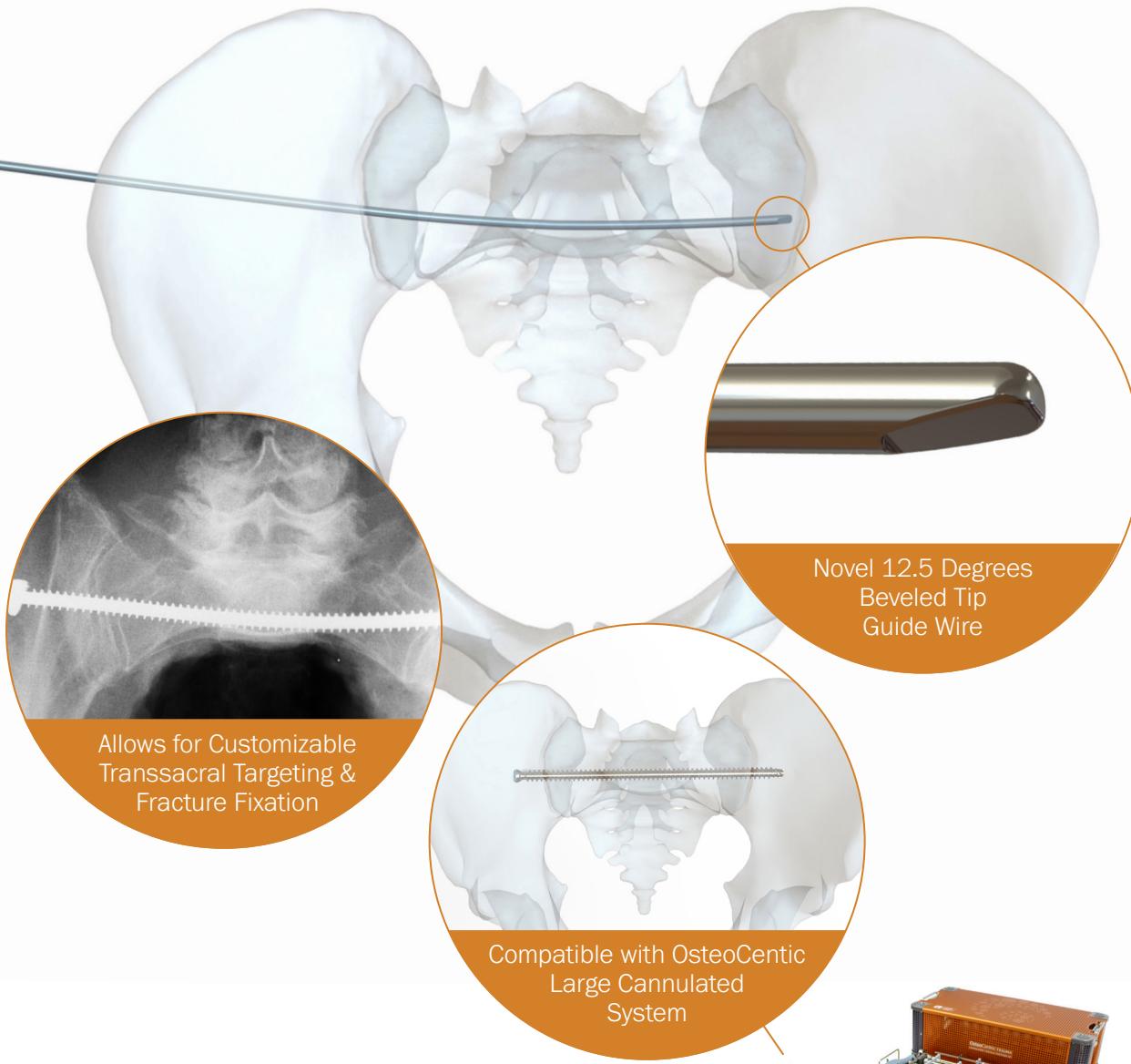


# OsteoCentric® Trauma

## Advanced Pelvic Fixation System

Surgical Technique



OsteoCentric® Trauma Advanced Pelvic Fixation System

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## Description

The OsteoCentric Trauma Cannulated Fastener set consist of cannulated fasteners in a variety of lengths and diameters to accommodate different procedures and patient sizes. These additional instruments complement the fasteners that are provided non sterile and are manufactured from Stainless Steel per ASTM F138.

