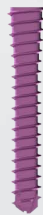


Cannulated Nonlocking Cortical & Headless & Herbert Screw Set

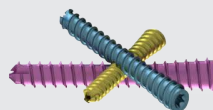
“Helping our animal
friends
one paw at a time”



*Cannulated Nonlocking
Cortical Screw*



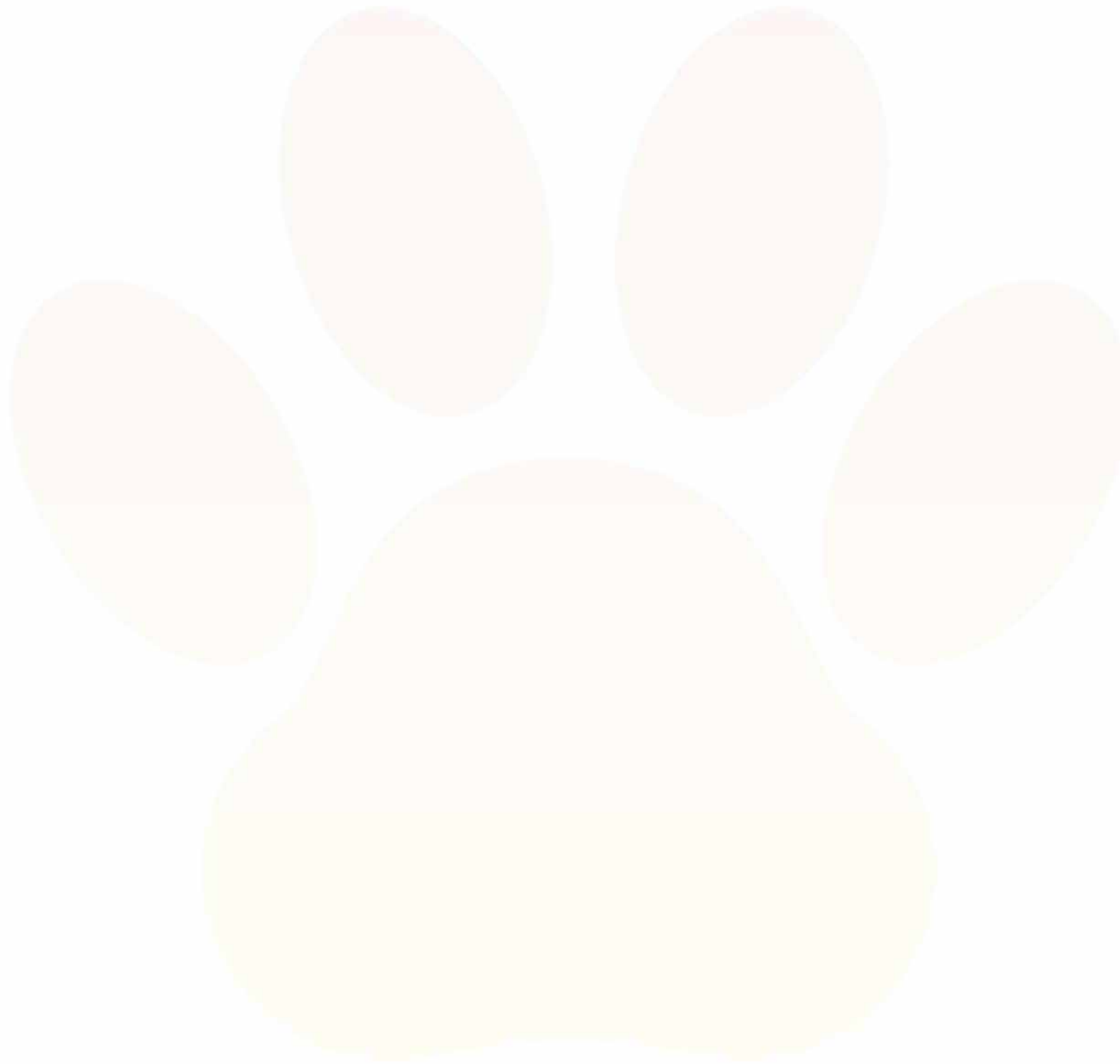
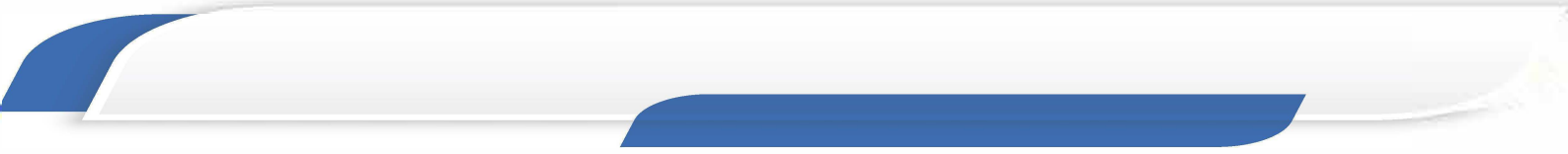
*Cannulated
Headless Screw*



*Cannulated
Herbert Screw*



Small Animal Veterinary
Surgical Technique



Introduction

Introduction

2.7 mm, 3.5 mm, 4.5 mm Cannulated Screws

The development of cannulated screw systems took into particular account the need for secure primary fixation of the bone fragments. The use of K-wires considerably simplifies the preliminary fixation of bone fragments and the accurate insertion of the screw. The outstanding features of the ABMVet Cannulated Screw System offer various advantages to the surgeon, resulting in a time-saving and safe operation.

