



Surgical Technique

HERBERT SCREW (HEX HEAD), 3.0/3.9mm Cannulated Compression Screw

about us

Auxein Medical is an integrated, research based, orthopaedic Implants & instruments manufacturing company, producing a wide range of quality, affordable generic implants, trusted by healthcare professionals and patients across geographies. It is the Company's constant endeavor to provide a wide basket of generic and our innovator products that exceed the highest expectations of customers in term of quality and safety. The company has world-class manufacturing unit established in india and serves customers in over 75 countries worldwide.

Our Achievements



Orthopaedic Implants

Specifically Designed for Problem Internal Fixation

The headless design of the Herbert Screw means that the screw is completely embedded in the bone, without any protrusions to cause tissue irritation even in intra-articular placement.

- Cannulation helps ensure precise placement of the screw.
- Herbert Cannulated Guide Pins hold the fragment and act as guides for drilling, tapping, and screw placement.
- The Titanium used in fabricating these screws is highly biocompatible and corrosion resistant.
- The thread design of the Herbert Screw creates compression and provides fracture stability. As the proximal threads engage the bone, the fracture is drawn together, helping to create and maintain stability of the fracture site.

INDICATIONS FOR USE

The Herbert Cannulated Compression Screw System (3.0mm and 3.9mm diameter) are indicated for fracture fixation, reconstruction, osteotomy, and arthrodesis of various bones and bone fragments including joint fusions (arthrodeses) in the foot and fixation of intra-articular fractures of the humerus, femur and tibia.

The Herbert Cannulated Compression Screw is designed for the management of fractures where minimal tissue coverage makes standard screw use inappropriate or where extreme precision in fragment alignment is imperative. Such locations might include fractures of the:

- Olecranon and malleolar region
- Distal femur
- Proximal tibia
- Distal tibia



1. GUIDE WIRE

After initial reduction of the fracture fragments is obtained, the specifically designed Herbert Cannulated Guide Pin is placed through the fragments to act as a Guide Wire through the Wire Sleeve $\text{Ø}2.1/1.1\text{mm}$ (**7-042-03**) that is in turn placed in Protection Sleeve $\text{Ø}2.2\text{mm}$ (**7-042-02**) for the rest of the placement operation. The Guide Pin should not perforate the opposite cortex.



2. DEPTH GAUGE

Use the Depth Gauge (**7-042-10**) to measure the length of the Guide Pin in the bone. If the Guide perforates the opposite cortex, corresponding compensation must be made when selecting the implant length.



3. CANNULATED DRILL BIT

Insert the Cannulated Drill Bit Stop, $\text{Ø}2.2\text{mm}$ x Length 150mm (**7-042-06**) over the Guide Pin to drill the cortex. The Drill Bit should be advanced until the built-in stop contacts the cortex of the bone.



4. CANNULATED DRILL BIT WITH STOPPER

Insert the Cannulated Drill Bit with Stopper, Ø2.2mm x Length 150mm (**7-042-07**) over the Guide Pin and drill to the desired depth. At this time the surgeon may choose to drill 5mm less than the pilot length.

Option: The Cannulated Drill Bit with Stopper, Ø2.2mm x Length 150mm (**7-042-07**) may be inserted into a Jacob's Chuck to the appropriate calibration, thus allowing the surgeon to utilize the Chuck as an automatic stop.



5. CANNULATED SCREWDRIVER

Insert the Cannulated Screwdriver, Hex 2.0mm (**7-042-11**) over the Guide Pin and tap the channel to prepare for the leading screw threads of the implant. Tap depth should be equal to the depth created by the cannulated Drill Bit with Stopper, Ø2.2mm x Length 150mm (**7-042-07**).



