Insignia™ Hip Stem

Data driven design
aligned to your approach
Differentiated by data

**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.1, 2

**Size-specific medial curvature**

Insignia leverages Accolade II’s clinically successful M/L body geometry, including the size-specific medial curvature.2,3,4 This SOMA-designed* feature has demonstrated a more conforming proximal cortical fit for improved stability5,6 and maintained 100% bone mineral density of the medical calcar at 5 years.7

**Size specific collar**

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

**Slim-distal profile**

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

**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.1

**Low-profile shoulder**

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

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*SOMA-design based on 1318 CT scans.
Leading with Stryker’s legacy

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.²

Optimized A/P fill†

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

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.¹,²,⁸

Insignia’s metaphyseal filling geometry significantly reduces broaching effort compared to a traditional fit and fill stem.⁹

Stem geometry comparison

*Optimization subject to particular design constraints.
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.¹

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**

<table>
<thead>
<tr>
<th>Extraction</th>
<th>Compaction</th>
<th>Distally Cutting</th>
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<tr>
<td><strong>M/L:</strong> Extraction teeth facilitate cancellous bone removal for enhanced cortical fit¹</td>
<td><strong>A/P:</strong> Compaction teeth enable bone preservation and initial stability</td>
<td><strong>Distal:</strong> Distal diamond cutting teeth help remove diaphyseal bone and are oversized by 0.5mm to promote proximal fit</td>
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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.

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.\textsuperscript{10}

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.\textsuperscript{11}

MDM

MDM, the market’s first\textsuperscript{12} 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\textsuperscript{12} and is the most studied modular dual mobility implant in literature with over 50+ peer-reviewed publications.\textsuperscript{13} MDM is designed to help prevent dislocation\textsuperscript{14-18} and assist your operative goals of stability\textsuperscript{14}, longevity\textsuperscript{19-22} and advanced fixation.
### Ordering information

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References:

1. Insignia Design Verification Memo D0000097336.
12. Sales data on file. April, 2021
13. Data on file. Stryker internal peer-reviewed publication data MDM. April, 2021

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