

# Insignia™ Hip Stem

Data driven design  
**aligned to your approach**



# Differentiated by data

**2013**

Accolade II



**2021**

Insignia



## SOMA-designed geometries

Insignia continues Stryker's heritage of 3D CT-based implant design through SOMA (Stryker Orthopedics Modeling and Analytics) technology. First used in Accolade II with its size-specific medial curvature, SOMA allows Stryker to dynamically test implant designs to allow for an enhanced implant fit across various femoral morphologies. Insignia incorporates the SOMA-designed geometries of clinically successful Accolade II and Secur-Fit to optimize cortical engagement and proximal fill.<sup>1, 2</sup>

## Size-specific medial curvature

Insignia leverages Accolade II's clinically successful M/L body geometry, including the size-specific medial curvature.<sup>2,3,4</sup> This SOMA-designed\* feature has demonstrated a more conforming proximal cortical fit for improved stability<sup>5,6</sup> and maintained 100% bone mineral density of the medial calcar at 5 years.<sup>7</sup>

## Size specific collar

Maximize calcar coverage, while minimizing overhang across various femoral morphologies with SOMA-designed size specific collars (5-7mm).<sup>1</sup>

## Direct lateral offset

Lateralize 5mm across the size range and enable independent adjustment of offset while maintaining leg length.

## Advanced offset coverage

Market leading femoral offset coverage, utilizing SOMA technology, to effectively recreate patient biomechanics.<sup>1</sup>

## Slim-distal profile

Accommodates varying sized femoral canals, which may reduce the need for femoral clear out reaming, especially in Dorr Type A femurs.

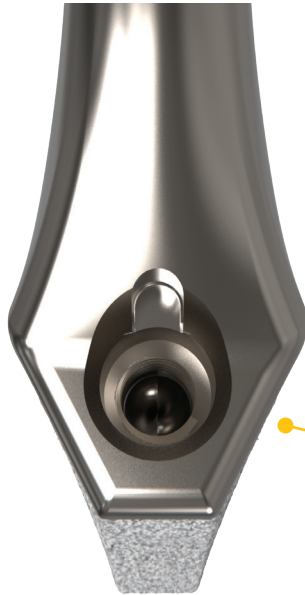
## Low-profile shoulder

Designed for ease of lateralization and insertion during muscle sparing approaches.

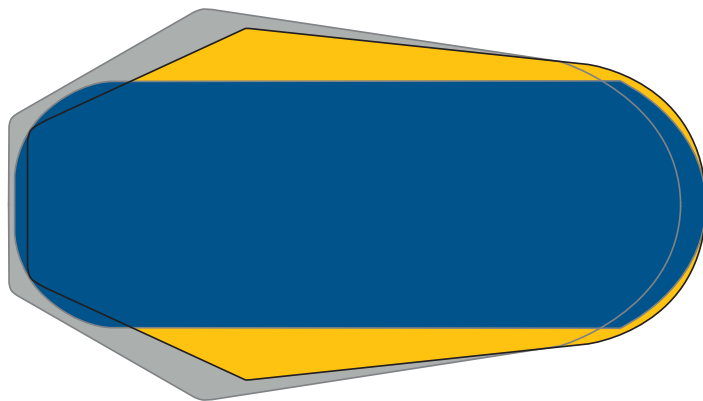


\*SOMA-design based on 1318 CT scans.