6. INSERT SCREW

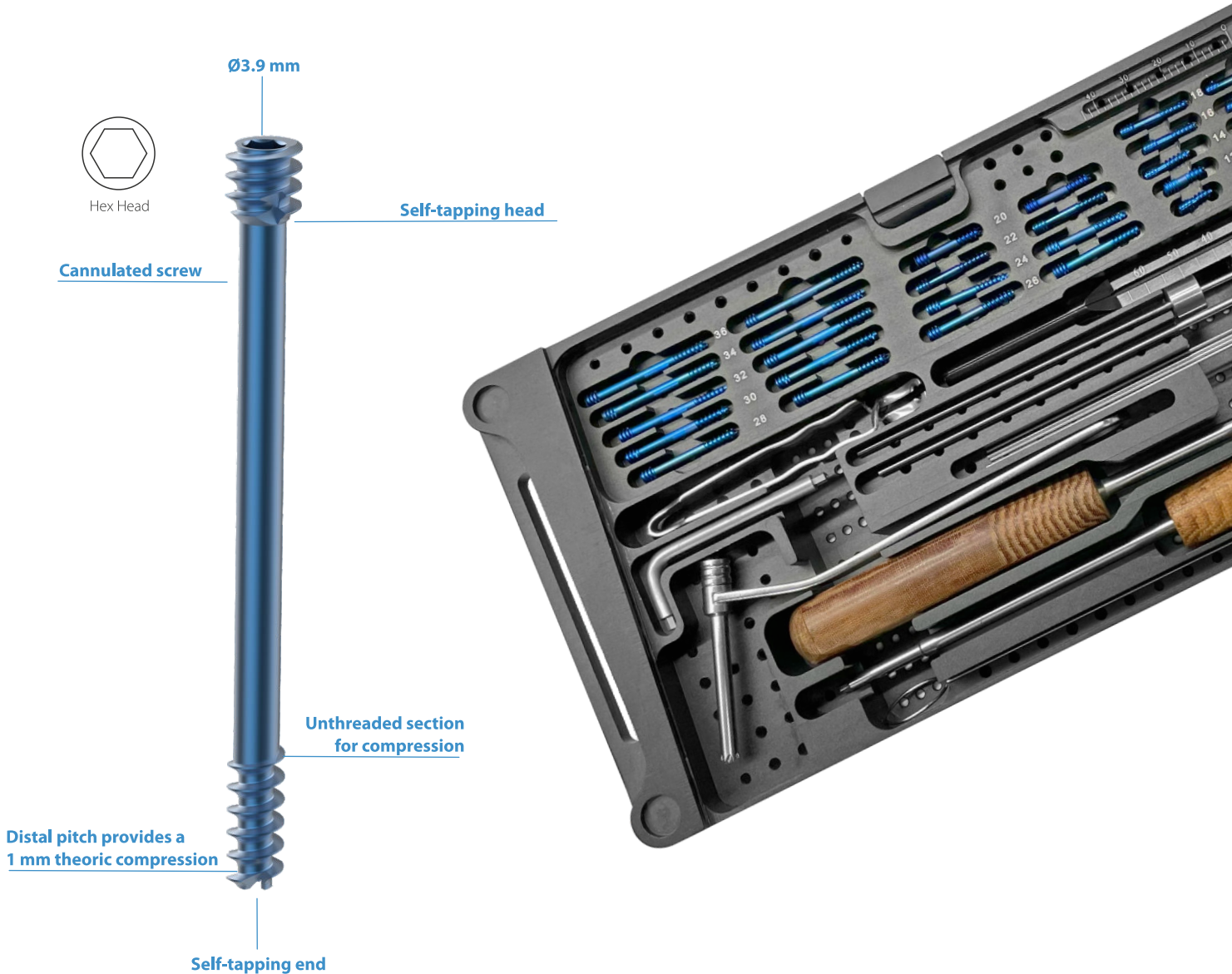
Using the Cannulated Screwdriver (**7-042-11**), insert the Herbert Cannulated Screw. As the trailing threads engage the bone, reduction is achieved. These trailing threads should be seated approximately 1mm below the cortex of the bone to ensure that there is no intra-articular protrusion or interference with the joint function.



