

Triathlon® Gold Femoral Components

Surgical protocol
addendum

Surgical addendum

Instruments

Implants



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Compatibility

Femoral component/insert compatibility

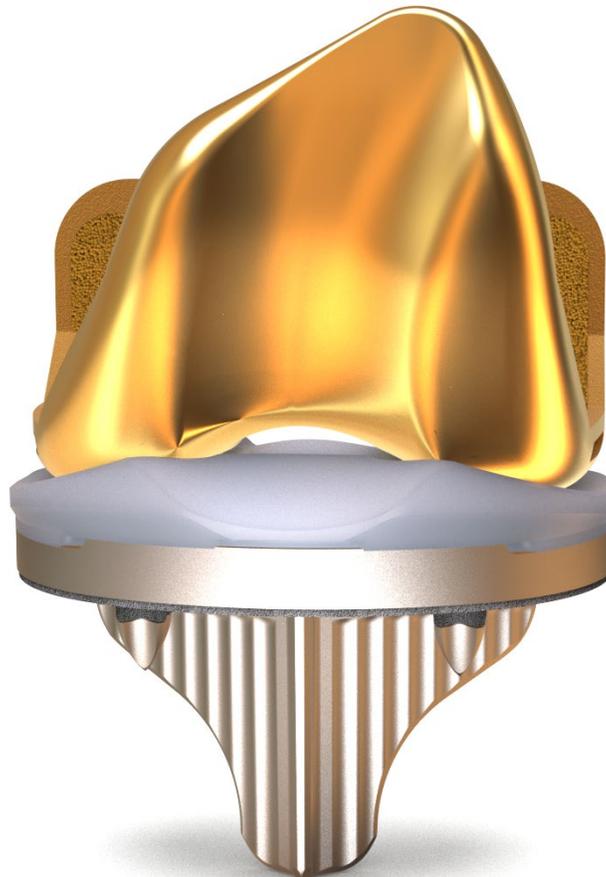
Size matching: One up, one down (e.g., size 5 femur with size 4 or size 6 insert/baseplate)

Femoral components	Insert type				
	CR	CS	PS	PSR	TS
Triathlon Gold	✓	✓	No	No	No

Femoral component/patella compatibility

Size matching: Every patella articulates with every femur, due to a common radius across all sizes.

Femoral components	Patella type			
	Asymmetric	Asymmetric metal-backed	Symmetric metal-backed	Symmetric
Triathlon Gold	✓	✓	✓	✓



This publication sets forth detailed validated procedures for implantation of the Triathlon Gold femur. It offers instructions that you should heed, but as with any such technical guide, each surgeon must consider the particular needs of each patient and make appropriate adjustments when and as required.

This protocol addendum contains instructions for the implantation of the Triathlon Gold femur only. All other steps (e.g., bone preparation and trialing) are consistent with the existing Triathlon CR femoral components. Please refer to the Triathlon Knee System surgical protocol compendium (TRIATH-SP-30) for the rest of the surgical steps. If trialing with the Triathlon Pro Femoral Trials, please refer to JR-TRIA-SURGP-630073 for the applicable steps.

Component implantation

Contact between the Triathlon Gold femur and the tibial baseplate during impaction may cause material transfer to the femur.

- **Note:** For help protecting the femur articular surface during component placement, first implant the preferred tibial baseplate and place an appropriate Tibial Insert or Trial Tibial Insert on the baseplate prior to femoral component implantation.

Tibial Baseplate

Please refer to the Triathlon Knee System surgical protocol (TRIATH-SP-30) for the rest of the surgical steps for implanting the Primary Tibial Baseplate (cemented or cementless), Triathlon Tritanium Baseplate, All-Polyethylene Tibial Baseplate, Low Profile Baseplate or Screw-Fix Tibial Baseplate. Please refer to the Triathlon Knee System Universal Baseplate surgical protocol (TRIATH-SP-16) for the rest of the surgical steps for implanting the Universal Tibial Baseplate.

CR or CS Tibial Insert

If the Primary Tibial Baseplate (cemented or cementless), Triathlon Tritanium Baseplate, Low Profile Baseplate, Screw-Fix Tibial Baseplate or Universal Tibial Baseplate is used, place the appropriate CR or CS Tibial Insert or Trial Tibial Insert on the tibial baseplate to help protect the Triathlon Gold femur surface during femoral component placement.

