CANNULATED/HCC
SCREW SYSTEMS

SURGICAL TECHNIQUE

TDMUSA

1
SCREW SELECTION

Select the appropriately sized screw for the application.

2
GUIDE WIRE PLACEMENT

Insert a **Guide Wire** through the **Drill Sleeve**. Check positioning radiographically. If inserting multiple screws, the initial Guide Wire can be used to help orient the remaining Guide Wires. In the 5.0mm and 6.5mm sizes, **Drill Guides** are provided to help with parallel insertion of the Guide Wires.

3
DRILL & TAP

Pre-drill and tap if necessary. All TDM USA cannulated screws are self-drilling and self-tapping. In very hard bone, it may help to pre-drill and tap to ease insertion. Headless Screw sets include an additional Drill Bit for the near cortex, if needed.

4
COUNTERSINK

When using a headed screw in areas with minimal soft tissue coverage, countersink as needed. Slide the **Countersink** over the wire until it engages the bone. Maintain forward pressure and rotate the handle back and forth to countersink the near cortex.

5
MEASURE

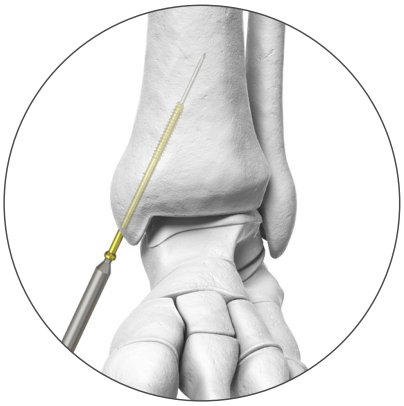
Measure off the back of the **Guide Wire** using the **Cannulated Depth Gauge**. In the 4.0 - 6.5mm Cannulated Screw sets, a combined **Countersink with Depth Gauge** is provided. If using a washer, the screw may need to be 1-2mm longer than this measurement to reach the expected depth.

6

SCREW INSERTION

Insert the appropriate screw using the **Cannulated Screwdriver** or the **Cannulated Screwdriver Shaft** attached to power with the **Cannulated Chuck**. If using a washer, slide it over the screw threads to the underside of the head before insertion.

When inserting Headless Compression Screws, maintain gross compression across the fracture or joint during insertion. The screw will drive any remaining compression once the near threads make contact with the near cortex.



IMPLANT REMOVAL (IF NECESSARY)

Expose the screw head and remove the screw using the appropriate solid screwdriver.

If it is difficult to engage the head of the screw with the screwdriver, a Guide Wire can be inserted in the screw cannulation to guide a cannulated screwdriver to the head. Leave the Guide Wire in the cannulation during removal.

Indications

Cannulated Screw System:
The Cannulated Screw System is intended to be used for fracture of small bones of the hand or foot (2.5mm) or small and large bones (4.0mm larger).

Headless Compression Cannulated Screw System:
The Headless Compression Cannulated Screw System is intended to be used for a wide range of different indications in the hand, wrist and joint fusion (arthrodeses) in the foot (2.3mm & 3.5mm, 3.0mm & 4.0mm) and fixation of intraarticular fractures of the humerus, femur, and tibia (3.5mm & 5.0mm).

Contraindications

- Do not use for surgeries other than those indicated.
- In case of material sensitivity, documented or suspected, appropriate tests should be performed for material suitability prior to implantation.
- Severe osteoporosis, compromised bone stock, insufficient or immature bone may not be suitable for use of this device.
- Any active or suspected latent infection, sepsis or marked local inflammation in or around the surgical area.
- Physical interference with other implants during implantation or use.
- Compromised vascularity, inadequate skin or neurovascular status.
- Patients who are unwilling or incapable of following post-operative care instructions.

Please refer to package insert for additional usage information.

CANNULATED/HCC SCREW SYSTEMS
INSTRUMENT OVERVIEW & TRAY LAYOUT

2.3mm Headless Compression Cannulated Screws			
Guide Wire	1.0 x 130mm	904-30001	
Guide Wire Sleeve	1.0mm	904-30202	
Cannulated Drill Bit	1.7 x 90mm	904-30108	
Cannulated Drill Bit	2.6 x 103mm	904-40203	
Cannulated Depth Gauge	1.0mm	904-30003	
Cannulated Screwdriver	2.0mm Hex	904-31207	
Small Cannulated Chuck, AO QC		904-40012	
Cannulated Screwdriver Shaft, AO QC	2.0mm Hex	904-30107	
Screwdriver Shaft, AO QC	2.0mm Hex	904-30009	
Forceps		901-08001	
3.0mm Headless Compression Cannulated Screws			
Guide Wire	1.0 x 130mm	904-30001	
Guide Wire Sleeve	1.0mm	904-30202	
Cannulated Drill Bit	1.7 x 90mm	904-30108	
Cannulated Drill Bit	3.2 x 138mm	904-45032	
Cannulated Depth Gauge	1.0mm	904-30003	
Cannulated Screwdriver	2.0mm Hex	904-31207	
Small Cannulated Chuck, AO QC		904-40012	
Cannulated Screwdriver Shaft, AO QC	2.0mm Hex	904-30107	
Screwdriver Shaft, AO QC	2.0mm Hex	904-30009	
Forceps		901-08001	

