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stryker®

Orthopaedics

LFIT Anatomic
CoCr Femoral Heads with X3 Liners

Expanded X3 Liner Sizes Now Available

Anatomically Sized for Natural Hip Performance

- Minimizing Dislocation
- Maximizing ROM

Minimizing Dislocation

Prevention of dislocation after total hip arthroplasty can be critical in minimizing patient morbidity. Recommendations to decrease the prevalence of dislocations include, but are not limited to, implant design, component positioning and surgical approach. LFIT Anatomic CoCr Femoral Heads provide surgeons with a solution to help minimize dislocation.

Increase Jump Distance, Decreased Dislocation

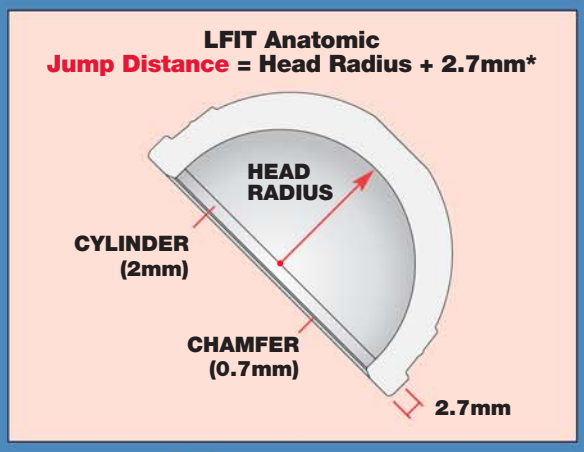
The relationship between jump distance and the risk of dislocation is inversely proportional. As jump distance increases, the risk of dislocation theoretically decreases.

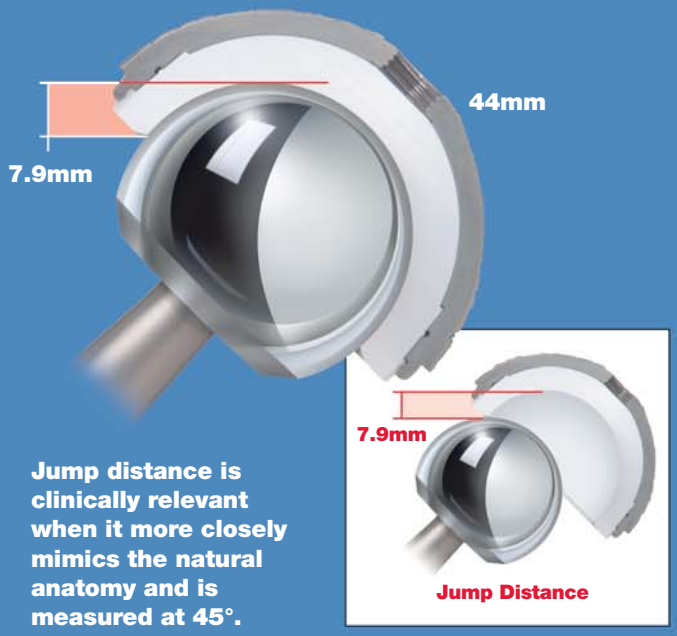
Jump distance is defined as the vertical distance the femoral head must travel to dislocate after impingement. It is typically measured by the radius of the femoral head. With Stryker's unique Trident cup design, an additional safety factor of 2.7mm is incorporated into jump distance. The jump distance of an LFIT Anatomic CoCr Femoral Head in the Trident System is equal to the [head radius + 2mm cylinder + 0.7mm chamfer] for any given size.

Jump Distance = Head Radius + Dislocation Safety Factor (JD = r + DSF)

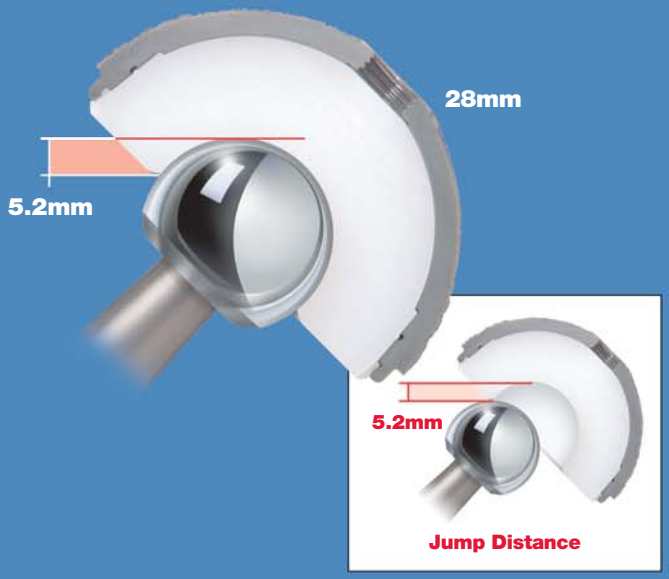
Important Facts about Dislocation

- Reported dislocation rate in literature ranges from 1% - 9%[1]
- 3.9% of Medicare patients reported dislocation within 6 months of THR procedure[1]
- Up to 36% of hips will be revised or re-revised to restore joint stability after dislocation[1]





Jump distance is clinically relevant when it more closely mimics the natural anatomy and is measured at 45°.