Prior to assembly of the appropriate Tibial Insert, the CR or CS Trial Tibial Insert may be placed on the tibial baseplate to once more assess joint stability and range of motion, or to aid in cement removal used for femoral component or tibial baseplate fixation.

To assemble the appropriate Tibial Insert, distract the joint and angle the insert posteriorly into the Tibial Baseplate. The posterior lip of the Tibial Insert must fit beneath the lip on the posterior Tibial Baseplate wall.

Attach the Tibial Insert Impactor to the Impaction Handle and impact to snap the Insert in place anteriorly (**Figure 1**). The appropriate Tibial Insert is fully seated once the locking wire locks under the barbs on the anterior/interior surface of the Tibial Baseplate wall.



Figure 1

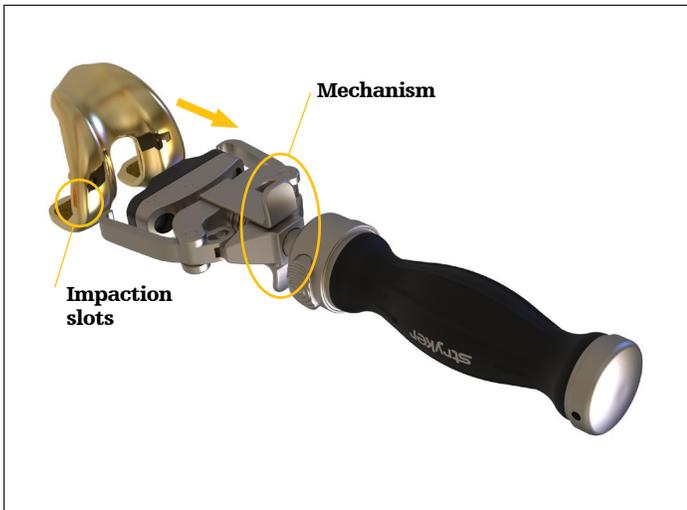


Figure 2

Femoral Component – Cemented/Cementless

Attach Femoral Impactor Extractor to the Impaction Handle and attach to the appropriate size and side of Triathlon Gold femur (**Figure 2**).

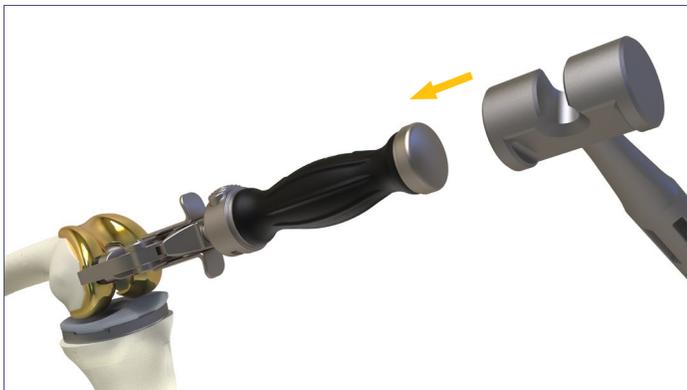


Figure 3

Turn the Impaction Handle counterclockwise until there is enough space (approximately 10mm) between the black impaction surface and the ends of the jaws to insert the Femoral Component.

Pull back on the mechanism to open the jaws. Engage the jaws into the impaction slots on the Femoral Component.

Turn the Impaction Handle clockwise to tighten, ensuring the impaction surface locks against the distal condyles of the Femoral Component.

If cementing the implant, the surgeon should apply bone cement to the implant and/or bone surface in accordance with the standard of care for bone cement application.

Place the Femoral Component on the prepared femur and impact it until fully seated (**Figure 3**).

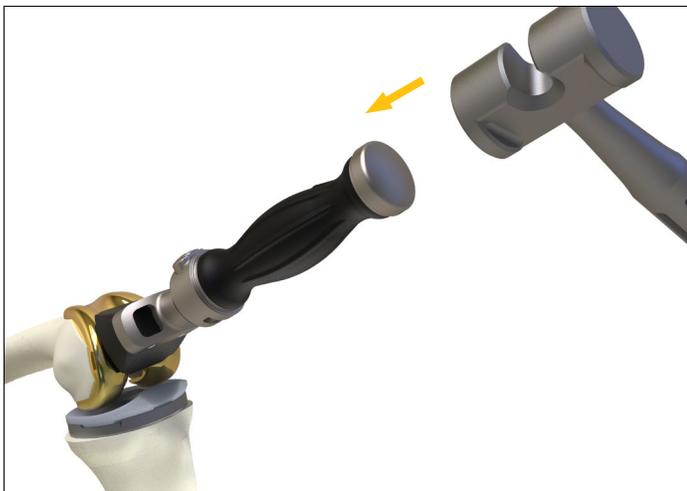


Figure 4

The MIS Femoral Flexion Impactor or the Femoral Impactor can be attached to the Impaction Handle to further seat the Femoral Component onto the prepared femur (**Figure 4**).