CANNULATED/HCC SCREW SYSTEMS
INSTRUMENT OVERVIEW & TRAY LAYOUT

3.5mm Headless Compression Cannulated Screws			
Guide Wire	1.5 x 147mm	904-40001	
Guide Wire Sleeve	1.5mm	904-40202	
Cannulated Drill Bit	2.6 x 103mm	904-40203	
Cannulated Drill Bit	3.6 x 138mm	904-50103	
Cannulated Depth Gauge	1.5mm	904-40106	
Cannulated Screwdriver	2.5mm Hex	904-41107	
Small Cannulated Chuck, AO QC		904-40012	
Cannulated Screwdriver Shaft, AO QC	2.5mm Hex	904-41007	
Screwdriver Shaft, AO QC	2.5mm Hex	904-15425	
Forceps		901-08001	

2.3mm Headless Compression Cannulated Screw Tray

3.0mm Headless Compression Cannulated Screw Tray

3.5mm Headless Compression Cannulated Screw Tray

Refer to Instructions for Use for additional information.

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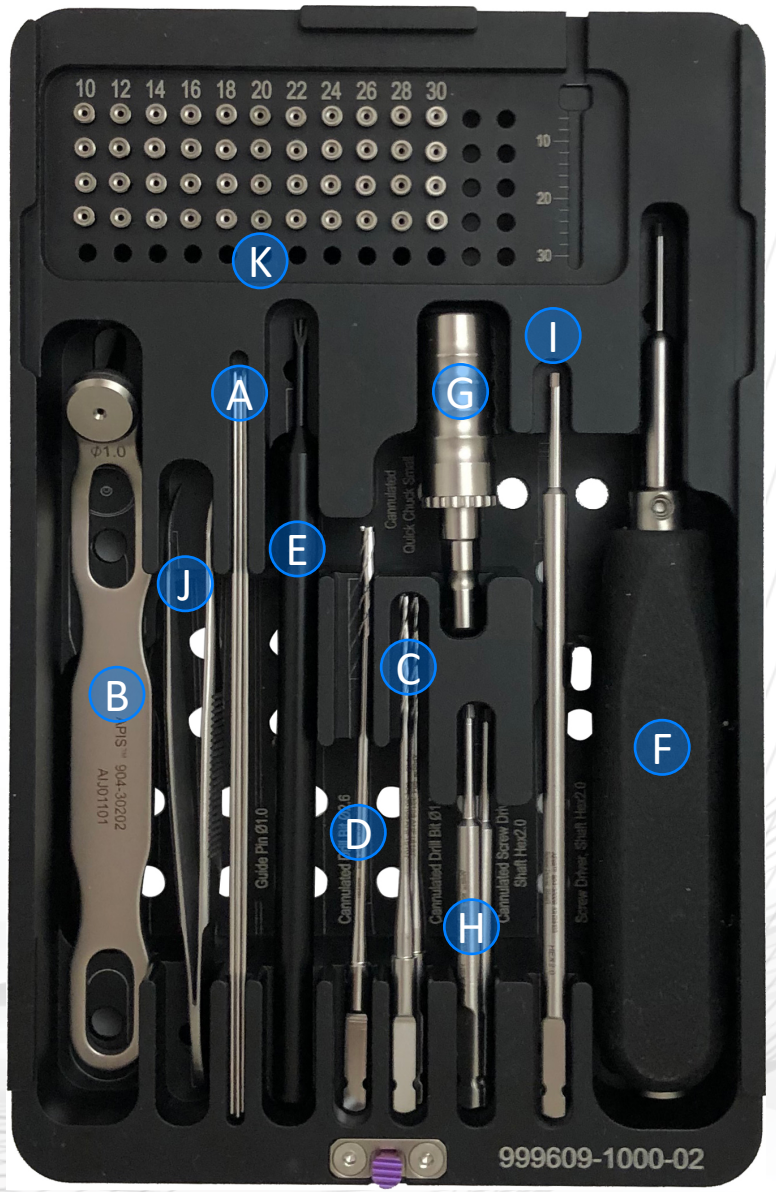
TDMUSA