## General System Information

The surgeon must select the type and size of the implant that best meets the patient's surgical needs. Refer to the Instructions for Use for indications, contraindications, precautions, warnings and cleaning instructions. To obtain these materials or to obtain more information about products, go to [www.osteocentric.com](http://www.osteocentric.com) or please contact Customer Service at **(800) 969-0639**.



# Implant Overview

The OsteoCentric Trauma Cannulated Screw Fasteners System includes:

## Ø7.0mm Cannulated Screw Fasteners

- Self-Tapping
- Full Thread, 24mm Partially Threaded, and Variable Threaded options
- 60mm – 180mm lengths in 5mm increments
- Stainless Steel per ASTM F138



Figure 1: 7.0 x 100 Variable Thread

## Ø8.0mm Cannulated Screw Fasteners

- Self-Tapping
- Full Thread, 24mm Partially Threaded, and Variable Threaded options
- 60mm – 180mm lengths in 5mm increments
- Stainless Steel per ASTM F138



Figure 2: 8.0 x 24mm Partial Thread

**NOTE: Please pay special attention to the part numbers for the Variable thread fasteners.**

The example part number layout is as follows;

370-5XXX-XXX

- 370- Indicates that it is the 7.0mm Fastener.
- 5XXX- Indicates the overall length of the Fastener.
- XXX- the remaining three digits indicate the thread length.

For Example: Part number 370-5130-070 indicates that it is the 7.0mm fastener with an overall length of 130mm and has a variable thread length of 70mm.

The overall length of the fastener is identified in the faster tray in black lettering.

The variable thread length of the fastener is identified in the fastener tray in white lettering.

## Indications for Use

The OsteoCentric 7.0mm to 8.0mm Cannulated Screws are intended for fracture fixation of long bones and long bone fragments, long bone osteotomies, femoral neck fractures, slipped capital femoral epiphyses as an adjunct to treatment with a dynamic hip screw (DHS) in basilar neck fractures, tibial plateau fractures, ankle arthrodesis, pediatric femoral neck fractures, intercondylar femur fractures, SI joint disruptions, fixation of pelvis and iliosacral joints, and subtalar arthrodesis.

## Contraindications:

The physician's education, training, and professional judgment are necessary to determine the appropriate treatment protocol and patient selection. Contraindications may be relative to each patient, and clinicians should always consider all risks and possible reactions when considering the proper treatment protocol. Specific contraindications include:

- Allergies and sensitivities to materials in the device
- Active or latent infection
- Obesity
- Pathologic fractures
- Skeletal immaturity
- Osteoporosis or other disease resulting in osteopathology
- Previous implantation
- Tissue viability at or near the operative site
- Compromised blood flow at or near the operative site
- Mental or neuromuscular disorders
- Patient compliance
- Spinal fixation – this device is not intended for screw attachment or fixation to the posterior elements (pedicles) of the cervical, thoracic, or lumbar spine.

## Advanced Pelvic Fixation Technique System Description

The Advanced Pelvic Fixation Technique System was designed to provide additional intraoperative optionality when reducing and stabilizing complex fractures. This addition complements the current OsteoCentric 7.0/8.0 Large Cannulated Screw Fastener System.

### Benefits

- Provides additional instrumentation to aid in fracture reduction and fixation
- Features a threaded and non-threaded beveled tip guide wire for optimal maneuverability
- Features low profile drill sleeve for a minimally invasive approach



# Advanced Pelvic Fixation System Surgical Technique

1. Insert the Ø2.0x254mm Guide Wire to create initial path for the Ø4.5mm Cannulated Drill Bit. Confirm the path using imaging.

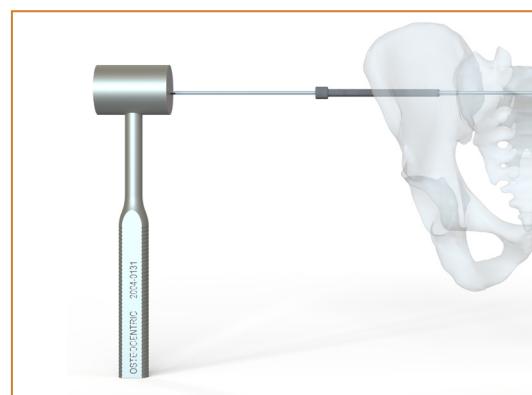
2. With the Drill Sleeve over the Ø4.5mm Cannulated Drill Bit, place drill bit over the Ø2.0mm guide wire and slowly progress. Using the side cutting features of the drill bit make slight directional corrections as necessary.