► **Note:** Clear all excess bone cement (does not apply to cementless use of the component).

Instruments

Catalog no.	Description	Quantity
6541-4-813	Tibial Insert Impactor	1
6541-4-807	Femoral Impactor Extractor	1
6541-4-810	Impaction Handle	2
6541-4-811	Femoral Impactor	1
6541-7-811	MIS Femoral Flexion Impactor	1
5530-T-109A or 5530-T-109B	CR Tibial Insert Trial #1 - 9mm	1
5530-T-111A or 5530-T-111B	CR Tibial Insert Trial #1 - 11mm	1
5530-T-113A or 5530-T-113B	CR Tibial Insert Trial #1 - 13mm	1
5530-T-116A or 5530-T-116B	CR Tibial Insert Trial #1 - 16mm	1
5530-T-119A or 5530-T-119B	CR Tibial Insert Trial #1 - 19mm	1
5530-T-209A or 5530-T-209B	CR Tibial Insert Trial # 2 - 9mm	1
5530-T-211A or 5530-T-211B	CR Tibial Insert Trial # 2 - 11mm	1
5530-T-213A or 5530-T-213B	CR Tibial Insert Trial # 2 - 13mm	1
5530-T-216A or 5530-T-216B	CR Tibial Insert Trial # 2 - 16mm	1
5530-T-219A or 5530-T-219B	CR Tibial Insert Trial # 2 - 19mm	1
5530-T-309A or 5530-T-309B	CR Tibial Insert Trial #3 - 9mm	1
5530-T-311A or 5530-T-311B	CR Tibial Insert Trial #3 - 11mm	1
5530-T-313A or 5530-T-313B	CR Tibial Insert Trial #3 - 13mm	1
5530-T-316A or 5530-T-316B	CR Tibial Insert Trial #3 - 16mm	1
5530-T-319A or 5530-T-319B	CR Tibial Insert Trial #3 - 19mm	1
5530-T-409A or 5530-T-409B	CR Tibial Insert Trial #4 - 9mm	1
5530-T-411A or 5530-T-411B	CR Tibial Insert Trial #4 - 11mm	1
5530-T-413A or 5530-T-413B	CR Tibial Insert Trial #4 - 13mm	1
5530-T-416A or 5530-T-416B	CR Tibial Insert Trial #4 - 16mm	1
5530-T-419A or 5530-T-419B	CR Tibial Insert Trial #4 - 19mm	1
5530-T-509A or 5530-T-509B	CR Tibial Insert Trial #5 - 9mm	1
5530-T-511A or 5530-T-511B	CR Tibial Insert Trial #5 - 11mm	1
5530-T-513A or 5530-T-513B	CR Tibial Insert Trial #5 - 13mm	1
5530-T-516A or 5530-T-516B	CR Tibial Insert Trial #5 - 16mm	1
5530-T-519A or 5530-T-519B	CR Tibial Insert Trial #5 - 19mm	1
5530-T-609A or 5530-T-609B	CR Tibial Insert Trial #6 - 9mm	1
5530-T-611A or 5530-T-611B	CR Tibial Insert Trial #6 - 11mm	1
5530-T-613A or 5530-T-613B	CR Tibial Insert Trial #6 - 13mm	1
5530-T-616A or 5530-T-616B	CR Tibial Insert Trial #6 - 16mm	1
5530-T-619A or 5530-T-619B	CR Tibial Insert Trial #6 - 19mm	1
5530-T-709A or 5530-T-709B	CR Tibial Insert Trial # 7 - 9mm	1
5530-T-711A or 5530-T-711B	CR Tibial Insert Trial # 7 - 11mm	1
5530-T-713A or 5530-T-713B	CR Tibial Insert Trial # 7 - 13mm	1
5530-T-716A or 5530-T-716B	CR Tibial Insert Trial # 7 - 16mm	1
5530-T-719A or 5530-T-719B	CR Tibial Insert Trial # 7 - 19mm	1
5530-T-809A or 5530-T-809B	CR Tibial Insert Trial #8 - 9mm	1
5530-T-811A or 5530-T-811B	CR Tibial Insert Trial #8 - 11mm	1
5530-T-813A or 5530-T-813B	CR Tibial Insert Trial #8 - 13mm	1
5530-T-816A or 5530-T-816B	CR Tibial Insert Trial #8 - 16mm	1
5530-T-819A or 5530-T-819B	CR Tibial Insert Trial #8 - 19mm	1