For fractures and joint reconstructions cannulated screws can be used as minimal invasive osteosynthesis. Thereby isolated fractures may be treated with cannulated screws. For complex fractures cannulated screws can be used as additive osteosynthesis together with other implants such as nails, plates, external fixators.

Indications

2.7mm Cannulated Screw

Fixation of fractures with small fragments, e.g.:
Wrist fractures Metacarpal and metatarsal Fractures and fixation in Metacarpal and metatarsal Osteotomies Tarsal fractures Transcondylar humeral fractures.

3.5mm Cannulated Screw

Fixation of fractures with medium fragments, e.g.:
Malleolar fractures Pilon tibial fractures Fractures of the calcaneus and talus Tibial plateau fractures Carpal and tarsal arthrodeses

4.5 mm Cannulated Screw

Fixation of fractures with large fragments, e.g.:
Femoral neck fractures Intercondylar femoral fractures Epiphyseolysis of the femoral head Ankle arthrodeses Iliosacral dislocations

Implant Overview

CANNULATED COMPRESSION SCREW Ø 2,7 MM

CANNULATED COMPRESSION SCREW Ø 3,5 MM

CANNULATED COMPRESSION SCREW Ø 4,5 MM



Code	Size
MX3004032720	20 mm
MX3004032722	22 mm
MX3004032724	24 mm
MX3004032726	26 mm
MX3004032728	28 mm
MX3004032730	30 mm

Code	Size
MX3004033524	24 mm
MX3004033526	26 mm
MX3004033528	28 mm
MX3004033530	30 mm
MX3004033534	34 mm
MX3004033538	38 mm

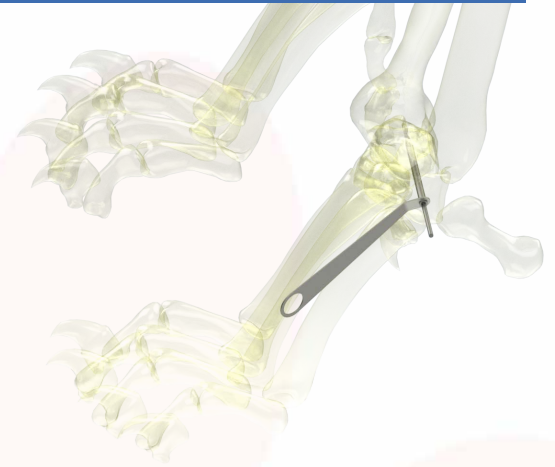
Code	Size
MX3004034525	25 mm
MX3004034530	30 mm
MX3004034535	35 mm
MX3004034540	40 mm
MX3004034545	45 mm
MX3004034550	50 mm

Reduce fracture and insert guide wire

After a stab incision, advance the drill sleeve or drill sleeve assembly through the soft tissues to the bone. Insert the guide wire through the drill sleeve to the desired depth and position

Option: Insert guide wires in parallel for cannulated screws 2.7/3.5/4.5 Slide the non-adjustable guide sleeve

- (1) of the parallel guide over the already inserted guide wire. Move the (adjustable) guide sleeve
- (2) to the desired position and tighten the nut.



Drilling

For self-tapping screws, the desired length must be predrilled with the cannulated drill bit. Predrilling the near cortex is also recommended for hard bones when using the self-drilling screws.

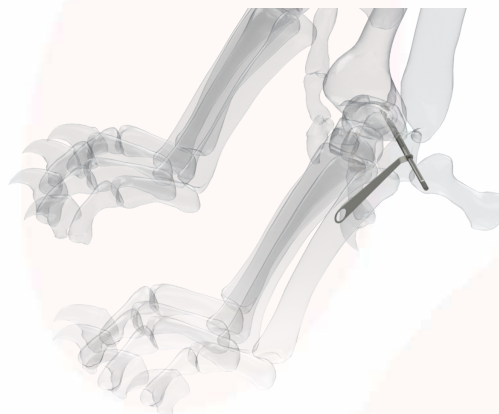


Tapping

Where necessary, tap the near cortex with the cannulated tap.

