Avenir Complete™
Hip System
The Avenir Complete Hip System is an evolution based on the clinically proven heritage of the Avenir Complete Hip System. By combining legacy features of the Avenir Hip System with new features, Avenir Complete was designed to deliver greater operative flexibility along with surgical excellence.

The Avenir Complete Hip System offers extensive stem options in an expanded size range with intuitive and precise instrumentation pairing seamlessly into a larger Zimmer Biomet portfolio of acetabular shells and liners.

On the following pages you will discover more about the heritage brought through from the Avenir Hip System, in addition to the new features incorporated to help you achieve surgical excellence.
PROVEN HERITAGE:
BUILT ON THE LEGACY OF THE AVENIR HIP SYSTEM

Cross-Section
Rectangular with smoothed edges designed for rotational stability

12/14 Taper
Compatible with most of the Zimmer Biomet heads and adapters*

Fully Polished Neck
Designed to help minimize wear debris

Proximal Geometry
The same as the legacy Avenir Hip System

Macro-structure
Designed to facilitate the distribution of loads, increase bone contact surface area and ease insertion of the stem

Double-layered coating designed for long-term stability
The undercoat of commercially pure titanium vacuum plasma spray (CP-Ti) allows the application of a thin hydroxyapatite top coat.

Forged titanium alloy with sandblasted finish
Vacuum plasma spray of commercially pure titanium (50µm)
Hydroxyapatite coating (110µm)

*See Zimmer Biomet Compatibility website for more information
https://www.zimmerbiomet.com/medical-professionals/support/product-compatibility.html#hip
**Operative Flexibility**

Delivered through an expanded feature-set

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**Optimized Length**

The length of the Avenir Complete stem has been optimized to facilitate insertion through modern surgical approaches including the muscle sparing anterior approach. The stem length grows in 3mm increments from size to size and ranges from 115mm-151mm measured from the lateral shoulder or 93mm-129mm measured from the medial resection line.

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**Reduced Distal Geometry**

The distal tip of the Avenir Complete stem includes a lateral radius along with a taper in the A/P plane. The reduced distal geometry combined with the optimized length of the stem is intended to address a wide range of femoral morphologies and help avoid distal potting.

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**Simple Offset System**

Tissue tensioning is achieved through a simple 6mm offset system. The standard and high offset versions maintain a constant 135° neck angle. The high offset stem is lateralized by +6mm versus the standard offset stem increasing tissue tension without affecting leg length. The coxa vara neck angle is 126.5° and vertical offset is reduced by -6mm versus the high offset stem.

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**Expanded Size Range**

The Avenir Complete System features 13 standard and high offset sizes as well as 12 coxa vara sizes to accommodate a wide range of patient anatomies. The wide size range along with small growth increments between sizes helps ensure proper fit within the femur.

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**Extensive Options**

The Avenir Complete Hip System includes collared and collarless versions available in standard offset, high offset and coxa vara providing surgical options to best match patient anatomies.

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**Neck Length**

Neck length remains constant from sizes 0-7.5 and increases by 3.5mm for the three largest sizes (8-9). This provides a uniform system where sizes 0-7.5 can achieve a short neck length while providing additional neck length where needed in the largest sizes.
SURGICAL EXCELLENCE:
FOSTERING OPERATING ROOM EFFICIENCY, REPRODUCIBLE SURGICAL TECHNIQUE, TOGETHER WITH FACILITATING ACCURATE AND PRECISE STEM SEATING.

Accurate and Precise Stem Seating
The line-to-line relationship between the final broach and implant is designed to achieve accurate and precise implant seating with regard to the position of the final broach and resection line helping to manage leg length.

Intuitive and Reproducible
Following its legacy, the Avenir Complete Hip System instrumentation was designed to facilitate precise, balanced and intuitive femoral preparation to address the risk of subsidence and foster long-term stability\(^1\,^2\) while offering surgeons a straightforward operative technique.

Streamlined instrumentation
The Avenir Complete Hip System incorporates streamlined instrumentation with a broach only surgical technique designed to help maximize operating room efficiencies.

All instrumentation needed to implant the core size range (0-7.5) is contained in a single instrument tray. Various broach handles are available to accommodate modern surgical approaches including the muscle sparing anterior approach.
PERSONALIZED:
TRANSFORMING THE PRIMARY CARE EPISODE STARTS ONE PATIENT AT A TIME

From implants to instruments, surgical systems and support services, each piece of the Zimmer Biomet portfolio has been designed to address the distinct needs of individual patients, while simplifying the surgical work-flow.

The Avenir Complete Hip System together with the G7® Acetabular System pairs a comprehensive offering of stems, shells and liners (including Dual Mobility) with streamlined instrumentation designed to meet distinct patient needs, to simplify the surgical work-flow and maximize hospital and operating room efficiencies.
References

1. 7A* ODEP Rating. Latest ODEP ratings can be found at www.odep.org.uk


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