X3® The Power of Technology

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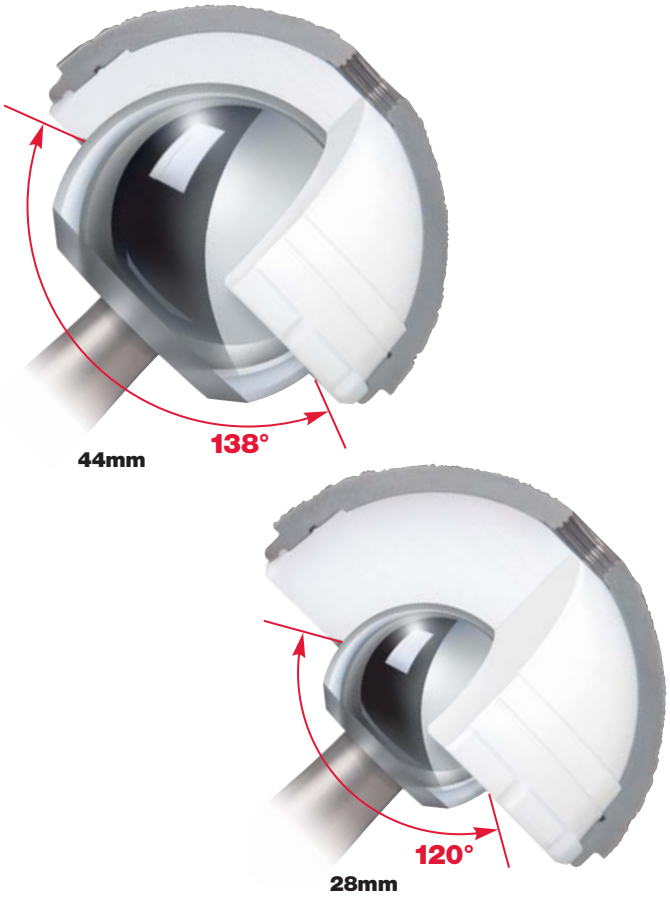

Increased ROM

Increased Head Diameter = Increased ROM[2]

Range of motion is critical for the patient because it enhances optimal movement and activity post-operatively.

An LFIT Anatomic CoCr Femoral Head paired with a Stryker reduced neck geometry stem such as Accolade TMZF or Secur-Fit Max, can help maximize a patient's hip movement, as well as stability and dislocation resistance.

Clinical studies have shown that greater ROM was observed for larger heads (38mm and 44mm) compared with 28mm and 32mm versions.[3] In a computer simulation assessment, larger head sizes were shown to provide greater ROM prior to impingement.[2] Since impingement is the precursor to dislocation, large femoral heads can help provide optimum joint stability. In the case of impingement, a greater amount of translation between the femoral head and acetabulum is required to achieve dislocation with larger heads.

Catalog Information

C-Taper LFIT Anatomic Heads

Catalog No.	Diameter (mm)	Offset (mm)
06-3699	36	-5
06-3600	36	+0
06-3605	36	+5
06-3610	36	+10
06-4099	40	-5
06-4097	40	-2.5
06-4000	40	+0
06-4025	40	+2.5
06-4005	40	+5
06-4075	40	+7.5
06-4010	40	+10
06-4499	44	-5
06-4400	44	+0
06-4405	44	+5

V40 Taper LFIT Anatomic Heads

Catalog No.	Diameter (mm)	Offset (mm)
6260-9-036	36	-5
6260-9-136	36	+0
6260-9-236	36	+5
6260-9-336	36	+10
6260-9-040	40	-4
6260-9-140	40	+0
6260-9-240	40	+4
6260-9-340	40	+8
6260-9-440	40	+12
6260-9-044	44	-4
6260-9-144	44	+0
6260-9-244	44	+4

X3 Liners – Expanded X3 Liner Sizes Now Available

Catalog No.	Size	Description	Thickness (mm)
623-00-36D	36D	X3 Liner	3.9
623-00-40E	40E	X3 Liner	3.8
623-00-40F	40F	X3 Liner	5.8
623-00-40G	40G	X3 Liner	7.4
623-00-40H	40H	X3 Liner	9.1
623-00-40I	40I	X3 Liner	10.6
623-00-40J	40J	X3 Liner	12.6
623-00-44F	44F	X3 Liner	3.8
623-00-44G	44G	X3 Liner	5.4
623-00-44H	44H	X3 Liner	7.1
623-00-44I	44I	X3 Liner	8.6
623-00-44J	44J	X3 Liner	10.6

1. Sanchez-Sotelo J. et al., "Hospital Cost of Dislocation After Primary Total Hip Arthroplasty," *Journal of Bone and Joint Surgery*, May 30, 2006, pg. 290.

2. Stryker® ROM assessment was performed using the following components: Accolade® TMZF® hip stem, 127°, Size 3; +0mm C-Taper femoral heads; and Trident® 0° inserts.

3. Burroughs R., et al., "Range of Motion and Stability in Total Hip Arthroplasty with 28-, 32-, 38- and 44-mm Femoral Head Sizes," *The Journal of Arthroplasty*, Vol. 20,No. 1, January 2005: 11-19.

*The jump distance of the LFIT™ Anatomic head is equal to the [Head Radius + 2mm (Liner Cylinder) + 0.7mm (Liner Chamfer)] for any given size.

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stryker®

325 Corporate Drive
Mahwah, NJ 07430
t: 201 831 5000

www.stryker.com