge (A-8004.27, A-8000.27, A-8001.27) over the K-wire until it touches the bone. The length can be read from the end of the K-wire.



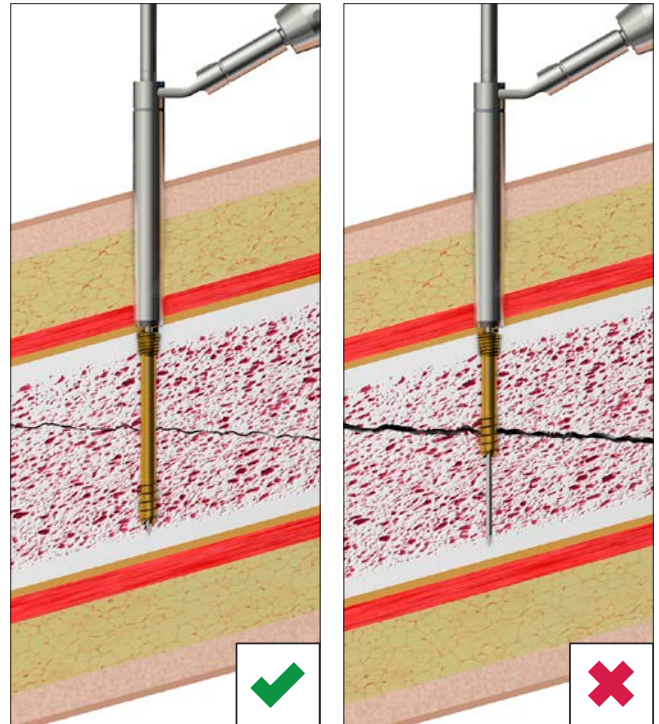
CCS 4.0, 5.0, 7.0 and headedCCS 4.0, 5.0, 7.0

6. Selecting the screw

Select a screw that is slightly shorter than the length determined in Step 4 (for CCS) and Step 5 (for headedCCS) to allow for shortening of the fracture gap through compression.

Notice

When selecting the screw, it is essential that the distal thread is not positioned within the fracture gap, as otherwise no compression can be achieved.



Fully threaded screws

As these screws do not compress, the thread can be positioned after reduction within the fracture gap. If compression of the fracture gap is desired, then a partially threaded screw has to be inserted first. Only afterwards a fully threaded screw may be inserted for stabilization.

CCS 4.0, 5.0, 7.0 and headedCCS 4.0, 5.0, 7.0

7. Picking up the screw

To remove the screws from the implant container, insert the appropriately color-coded screwdriver blade perpendicularly into the screw head of the desired screw and pick up the screw with axial pressure.

Notice

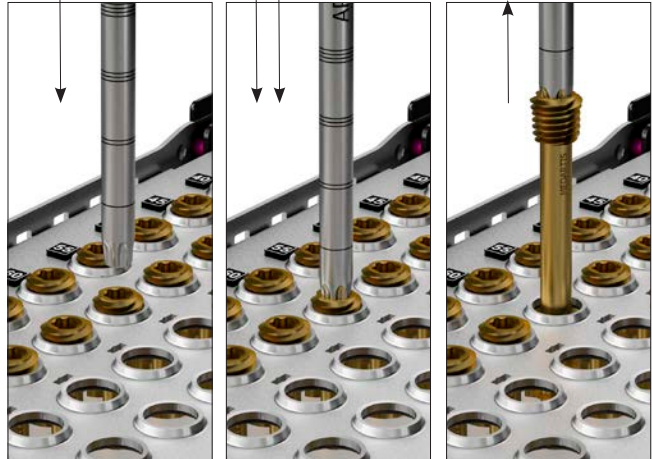
The screw will not hold without axial pressure!

Vertically extract the screw from the compartment.

Notice

Picking up the screw repeatedly may lead to permanent deformation of the self-retaining area of the HexaDrive inside the screw head. Therefore, the screw may no longer be able to be picked up correctly. In this case, a new screw has to be used.

Check the screw length and diameter at the scale of the measuring module. The screw length is determined at the end of the screw head.



8A. Inserting the screw

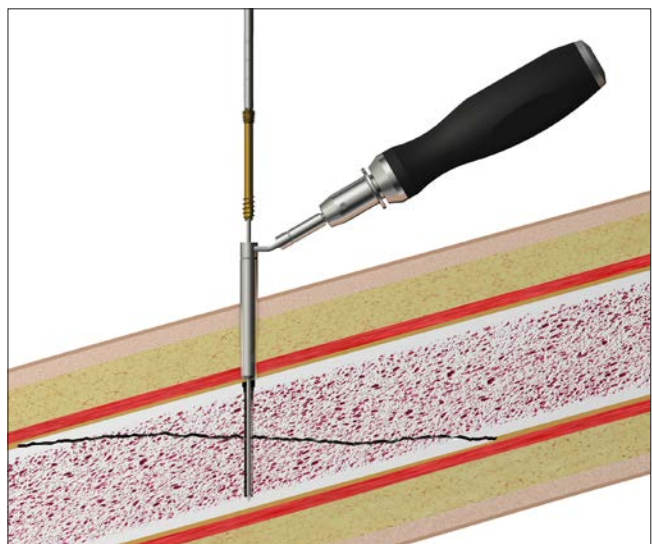
headedCCS 4.0, 5.0, 7.0:

Optionally, a washer (A-8140.70, A-8240.70, A-8440.70) can also be used to achieve a larger contact surface between screw head and bone.

Notice

Use the protection sleeve while inserting the screws.

When inserting the screw, apply sufficient axial pressure in order to allow for proper cutting and good thread formation.



CCS 4.0, 5.0, 7.0 and headedCCS 4.0, 5.0, 7.0

8B. Sinking the screw head

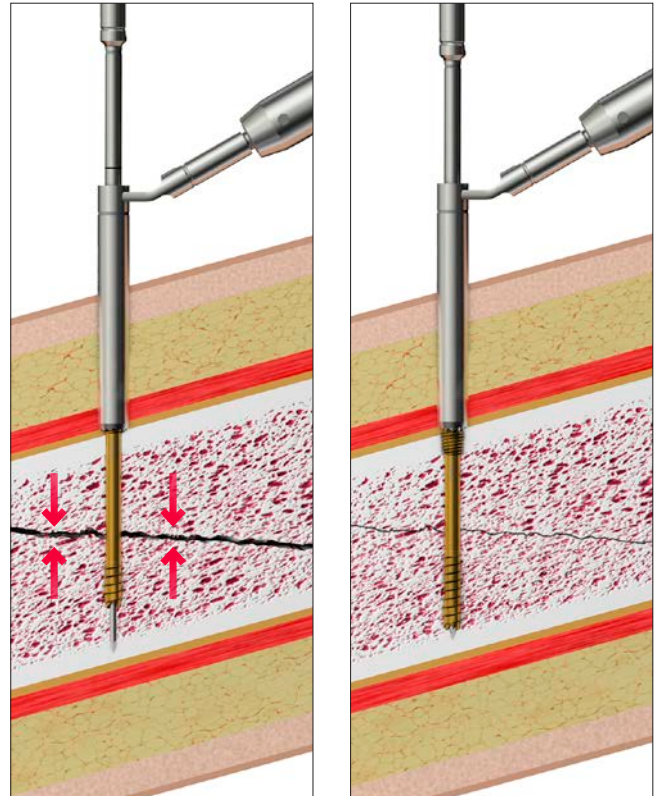
CCS 4.0, 5.0, 7.0

Turn the screw until the screw head is completely inserted in the bone.

Remove the K-wire.

Caution

The correct position of the screw, screw head and screw tip as well as the screw length always have to be verified using X-ray control.



Specific Surgical Techniques

Click-On Parallel K-Wire Guide

CCS 2.2, 3.0

The click-on parallel K-wire guide (A-2027) can be used to either place two screws for rotational stable treatment of a fracture or to place a second parallel K-wire for intraoperative rotational stability.

1. Placing the K-wire

Place the first K-wire so that a second K-wire can be placed (see Step 3 on page 14 in General Surgical Techniques for CCS 1.7, 2.2, 3.0 and headed CCS 2.2, 3.0).