**Note:** Optional Ø1.6mm Guide Wire provided in individual packaging and can be used in place of Ø2.0mm Guide Wire if desired.



3. After progressing the Ø4.5mm Cannulated Drill Bit to the desired location prepare for the Drill/Transsacral Beveled Tip Guide Wire exchange.

4. Ensure Drill Sleeve teeth are engaged against the bone. With one hand hold the sleeve steady and with the other remove the Drill Bit, ensuring the orientation of the Drill Sleeve does not change. Then place the desired Ø2.7mm Transsacral Beveled Tip Guide Wire through the sleeve, follow path created by drilling.



**Note:** Threaded and Non-Threaded versions of the Transsacral Beveled Tip Guide Wire are available. The surgeon should pick the version which provides the desired tactile feedback.

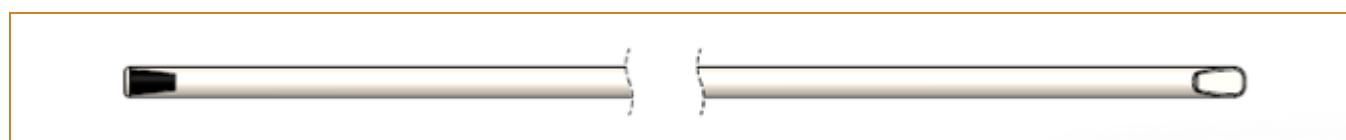
5. Carefully progress the Beveled Tip Guide Wire to desired location.

**Note:** Laser marking on the non-beveled end of the guide wire will represent where the bevel is oriented.

**Note:** To determine fastener length, one can overlay same length wire placing tip on cortex and measure difference between the wires

6. Once the Beveled Tip Guide Wire is progressed to the desired location, the surgeon can use the Ø5.0mm Cannulated Drill Bit from the 7.0/8.0 system to create a pilot hole.

**Note:** The surgeon can place the implant over the Guide Wire without using the Ø5.0mm cannulated drill bit with protection sleeve.



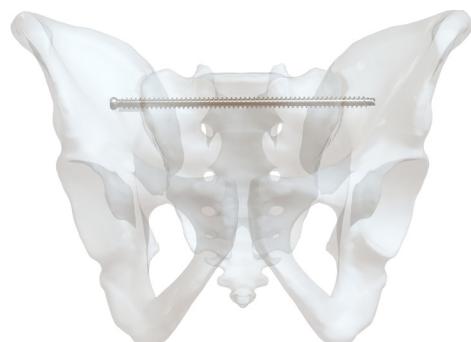
Laser Marked Blunt End

Beveled Tip End

7. Use the appropriate Tap as necessary.

**Note:** With the self-tapping fasteners, tapping is not required in most instances. In specific cases such as hard bone, tapping may be utilized.

8. Ensure the Beveled Tip Guide Wire is still in desired location and use the selected Fastener/Washer combination with the 4.0mm Cannulated Hex Driver, advance the fastener until final desired placement is achieved.



## APFT Instruments

Instruments are made from various materials approved per ASTM F899.

Part Number	Description
2004-0101	2.7x250mm Transsacral Beveled Tip Wire
2004-0102	2.7x350mm Transsacral Beveled Tip Wire
2004-0103	2.7x450mm Transsacral Beveled Tip Wire
2004-0141	2.7x250mm Transsacral Beveled Tip Wire THD
2004-0142	2.7x350mm Transsacral Beveled Tip Wire THD
2004-0143	2.7x450mm Transsacral Beveled Tip Wire THD
2004-0111	4.5x270mm Drill Bit, Side Cutting
2004-0121	4.5mm Drill Sleeve, 100mm
2004-0122	4.5mm Drill Sleeve, 160mm
2004-0131	Mallet
2004-0023	2.7mm Thd Toracr Tip Guidewire
202-80100	2.0mm Guide Wire 254mm
320-80032*	1.6mm Guide Wire Trocar 230mm
2004-2000-17	Advanced Pelvic Fixation Technique Caddy

\*These instruments are only available upon request and are not present in the system case and tray.

