

7.0mm
Cannulated Screw



Short Thread 16mm



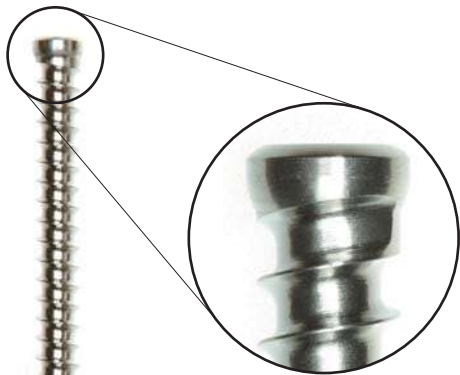
Medium Thread 32mm



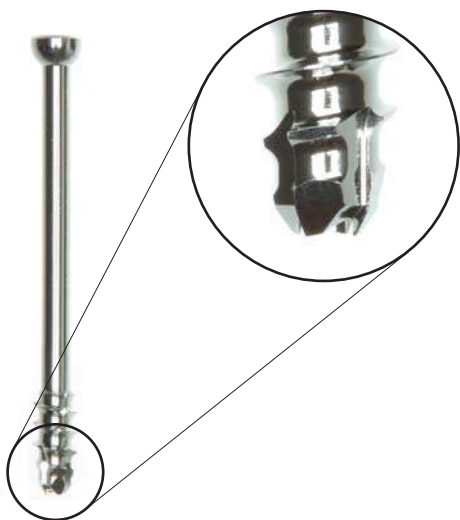
Full Thread



7.0mm Cannulated Screw Features & Benefits



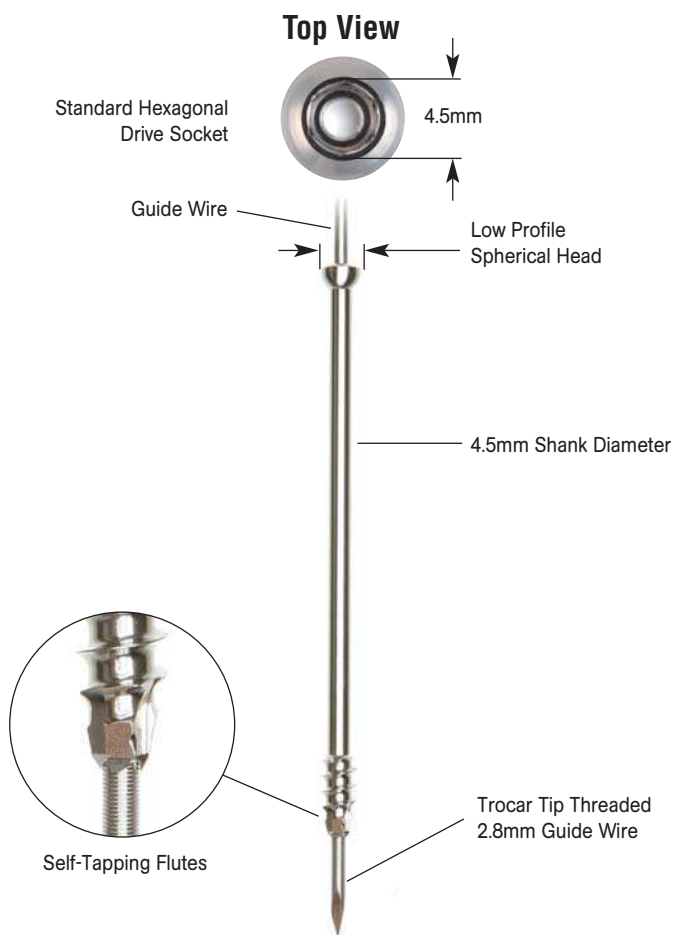
- Thread on the full screws extends into the head profile.
 - Greater gripping ability, especially with osteoporotic bone, allowing for easy removal
- Low-profile head reduces possibility of soft tissue irritation.
- Hemispherical head ensures optimal annular contact with washers or plates when screws are angled.
- Cancellous thread profile uses deep cutting threads with a large pitch to increase resistance to pullout.
 - Large pitch also accelerates screw insertion and removal
- Self-tapping screw tip facilitates screw insertion.
 - Reduces the need for pre-drilling and tapping
- Reverse cutting flutes for easy removal.