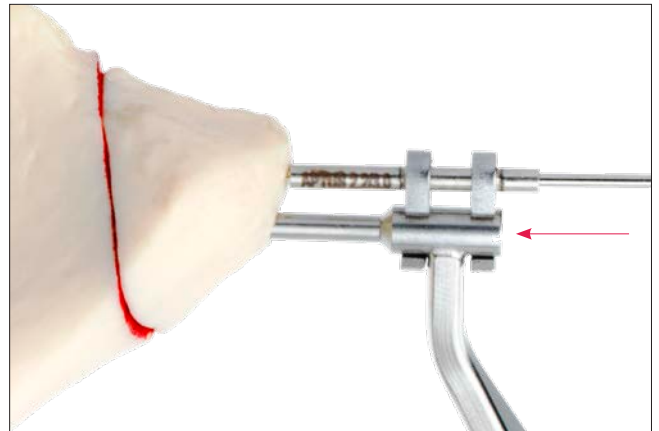
2. Attaching the click-on parallel K-wire guide

Attach the click-on parallel K-wire guide (A-2027) to the side marked "K-WIRE" of the drill guide (A-2725, A-2825). Depending on the shape of the bone, the long side of the click-on guide can either be turned up or down.



3A. Placing over the K-wire

Place the click-on parallel K-wire guide (A-2027) over the K-wire which is already placed. The second K-wire can then be positioned through the drill guide (A-2725, A-2825).



3B. Checking the K-wire position

Use X-ray control to verify the correct position of the K-wire.

4. Determining the required screw length

Continue with Step 4 on page 15 in General Surgical Techniques for CCS 1.7, 2.2, 3.0.

Notice

The click-on parallel K-wire guide must be removed parallel from the drill guide. If the guide is turned off, the click connection may distort.



Drill Stop

CCS 2.2, 3.0

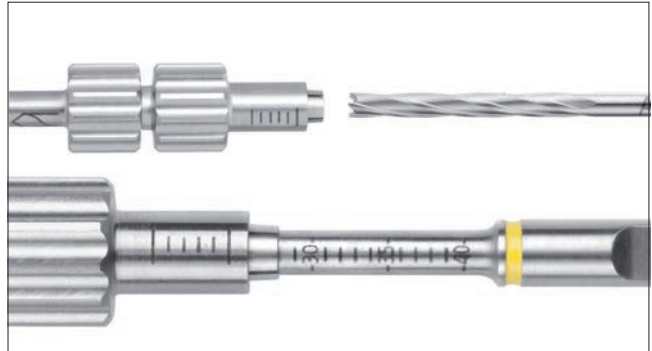
The drill stop (A-2038) can be used to drill to the determined or requested drill depth.

Notice

The drill stop is only to be used together with the corresponding cannulated twist drills (A-3738 and A-3838).

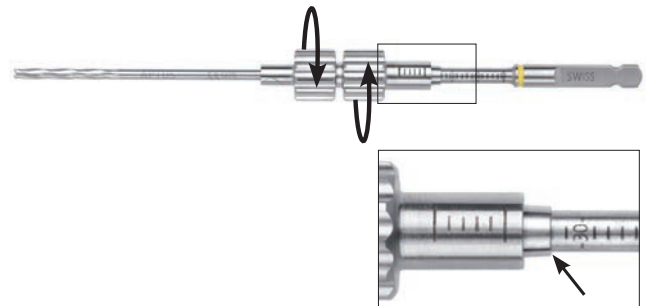
1. Attaching the drill stop

Slide the drill stop (A-2038) onto the drill. The drill stop has a pictogram on both of its ends:  and . Please make sure that  is mounted towards the scale and  towards the tip of the drill.



2. Adjusting to the drill depth

Adjust the drill stop (A-2038) to the determined or the requested drill depth and tighten it securely. The depth can be read at the end of the drill stop.



3. Drilling

Slide the drill guide and the drill over the K-wire and onto the bone. Use the side of the drill guide that is labeled with "DRILL".

The drill depth equals exactly the adjusted depth of the drill stop.

Notice

- If the drill guide (A-2725, A-2825) is not used, the hole will be drilled too deep.
- If excessive axial pressure is applied, the drill stop may move on the drill.
- If the K-wire is completely overdrilled, it will no longer have purchase in the bone and it will become floating in the bone. Therefore, the drill depth should be chosen accordingly (e.g. 2 mm shorter).



4. Selecting the screw

Continue with Step 6 on page 16 in General Surgical Techniques for CCS 1.7, 2.2, 3.0 and headed CCS 2.0, 3.0.

Protecting Soft Tissue During Screw Insertion

CCS 2.2, 3.0

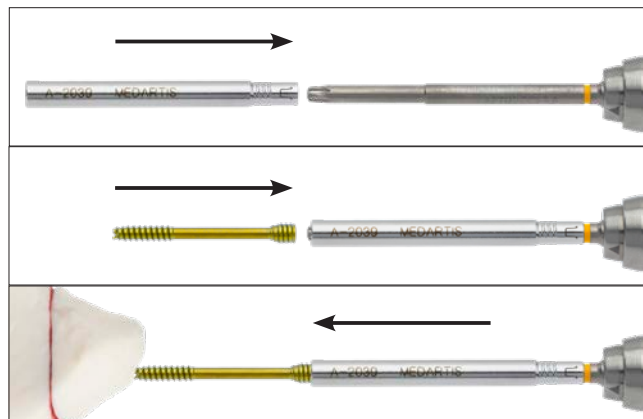
If required, the 2.2/3.0 protection sleeve (A-2039) can be used to protect the surrounding soft tissue.

Slide the protection sleeve onto the screwdriver blade.

Put the screw onto the screwdriver.

Slide the protection sleeve to the bone.

During screw insertion the protection sleeve slides back.



Determining Soft Tissue Thickness

CCS 4.0, 5.0, 7.0 and headed CCS 4.0, 5.0, 7.0

Notice

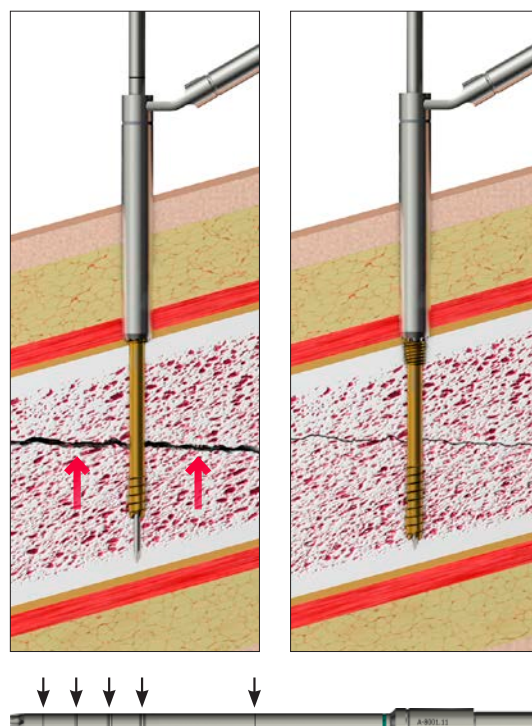
The depth gauge shows four laser-marked ring groups in the tip area for a rough estimate of the position relative to the soft tissue thickness when used **without** a protection sleeve.



Notice

The blade shows one single laser-marked ring in the shaft area for a rough orientation of the insertion depth relative to the soft tissue thickness when used **with** a protection sleeve. If the screw is completely inserted, this single ring is approximately positioned at the level of the end of the protection sleeve.

In addition, the blade – like the depth gauge (A-8004.27, A-8000.27, A-8001.27) – shows four laser-marked ring groups in the tip area for a rough orientation of the insertion depth relative to the soft tissue thickness when used **without** a protection sleeve. If the screw is inserted in the soft tissue to the previously determined depth gauge's ring group, the screw head is approximately positioned at the level of the cortex.



Implant Removal

For implant removal, it is recommended that the implants are removed by using only original APTUS instruments.

Notice

When removing implants, ensure that any bone ingrowth in the screw head has been removed.

It is recommended to insert a K-wire into the screw cannulation.

The screwdriver-screw head connection must be aligned in an axial direction. Ensure that the cannulated screwdriver blade is fully inserted into the HexaDrive recess of the screw head.