Countersinking

Where the bone is surrounded by only a thin layer of soft tissue, the screw head may be countersunk using the cannulated countersink to prevent projection of the screw head. Countersinking also facilitates screw insertion



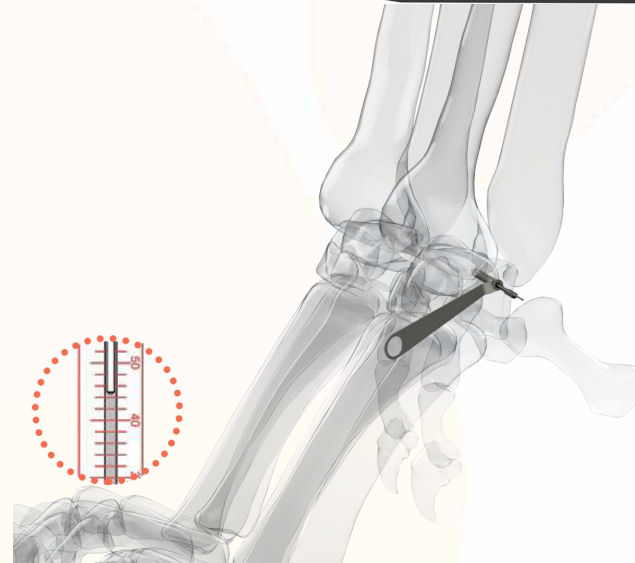
Determine screw length

Cannulated screw 3.5/4.0 Advance the direct measuring device for cannulated screws down to the cortical bone. Read off the appropriate screw length directly on the scale.



Cannulated screw 2.7/3.5/4.5

Insert the protection sleeve and slide the direct measuring device over the guide wire. Read off the appropriate screw length directly on the scale.



Insert screw



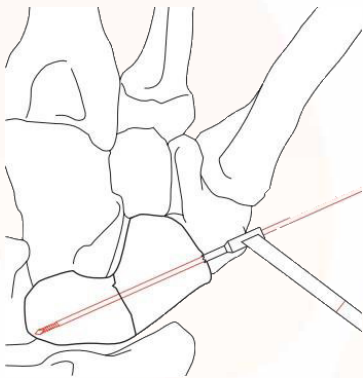
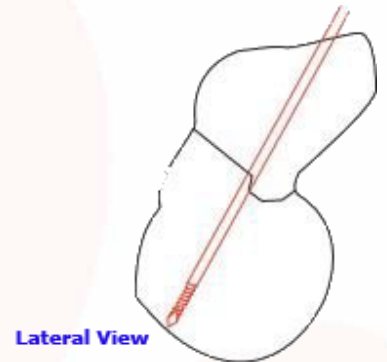
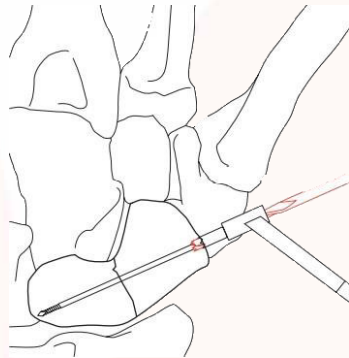
Insert the appropriate cannulated screw using the cannulated screwdriver and the holding sleeve.

Cannulated screw 2.7/3.5/4.5

Insert the appropriate cannulated screw through the protection sleeve using the hexagonal cannulated screw driver. Next, remove the protection sleeve.

1 Reduce fracture and insert guide wire

After the incision, temporarily reduce dislocated fragments with a Kirschner wire. Insert the Guide Wire 1.1 mm with Threaded Tip through the drill sleeve 1.1 of the Double Drill Sleeve 2.0/1.1 and advance it into the bone from distal/ lateral to proximal/medial until the threaded tip is anchored in the far cortex.

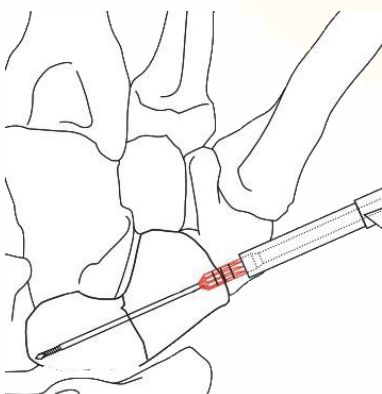
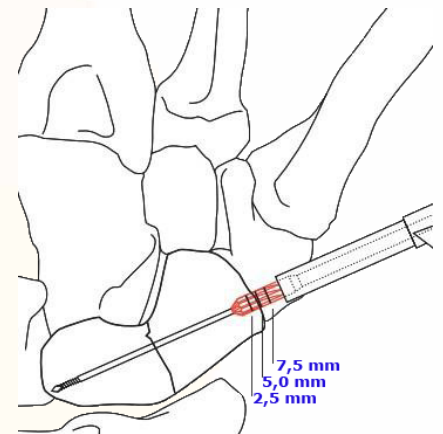


Predrilling

Predrilling can be advantageous in dense bone as it reduces torque during screw insertion. Slide the Double Drill Sleeve 2.0/1.1 with the Cannulated Drill Bit B 2.0 mm over the guide wire and drill through the near cortex. Slowly and carefully, while running the drill forward, withdraw the drill bit to ensure the guide wire stays in place.