## Implants

All implant components are manufactured from Stainless Steel per ASTM F138.

Part Number	Description	Size (mm)
<b>2004-2000-03</b>	<b>7.0mm Full Thread Tray</b>	
370-5070-001	7.0 X 70mm Cann Screw Fastener Full Thd	70
370-5075-001	7.0 X 75mm Cann Screw Fastener Full Thd	75
370-5080-001	7.0 X 80mm Cann Screw Fastener Full Thd	80
370-5085-001	7.0 X 85mm Cann Screw Fastener Full Thd	85
370-5090-001	7.0 X 90mm Cann Screw Fastener Full Thd	90
370-5095-001	7.0 X 95mm Cann Screw Fastener Full Thd	95
370-5100-001	7.0 X 100mm Cann Screw Fastener Full Thd	100
370-5105-001	7.0 X 105mm Cann Screw Fastener Full Thd	105
370-5110-001	7.0 X 110mm Cann Screw Fastener Full Thd	110
370-5115-001	7.0 X 115mm Cann Screw Fastener Full Thd	115
370-5120-001	7.0 X 120mm Cann Screw Fastener Full Thd	120
370-5125-001	7.0 X 125mm Cann Screw Fastener Full Thd	125
370-5130-001	7.0 X 130mm Cann Screw Fastener Full Thd	130
370-5135-001	7.0 X 135mm Cann Screw Fastener Full Thd	135
370-5140-001	7.0 X 140mm Cann Screw Fastener Full Thd	140
370-5145-001	7.0 X 145mm Cann Screw Fastener Full Thd	145
370-5150-001	7.0 X 150mm Cann Screw Fastener Full Thd	150
370-5155-001	7.0 X 155mm Cann Screw Fastener Full Thd	155
370-5160-001	7.0 X 160mm Cann Screw Fastener Full Thd	160
370-5165-001	7.0 X 165mm Cann Screw Fastener Full Thd	165
370-5170-001	7.0 X 170mm Cann Screw Fastener Full Thd	170
370-5175-001	7.0 X 175mm Cann Screw Fastener Full Thd	175
370-5180-001	7.0 X 180mm Cann Screw Fastener Full Thd	180

Part Number	Description	Size (mm)
<b>2004-2000-04</b>		
370-5070-034	7.0 X 70mm Cann Screw Fastener 34mm Var Thd	70
370-5075-037	7.0 X 75mm Cann Screw Fastener 37mm Var Thd	75
370-5080-040	7.0 X 80mm Cann Screw Fastener 40mm Var Thd	80
370-5085-043	7.0 X 85mm Cann Screw Fastener 43mm Var Thd	85
370-5090-046	7.0 X 90mm Cann Screw Fastener 46mm Var Thd	90
370-5095-049	7.0 X 95mm Cann Screw Fastener 49mm Var Thd	95
370-5100-052	7.0 X 100mm Cann Screw Fastener 52mm Var Thd	100
370-5105-055	7.0 X 105mm Cann Screw Fastener 55mm Var Thd	105
370-5110-058	7.0 X 110mm Cann Screw Fastener 58mm Var Thd	110
370-5115-061	7.0 X 115mm Cann Screw Fastener 61mm Var Thd	115
370-5120-064	7.0 X 120mm Cann Screw Fastener 64mm Var Thd	120
370-5125-067	7.0 X 125mm Cann Screw Fastener 67mm Var Thd	125
370-5130-070	7.0 X 130mm Cann Screw Fastener 70mm Var Thd	130
370-5135-075	7.0 X 135mm Cann Screw Fastener 75mm Var Thd	135
370-5140-080	7.0 X 140mm Cann Screw Fastener 80mm Var Thd	140
370-5145-085	7.0 X 145mm Cann Screw Fastener 85mm Var Thd	145
370-5150-090	7.0 X 150mm Cann Screw Fastener 90mm Var Thd	150
370-5155-095	7.0 X 155mm Cann Screw Fastener 95mm Var Thd	155
370-5160-100	7.0 X 160mm Cann Screw Fastener 100mm Var Thd	160
370-5165-105	7.0 X 165mm Cann Screw Fastener 105mm Var Thd	165
370-5170-110	7.0 X 170mm Cann Screw Fastener 110mm Var Thd	170
370-5175-115	7.0 X 175mm Cann Screw Fastener 115mm Var Thd	175
370-5180-120	7.0 X 180mm Cann Screw Fastener 120mm Var Thd	180
<b>2004-2000-05</b>		
370-5060-024	7.0 X 60mm Cann Screw Fastener 24mm Thd	60
370-5065-024	7.0 X 65mm Cann Screw Fastener 24mm Thd	65
370-5070-024	7.0 X 70mm Cann Screw Fastener 24mm Thd	70
370-5075-024	7.0 X 75mm Cann Screw Fastener 24mm Thd	75
370-5080-024	7.0 X 80mm Cann Screw Fastener 24mm Thd	80
370-5085-024	7.0 X 85mm Cann Screw Fastener 24mm Thd	85
370-5090-024	7.0 X 90mm Cann Screw Fastener 24mm Thd	90
370-5095-024	7.0 X 95mm Cann Screw Fastener 24mm Thd	95
370-5100-024	7.0 X 100mm Cann Screw Fastener 24mm Thd	100
370-5105-024	7.0 X 105mm Cann Screw Fastener 24mm Thd	105
370-5110-024	7.0 X 110mm Cann Screw Fastener 24mm Thd	110
370-5115-024	7.0 X 115mm Cann Screw Fastener 24mm Thd	115
370-5120-024	7.0 X 120mm Cann Screw Fastener 24mm Thd	120
370-5125-024	7.0 X 125mm Cann Screw Fastener 24mm Thd	125
370-5130-024	7.0 X 130mm Cann Screw Fastener 24mm Thd	130
380-5060-024	8.0 X 60mm Cann Screw Fastener 24mm Thd	60
380-5065-024	8.0 X 65mm Cann Screw Fastener 24mm Thd	65
380-5070-024	8.0 X 70mm Cann Screw Fastener 24mm Thd	70
380-5075-024	8.0 X 75mm Cann Screw Fastener 24mm Thd	75