Implants, Instruments and Storage

Implants

CCS 1.7 Self-Drilling, HexaDrive 4

Material: Titanium alloy (ASTM F136)



Length	Pieces/Pkg	Long Thread Thread Length	Art. No.	Fully Threaded Art. No.
6 mm	1			A-5282.06/1
7 mm	1			A-5282.07/1
8 mm	1	3 mm	A-5281.08/1	A-5282.08/1
9 mm	1	4 mm	A-5281.09/1	A-5282.09/1
10 mm	1	4 mm	A-5281.10/1	A-5282.10/1
11 mm	1	5 mm	A-5281.11/1	A-5282.11/1
12 mm	1	5 mm	A-5281.12/1	A-5282.12/1
13 mm	1	5 mm	A-5281.13/1	A-5282.13/1
14 mm	1	6 mm	A-5281.14/1	A-5282.14/1
15 mm	1	6 mm	A-5281.15/1	A-5282.15/1
16 mm	1	7 mm	A-5281.16/1	A-5282.16/1
18 mm	1	7 mm	A-5281.18/1	
20 mm	1	8 mm	A-5281.20/1	

CCS 2.2 Self-Drilling, HexaDrive 7

Material: Titanium alloy (ASTM F136)



Length	Pieces/Pkg	Short Thread Thread Length	Art. No.	STERILE	Long Thread Thread Length	Art. No.	STERILE
10 mm	1	4 mm	A-5780.10/1	A-5780.10/1S			
11 mm	1	5 mm	A-5780.11/1	A-5780.11/1S			
12 mm	1	5 mm	A-5780.12/1	A-5780.12/1S			
13 mm	1	5 mm	A-5780.13/1	A-5780.13/1S			
14 mm	1	5 mm	A-5780.14/1	A-5780.14/1S			
15 mm	1	5 mm	A-5780.15/1	A-5780.15/1S			
16 mm	1	5 mm	A-5780.16/1	A-5780.16/1S			
17 mm	1	5 mm	A-5780.17/1	A-5780.17/1S			
18 mm	1	5 mm	A-5780.18/1	A-5780.18/1S			
19 mm	1	5 mm	A-5780.19/1	A-5780.19/1S			
20 mm	1	5 mm	A-5780.20/1	A-5780.20/1S			
21 mm	1	5 mm	A-5780.21/1	A-5780.21/1S			
22 mm	1	5 mm	A-5780.22/1	A-5780.22/1S	8 mm	A-5781.22/1	A-5781.22/1S
23 mm	1	5 mm	A-5780.23/1	A-5780.23/1S			

Length	Pieces/Pkg	Short Thread			Long Thread		
		Thread Length	Art. No.	STERILE	Thread Length	Art. No.	STERILE
24 mm	1	6 mm	A-5780.24/1	A-5780.24/1S	8 mm	A-5781.24/1	A-5781.24/1S
25 mm	1	6 mm	A-5780.25/1	A-5780.25/1S			
26 mm	1	6 mm	A-5780.26/1	A-5780.26/1S	8 mm	A-5781.26/1	A-5781.26/1S
27 mm	1	6 mm	A-5780.27/1	A-5780.27/1S			
28 mm	1	6 mm	A-5780.28/1	A-5780.28/1S	9 mm	A-5781.28/1	A-5781.28/1S
29 mm	1	6 mm	A-5780.28/1	A-5780.28/1S			
30 mm	1	6 mm	A-5780.30/1	A-5780.30/1S	10 mm	A-5781.30/1	A-5781.30/1S
32 mm	1				11 mm	A-5781.32/1	A-5781.32/1S
34 mm	1				12 mm	A-5781.34/1	A-5781.34/1S
36 mm	1				13 mm	A-5781.36/1	A-5781.36/1S
38 mm	1				14 mm	A-5781.38/1	A-5781.38/1S
40 mm	1				15 mm	A-5781.40/1	A-5781.40/1S

headed CCS 2.2 Self-Drilling, HexaDrive 7

Material: Titanium alloy (ASTM F136)



Length	Pieces/Pkg	Short Thread		Long Threaded	
		Thread Length	Art. No.	Thread Length	Art. No.
10 mm	1	4 mm	A-5785.10/1		
11 mm	1	5 mm	A-5785.11/1		
12 mm	1	5 mm	A-5785.12/1		
13 mm	1	5 mm	A-5785.13/1		
14 mm	1	5 mm	A-5785.14/1		
15 mm	1	5 mm	A-5785.15/1		
16 mm	1	5 mm	A-5785.16/1		
17 mm	1	5 mm	A-5785.17/1		
18 mm	1	5 mm	A-5785.18/1		
19 mm	1	5 mm	A-5785.19/1		
20 mm	1	5 mm	A-5785.20/1	8 mm	A-5786.20/1
21 mm	1	5 mm	A-5785.21/1	8 mm	A-5786.21/1
22 mm	1	5 mm	A-5785.22/1	8 mm	A-5786.22/1
23 mm	1	5 mm	A-5785.23/1	8 mm	A-5786.23/1
24 mm	1	6 mm	A-5785.24/1	8 mm	A-5786.24/1
25 mm	1	6 mm	A-5785.25/1	8 mm	A-5786.25/1
26 mm	1	6 mm	A-5785.26/1	8 mm	A-5786.26/1
27 mm	1	6 mm	A-5785.27/1	9 mm	A-5786.27/1
28 mm	1	6 mm	A-5785.28/1	9 mm	A-5786.28/1
29 mm	1	6 mm	A-5785.29/1	10 mm	A-5786.29/1
30 mm	1	6 mm	A-5785.30/1	10 mm	A-5786.30/1
32 mm	1	6 mm	A-5785.32/1	11 mm	A-5786.32/1
34 mm	1	7 mm	A-5785.34/1	12 mm	A-5786.34/1
36 mm	1	7 mm	A-5785.36/1	13 mm	A-5786.36/1
38 mm	1	8 mm	A-5785.38/1	14 mm	A-5786.38/1
40 mm	1	8 mm	A-5785.40/1	15 mm	A-5786.40/1

CCS 3.0

Self-Drilling, HexaDrive 10

Material: Titanium alloy (ASTM F136)



Length	Pieces/Pkg	Short Thread Thread Length	Art. No.	STERILE	Long Thread Thread Length	Art. No.	STERILE
10 mm	1	3.5 mm	A-5880.10/1	A-5880.10/1S			
11 mm	1	4.5 mm	A-5880.11/1	A-5880.11/1S			
12 mm	1	5 mm	A-5880.12/1	A-5880.12/1S			
13 mm	1	5 mm	A-5880.13/1	A-5880.13/1S			
14 mm	1	5 mm	A-5880.14/1	A-5880.14/1S			
15 mm	1	5 mm	A-5880.15/1	A-5880.15/1S			
16 mm	1	5 mm	A-5880.16/1	A-5880.16/1S			
17 mm	1	5 mm	A-5880.17/1	A-5880.17/1S			
18 mm	1	5 mm	A-5880.18/1	A-5880.18/1S			
19 mm	1	5 mm	A-5880.19/1	A-5880.19/1S			
20 mm	1	5 mm	A-5880.20/1	A-5880.20/1S			
21 mm	1	5 mm	A-5880.21/1	A-5880.21/1S			
22 mm	1	5 mm	A-5880.22/1	A-5880.22/1S			
23 mm	1	5 mm	A-5880.23/1	A-5880.23/1S			
24 mm	1	6 mm	A-5880.24/1	A-5880.24/1S			
25 mm	1	6 mm	A-5880.25/1	A-5880.25/1S			
26 mm	1	6 mm	A-5880.26/1	A-5880.26/1S	8 mm	A-5881.26/1	A-5881.26/1S
27 mm	1	6 mm	A-5880.27/1	A-5880.27/1S			
28 mm	1	6 mm	A-5880.28/1	A-5880.28/1S	9 mm	A-5881.28/1	A-5881.28/1S
29 mm	1	6 mm	A-5880.28/1	A-5880.28/1S			
30 mm	1	6 mm	A-5880.30/1	A-5880.30/1S	10 mm	A-5881.30/1	A-5881.30/1S
32 mm	1	6 mm	A-5880.32/1	A-5880.32/1S	11 mm	A-5881.32/1	A-5881.32/1S
34 mm	1	7 mm	A-5880.34/1	A-5880.34/1S	12 mm	A-5881.34/1	A-5881.34/1S
36 mm	1	7 mm	A-5880.36/1	A-5880.36/1S	13 mm	A-5881.36/1	A-5881.36/1S
38 mm	1	8 mm	A-5880.38/1	A-5880.38/1S	14 mm	A-5881.38/1	A-5881.38/1S
40 mm	1	8 mm	A-5880.40/1	A-5880.40/1S	15 mm	A-5881.40/1	A-5881.40/1S

headed CCS 3.0

Self-Drilling, HexaDrive 10

Material: Titanium alloy (ASTM F136)