Instruments

Catalog no.	Description	Quantity
5530-T-009Y	Triathlon Solid CR Tibial Insert Trial Size 0 - 9mm	1
5530-T-010Y	Triathlon Solid CR Tibial Insert Trial Size 0 - 10mm	1
5530-T-011Y	Triathlon Solid CR Tibial Insert Trial Size 0 - 11mm	1
5530-T-012Y	Triathlon Solid CR Tibial Insert Trial Size 0 - 12mm	1
5530-T-014Y	Triathlon Solid CR Tibial Insert Trial Size 0 - 14mm	1
5530-T-016Y	Triathlon Solid CR Tibial Insert Trial Size 0 - 16mm	1
5530-T-109Y	Triathlon Solid CR Tibial Insert Trial Size 1 - 9mm	1
5530-T-110Y	Triathlon Solid CR Tibial Insert Trial Size 1 - 10mm	1
5530-T-111Y	Triathlon Solid CR Tibial Insert Trial Size 1 - 11mm	1
5530-T-112Y	Triathlon Solid CR Tibial Insert Trial Size 1 - 12mm	1
5530-T-113Y	Triathlon Solid CR Tibial Insert Trial Size 1 - 13mm	1
5530-T-114Y	Triathlon Solid CR Tibial Insert Trial Size 1 - 14mm	1
5530-T-116Y	Triathlon Solid CR Tibial Insert Trial Size 1 - 16mm	1
5530-T-119Y	Triathlon Solid CR Tibial Insert Trial Size 1 - 19mm	1
5530-T-209Y	Triathlon Solid CR Tibial Insert Trial Size 2 - 9mm	1
5530-T-210Y	Triathlon Solid CR Tibial Insert Trial Size 2 - 10mm	1
5530-T-211Y	Triathlon Solid CR Tibial Insert Trial Size 2 - 11mm	1
5530-T-212Y	Triathlon Solid CR Tibial Insert Trial Size 2 - 12mm	1
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5530-T-311Y	Triathlon Solid CR Tibial Insert Trial Size 3 - 11mm	1
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5530-T-411Y	Triathlon Solid CR Tibial Insert Trial Size 4 - 11mm	1
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5530-T-413Y	Triathlon Solid CR Tibial Insert Trial Size 4 - 13mm	1
5530-T-414Y	Triathlon Solid CR Tibial Insert Trial Size 4 - 14mm	1
5530-T-416Y	Triathlon Solid CR Tibial Insert Trial Size 4 - 16mm	1
5530-T-419Y	Triathlon Solid CR Tibial Insert Trial Size 4 - 19mm	1
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5530-T-611Y	Triathlon Solid CR Tibial Insert Trial Size 6 - 11mm	1
5530-T-612Y	Triathlon Solid CR Tibial Insert Trial Size 6 - 12mm	1

Instruments

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5530-T-619Y	Triathlon Solid CR Tibial Insert Trial Size 6 - 19mm	1
5530-T-709Y	Triathlon Solid CR Tibial Insert Trial Size 7 - 9mm	1
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5530-T-714Y	Triathlon Solid CR Tibial Insert Trial Size 7 - 14mm	1
5530-T-716Y	Triathlon Solid CR Tibial Insert Trial Size 7 - 16mm	1
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5531-T-409Y	Triathlon Solid CS Tibial Insert Trial Size 4 - 9mm	1
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5531-T-519Y	Triathlon Solid CS Tibial Insert Trial Size 5 - 19mm	1
5531-T-522Y	Triathlon Solid CS Tibial Insert Trial Size 5 - 22mm	1
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5531-T-611Y	Triathlon Solid CS Tibial Insert Trial Size 6 - 11mm	1
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5531-T-622Y	Triathlon Solid CS Tibial Insert Trial Size 6 - 22mm	1
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5531-T-722Y	Triathlon Solid CS Tibial Insert Trial Size 7 - 22mm	1
5531-T-809Y	Triathlon Solid CS Tibial Insert Trial Size 8 - 9mm	1
5531-T-810Y	Triathlon Solid CS Tibial Insert Trial Size 8 - 10mm	1
5531-T-811Y	Triathlon Solid CS Tibial Insert Trial Size 8 - 11mm	1
5531-T-812Y	Triathlon Solid CS Tibial Insert Trial Size 8 - 12mm	1
5531-T-813Y	Triathlon Solid CS Tibial Insert Trial Size 8 - 13mm	1
5531-T-814Y	Triathlon Solid CS Tibial Insert Trial Size 8 - 14mm	1
5531-T-816Y	Triathlon Solid CS Tibial Insert Trial Size 8 - 16mm	1
5531-T-819Y	Triathlon Solid CS Tibial Insert Trial Size 8 - 19mm	1
5531-T-822Y	Triathlon Solid CS Tibial Insert Trial Size 8 - 22mm	1