Ream the seat of the support screw

Slide the Double Drill Sleeve 5.5/4.5 with the Cannulated Countersink over the guide wire and ream to a depth of 5 mm. The reaming depth is indicated on the scale of the countersink. The use of a drill is recommended, as reaming will be more precise than if performed manually.



Insert the support screw

Insert the support screw 3 to 4 mm under the bone surface using the cannulated hexagonal screwdriver (Cannulated Hexagonal Screwdriver Shaft and Handle). Thus, the head of the cannulated screw, buttressed by the support screw, will be fully countersunk.

Implant removal

Expose the screw head and remove the screws using the special screwdriver for the removal of cannulated screws.




Precaution

Do not use the cannulated screwdriver for implant removal.










NonLocking Cannulated Screw Instrument Set

2.7 Nonlocking Cannulated Screw Instrument Set

Ref. No.	Description	Qty.	Photo	Explanation
MTCC05	Cannulated Drill Bit Ø2.2mm	1		3.5 Headless and 2.7 Cannulated Screw
MTCC07	K-Wire Ø0.8x150 mm	3		2.5 Headless and 2.7 Cannulated Screw
MTSC11	T8 Cannulated Screw Driver	1		2,7 Cannulated Screw

3.5 Nonlocking Cannulated Screw Instrument Set

Ref. No.	Description	Qty.	Photo	Explanation
MTSC01	Cannulated Countersink Drill (SR3.0)	1		
MTSC02	Pin Guide & Cannulated Drill Guide (HB3.5)	1		
MTSC05	Guide Pin Measuring Gauge (Ø1.0)	1		
MTSC06	Cannulated Screw Driver (Hex / SW2.5)	1		
MTSC07	Cannulated Tap (HB3.5)	1		
MTSC08	Cannulated Drill Bit Ø2.5mm	4		
MTSC09	Screw Driver (Hex / SW2.5)	1		

NonLocking Cannulated Screw Instrument Set

4.5 Nonlocking Cannulated Screw Instrument Set

Ref. No.	Description	Qty.	Photo	Explanation
MTLC02	Pin Guide & Cannulated Drill Guide (HB4.5)	1		
MTLC06	Cannulated Tap (HB4.5)	1		
MTLC08	Cannulated Screw Driver (Hex / SW3.5)	1		
MTLC10	Screw Driver (Hex / SW3.5)	1		
MTLC07	Cannulated Drill Bit Ø3.2mm	1		