Length	Pieces/Pkg	Short Thread Thread Length	Art. No.	Long Thread Thread Length	Art. No.
10 mm	1	4 mm	A-5885.10/1		
11 mm	1	5 mm	A-5885.11/1		
12 mm	1	5 mm	A-5885.12/1		
13 mm	1	5 mm	A-5885.13/1		
14 mm	1	5 mm	A-5885.14/1		
15 mm	1	5 mm	A-5885.15/1		
16 mm	1	5 mm	A-5885.16/1		

Length	Pieces/Pkg	Short Thread		Long Thread	
		Thread Length	Art. No.	Thread Length	Art. No.
17 mm	1	5 mm	A-5885.17/1		
18 mm	1	5 mm	A-5885.18/1		
19 mm	1	5 mm	A-5885.19/1		
20 mm	1	5 mm	A-5885.20/1	8 mm	A-5886.20/1
21 mm	1	5 mm	A-5885.21/1	8 mm	A-5886.21/1
22 mm	1	5 mm	A-5885.22/1	8 mm	A-5886.22/1
23 mm	1	5 mm	A-5885.23/1	8 mm	A-5886.23/1
24 mm	1	6 mm	A-5885.24/1	8 mm	A-5886.24/1
25 mm	1	6 mm	A-5885.25/1	8 mm	A-5886.25/1
26 mm	1	6 mm	A-5885.26/1	8 mm	A-5886.26/1
27 mm	1	6 mm	A-5885.27/1	9 mm	A-5886.27/1
28 mm	1	6 mm	A-5885.28/1	9 mm	A-5886.28/1
29 mm	1	6 mm	A-5885.29/1	10 mm	A-5886.29/1
30 mm	1	6 mm	A-5885.30/1	10 mm	A-5886.30/1
32 mm	1	6 mm	A-5885.32/1	11 mm	A-5886.32/1
34 mm	1	7 mm	A-5885.34/1	12 mm	A-5886.34/1
36 mm	1	7 mm	A-5885.36/1	13 mm	A-5886.36/1
38 mm	1	8 mm	A-5885.38/1	14 mm	A-5886.38/1
40 mm	1	8 mm	A-5885.40/1	15 mm	A-5886.40/1

CCS 4.0

Self-Drilling, HexaDrive 12

Material: Titanium alloy (ASTM F136)



Length	Pieces/Pkg	Short Thread		Long Thread		Fully Threaded
		Thread Length	Art. No.	Thread Length	Art. No.	Art. No.
16 mm	1	4 mm	A-8110.16/1			A-8112.16/1
18 mm	1	4 mm	A-8110.18/1			A-8112.18/1
20 mm	1	4 mm	A-8110.20/1	8 mm	A-8111.20/1	A-8112.20/1
22 mm	1	5 mm	A-8110.22/1	9 mm	A-8111.22/1	A-8112.22/1
24 mm	1	5 mm	A-8110.24/1	10 mm	A-8111.24/1	A-8112.24/1
26 mm	1	5 mm	A-8110.26/1	11 mm	A-8111.26/1	A-8112.26/1
28 mm	1	6 mm	A-8110.28/1	11 mm	A-8111.28/1	A-8112.28/1
30 mm	1	6 mm	A-8110.30/1	12 mm	A-8111.30/1	A-8112.30/1
32 mm	1	7 mm	A-8110.32/1	13 mm	A-8111.32/1	A-8112.32/1
34 mm	1	7 mm	A-8110.34/1	14 mm	A-8111.34/1	A-8112.34/1
36 mm	1	8 mm	A-8110.36/1	14 mm	A-8111.36/1	A-8112.36/1
38 mm	1	8 mm	A-8110.38/1	15 mm	A-8111.38/1	A-8112.38/1
40 mm	1	8 mm	A-8110.40/1	16 mm	A-8111.40/1	A-8112.40/1
42 mm	1	9 mm	A-8110.42/1	17 mm	A-8111.42/1	A-8112.42/1
44 mm	1	9 mm	A-8110.44/1	18 mm	A-8111.44/1	A-8112.44/1
46 mm	1	9 mm	A-8110.46/1	19 mm	A-8111.46/1	A-8112.46/1
48 mm	1	10 mm	A-8110.48/1	19 mm	A-8111.48/1	A-8112.48/1
50 mm	1	10 mm	A-8110.50/1	20 mm	A-8111.50/1	A-8112.50/1
55 mm	1	11 mm	A-8110.55/1	22 mm	A-8111.55/1	A-8112.55/1
60 mm	1	12 mm	A-8110.60/1	24 mm	A-8111.60/1	A-8112.60/1

headed CCS 4.0

Self-Drilling, HexaDrive 12

Material: Titanium alloy (ASTM F136)



Length	Pieces/Pkg	Short Thread		Long Thread		Fully Threaded
		Thread Length	Art. No.	Thread Length	Art. No.	Art. No.
16 mm	1	4 mm	A-8115.16/1			A-8117.16/1
18 mm	1	4 mm	A-8115.18/1			A-8117.18/1
20 mm	1	4 mm	A-8115.20/1	8 mm	A-8116.20/1	A-8117.20/1
22 mm	1	5 mm	A-8115.22/1	9 mm	A-8116.22/1	A-8117.22/1
24 mm	1	5 mm	A-8115.24/1	10 mm	A-8116.24/1	A-8117.24/1
26 mm	1	5 mm	A-8115.26/1	11 mm	A-8116.26/1	A-8117.26/1
28 mm	1	6 mm	A-8115.28/1	11 mm	A-8116.28/1	A-8117.28/1
30 mm	1	6 mm	A-8115.30/1	12 mm	A-8116.30/1	A-8117.30/1
32 mm	1	7 mm	A-8115.32/1	13 mm	A-8116.32/1	A-8117.32/1
34 mm	1	7 mm	A-8115.34/1	14 mm	A-8116.34/1	A-8117.34/1
36 mm	1	7 mm	A-8115.36/1	14 mm	A-8116.36/1	A-8117.36/1
38 mm	1	8 mm	A-8115.38/1	15 mm	A-8116.38/1	A-8117.38/1
40 mm	1	8 mm	A-8115.40/1	16 mm	A-8116.40/1	A-8117.40/1
42 mm	1	9 mm	A-8115.42/1	17 mm	A-8116.42/1	A-8117.42/1
44 mm	1	9 mm	A-8115.44/1	18 mm	A-8116.44/1	A-8117.44/1
46 mm	1	9 mm	A-8115.46/1	19 mm	A-8116.46/1	A-8117.46/1
48 mm	1	10 mm	A-8115.48/1	19 mm	A-8116.48/1	A-8117.48/1
50 mm	1	10 mm	A-8115.50/1	20 mm	A-8116.50/1	A-8117.50/1
55 mm	1	11 mm	A-8115.55/1	22 mm	A-8116.55/1	A-8117.55/1
60 mm	1	12 mm	A-8115.60/1	24 mm	A-8116.60/1	A-8117.60/1

CCS 5.0

Self-Drilling, HexaDrive 15

Material: Titanium alloy (ASTM F136)