Screw Lengths 16mm Thread
30mm – 120mm (5mm increments)

Screw Lengths 32mm Thread
50mm – 120mm (5mm increments)

Screw Lengths Full Thread
30mm – 120mm (5mm increments)



Percutaneous Pinning of Slipped Capital Femoral Epiphysis (SCFE)

Slipped capital femoral epiphysis (SCFE), the most common hip disorder in adolescents, is defined as displacement of the proximal femoral epiphysis relative to the metaphysis. Displacement of the epiphysis is almost always posterior and inferior to the metaphysis. SCFE is categorized in terms of degree of slip as well as stable or unstable. Stability is defined clinically by an inability to bear weight. The goals of treatment include preventing further displacement and maintaining optimal hip function. In situ screw epiphysiodesis is the recommended treatment of stable SCFE and the treatment of choice for unstable SCFE.



Preoperative X-ray



Post-operative X-ray

Surgical Technique

Place Guide Wire

Utilizing a power drill, insert the 2.8 guide wire (01-1071-012) through the 2.8mm drill guide (01-1071-018) stopping at the desired depth or location. After checking the placement of the guide wire with the image intensifier, remove the drill and prepare for the next step. (Figure 1)

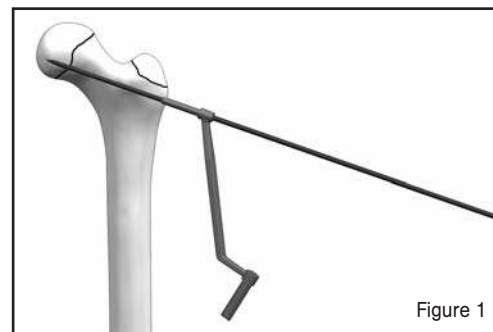


Figure 1

Countersink (optional)

If countersinking the screw is desired, use the provided cannulated countersink (01-1071-015) over the top of the wire to create the necessary space needed to countersink the screw head. (Figure 2)



Figure 2

Measure Length

Place the provided measuring device (01-1071-017) over the guide wire until the tapered end contacts the near cortex. (Figure 3)

*NOTE: The measuring device is designed to place the screw 5mm from the tip of the threaded guide wire.



Figure 3

Drill

Using the 4.5mm cannulated drill (01-1071-013), drill over the guide wire to the desired depth. In soft bone, it may not be necessary to drill for the entire length of the screw. (Figure 4)

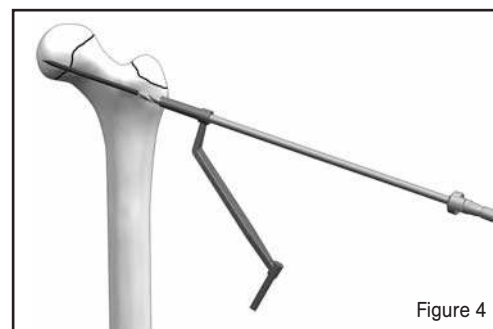
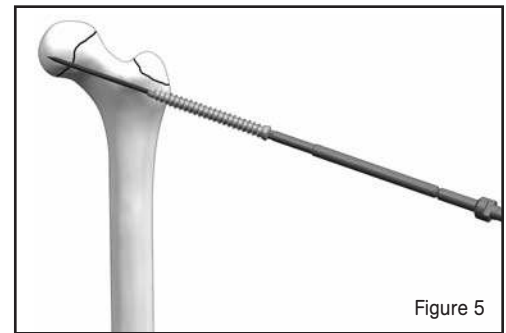


Figure 4

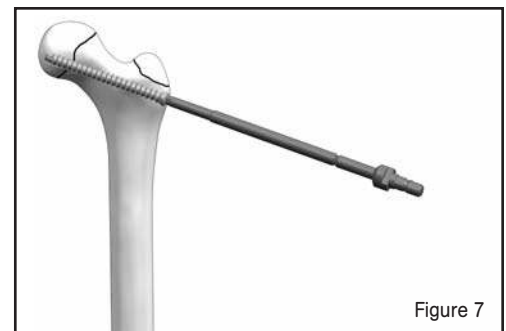
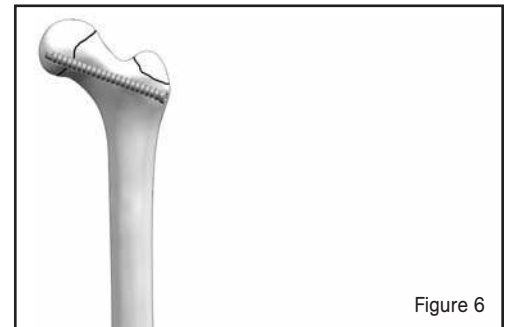
Insert Screw

After determining the correct screw length, select the screw type (fully or partially threaded). Insert the screw over the top of the guide wire using the provided cannulated screwdriver shaft (01-1071-006) in conjunction with either the power or the ratcheted screw driver handle. (Figure 5 & 6)



