

# Zimmer® Segmental System Distal Femur XT



Launch Document



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Introducing the Zimmer® Segmental System Distal Femur XT Component



The Zimmer Segmental System (ZSS) has been updated to include the ZSS Distal Femoral XT component. This component provides patients **increased hyperextension resistance**<sup>1,2</sup> compared to the original ZSS Distal Femur.

The ZSS Distal Femur XT consists of eight parts:

- 4 Distal Femoral Components
- 2 Polyethylene Inserts (poly boxes)
- 2 Femoral Hinge Service Kits

No new instruments are required to implant the XT components.

ZSS XT Part Numbers

Part Number	Description	Size
00-5850-042-01	Distal Femoral XT Femoral Component, LT	Size B
00-5850-042-02	Distal Femoral XT Femoral Component, RT	Size B
00-5850-043-01	Distal Femoral XT Femoral Component, LT	Size C
00-5850-043-02	Distal Femoral XT Femoral Component, RT	Size C
00-5850-012-96	Polyethylene Insert XT “Poly Box”	Size B
00-5850-013-96	Polyethylene Insert XT “Poly Box”	Size C
00-5850-071-12	Femoral Hinge XT Service Kit	Size B
00-5850-071-13	Femoral Hinge XT Service Kit	Size C

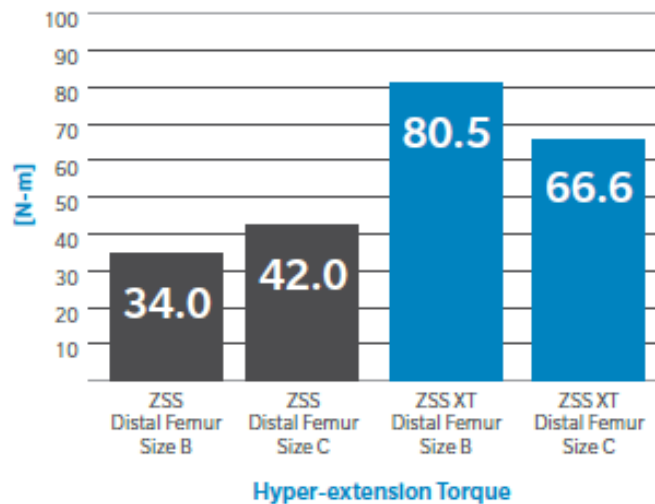
## Product Specifications

ZSS XT Distal Femur Dimensions	Size	Medial/Lateral	Anterior/Posterior	Height
	<b>B</b>	58 mm	50 mm	58 mm
	<b>C</b>	64 mm	54.4 mm	60 mm

**Note:** Dimensions are identical to the original ZSS Distal Femurs

## Hyperextension Testing

Zimmer Segmental System Distal Femoral Comparison  
Estimated Cyclic Hyperextension Endurance Limit<sup>1,2</sup> at 2 Mc







- ZSS Distal Femur XT Size B has a 135% increase in hyperextension resistance over the ZSS Distal Femur Size B.
- ZSS Distal Femur XT Size C has a 59% increase in hyperextension resistance over the ZSS Distal Femur Size C.


The difference in hyperextension increase between the ZSS Distal Femur XT Size B and C is due to the different geometries of the individual femurs.<sup>1\*</sup>




\*Laboratory testing not necessarily indicative of clinical performance.



## Product Compatibility (cont.)

Picture/Item Number	Item Description	Use On/With	Do Not Use With/Why
<b>1</b>  00-5850-020_060-12_26	Segmental Articular Surface <ul style="list-style-type: none"> <li>Segmental One piece Hinge Post</li> <li>Segmental Articular Surface Piece</li> </ul>	Segmental Distal Femoral and XT(00-5850-012_013-01/02), (00-5850-042_043-01/02) Segmental Trabecular Metal Proximal Tibial (00-5850-001_003-10) NexGen RH Knee Distal Femoral (00-5880-012_016-01/02) NexGen RH Knee Tibial Plate (00-5880-001_006-00/02) Segmental Articular Surface can be used with the NexGen RH Knee Hinge Post Extension (from Item 2 below) EXCEPT with the Trabecular Metal Proximal Tibial (see next page for the Servicing Kit Compatibility Chart)	Segmental One-piece Hinge Post with NexGen RH Knee Articular Surface Piece <ul style="list-style-type: none"> <li>Mating components are not compatible</li> </ul> RH Knee Modular Hinge Post Extension + Segmental Articular Surface + Segmental Trabecular Metal Proximal Tibial <ul style="list-style-type: none"> <li>Only Segmental One-piece Hinge Post is indicated with the Segmental Trabecular Metal Proximal Tibial</li> </ul>
<b>2</b>  00-5880-020_060-12_26	NexGen RH Knee Articular Surfaces <ul style="list-style-type: none"> <li>NexGen RH Knee Hinge Post Extension</li> <li>NexGen RH Knee Articular Surface Piece</li> </ul>	NexGen RH Knee Distal Femoral NexGen RH Knee Tibial Plate	Segmental Distal Femoral and XT Segmental Trabecular Metal Proximal Tibial Segmental One-piece Hinge Post <ul style="list-style-type: none"> <li>Mating components are not compatible</li> </ul>
<b>3</b>  00-5850-075-12_16	NexGen RH Knee <u>Cement Shield</u> Hinge Service Kit <ul style="list-style-type: none"> <li>Poly Insert with Shield</li> <li>Shoulder Bolt Hinge Pin</li> <li>Hinge Pin Plug</li> <li>Tibial Bushing</li> </ul>	NexGen RH Knee Distal Femoral with Segmental Articular Surface & Segmental One-Piece Hinge Post (Item 1 above)	NexGen RH Knee Distal Femoral with NexGen RH Knee Hinge Post Extension <ul style="list-style-type: none"> <li>Mating components are not compatible</li> </ul>
<b>4</b>  00-5850-070-12_13	Segmental Hinge Service Kit <ul style="list-style-type: none"> <li>Segmental Poly Insert</li> <li>Segmental Hinge Pin</li> <li>Segmental Hinge Pin Set Screw</li> <li>Tibial Bushing</li> </ul>	Segmental Distal Femoral Segmental Articular Surface with Segmental One-piece Hinge Post (Item 1 above)	NexGen RH Knee Distal Femoral <ul style="list-style-type: none"> <li>Mating components are not compatible</li> <li>Segmental Distal Femoral XT</li> </ul>