Length	Pieces/Pkg	Short Thread		Long Thread		Fully Threaded	
		Thread Length	Art. No. STERILE	Thread Length	Art. No. STERILE	Art. No. STERILE	Art. No. STERILE
24 mm	1	9 mm	A-8210.24/1 A-8210.24/1S			A-8212.24/1	A-8212.24/1S
26 mm	1	9 mm	A-8210.26/1 A-8210.26/1S			A-8212.26/1	A-8212.26/1S
28 mm	1	9 mm	A-8210.28/1 A-8210.28/1S			A-8212.28/1	A-8212.28/1S
30 mm	1	9 mm	A-8210.30/1 A-8210.30/1S	12 mm	A-8211.30/1 A-8211.30/1S	A-8212.30/1	A-8212.30/1S
32 mm	1	9 mm	A-8210.32/1 A-8210.32/1S	13 mm	A-8211.32/1 A-8211.32/1S	A-8212.32/1	A-8212.32/1S
34 mm	1	9 mm	A-8210.34/1 A-8210.34/1S	14 mm	A-8211.34/1 A-8211.34/1S	A-8212.34/1	A-8212.34/1S
36 mm	1	10 mm	A-8210.36/1 A-8210.36/1S	14 mm	A-8211.36/1 A-8211.36/1S	A-8212.36/1	A-8212.36/1S
38 mm	1	10 mm	A-8210.38/1 A-8210.38/1S	15 mm	A-8211.38/1 A-8211.38/1S	A-8212.38/1	A-8212.38/1S
40 mm	1	11 mm	A-8210.40/1 A-8210.40/1S	16 mm	A-8211.40/1 A-8211.40/1S	A-8212.40/1	A-8212.40/1S
45 mm	1	11 mm	A-8210.45/1 A-8210.45/1S	18 mm	A-8211.45/1 A-8211.45/1S	A-8212.45/1	A-8212.45/1S
50 mm	1	12 mm	A-8210.50/1 A-8210.50/1S	20 mm	A-8211.50/1 A-8211.50/1S	A-8212.50/1	A-8212.50/1S
55 mm	1	12 mm	A-8210.55/1 A-8210.55/1S	22 mm	A-8211.55/1 A-8211.55/1S	A-8212.55/1	A-8212.55/1S
60 mm	1	13 mm	A-8210.60/1 A-8210.60/1S	24 mm	A-8211.60/1 A-8211.60/1S	A-8212.60/1	A-8212.60/1S
65 mm	1	13 mm	A-8210.65/1 A-8210.65/1S	26 mm	A-8211.65/1 A-8211.65/1S	A-8212.65/1	A-8212.65/1S
70 mm	1	14 mm	A-8210.70/1 A-8210.70/1S	28 mm	A-8211.70/1 A-8211.70/1S	A-8212.70/1	A-8212.70/1S

headed CCS 5.0

Self-Drilling, HexaDrive 15

Material: Titanium alloy (ASTM F136)

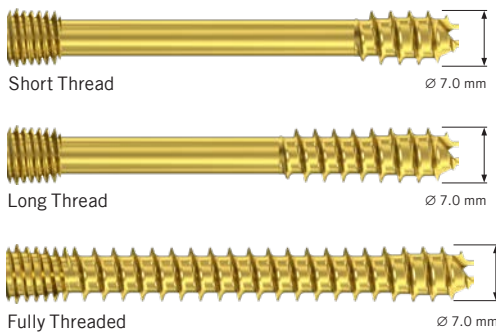


Length	Pieces/Pkg	Short Thread		Long Thread		Fully Threaded
		Thread Length	Art. No.	Thread Length	Art. No.	Art. No.
24 mm	1	9 mm	A-8215.24/1			A-8217.24 / 1
26 mm	1	9 mm	A-8215.26/1			A-8217.26 / 1
28 mm	1	9 mm	A-8215.28/1			A-8217.28/1
30 mm	1	9 mm	A-8215.30/1	12 mm	A-8216.30/1	A-8217.30/1
32 mm	1	9 mm	A-8215.32/1	13 mm	A-8216.32/1	A-8217.32/1
34 mm	1	9 mm	A-8215.34/1	14 mm	A-8216.34/1	A-8217.34/1
36 mm	1	10 mm	A-8215.36/1	14 mm	A-8216.36/1	A-8217.36/1
38 mm	1	10 mm	A-8215.38/1	15 mm	A-8216.38/1	A-8217.38/1
40 mm	1	11 mm	A-8215.40/1	16 mm	A-8216.40/1	A-8217.40/1
45 mm	1	11 mm	A-8215.45/1	18 mm	A-8216.45/1	A-8217.45/1
50 mm	1	12 mm	A-8215.50/1	20 mm	A-8216.50/1	A-8217.50/1
55 mm	1	12 mm	A-8215.55/1	22 mm	A-8216.55/1	A-8217.55/1
60 mm	1	13 mm	A-8215.60/1	24 mm	A-8216.60/1	A-8217.60/1
65 mm	1	13 mm	A-8215.65/1	26 mm	A-8216.65/1	A-8217.65/1
70 mm	1	14 mm	A-8215.70/1	28 mm	A-8216.70/1	A-8217.70/1

CCS 7.0

Self-Drilling, HexaDrive 25

Material: Titanium alloy (ASTM F136)



Length	Pieces/Pkg	Short Thread			Long Thread			Fully Threaded	
		Thread Length	Art. No.	STERILE	Thread Length	Art. No.	STERILE	Art. No.	STERILE
40 mm	1	12 mm	A-8410.40/1	A-8410.40/1S	16 mm	A-8411.40/1	A-8411.40/1S	A-8412.40/1	A-8412.40/1S
45 mm	1	12 mm	A-8410.45/1	A-8410.45/1S	18 mm	A-8411.45/1	A-8411.45/1S	A-8412.45/1	A-8412.45/1S
50 mm	1	13 mm	A-8410.50/1	A-8410.50/1S	20 mm	A-8411.50/1	A-8411.50/1S	A-8412.50/1	A-8412.50/1S
55 mm	1	13 mm	A-8410.55/1	A-8410.55/1S	22 mm	A-8411.55/1	A-8411.55/1S	A-8412.55/1	A-8412.55/1S
60 mm	1	14 mm	A-8410.60/1	A-8410.60/1S	24 mm	A-8411.60/1	A-8411.60/1S	A-8412.60/1	A-8412.60/1S
65 mm	1	14 mm	A-8410.65/1	A-8410.65/1S	26 mm	A-8411.65/1	A-8411.65/1S	A-8412.65/1	A-8412.65/1S
70 mm	1	15 mm	A-8410.70/1	A-8410.70/1S	28 mm	A-8411.70/1	A-8411.70/1S	A-8412.70/1	A-8412.70/1S
75 mm	1	15 mm	A-8410.75/1	A-8410.75/1S	30 mm	A-8411.75/1	A-8411.75/1S	A-8412.75/1	A-8412.75/1S
80 mm	1	16 mm	A-8410.80/1	A-8410.80/1S	32 mm	A-8411.80/1	A-8411.80/1S	A-8412.80/1	A-8412.80/1S

85 mm 1	17 mm A-8410.85/1 A-8410.85/1S	34 mm A-8411.85/1 A-8411.85/1S	A-8412.85/1 A-8412.85/1S
90 mm 1	18 mm A-8410.90/1 A-8410.90/1S	36 mm A-8411.90/1 A-8411.90/1S	A-8412.90/1 A-8412.90/1S
95 mm 1	19 mm A-8410.95/1 A-8410.95/1S	38 mm A-8411.95/1 A-8411.95/1S	A-8412.95/1 A-8412.95/1S
100 mm 1	20 mm A-8410.100/1 A-8410.100/1S	40 mm A-8411.100/1 A-8411.100/1S	A-8412.100/1 A-8412.100/1S
105 mm 1	21 mm A-8410.105/1 A-8410.105/1S	42 mm A-8411.105/1 A-8411.105/1S	A-8412.105/1 A-8412.105/1S
110 mm 1	22 mm A-8410.110/1 A-8410.110/1S	44 mm A-8411.110/1 A-8411.110/1S	A-8412.110/1 A-8412.110/1S
120 mm 1	24 mm A-8410.120/1 A-8410.120/1S	48 mm A-8411.120/1 A-8411.120/1S	A-8412.120/1 A-8412.120/1S
130 mm 1	26 mm A-8410.130/1 A-8410.130/1S	52 mm A-8411.130/1 A-8411.130/1S	A-8412.130/1 A-8412.130/1S
140 mm 1	28 mm A-8410.140/1 A-8410.140/1S	56 mm A-8411.140/1 A-8411.140/1S	A-8412.140/1 A-8412.140/1S

headed CCS 7.0 Self-Drilling, HexaDrive 25

Material: Titanium alloy (ASTM F136)