# Leading with Stryker's legacy



## Stem geometry comparison



Secur-Fit   Insignia   Accolade II

## Trapezoidal design

Insignia builds on the legacy of Omnifit and Secur-Fit that has defined Stryker's fit and fill stems for decades with its trapezoidal design. Since its first implantation in 1995, Secur-Fit has the lowest revision rates and the longest follow-up in the Australian Joint Registry at 20 years.<sup>2</sup>

## Optimized A/P fill<sup>†</sup>

The A/P body geometry of Insignia capitalizes on the trapezoidal design of Secur-Fit to enhance rotational and axial stability.<sup>1</sup>

The optimized A/P fill of Insignia prioritizes M/L fit prior to A/P filling of the femur. Insignia's geometry is designed to be more bone preserving while enhancing initial stability compared to a clinically successful fit and fill stem.<sup>1,2,8</sup>

Insignia's metaphyseal filling geometry significantly reduces broaching effort compared to a traditional fit and fill stem.<sup>9</sup>

<sup>†</sup>Optimization subject to particular design constraints.



**1990**  
Omnifit HA



**1995**  
Secure-Fit  
HA



**2005**  
Secur-Fit  
Plus Max



**2013**  
Secur-Fit  
Advanced



**2021**  
Insignia

# Broach with confidence

## Tri-Stage™ Broach

The Tri-Stage Broach is Stryker's first instrument designed with SOMA technology.

The unique broach features three tooth geometries to prepare a tapered press fit region to provide an accurate and reproducible stem seating height relative to the final broach.<sup>1</sup>

Insignia's slim distal profile coupled with its market differentiating broach design accommodates varying sized femoral canals, which may reduce the need for femoral clear out reaming, especially in Dorr Type A femurs.



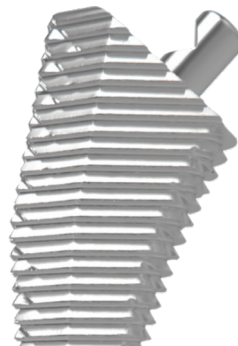
## Broach features

### Extraction



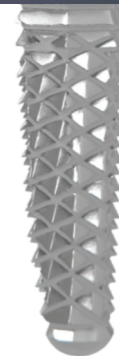
**M/L:** Extraction teeth facilitate cancellous bone removal for enhanced cortical fit<sup>1</sup>