WASHER

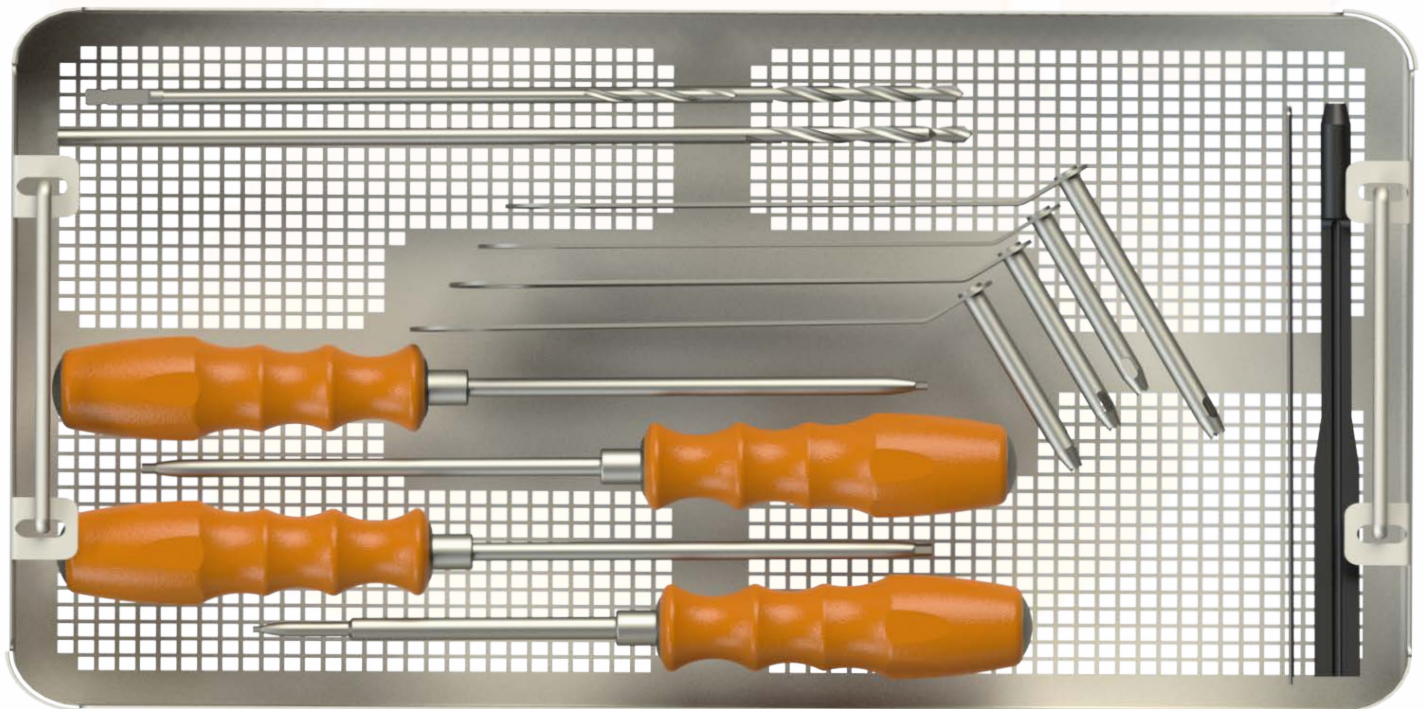


Code

Size

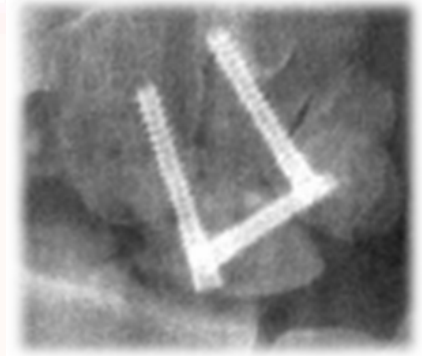
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MX4007000101

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Introduction

The Headless Cannulated Compression Screw is the next generation in fixation for fractures, fusions and osteotomies of the extremities. Long term surgeon feedback has helped us develop a superior implant with an innovative instrumentation set that both eases the surgical technique and increases instrumentation reliability.



When designing the Headless Cannulated Compression Screw, our goal was to provide more fixation options, including longer Headless Cannulated 2.5mm/ 3.5mm/4.0mm/5.0mm Compression Screw Modular instrument tray allows all Headless Cannulated screw families to be housed in one system for surgeon and hospital convenience.



Headless Cannulated screw's goal is to provide the surgeon with quality, reliable instrumentation that complements our innovative implant systems. The Headless Cannulated screw families feature stout guide wires that make provisional stabilization of the fixation site and accurate screw placement a successful step with each surgery.

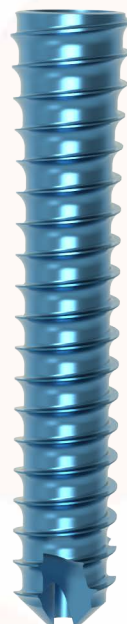


Headless Screw



HEADLESS
CANNULATED FULL
THREAD SCREW
● Ø 2,5 MM

Code	Size
MX3009032716	16 mm
MX3009032718	18 mm
MX3009032720	20 mm
MX3009032724	24 mm



HEADLESS
CANNULATED FULL
THREAD SCREW
● Ø 3,5 MM

Code	Size
MX3009033524	24 mm
MX3009033526	26 mm
MX3009033528	28 mm
MX3009033530	30 mm
MX3009033534	34 mm
MX3009033538	38 mm



HEADLESS
CANNULATED FULL
THREAD SCREW
● Ø 5,0 MM

Code	Size
MX3009035025	25 mm
MX3009035030	30 mm
MX3009035035	35 mm
MX3009035040	40 mm
MX3009035045	45 mm
MX3009035050	50 mm

Implant Overview

Herbert Screw

HERBERT SCREW Ø 2,5 M



Code

MX3009043016
MX3009043018
MX3009043020
MX3009043024

Size

16 mm
18 mm
20 mm
24 mm

HERBERT SCREW Ø 3,0 M



Code

MX3009045024
MX3009045026
MX3009045028
MX3009045030
MX3009045032

Size

24 mm
26 mm
28 mm
30 mm
32 mm

HERBERT SCREW Ø 5,0 M



Code

MX3009045026
MX3009045030
MX3009045034
MX3009045038
MX3009045040
MX3009045045

Size

26 mm
30 mm
34 mm
38 mm
40 mm
45 mm

Surgical Technique

After placing the guide wire and opening the near cortex with a profile drill, the self-drilling Headless Cannulated screw cuts its way into the bone when advanced with the hex driver. The quick release instrumentation is in a modular tray for convenient use in the O.R.

Fully Threaded Length: Biomechanical studies have shown that fully threaded screws better handle the cyclic loading that may occur during healing. In addition, this feature allows a fracture or osteotomy site to lie almost anywhere along the length of the screw.

Headless: Allows the titanium screws to be implanted in and around articular regions with minimal risk of impingement or soft tissue irritation.

Cannulated: Facilitates accurate percutaneous insertion with minimal soft tissue dissection.

Variable Thread Pitch: The wider thread pitch at the tip of the screw penetrates the bone faster than the finer trailing threads, compressing the two fragments gradually as the screw is advanced.