Implants

Ref. no.	Description	Sizes	Quantity
Triathlon Gold Femoral Component part numbers			
5518-F-X01	Triathlon Gold Femoral Component - Left	X = 1,2,3,4,5,6,7,8	1 each size
5518-F-X02	Triathlon Gold Femoral Component - Right	X = 1,2,3,4,5,6,7,8	1 each size

Triathlon CR Tibial Inserts - Conventional Polyethylene and X3 part numbers

Conventional Polyethylene Inserts

5530-P-X09	Triathlon CR Tibial Insert - Conventional Polyethylene 9mm	X = 1,2,3,4,5,6,7,8	1 each size
5530-P-X10	Triathlon CR Tibial Insert - Conventional Polyethylene 10mm	X = 1,2,3,4,5,6,7,8	1 each size
5530-P-X11	Triathlon CR Tibial Insert - Conventional Polyethylene 11mm	X = 1,2,3,4,5,6,7,8	1 each size
5530-P-X12	Triathlon CR Tibial Insert - Conventional Polyethylene 12mm	X = 1,2,3,4,5,6,7,8	1 each size
5530-P-X13	Triathlon CR Tibial Insert - Conventional Polyethylene 13mm	X = 1,2,3,4,5,6,7,8	1 each size
5530-P-X14	Triathlon CR Tibial Insert - Conventional Polyethylene 14mm	X = 1,2,3,4,5,6,7,8	1 each size
5530-P-X16	Triathlon CR Tibial Insert - Conventional Polyethylene 16mm	X = 1,2,3,4,5,6,7,8	1 each size
5530-P-X19	Triathlon CR Tibial Insert - Conventional Polyethylene 19mm	X = 1,2,3,4,5,6,7,8	1 each size

X3 Inserts

5530-G-X09 or 5530-G-X09-E	Triathlon CR Tibial Insert - X3 9mm	X = 0, 1,2,3,4,5,6,7,8	1 each size
5530-G-X10-E	Triathlon CR Tibial Insert - X3 10mm	X = 0, 1,2,3,4,5,6,7,8	1 each size
5530-G-X11 or 5530-G-X11-E	Triathlon CR Tibial Insert - X3 11mm	X = 0, 1,2,3,4,5,6,7,8	1 each size
5530-G-X12-E	Triathlon CR Tibial Insert - X3 12mm	X = 0, 1,2,3,4,5,6,7,8	1 each size
5530-G-X13 or 5530-G-X13-E	Triathlon CR Tibial Insert - X3 13mm	X = 1,2,3,4,5,6,7,8	1 each size
5530-G-X14-E	Triathlon CR Tibial Insert - X3 14mm	X = 0, 1,2,3,4,5,6,7,8	1 each size
5530-G-X16 or 5530-G-X16-E	Triathlon CR Tibial Insert - X3 16mm	X = 0, 1,2,3,4,5,6,7,8	1 each size
5530-G-X19 or 5530-G-X19-E	Triathlon CR Tibial Insert - X3 19mm	X = 1,2,3,4,5,6,7,8	1 each size

Note: Size 0 inserts are only the 5530-G-XXX-E part numbers.