<b>5</b>  00-5880-090-12_16	<b>NexGen RH Knee Hinge Service Kit</b> <ul style="list-style-type: none"> <li>• Poly Box Insert</li> <li>• Hinge Post</li> <li>• Shoulder Bolt Hinge Pin</li> <li>• Hinge Pin Plug</li> <li>• Tibial Bushing</li> </ul>	<b>NexGen RH Knee Distal Femoral</b> NexGen RH Knee Articular Surface and RH Knee Hinge Post Extension (Item 2 above)	<b>Segmental Distal Femoral and XT</b> NexGen RH Knee Distal Femoral with Segmental One-piece Hinge Post <ul style="list-style-type: none"> <li>• Mating components are not compatible</li> </ul>
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Picture/Item Number	Item Description	Use On/With	Do Not Use With/Why
<b>6</b>  00-5850-012_013_96	<b>Segmental Poly Insert XT</b>	<b>Segmental Distal Femoral XT</b> Segmental Articular Surface with Segmental One-Piece Hinge Post (Item 1 above)	<b>NexGen RH Knee Distal Femoral</b> <ul style="list-style-type: none"> <li>• Mating components are not compatible</li> </ul> <b>Segmental Distal Femoral</b>
<b>7</b>  00-5850-071-12_13	<b>Segmental Hinge Service Kit XT</b> <ul style="list-style-type: none"> <li>• Segmental Poly Insert</li> <li>• Segmental Hinge Pin</li> <li>• Segmental Hinge Pin Set Screw</li> <li>• Tibial Bushing</li> </ul>	<b>Segmental Distal Femoral XT</b> Segmental Articular Surface with Segmental One-Piece Hinge Post (Item 1 above)	<b>NexGen RH Knee Distal Femoral</b> <ul style="list-style-type: none"> <li>• Mating components are not compatible</li> </ul> <b>Segmental Distal Femoral</b>
<b>8</b>  00-5850-012_013-95	<b>Segmental Poly Insert</b>	<b>Segmental Distal Femoral</b> Segmental Articular Surface with Segmental One-piece Hinge Post (Item 1 above)	<b>Distal Femoral</b> <ul style="list-style-type: none"> <li>• Mating components are not compatible</li> </ul> <b>Segmental Distal Femoral XT</b>

- Components associated with ZSS Distal Femur XT
- Components associated with original ZSS Distal Femur

## Product Warnings

Premature failure of the Segmental Distal Femoral hinge may be caused by:

1. Stretching of the knee to insert the Segmental Distal Femoral Hinge-Post (after back table hinge-post assembly). *In vivo* assembly is required.
2. Not replacing the tibial bushing when servicing the hinge at revision. When servicing the Zimmer Segmental System Distal Femur XT hinge or polyethylene insert “poly box”, the tibial bushing (within the NexGen® Rotating Hinge Knee Tibial Component or Segmental Tibial Component) must be removed and replaced. The tibial bushing is packaged in the Femoral Hinge XT Service Kit and the Tibial Bushing Remover (00-5851-055-00) is in the

NexGen RH Knee instrument kits KT-5979-005-00 or 00-5979-005-00.

3. Do not use the Segmental Distal Femoral Component with the Segmental System Polyethylene Insert XT or Segmental Distal Femoral XT Component with the Segmental System Polyethylene Insert. They were not designed to be compatible.
4. Do not use the Segmental Distal Femoral XT Components without the Segmental System Polyethylene Insert XT.

The following conditions may place excessive demand/severe loading on the polyethylene insert (box) component of the Segmental Distal Femoral Construct:

- Neuropathic Arthropathy (Charcot's knee)
- Muscle deficiencies (quadriceps insufficiency or previous patellar tendon/tibial tubercle rupture)
- Refusal to modify postoperative physical activities
- Morbid obesity (Body Mass Index >39)

## Marketing Collaterals

0078.1-OUS-en	Zimmer Segmental System Distal Femoral & Distal Femoral XT Surgical Technique
0078.2-US-en	Zimmer Segmental System Distal Femoral & Distal Femoral XT Surgical Technique

## References

1. Internal data on file at Zimmer Biomet. ZRR\_WA\_3029\_15
2. Internal data on file at Zimmer Biomet. ZRR\_WA\_2590\_12

For more information regarding the Zimmer Segmental System, please contact your local commercial manager.

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