Part Number	Description	Size (mm)
380-5080-024	8.0 X 80mm Cann Screw Fastener 24mm Thd	80
380-5085-024	8.0 X 85mm Cann Screw Fastener 24mm Thd	85
380-5090-024	8.0 X 90mm Cann Screw Fastener 24mm Thd	90
380-5095-024	8.0 X 95mm Cann Screw Fastener 24mm Thd	95
380-5100-024	8.0 X 100mm Cann Screw Fastener 24mm Thd	100
380-5105-024	8.0 X 105mm Cann Screw Fastener 24mm Thd	105
380-5110-024	8.0 X 110mm Cann Screw Fastener 24mm Thd	110
380-5115-024	8.0 X 115mm Cann Screw Fastener 24mm Thd	115
380-5120-024	8.0 X 120mm Cann Screw Fastener 24mm Thd	120
380-5125-024	8.0 X 125mm Cann Screw Fastener 24mm Thd	125
380-5130-024	8.0 X 130mm Cann Screw Fastener 24mm Thd	130
2004-2000-07	7.0mm 24mm Thread Tray 135mm-180mm	
370-5135-024	7.0 X 135mm Cann Screw Fastener 24mm Thd	135
370-5140-024	7.0 X 140mm Cann Screw Fastener 24mm Thd	140
370-5145-024	7.0 X 145mm Cann Screw Fastener 24mm Thd	145
370-5150-024	7.0 X 150mm Cann Screw Fastener 24mm Thd	150
370-5155-024	7.0 X 155mm Cann Screw Fastener 24mm Thd	155
370-5160-024	7.0 X 160mm Cann Screw Fastener 24mm Thd	160
370-5165-024	7.0 X 165mm Cann Screw Fastener 24mm Thd	165
370-5170-024	7.0 X 170mm Cann Screw Fastener 24mm Thd	170
370-5175-024	7.0 X 175mm Cann Screw Fastener 24mm Thd	175
370-5180-024	7.0 X 180mm Cann Screw Fastener 24mm Thd	180
<b>2004-2000-09</b>	<b>8.0mm Full Thread Tray</b>	
380-5040-001	8.0 X 40mm Cann Screw Fastener Full Thd	40
380-5045-001	8.0 X 45mm Cann Screw Fastener Full Thd	45
380-5050-001	8.0 X 50mm Cann Screw Fastener Full Thd	50
380-5055-001	8.0 X 55mm Cann Screw Fastener Full Thd	55
380-5060-001	8.0 X 60mm Cann Screw Fastener Full Thd	60
380-5065-001	8.0 X 65mm Cann Screw Fastener Full Thd	65
380-5070-001	8.0 X 70mm Cann Screw Fastener Full Thd	70
380-5075-001	8.0 X 75mm Cann Screw Fastener Full Thd	75
380-5080-001	8.0 X 80mm Cann Screw Fastener Full Thd	80
380-5085-001	8.0 X 85mm Cann Screw Fastener Full Thd	85
380-5090-001	8.0 X 90mm Cann Screw Fastener Full Thd	90
380-5095-001	8.0 X 95mm Cann Screw Fastener Full Thd	95
380-5100-001	8.0 X 100mm Cann Screw Fastener Full Thd	100
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Part Number	Description	Size (mm)
380-5145-001	8.0 X 145mm Cann Screw Fastener Full Thd	145
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380-5165-001	8.0 X 165mm Cann Screw Fastener Full Thd	165
380-5170-001	8.0 X 170mm Cann Screw Fastener Full Thd	170
380-5175-001	8.0 X 175mm Cann Screw Fastener Full Thd	175
380-5180-001	8.0 X 180mm Cann Screw Fastener Full Thd	180
<b>2004-2000-10</b>	<b>8.0mm Variable Thread Tray</b>	
380-5070-034	8.0 X 70mm Cann Screw Fastener 34mm Var Thd	70
380-5075-037	8.0 X 75mm Cann Screw Fastener 37mm Var Thd	75
380-5080-040	8.0 X 80mm Cann Screw Fastener 40mm Var Thd	80
380-5085-043	8.0 X 85mm Cann Screw Fastener 43mm Var Thd	85
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380-5170-110	8.0 X 170mm Cann Screw Fastener 110mm Var Thd	170
380-5175-115	8.0 X 175mm Cann Screw Fastener 115mm Var Thd	175
380-5180-120	8.0 X 180mm Cann Screw Fastener 120mm Var Thd	180