Short Thread



Long Thread



Fully Threaded

Length	Pieces/Pkg	Short Thread		Long Thread		Fully Threaded
		Thread Length	Art. No.	Thread Length	Art. No.	Art. No.
30 mm	1	12 mm	A-8415.30/1			A-8417.30/1
35 mm	1	12 mm	A-8415.35/1	14 mm	A-8416.35/1	A-8417.35/1
40 mm	1	12 mm	A-8415.40/1	16 mm	A-8416.40/1	A-8417.40/1
45 mm	1	12 mm	A-8415.45/1	18 mm	A-8416.45/1	A-8417.45/1
50 mm	1	13 mm	A-8415.50/1	20 mm	A-8416.50/1	A-8417.50/1
55 mm	1	13 mm	A-8415.55/1	22 mm	A-8416.55/1	A-8417.55/1
60 mm	1	14 mm	A-8415.60/1	24 mm	A-8416.60/1	A-8417.60/1
65 mm	1	14 mm	A-8415.65/1	26 mm	A-8416.65/1	A-8417.65/1
70 mm	1	15 mm	A-8415.70/1	28 mm	A-8416.70/1	A-8417.70/1
75 mm	1	15 mm	A-8415.75/1	30 mm	A-8416.75/1	A-8417.75/1
80 mm	1	16 mm	A-8415.80/1	32 mm	A-8416.80/1	A-8417.80/1
85 mm	1	17 mm	A-8415.85/1	34 mm	A-8416.85/1	A-8417.85/1
90 mm	1	18 mm	A-8415.90/1	36 mm	A-8416.90/1	A-8417.90/1
95 mm	1	19 mm	A-8415.95/1	38 mm	A-8416.95/1	A-8417.95/1
100 mm	1	20 mm	A-8415.100/1	40 mm	A-8416.100/1	A-8417.100/1
105 mm	1	21 mm	A-8415.105/1	42 mm	A-8416.105/1	A-8417.105/1
110 mm	1	22 mm	A-8415.110/1	44 mm	A-8416.110/1	A-8417.110/1
120 mm	1	24 mm	A-8415.120/1	48 mm	A-8416.120/1	A-8417.120/1
130 mm	1	26 mm	A-8415.130/1	52 mm	A-8416.130/1	A-8417.130/1
140 mm	1	28 mm	A-8415.140/1	56 mm	A-8416.140/1	A-8417.140/1

Washers

Material: Titanium alloy (ASTM F136)



Art. No.	System Size	Ø	Description	Pieces/Pkg
A-4700.71/1	2.2	5.0 mm	for headed CCS	1
A-4800.70/1	3.0	6.5 mm	for headed CCS	1
A-8140.70/1	4.0	7.5 mm	for headed CCS	1
A-8240.70/1	5.0	9.0 mm	for headed CCS	1
A-8440.70/1	7.0	13.0 mm	for headed CCS	1

Instruments

CCS Twist Drills, Cannulated



A-3236



A-3736



A-3738



A-3836



A-3838



A-8004.01



A-8000.03



A-8001.01

Art. No.	STERILE	System Size	Ø	Length	Description	Shaft End	Pieces/Pkg
A-3236		1.7	1.3 mm	67 mm	for K-wire Ø 0.6 mm	AO Quick Coupling	1
A-3736	A-3736S	2.2	1.8 mm	87 mm	for K-wire Ø 0.8 mm	AO Quick Coupling	1
A-3738	A-3738S	2.2	1.8 mm	122 mm	for K-wire Ø 0.8 mm, for drill stop A-2038	AO Quick Coupling	1
A-3836	A-3836S	3.0	2.1 mm	87 mm	for K-wire Ø 1.1 mm	AO Quick Coupling	1
A-3838	A-3838S	3.0	2.1 mm	122 mm	for K-wire Ø 1.1 mm, for drill stop A-2038	AO Quick Coupling	1
A-8000.03	A-8000.03S	5.0	3.1 mm	177 mm	for K-wire Ø 1.6 mm	AO Quick Coupling	1
A-8001.01	A-8001.01S	7.0	4.8 mm	265 mm	for K-wire Ø 2.2 mm	AO Large Quick Coupling	1
A-8004.01		4.0	2.7 mm	160 mm	for K-wire Ø 1.25 mm	AO Quick Coupling	1

Drill Stop



Art. No.	System Size	Length	Description	Pieces/Pkg
A-2038	2.2/3.0	35 mm	for cannulated twist drills A-3738 and A-3838	1

CCS Countersinks, Cannulated



A-3932



A-3937



A-3938



A-3935



A-3936



A-8004.02



A-8004.03



A-8000.04



A-8000.05



A-8001.02



A-8001.03

Art. No.	STERILE	System Size	Length	Description	Shaft End	Pieces/Pkg
A-3932		1.7	50 mm	for CCS only	AO Quick Coupling	1
A-3935		2.2	68 mm	for headedCCS only	AO Quick Coupling	1
A-3936		3.0	68 mm	for headedCCS only	AO Quick Coupling	1
A-3937	A-3937S	2.2	68 mm	for CCS only	AO Quick Coupling	1
A-3938	A-3938S	3.0	68 mm	for CCS only	AO Quick Coupling	1
A-8000.04	A-8000.04S	5.0	117 mm	for CCS only	AO Quick Coupling	1
A-8000.05		5.0	117 mm	for headedCCS only	AO Quick Coupling	1
A-8001.02	A-8001.02S	7.0	135 mm	for CCS only	AO Large Quick Coupling	1
A-8001.03		7.0	135 mm	for headedCCS only	AO Large Quick Coupling	1
A-8004.02		4.0	117 mm	for CCS only	AO Quick Coupling	1
A-8004.03		4.0	117 mm	for headedCCS only	AO Quick Coupling	1

K-Wires, Stainless Steel



Art. No.	STERILE	System Size	Ø	Description	Length	Thread Length	Pieces/Pkg
A-5040.00		2.2	0.8 mm	trocar	100 mm		10
	A-5040.00/1S	2.2	0.8 mm	trocar	100 mm		1
A-5040.10		3.0	1.1 mm	trocar	100 mm		10
	A-5040.10/1S	3.0	1.1 mm	trocar	100 mm		1
A-5040.30		4.0	1.25 mm	trocar	200 mm		10
A-5040.30/1		4.0	1.25 mm	trocar	200 mm		1
A-5040.42		5.0	1.6 mm	trocar	200 mm		10
	A-5040.42/1S	5.0	1.6 mm	trocar	200 mm		1
A-5040.74		7.0	2.2 mm	trocar	250 mm		10
	A-5040.74/1S	7.0	2.2 mm	trocar	250 mm		1
A-5040.90		1.7	0.6 mm	trocar	100 mm		10
A-5040.90/1		1.7	0.6 mm	trocar	100 mm		1
A-5042.00		2.2	0.8 mm	lancet	100 mm		10
	A-5042.00/1S	2.2	0.8 mm	lancet	100 mm		1
A-5042.10		3.0	1.1 mm	lancet	100 mm		10
	A-5042.10/1S	3.0	1.1 mm	lancet	100 mm		1
A-5043.00		2.2	0.8 mm	2 x trocar	100 mm		10
	A-5043.00/1S	2.2	0.8 mm	2 x trocar	100 mm		1
A-5043.10		3.0	1.1 mm	2 x trocar	100 mm		10
	A-5043.10/1S	3.0	1.1 mm	2 x trocar	100 mm		1
A-5043.90		1.7	0.6 mm	2 x trocar	100 mm		10
A-5043.90/1		1.7	0.6 mm	2 x trocar	100 mm		1
A-5044.30		4.0	1.25 mm	trocar/threaded	200 mm	10 mm	10
A-5044.30/1		4.0	1.25 mm	trocar/threaded	200 mm	10 mm	1
A-5044.42		5.0	1.6 mm	trocar/threaded	200 mm	10 mm	10
	A-5044.42/1S	5.0	1.6 mm	trocar/threaded	200 mm	10 mm	1
A-5044.74		7.0	2.2 mm	trocar/threaded	250 mm	10 mm	10
	A-5044.74/1S	7.0	2.2 mm	trocar/threaded	250 mm	10 mm	1

Click-on Parallel K-Wire Guide



Art. No.	System Size	Description	Length	Pieces/Pkg
A-2027	2.2/3.0	for drill guides A-2725 and A-2825	20 mm	1