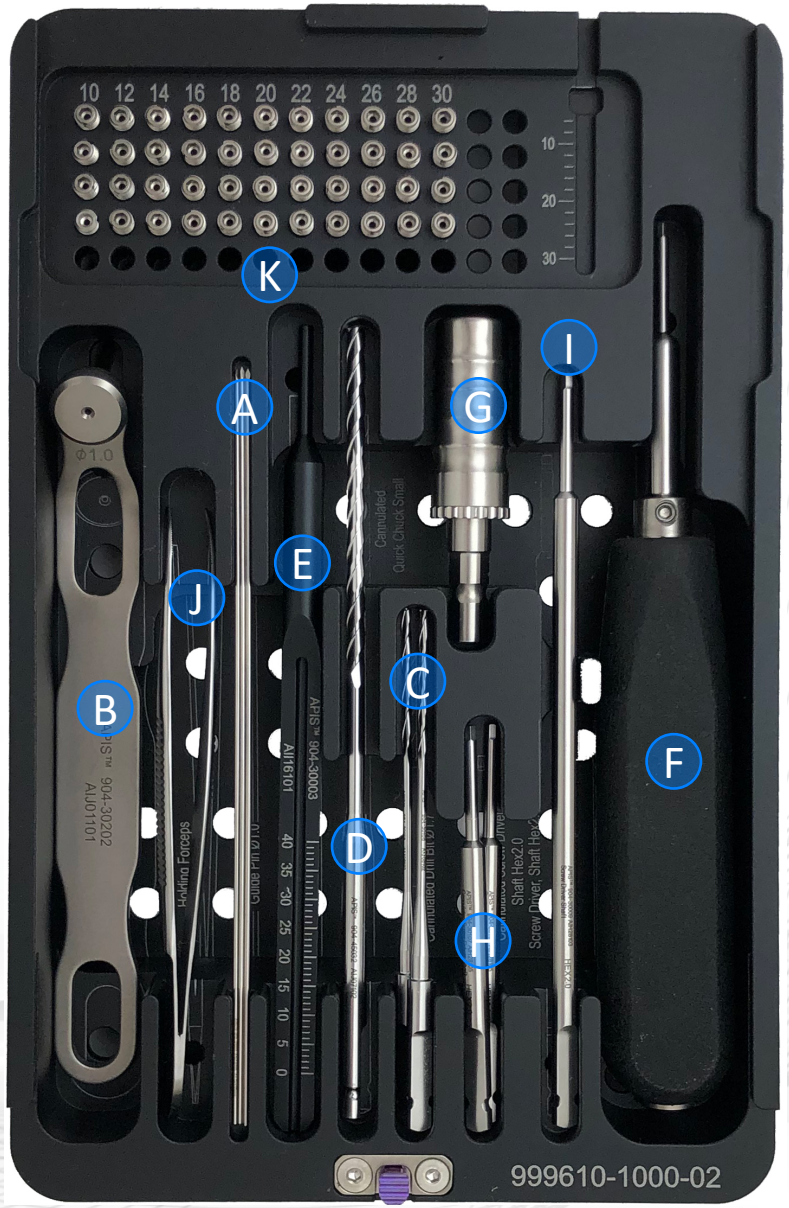
2.3mm Headless Compression Screw Set

	Instrument	QTY	Part #
A	Guide Wire 1.0mm x 130mm	5	904-30001
B	Guide Wire Sleeve, 1.0mm	1	904-30202
C	Cannulated Drill Bit 1.7mm x 90mm	2	904-30108
D	Cannulated Drill Bit 2.6mm x 103mm	1	904-40203
E	Cannulated Depth Gauge	1	904-30003
F	2.0mm Hex Cannulated Screwdriver	1	904-31207
G	Small Cannulated Chuck, AO QC	1	904-40012
H	2.0mm Hex Cannulated Screwdriver Shaft, AO QC	2	904-30107
I	2.0mm Hex Screwdriver Shaft, AO QC	1	904-30009
J	Forceps	1	901-08001
K	2.3mm Headless Compression Screws 10-30mm x 2mm increments	4 ea.	723-200xx



3.0mm Headless Compression Screw Set

	Instrument	QTY	Part #
A	Guide Wire 1.0mm x 130mm	5	904-30001
B	Guide Wire Sleeve, 1.0mm	1	904-30202
C	Cannulated Drill Bit 1.7mm x 90mm	2	904-30108
D	Cannulated Drill Bit 3.2mm x 103mm	1	904-45032
E	Cannulated Depth Gauge	1	904-30003
F	2.0mm Hex Cannulated Screwdriver	1	904-31207
G	Small Cannulated Chuck, AO QC	1	904-40012
H	2.0mm Hex Cannulated Screwdriver Shaft, AO QC	2	904-30107
I	2.0mm Hex Screwdriver Shaft, AO QC	1	904-30009
J	Forceps	1	901-08001
K	2.3mm Headless Compression Screws 10-30mm x 2mm increments	4 ea.	730-200xx



3.5mm Headless Compression Screw Set

	Instrument	QTY	Part #
A	Guide Wire 1.5mm x 147mm	5	904-40001
B	Guide Wire Sleeve, 1.5mm	1	904-40202
C	Cannulated Drill Bit 2.6mm x 103mm	2	904-40203
D	Cannulated Drill Bit 3.6mm x 138mm	1	904-50103
E	Cannulated Depth Gauge	1	904-40106
F	2.5mm Hex Cannulated Screwdriver	1	904-41107
G	Small Cannulated Chuck, AO QC	1	904-40012
H	2.5mm Hex Cannulated Screwdriver Shaft, AO QC	2	904-41007
I	2.5mm Hex Screwdriver Shaft, AO QC	1	904-15425
J	Forceps	1	901-08001
K	3.5mm Headless Compression Screws 16-40mm x 2mm increments	4 ea.	735-200xx