Screw Removal

Screw removal should be performed with the non-cannulated hex driver (01-1071-007). If damage has occurred to the screw and it becomes difficult to remove, a screw extractor (01-1071-020) should be used in place of the hex driver. The extractor is inserted into the cannulation of the screw and turned counterclockwise for removal. (Figure 7 & 8)

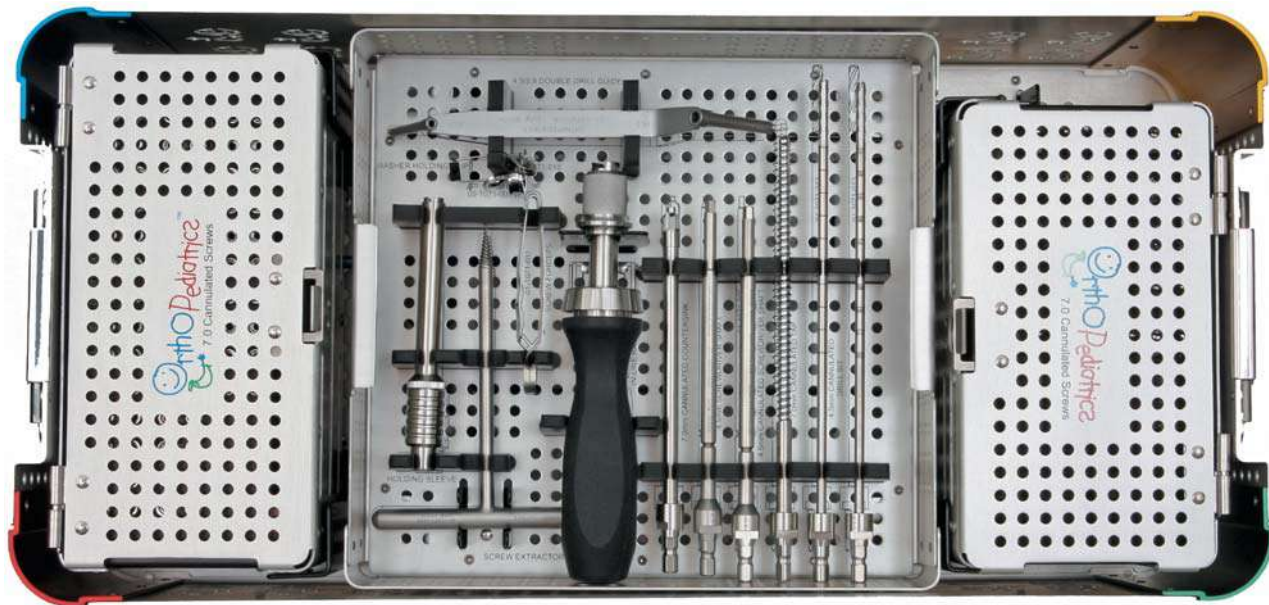
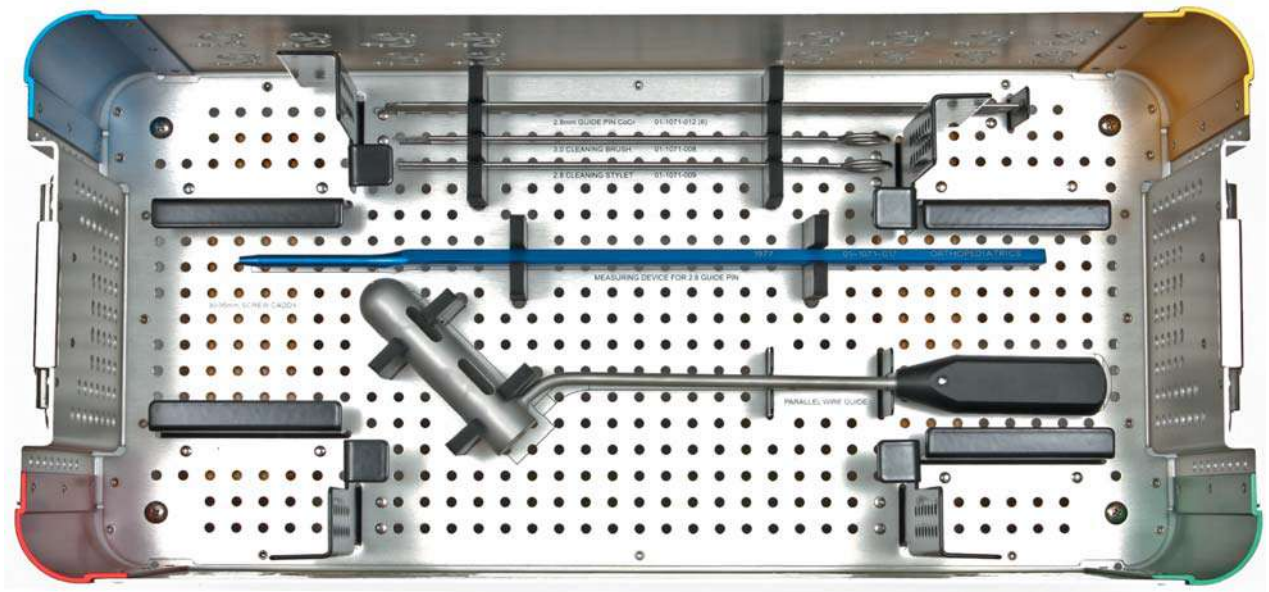