Soft Tissue Protection



A-2225



A-2824



A-2007



A-2725



A-2825



A-2039



A-8004.23



A-8000.23



A-8001.23



A-8004.25



A-8000.25



A-8001.25



A-8004.24



A-8000.24



A-8001.24

Art. No.	System Size	CCS/headedCCS	Description	Pieces/Pkg
A-2007	2.2/3.0	CCS/headedCCS	K-wire guide, percutaneous	1
A-2225	1.7	CCS	K-wire guide/protection sleeve	1
A-2039	2.2/3.0	CCS	protection sleeve	1
A-2725	2.2	CCS	drill guide	1
A-2824	2.2/3.0	CCS/headedCCS	K-wire guide/protection sleeve	1
A-2825	3.0	CCS	drill guide	1
A-8000.23	5.0	CCS/headedCCS	protection sleeve, AO Quick Coupling	1
A-8000.24	5.0	CCS/headedCCS	trocars for A-8000.23	1
A-8000.25	5.0	CCS/headedCCS	K-wire guide for A-8000.23	1
A-8001.23	7.0	CCS/headedCCS	protection sleeve, AO Large Quick Coupling	1
A-8001.24	7.0	CCS/headedCCS	trocars for A-8001.23	1
A-8001.25	7.0	CCS/headedCCS	K-wire guide for A-8001.23	1
A-8004.23	4.0	CCS/headedCCS	protection sleeve, AO	1
A-8004.24	4.0	CCS/headedCCS	trocars for A-8004.23	1
A-8004.25	4.0	CCS/headedCCS	K-wire guide for A-8004.23	1

Depth Gauges



A-2235



A-2835



A-8004.27



A-8000.27



A-8001.27

Art. No.	System Size	Description	Length	Pieces/Pkg
A-2235	1.7	for K-wire with $\varnothing$ 0.6 mm and length 100 mm	110 mm	1
A-2835	2.2/3.0	for K-wire with $\varnothing$ 0.8 mm/1.1 mm and length 100 mm	110 mm	1
A-8000.27	5.0	for K-wire with $\varnothing$ 1.6 mm and length 200 mm	193 mm	1
A-8001.27	7.0	for K-wire with $\varnothing$ 2.2 mm and length 250 mm	223 mm	1
A-8004.27	4.0	for K-wire with $\varnothing$ 1.25 mm and length 200 mm	192 mm	1

Handles, Cannulated



A-2073



A-2077



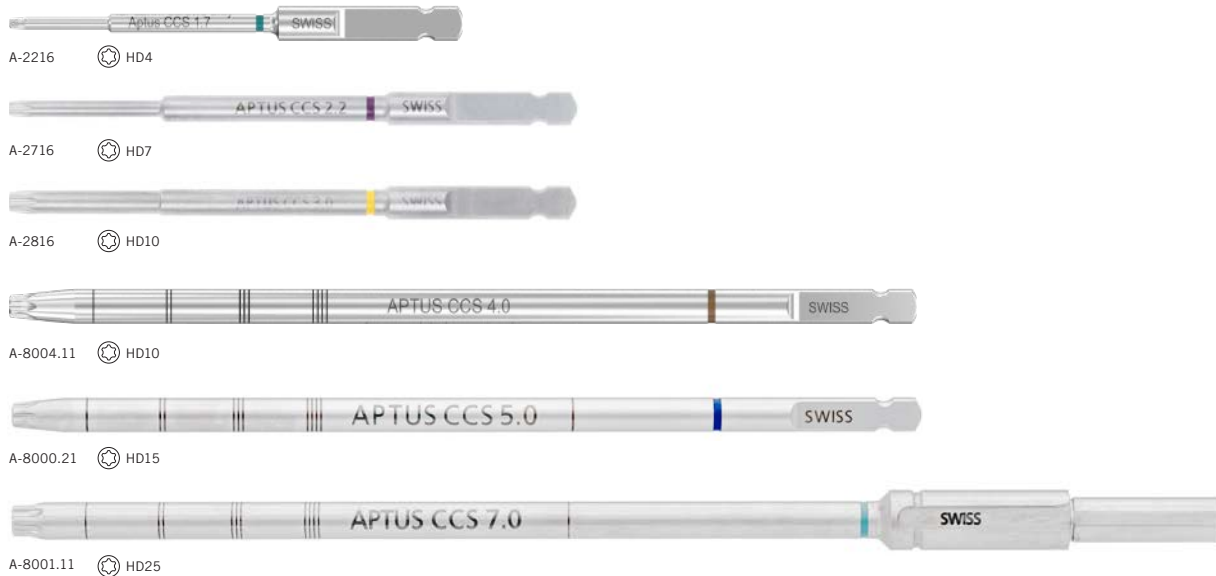
A-8000.20



A-8001.10

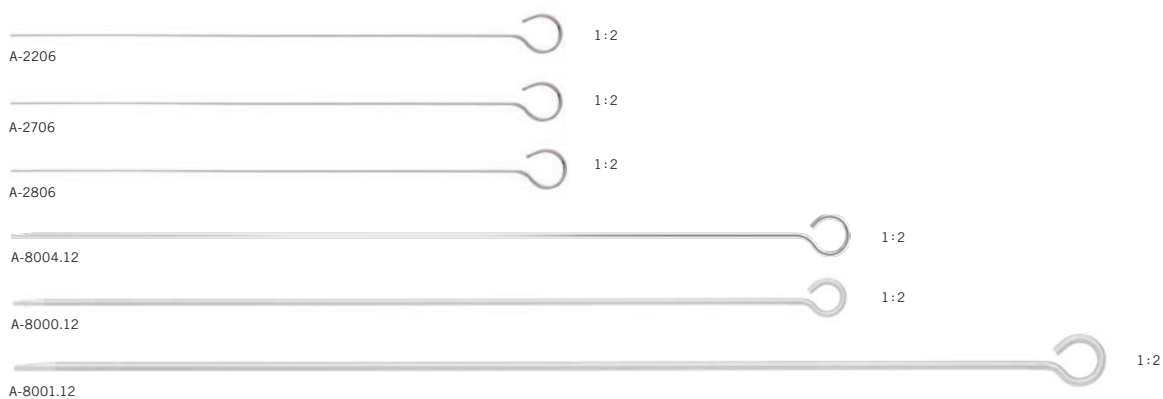
Art. No.	System Size	Description	Length	for Shaft End	Pieces/Pkg
A-2073	1.7/2.2/3.0	with twist cap	125 mm	AO Quick Coupling	1
A-2077	4.0		129 mm	AO Quick Coupling	1
A-8000.20	5.0		151 mm	AO Quick Coupling	1
A-8001.10	7.0		171 mm	AO Large Quick Coupling	1

Screwdriver Blades, Cannulated, Self-Holding



Art. No.	System Size	Interface	Description	Length	Shaft End	Pieces/Pkg
A-2216	1.7	HD4	for K-wire Ø 0.6 mm and length 100 mm	60 mm	AO Quick Coupling	1
A-2716	2.2	HD7	for K-wire Ø 0.8 mm and length 100 mm	75 mm	AO Quick Coupling	1
A-2816	3.0	HD10	for K-wire Ø 1.1 mm and length 100 mm	75 mm	AO Quick Coupling	1
A-8000.21	5.0	HD15	for K-wire Ø 1.6 mm and length 200 mm	120 mm	AO Quick Coupling	1
A-8001.11	7.0	HD25	for K-wire Ø 2.2 mm and length 250 mm	160 mm	AO Large Quick Coupling	1
A-8004.11	4.0	HD12	for K-wire Ø 1.25 mm and length 200 mm	120 mm	AO Quick Coupling	1

Cleaning Styluses



Art. No.	System Size	Ø	Length	Pieces/Pkg
A-2206	1.7	0.6 mm	147 mm	1
A-2706	2.2	0.8 mm	147 mm	1
A-2806	3.0	1.1 mm	148 mm	1
A-8000.12	5.0	1.6 mm	222 mm	1
A-8001.12	7.0	2.3 mm	291 mm	1
A-8004.12	4.0	1.3 mm	222 mm	1

Periosteal Elevator



Art. No.	Width	Length	Pieces/Pkg
A-7011	3 mm	185 mm	1

Bone Holding Clamp for Scarf Osteotomies



Art. No.	Length	Pieces/Pkg
A-2065	147 mm	1

Storage

CCS 1.7

Art. No.	Description	Dimension (W × L)	Pieces/Pkg
A-6603.111	implant case APTUS CCS 1.7	120 × 240 mm	1
A-6603.121	implant/instrument case APTUS CCS 1.7	240 × 240 mm	1
A-6603.131	instrument case APTUS CCS 1.7	120 × 240 mm	1
A-6603.141	instrument tray APTUS CCS 1.7 for A-6603.121 or A-6603.131	120 × 240 mm	1
M-6726	lid for implant and instrument case	120 × 240 mm	1
M-6727	lid for implant and instrument case	240 × 240 mm	1