Triathlon CS Tibial Inserts - Conventional Polyethylene and X3 part numbers

Conventional Polyethylene Inserts

5531-P-X09	Triathlon CS Tibial Insert - Conventional Polyethylene 9mm	X = 1,2,3,4,5,6,7,8	1 each size
5531-P-X10	Triathlon CS Tibial Insert - Conventional Polyethylene 10mm	X = 1,2,3,4,5,6,7,8	1 each size
5531-P-X11	Triathlon CS Tibial Insert - Conventional Polyethylene 11mm	X = 1,2,3,4,5,6,7,8	1 each size
5531-P-X12	Triathlon CS Tibial Insert - Conventional Polyethylene 12mm	X = 1,2,3,4,5,6,7,8	1 each size
5531-P-X13	Triathlon CS Tibial Insert - Conventional Polyethylene 13mm	X = 1,2,3,4,5,6,7,8	1 each size
5531-P-X14	Triathlon CS Tibial Insert - Conventional Polyethylene 14mm	X = 1,2,3,4,5,6,7,8	1 each size
5531-P-X16	Triathlon CS Tibial Insert - Conventional Polyethylene 16mm	X = 1,2,3,4,5,6,7,8	1 each size
5531-P-X19	Triathlon CS Tibial Insert - Conventional Polyethylene 19mm	X = 1,2,3,4,5,6,7,8	1 each size
5531-P-X22	Triathlon CS Tibial Insert - Conventional Polyethylene 22mm	X = 1,2,3,4,5,6,7,8	1 each size

X3 Inserts

5531-G-X09 or 5531-G-X09-E	Triathlon CS Tibial Insert - X3 9mm	X = 0, 1,2,3,4,5,6,7,8	1 each size
5531-G-X10-E	Triathlon CS Tibial Insert - X3 10mm	X = 0, 1,2,3,4,5,6,7,8	1 each size
5531-G-X11 or 5531-G-X11-E	Triathlon CS Tibial Insert - X3 11mm	X = 0, 1,2,3,4,5,6,7,8	1 each size
5531-G-X12-E	Triathlon CS Tibial Insert - X3 12mm	X = 0, 1,2,3,4,5,6,7,8	1 each size
5531-G-X13 or 5531-G-X13-E	Triathlon CS Tibial Insert - X3 13mm	X = 1,2,3,4,5,6,7,8	1 each size
5531-G-X14-E	Triathlon CS Tibial Insert - X3 14mm	X = 0, 1,2,3,4,5,6,7,8	1 each size
5531-G-X16 or 5531-G-X16-E	Triathlon CS Tibial Insert - X3 16mm	X = 0, 1,2,3,4,5,6,7,8	1 each size
5531-G-X19 or 5531-G-X19-E	Triathlon CS Tibial Insert - X3 19mm	X = 0, 1,2,3,4,5,6,7,8	1 each size
5531-G-X22 or 5531-G-X22-E	Triathlon CS Tibial Insert - X3 22mm	X = 1,2,3,4,5,6,7,8	1 each size

Note: Size 0 inserts are only the 5531-G-XXX-E part numbers.

Implants

Ref. no.	Description	Sizes	Quantity
Triathlon All-Polyethylene Tibial component			
5534-A-X09	CS All-Polyethylene Tibial Component 9mm	X=1,2,3,4,5,6,7,8	1 each size
5534-A-X11	CS All-Polyethylene Tibial Component 11mm	X=1,2,3,4,5,6,7,8	1 each size
5534-A-X13	CS All-Polyethylene Tibial Component 13mm	X=1,2,3,4,5,6,7,8	1 each size
5534-A-X16	CS All-Polyethylene Tibial Component 16mm	X=1,2,3,4,5,6,7,8	1 each size

For more information on the devices in this surgical technique, including indications, contraindications, warnings, precautions and potential adverse effects, please see the instructions for use included in the product package or visit ifu.stryker.com. To locate a relevant eIFU on ifu.stryker.com, search the catalog number or product number listed within the surgical protocol.

Before using instrumentation, verify:

- Instruments have been properly disassembled prior to cleaning and sterilization;
- Instruments have been properly assembled post-sterilization;
- Instruments have maintained design integrity; and,
- Proper size configurations are available.

For Instructions for Cleaning, Sterilization, Inspection and Maintenance of Orthopaedic Medical Devices, refer to LSTPI-B and SLI0001 (ifu.stryker.com).

Joint Replacement

A surgeon must always rely on his or her own professional clinical judgment when deciding whether to use a particular product when treating a particular patient. Stryker does not dispense medical advice and recommends that surgeons be trained in the use of any particular product before using it in surgery.

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JR-TRIAGLD-SURGP-2053995

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Manufacturer:

Howmedica Osteonics Corp.
325 Corporate Drive
Mahwah, NJ 07430, USA
A subsidiary of Stryker Corporation
t: 201 831 5000

stryker.com