## Large Cannulated Instruments

Instruments are made from various materials approved per ASTM F899.

Part Number	Description
2004-0030	Nut Driver
2004-0031	2.7mm Guide Wire Drill Tip SS 600mm
2004-2000-06	Cannulated 7.0/8.0mm Instrument Tray
2004-0001-01	Fastener Sleeve With Handle
2004-0001-03	Drill Sleeve 5.0mm
2004-0001-04	Guide Wire Sleeve 2.7mm
2004-0001-05	Trocar
2004-0002	Parallel Wire Guide
2004-0003	Trocar Tip Reduction Tool
2004-0004	7.0mm Countersink Cann Hudson-Mod
2004-0005	4.0mm Hex Driver Cann Hudson-Mod 270mm
2004-0006	4.0mm Hex Driver Solid Hudson-Mod
2004-0007	7.0mm Screw Fastener Tap Cann Hudson-Mod 300mm
2004-0008	5.0mm Drill Bit Cann Hudson-Mod 330mm
2004-0009	T-Handle Hudson-Mod
2004-0010	4.0mm Hex Driver Cann Fixed
2004-0011	Stylet 285mm
300-1302	13mm Washer
300-1601	16mm Washer
2004-0014	2.70mm Guide Wire Drill Tip 300mm SS
2004-0015	2.70mm Guide Wire Threaded Trocar Tip 300mm SS
2004-0017	2.70mm Guide Wire Drill Tip 450mm SS
2004-0018	2.70mm Guide Wire Threaded Trocar Tip 450mm SS
2004-0016	Depth Gauge For 7.0/8.0mm
2004-0020	7.0mm Drill Bit Cann Hudson-Mod 270mm
2004-0021	8.0mm Screw Fastener Tap Cann Hudson-Mod 300mm
2004-0022	2.70mm Guide Wire Drill Tip 300mm CoCr
2004-0023	2.70mm Guide Wire Threaded Trocar Tip 300mm CoCr
2004-0024	2.70mm Guide Wire Drill Tip 450mm CoCr
2004-0025	2.70mm Guide Wire Threaded Trocar Tip 450mm CoCr

**Note:**

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