DOUBLE THREADING FOR OPTIMAL COMPRESSION

Design Rationale and Main Features

The Compression Screw is easy to insert (over a guide wire) and provides efficient compression (through two separate threadings with different pitches, and an intermediate unthreaded section), thus ensuring quick, dependable internal fixation.



INDICATIONS

- Distal and proximal metatarsal osteotomies • SCARF osteotomy
- Uni and biocortical internal fixation (ex.: scaphoid) • Small bone fusion



**HERBERT SCREW (HEX HEAD),
3.0/3.9mm Cannulated Compression Screw**

Code	Length
TI-HC3.0/3.9.10	10mm, Titanium
TI-HC3.0/3.9.12	12mm, Titanium
TI-HC3.0/3.9.14	14mm, Titanium
TI-HC3.0/3.9.16	16mm, Titanium
TI-HC3.0/3.9.18	18mm, Titanium
TI-HC3.0/3.9.20	20mm, Titanium
TI-HC3.0/3.9.22	22mm, Titanium
TI-HC3.0/3.9.24	24mm, Titanium
TI-HC3.0/3.9.26	26mm, Titanium
TI-HC3.0/3.9.28	28mm, Titanium
TI-HC3.0/3.9.30	30mm, Titanium
TI-HC3.0/3.9.32	32mm, Titanium
TI-HC3.0/3.9.34	34mm, Titanium
TI-HC3.0/3.9.36	36mm, Titanium
TI-HC3.0/3.9.38	38mm, Titanium
TI-HC3.0/3.9.40	40mm, Titanium

7-042-01

Stylet Ø1.0mm

**7-042-02**

Protection Sleeve Ø2.2mm

**7-042-03**

Wire Sleeve Ø2.1/1.1mm

**7-042-04**

Guide Wire with Threaded Tip, Ø1.0mm x Thread Length 10mm x Length 120mm

**7-042-05**

Guide Wire, Ø1.1mm x Length 120mm

**7-042-06**

Cannulated Drill Bit Stop, Ø2.2mm x Length 150mm



Instrument

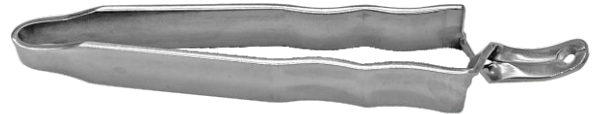
7-042-07 Cannulated Drill Bit with Stopper, Ø2.2mm x Length 150mm



7-042-08 Allen Key, Hex 2.5mm for Herbert Hex Screw



7-042-09 Screw Holding Forcep for Herbert Hex Screw



7-042-10 Measuring sleeve for Guide Wire upto 60mm



7-042-11 Cannulated Screwdriver, Hex 2.0mm



7-042-12 Screwdriver, Hex 2.0mm for Hebert Hex Screw



7-042 Herbert Hex Screw Implant & Instrument Set



Code	Set Consisting of	Units
7-042-01	Stylet Ø1.0mm	1
7-042-02	Protection Sleeve Ø2.2mm	1
7-042-03	Wire Sleeve Ø2.1/1.1mm	1
7-042-04	Guide Wire with Threaded Tip, Ø1.0mm x Thread Length 10mm x Length 120mm	3
7-042-05	Guide Wire, Ø1.1mm x Length 120mm	3
7-042-06	Cannulated Drill Bit Stop, Ø2.2mm x Length 150mm	1
7-042-07	Cannulated Drill Bit with Stopper, Ø2.2mm x Length 150mm	1
7-042-08	Allen Key, Hex 2.5mm for Herbert Hex Screw	1
7-042-09	Screw Holding Forcep for Herbert Hex Screw	1
7-042-10	Measuring sleeve for Guide Wire upto 60mm	1
7-042-11	Cannulated Screwdriver, Hex 2.0mm	1
7-042-12	Screwdriver, Hex 2.0mm for Hebert Hex Screw	1
7-042-13	Container for Herbert Hex Screw Implant & Instrument Set	1



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