### Compaction



**A/P:** Compaction teeth enable bone preservation and initial stability

### Distally Cutting



**Distal:** Distal diamond cutting teeth help remove diaphyseal bone and are oversized by 0.5mm to promote proximal fit

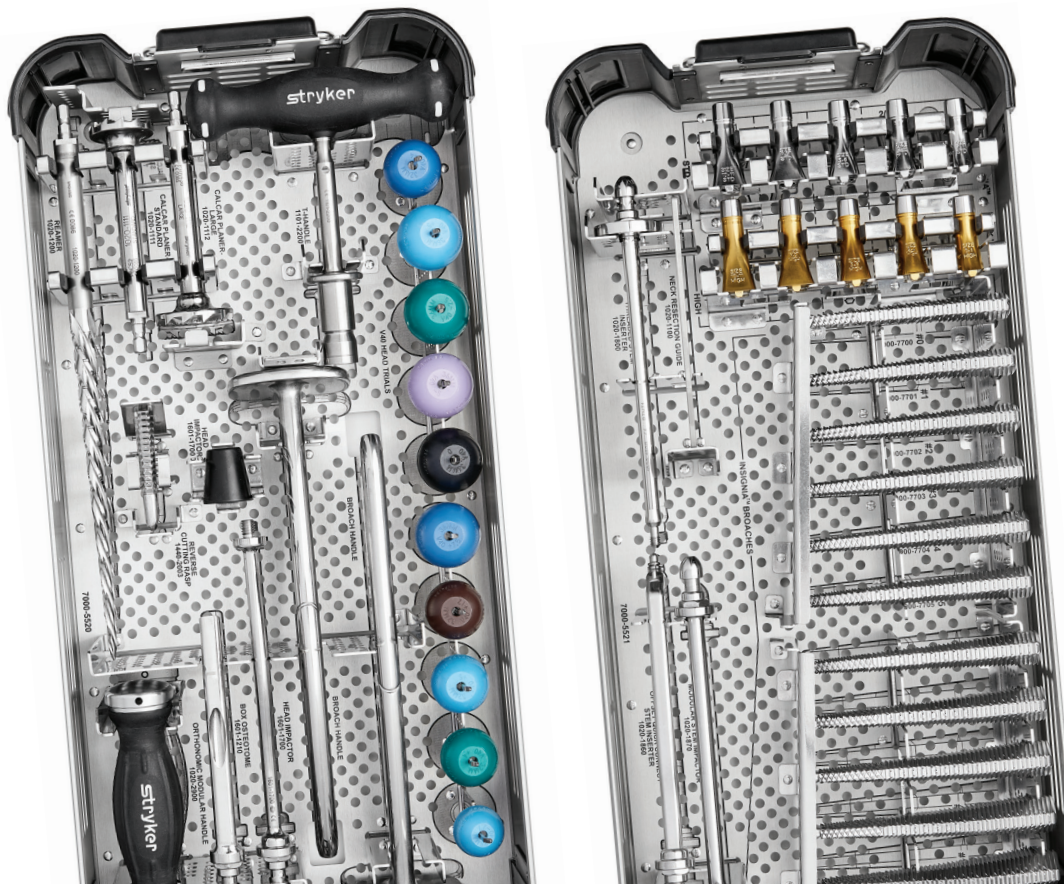


# Aligned to your approach

## Streamlined trays

Stryker's femoral tray system is built for efficiency. One general hip instrument tray is compatible across three femoral stems (Insignia, Accolade II, and Exeter), allowing for minimal tray usage and cross-compatibility.

Streamlined instrumentation and fewer trays can help lower sterilization costs and create a system more suitable for today's healthcare environment.



1. Femoral Instrument Tray

2. Insignia Broach Tray

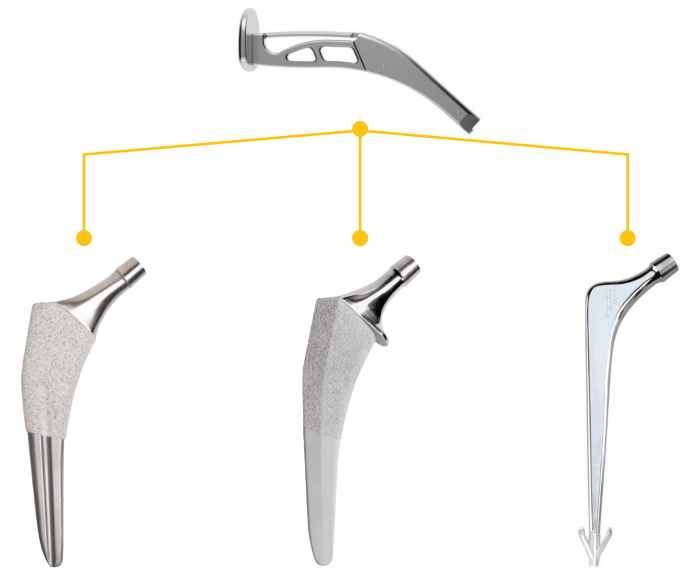
## Instrument features

Insignia is designed to meet the needs of muscle-sparing approaches; your instrumentation should be as well.

Stryker broach handles are available in straight, offset, extra offset, and dual offset designs. Newly designed broach handles\* feature a lever to actively secure the broach. This design is meant to minimize potential toggle and ensure reproducibility of bone preparation. Each handle\* is fully compatible with Accolade II, Exeter, and Insignia femoral systems.