Cleaning Tips

It is imperative to clean the cannulation in each instrument for the instrument to function properly. To prevent accumulation of debris in the cannulation and potential binding of the instruments about the guide wire the instrument should be cleared intraoperatively with the 2.8mm cleaning stylet (01-1071-009). Postoperatively, instruments should be cleaned with both the 2.8mm cleaning brush (01-1071-008) and the stylet.



Complete 7.0mm Cannulated Screw Case



7.0mm Cannulated Screw Set Contents



Stainless Steel 16mm Thread

Catalog Number	Screw Length
00-1071-3030	30mm
00-1071-3035	35mm
00-1071-3040	40mm
00-1071-3045	45mm
00-1071-3050	50mm
00-1071-3055	55mm
00-1071-3060	60mm
00-1071-3065	65mm
00-1071-3070	70mm
00-1071-3075	75mm
00-1071-3080	80mm
00-1071-3085	85mm
00-1071-3090	90mm
00-1071-3095	95mm
00-1071-3100	100mm
00-1071-3105	105mm
00-1071-3110	110mm
00-1071-3115	115mm
00-1071-3120	120mm



Stainless Steel 32mm Thread

Catalog Number	Screw Length
00-1071-2050	50mm
00-1071-2055	55mm
00-1071-2060	60mm
00-1071-2065	65mm
00-1071-2070	70mm
00-1071-2075	75mm
00-1071-2080	80mm
00-1071-2085	85mm
00-1071-2090	90mm
00-1071-2095	95mm
00-1071-2100	100mm
00-1071-2105	105mm
00-1071-2110	110mm
00-1071-2115	115mm
00-1071-2120	120mm



Stainless Steel Full Thread

Catalog Number	Screw Length
00-1071-1030	30mm
00-1071-1035	35mm
00-1071-1040	40mm
00-1071-1045	45mm
00-1071-1050	50mm
00-1071-1055	55mm
00-1071-1060	60mm
00-1071-1065	65mm
00-1071-1070	70mm
00-1071-1075	75mm
00-1071-1080	80mm
00-1071-1085	85mm
00-1071-1090	90mm
00-1071-1095	95mm
00-1071-1100	100mm
00-1071-1105	105mm
00-1071-1110	110mm
00-1071-1115	115mm
00-1071-1120	120mm

Instruments	Catalog Number
Zimmer In-line ratchet	01-1071-005
4.5mm Cannulated Screwdriver Shaft	01-1071-006
4.5mm Screwdriver Shaft	01-1071-007
Holding Clip	01-1071-010
Large Self Holding Screw Forceps	01-1071-011
2.8 mm x 300mm guide pin CoCr	01-1071-012
4.5mm Cannulated Drill bit	01-1071-013
7.0mm Cannulated Tap	01-1071-014
Cannulated Countersink 7.0mm	01-1071-015
Holding Sleeve (large)	01-1071-016
Measuring Device for 7.0mm Screws	01-1071-017
Double Drill Guide 4.5mm/ 2.8mm	01-1071-018
Parallel Wire Guide, 3 Hole	01-1071-019
Screw Extractor	01-1071-020

Implant	Catalog Number
13mm Stainless Steel Washer	00-1071-000



Case Descriptions	Catalog Number
Case Bottom	01-1071-130
Case Lid	01-1071-131
Case Tray	01-1071-132
7.0 Short Screw Caddy	01-1071-133
7.0 Long Screw Caddy	01-1071-134

CAUTION: Federal law restricts this device to sale by or on the order of a Physician.

CAUTION: Devices are supplied Non-Sterile. Clean and sterilize before use according to instructions.

CAUTION: Implant components are single-use.
Do not reuse.

CAUTION: This device is not approved for screw attachment or fixation to the posterior elements (pedicles) of the cervical, thoracic or lumbar spine.

NOTE: *This technique has been provided by one of our medical advisors only as guidance and it is not intended to limit the methods used by trained and experienced surgeons.*

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