CCS 2.2,3.0

Art. No.	Description	Dimension (W × L)	Pieces /Pkg
A-6603.001	implant/instrument case APTUS CCS 2.2, 3.0	240 × 240 mm	1
A-6603.003	implant/instrument case APTUS CCS 2.2, 3.0	240 × 240 mm	1
A-6603.004	implant/instrument case APTUS CCS 2.2, 3.0	240 × 240 mm	1
A-6603.011	implant case APTUS CCS 2.2, 3.0	120 × 240 mm	1
A-6603.013	implant case APTUS CCS 2.2, 3.0	120 × 240 mm	1
A-6603.014	implant case APTUS CCS 2.2, 3.0	120 × 240 mm	1
A-6603.021	implant/instrument case APTUS CCS 2.2, 3.0, small	120 × 240 mm	1
A-6603.022	implant/instrument case APTUS CCS 2.2, 3.0, small	120 × 240 mm	1
A-6603.023	implant/instrument case APTUS CCS 2.2, 3.0, small	120 × 240 mm	1
A-6603.025	implant/instrument case APTUS CCS 2.2, 3.0, small	120 × 240 mm	1
A-6603.026	implant/instrument case APTUS CCS 2.2, 3.0, small	120 × 240 mm	1
A-6603.031	instrument case APTUS CCS 2.2, 3.0, in combination with any A-6603.01x	120 × 240 mm	1
A-6603.041	instrument tray APTUS CCS 2.2, 3.0, lower, for A-6603.00x or A-6603.031	120 × 240 mm	1
A-6603.042	instrument tray APTUS CCS 2.2, 3.0, upper, for A-6603.00x or A-6603.031	120 × 240 mm	1
A-6603.052	instrument tray APTUS CCS 2.2, 3.0, upper, small, for A-6603.02x	60 × 240 mm	1
A-6603.053	instrument tray APTUS CCS 2.2, 3.0, lower, small, for A-6603.02x	60 × 240 mm	1
A-6603.054	instrument tray APTUS CCS 2.2, 3.0, lower, small, for A-6603.02x	60 × 240 mm	1
M-6706	lid for implant and instrument case	120 × 240 mm	1
M-6707	lid for implant and instrument case	240 × 240 mm	1

headedCCS 2.2,3.0

Art. No.	Description	Dimension (W × L)	Pieces /Pkg
A-6603.043	instrument tray APTUS headedCCS 2.2,3.0, for A-6603.071 or A-6603.081	120 × 240 mm	1
A-6603.061	implant case APTUS headedCCS 2.2,3.0	120 × 240 mm	1
A-6603.071	implant/instrument case APTUS headedCCS 2.2,3.0	240 × 240 mm	1
A-6603.081	instrument case APTUS headedCCS 2.2,3.0	120 × 240 mm	1
M-6726	lid for implant and instrument case	120 × 240 mm	1
M-6727	lid for implant and instrument case	240 × 240 mm	1

CCS 4.0

Art. No.	Description	Dimension (W × L)	Pieces /Pkg
A-6603.411	implant case APTUS CCS 4.0	120 × 240 mm	1
A-6603.421	implant/instrument case APTUS CCS 4.0	240 × 240 mm	1
A-6603.431	instrument case APTUS CCS 4.0	120 × 240 mm	1
A-6603.441	instrument tray APTUS CCS 4.0, lower, for A-6603.421 or A-6603.431	120 × 240 mm	1
A-6603.442	instrument tray APTUS CCS 4.0, upper, for A- A-6603.421 or A-6603.431	120 × 240 mm	1
M-6726	lid for implant and instrument case	120 × 240 mm	1
M-6727	lid for implant and instrument case	240 × 240 mm	1

headedCCS 4.0

Art. No.	Description	Dimension (W × L)	Pieces/Pkg
A-6603.442	instrument tray APTUS CCS 4.0, upper, for A-6603.471 or A-6603.481	120 × 240 mm	1
A-6603.443	instrument tray APTUS headedCCS 4.0, lower, for A-6603.471 or A-6603.481	120 × 240 mm	1
A-6603.461	implant case APTUS headedCCS 4.0	120 × 240 mm	1
A-6603.471	implant/instrument case APTUS headedCCS 4.0	240 × 240 mm	1
A-6603.481	instrument case APTUS headedCCS 4.0	120 × 240 mm	1
M-6726	lid for implant and instrument case	120 × 240 mm	1
M-6727	lid for implant and instrument case	240 × 240 mm	1

CCS 5.0

Art. No.	Description	Dimension (W × L)	Pieces/Pkg
A-6603.511	implant/instrument case APTUS CCS 5.0	240 × 240 mm	1
A-6603.521	implant case APTUS CCS 5.0	120 × 240 mm	1
A-6603.531	instrument case APTUS CCS 5.0	120 × 240 mm	1
A-6603.541	instrument tray APTUS CCS 5.0, lower, for A-6603.511 or A-6603.531	120 × 240 mm	1
A-6603.542	instrument tray APTUS CCS 5.0, upper, for A-6603.511 or A-6603.531	120 × 240 mm	1
M-6706	lid for implant and instrument case	120 × 240 mm	1
M-6707	lid for implant and instrument case	240 × 240 mm	1

headedCCS 5.0

Art. No.	Description	Dimension (W × L)	Pieces/Pkg
A-6603.542	instrument tray APTUS CCS 5.0, upper, for A-6603.571 or A-6603.581	120 × 240 mm	1
A-6603.543	instrument tray APTUS headedCCS 5.0, lower, for A-6603.571 or A-6603.581	120 × 240 mm	1
A-6603.561	implant case APTUS headedCCS 5.0	120 × 240 mm	1
A-6603.571	implant/instrument case APTUS headedCCS 5.0	240 × 240 mm	1
A-6603.581	instrument case APTUS headedCCS 5.0	120 × 240 mm	1
M-6726	lid for implant and instrument case	120 × 240 mm	1
M-6727	lid for implant and instrument case	240 × 240 mm	1

CCS 7.0

Art. No.	Description	Dimension (W × L)	Pieces/Pkg
A-6603.721	implant case APTUS CCS 7.0	240 × 240 mm	1
A-6603.731	instrument case APTUS CCS 7.0	240 × 240 mm	1
A-6603.741	instrument tray APTUS CCS 7.0, lower, for A-6603.731	240 × 240 mm	1
A-6603.742	instrument tray APTUS CCS 7.0, upper, for A-6603.731	240 × 240 mm	1
M-6707	lid for implant and instrument case	240 × 240 mm	1

headedCCS 7.0

Art. No.	Description	Dimension (W × L)	Pieces/Pkg
A-6603.742	instrument tray APTUS CCS 5.0, upper, for A-6603.781	240 × 240 mm	1
A-6603.743	instrument tray APTUS headedCCS 7.0, lower, for A-6603.781	240 × 240 mm	1
A-6603.761	implant case APTUS headedCCS 7.0	240 × 240 mm	1
A-6603.781	instrument case APTUS headedCCS 7.0	240 × 240 mm	1
M-6727	lid for implant and instrument case	240 × 240 mm	1

Storage and Transportation

Art. No.	Description	Dimension (W × L × H)	Pieces/Pkg
A-6610.50	storage container	265 × 257 × 238 mm	1
A-6611	lid for storage container A-6610.50	265 × 257 × 238 mm	1
M-6710	holding rack for implant and instrument cases, for case 240 × 240 mm	252 × 243 × 143 mm	1
M-6720	holding rack for implant and instrument cases, for case 240 × 240 mm	252 × 243 × 245 mm	1



CCS-01010001_v1/© 2020-06, Medartis AG, Switzerland. All technical data subject to alteration.

MANUFACTURER & HEADQUARTERS

Medartis AG | Hochbergerstrasse 60E | 4057 Basel/Switzerland

P +41 61 633 34 34 | F +41 61 633 34 00 | www.medartis.com

SUBSIDIARIES

Australia | Austria | Brazil | France | Germany | Japan | Mexico | New Zealand | Poland | UK | USA

For detailed information regarding our subsidiaries and distributors, please visit www.medartis.com



Disclaimer: This information is intended to demonstrate the Medartis portfolio of medical devices. A surgeon must always rely on her or his own professional clinical judgement when deciding whether to use a particular product when treating a particular patient. Medartis is not giving any medical advice. The devices may not be available in all countries due to registration and/or medical practices. For further questions, please contact your Medartis representative (www.medartis.com). This information contains CE-marked products.
For US only: Federal law restricts this device to sale by or on the order of a physician.