\*Not currently on the market

## Lever broach handles:



# Strength in numbers

## Trident II

Address instability through Insignia's metaphyseal filling design combined with Trident II's market leading femoral head-shell size offerings.<sup>10</sup>

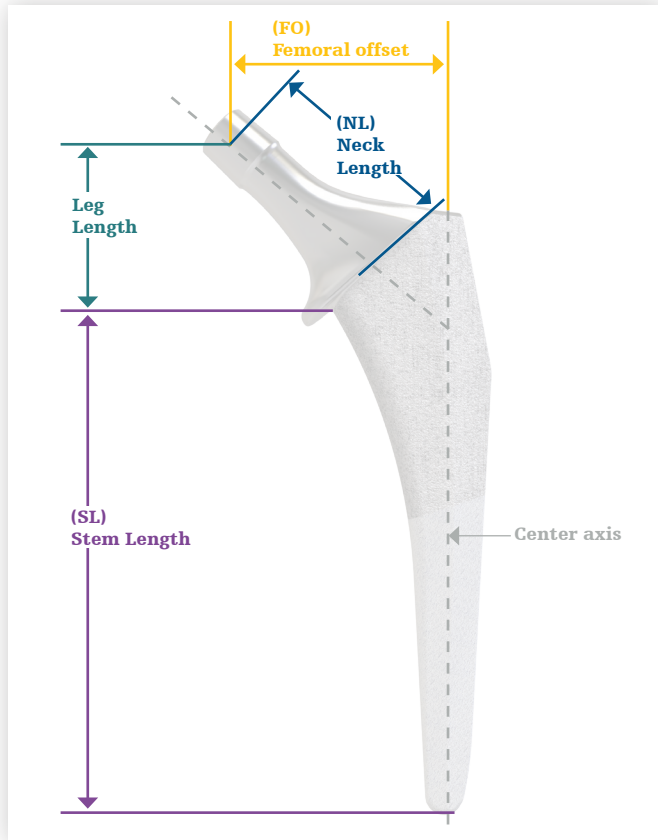
Trident II Tritanium is the latest Stryker implant to incorporate our additive manufactured Tritanium and X3 highly cross-linked polyethylene inserts. Since its launch in 2018, over 350,000 Trident II Tritanium shells have been implanted.<sup>11</sup>

## MDM

MDM, the market's first<sup>12</sup> modular dual mobility device, is compatible with Insignia. With over 10 years of clinical history, MDM has been implanted in over 250,000 THA cases across 47 countries<sup>12</sup> and is the most studied modular dual mobility implant in literature with over 50+ peer-reviewed publications.<sup>13</sup> MDM is designed to help prevent dislocation<sup>14-18</sup> and assist your operative goals of stability<sup>14</sup>, longevity<sup>19-22</sup> and advanced fixation.



# Ordering information



Part number	Size	Stem length (mm)	Neck length (mm)	Leg length (mm)	Femoral Offset (mm)	Distal Diameter (mm)
7000-5500	0 Standard	93	30.5	30	30	7
7000-5501	1 Standard	96	30.5	30	31.5	7
7000-5502	2 Standard	99	32.5	32	34	8
7000-5503	3 Standard	101	32.5	32	35.5	9
7000-5504	4 Standard	103	32.5	32	37	10
7000-5505	5 Standard	105	35	34	40	11
7000-5506	6 Standard	107	35	34	41.5	13
7000-5507	7 Standard	109	38	36	45	14
7000-5508	8 Standard	111	38	36	46.5	15
7000-5509	9 Standard	113	38	36	48	16
7000-5510	10 Standard	115	40.5	38	51	17
7000-5511	11 Standard	117	40.5	38	52.5	18
7000-6600	0 High	93	33.5	30	35	7
7000-6601	1 High	96	33.5	30	36.5	7
7000-6602	2 High	99	36	32	39	8
7000-6603	3 High	101	36	32	40.5	9
7000-6604	4 High	103	36	32	42	10
7000-6605	5 High	105	38.5	34	45	11
7000-6606	6 High	107	38.5	34	46.5	13
7000-6607	7 High	109	41	36	50	14
7000-6608	8 High	111	41	36	51.5	15
7000-6609	9 High	113	41	36	53	16
7000-6610	10 High	115	43.5	38	56	17
7000-6611	11 High	117	43.5	38	57.5	18

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