Self-Drilling: The cutting flutes on the distal tip of the screw allow the Headless Cannulated screw to be inserted with an advanced, straight forward surgical technique.




















Fixation of small bone fractures and joint fusions where a 3.5-4.0mm headed screw or an equivalent sized headless screw could be used.

The Headless Cannulated screw Standard screws are extremely versatile and may be used for a wide variety of indications, including scaphoid fractures and non-unions, capitellum fractures, navicular fractures, bunionectomies, 5th metatarsal fractures, carpal fusions and Metecarpal fusions. The Headless Cannulated screw Standard screws are inserted with a 2.5mm hex driver over a "1.0" guide wire.

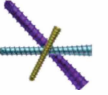
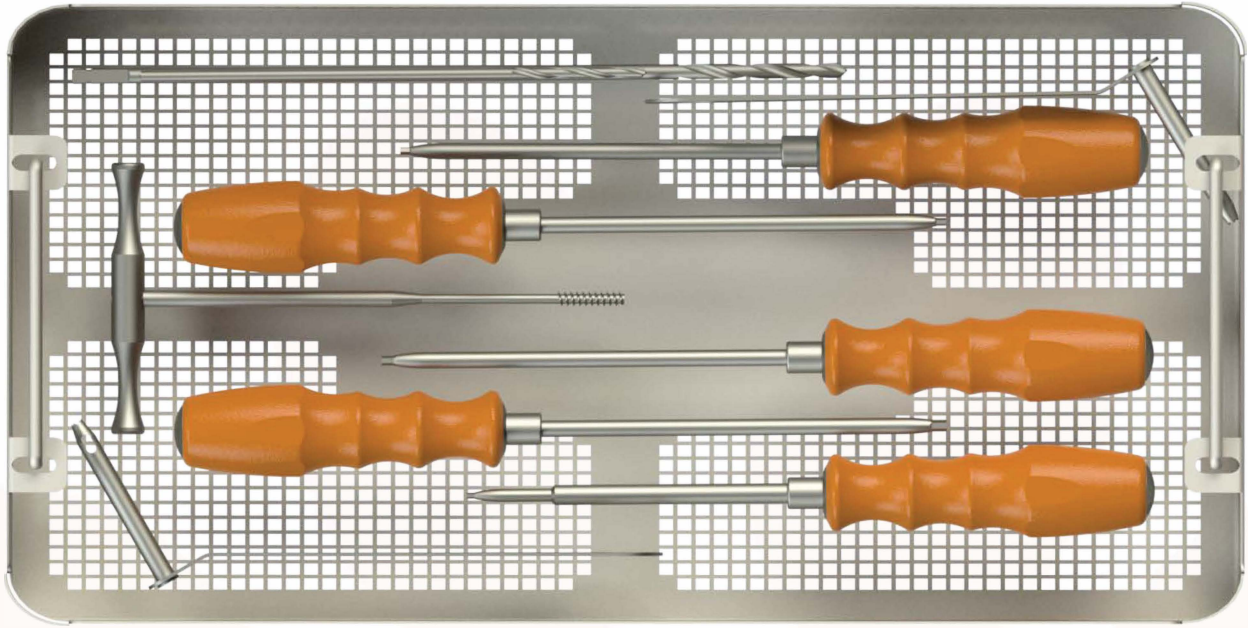
Fixation of small bone fractures and joint fusions where a 3.5-4.0mm headed screw or an equivalent sized headless screw could be used. The Headless Cannulated screws can be used for a wide variety of indications, including scaphoid fractures and non-unions, radial styloid fractures, radial head fractures, avulsion fractures, carpal fusions, MCP fusions, OCD repair and phalangeal fractures. The Headless Cannulated screws are inserted with a 2.0mm hex over a .08" guide wire and are now provided in lengths up to 30mm.

Headless Screw Instrument Set

Headless Screw Instrument Set













Ref. No.	Description	Qty.	Photo	Explanation
MTCC01	Guide Pin Measuring Gauge Ø2.5	1		
MTCC11	Drill Sleeve Ø2.0mm	1		2.5 Headless Screw
MTCC13	Drill Sleeve Ø2.7mm	1		3.5 Headless and 2.7 Cannulated Screw
MTCC14	Drill Sleeve Ø3.5mm	1		4.0 Headless Screw
MTCC15	Drill Sleeve Ø4.6mm	1		5.0 Headless Screw
MTCC16	Cannulated Screwdriver Sw1.5mm	1		2.5 Headless Screw
MTCC17	Cannulated Screwdriver Sw2.0mm	1		3.5 Headless Screw
MTCC18	Cannulated Screwdriver Sw2.5mm	1		4.0 Headless Screw
MTCC20	Cannulated Screwdriver Sw3.5mm	1		5.0 Headless Screw
MTCC06	Cannulated Drill Bit Ø2.0mm	1		2.5 Headless Screw
MTCC05	Cannulated Drill Bit Ø2.2mm	1		3.5 Headless and 2.7 Cannulated Screw
MTCC04	Cannulated Drill Bit Ø2.7mm	4		4.0 Headless Screw
MTCC02	Cannulated Drill Bit Ø4.6mm	5		5.0 Headless Screw
MTCC10	K-Wire Ø2.0x250 mm	3		5.0 Headless Screw
MTCC09	K-Wire Ø1.5x150 mm	3		4.0 Headless Screw
MTCC08	K-Wire Ø1.0x150 mm	3		3.5 Headless Screw
MTCC07	K-Wire Ø0.8x150 mm	3		2.5 Headless and 2.7 Cannulated Screw

Headless Screw Instrument Set

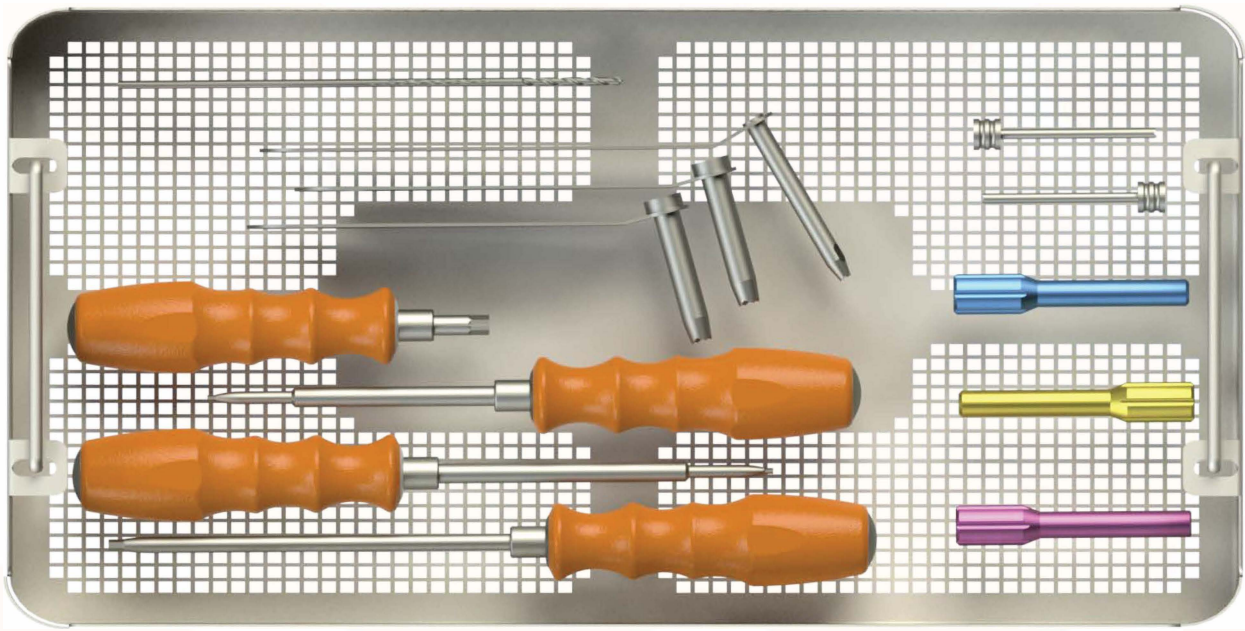


Herbert Screw Instrument Set

Herbert Screw Instrument Set

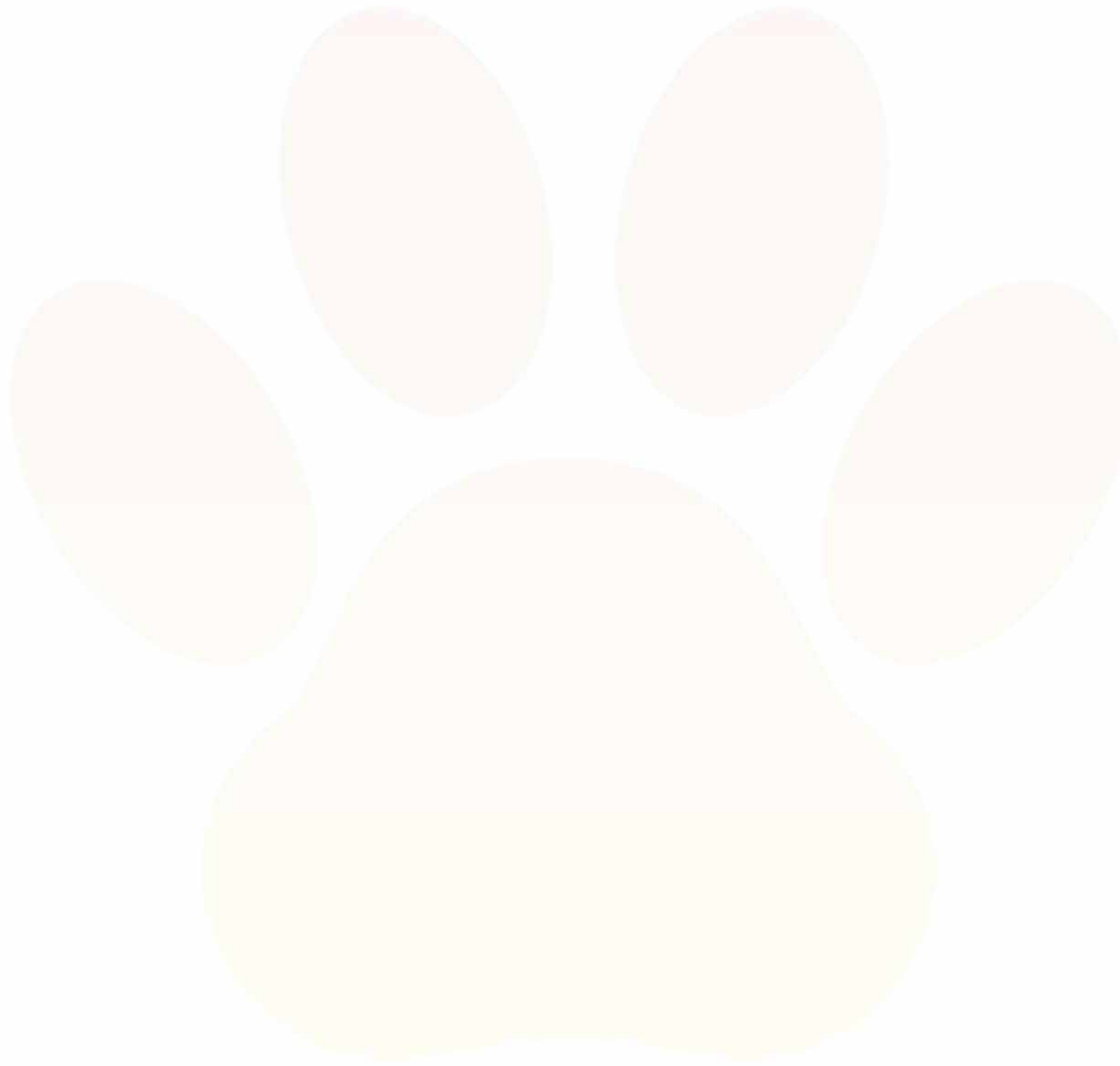
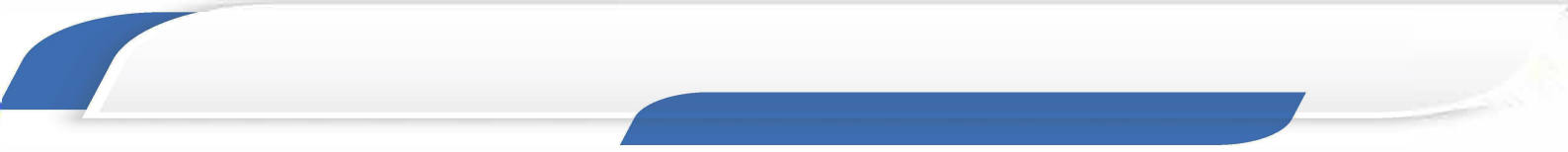
Ref. No.	Description	Qty.	Photo	Explanation
MTHS02	Drill Guide Ø2.0mm	1		2,5 Herbert Screw
MTHS03	Drill Guide Ø2.5mm	1		3,0 Herbert Screw
MTHS04	Drill Guide Ø3.2mm	1		5.0 Herbert Screw
MTHS05	Kirschner Guide Ø1.0mm	1		
MTHS07	Kirschner Guide Ø1.5mm	1		
MTHS16	T6 Cannulated Screw Driver	1		2,5 Herbert Screw
MTHS17	T8 Cannulated Screw Driver	1		3,0 Herbert Screw
MTHS18	T15 Cannulated Screw Driver	1		5.0 Herbert Screw
MTHS19	Compression Guide	1		
MTHS20	Compression Guide Ø2.5	1		2,5 Herbert Screw
MTHS21	Compression Guide Ø3.0	1		3,0 Herbert Screw
MTHS23	Compression Guide Ø5.0	1		5.0 Herbert Screw

Herbert Screw Instrument Set



Cannulated CHH Screw Set





Who We Are

We have nearly 40 years of combined experience in machining, and insight for the production of our medical products to treat a variety of injuries and conditions in medical sector.

We fulfill the requirements of ISO 13485 and manufacturing of medical implants (Veterinary, and Spine&Trauma Solutions).

Our Goal

Our main goal is to do our best to satisfy every customer who benefits of our products and services. We aim to do that by providing them timely, useful, and the best solutions.



Contact Us

Our team of professional veterinary experts are eagerly awaiting to offer you the assistance you need for all of your companions requirements.



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