

NOVATION[®]
Comprehensive Hip System



**CFS™ —
Core Femoral System**

.....
*RENEWING INNOVATIONS.
ENDURING SOLUTIONS.*

Novation® CFS™

The Novation® CFS™ Femoral Stems are designed to provide surgeons with excellent initial fixation and long-term stability when paired with the core instruments that support Novation Tapered and Splined preparation. This allows for simple preparation and ease of intra-operative transition to a low-demand stem should the need arise.

Novation CFS Universal Features

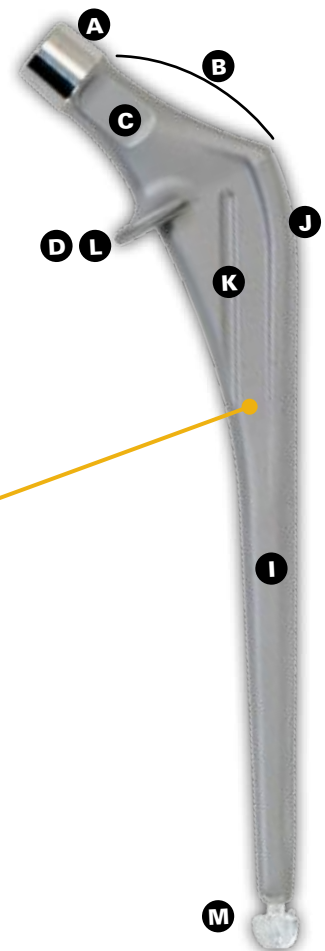
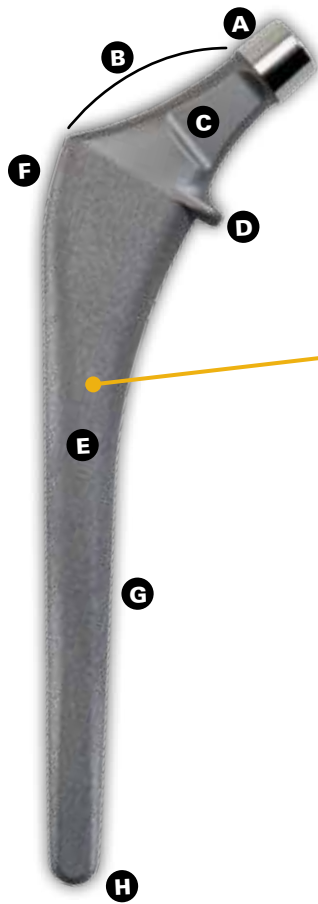
- A. Cobalt Chrome and Zirconium Oxide (Zirconia) 12/14 femoral heads in varying sizes provide optimal range of motion and enhanced intra-operative flexibility
- B. 131-degree neck angle designed to predictably restore normal anatomy
- C. Neck cross-section is minimized on the medial aspect to increase range of motion, decreasing the chance of post-operative dislocation, while material on the lateral side is maintained for strength
- D. Available in Collared (Standard Offset) only.

Novation CFS Press-Fit (Sizes 9-18mm)

- E. Grit blast titanium surface provides bone on-growth and long-term stem stability¹
- F. Trapezoidal cross-section to provide rotational stability, proximal fit and A/P fill²
- G. Shortened overall length, with 3-degree taper in the M/L and a 5-degree taper in the A/P plane, allowing for three-point fixation
- H. Patented distal tip design reduces stress concentration at the distal stem and bone interface, which has been shown to reduce the incidence of thigh pain.^{3,4}

Novation CFS Cemented (Sizes 10-15mm, 17mm)

- I. Matte finish optimizes stem/cement interface²
- J. Cobra flange reduces tensile cement stresses and enhances stem stability and cement performance²
- K. Cement groove reduces tensile stresses in cement²
- L. Medial calcar collar enhances cement pressurization and distributes stress in the bone and on the calcar²
- M. Distal Centralizer positions the stem centrally within the femoral canal resulting in an even cement mantle.



Novation CFS Quick Kit Instruments (simplified for femoral insertion only) available upon request.

References

1. Data on file at Exactech. TR-2009-023: Clinical evaluation of the Exactech hip systems femoral stems.
2. Petty W. Results of primary total hip arthroplasty. In: *Total joint replacement*. Ed. by W. Petty. Philadelphia, W.B. Saunders Co., 1991, p. 315-48.

3. U.S. Patent #5,152,799.

4. Englehardt JA, Tomaszewski PR. Hip stem and tip geometry a theoretical model for thigh pain. Proceedings of the 37th Annual Meeting of the Orthopaedic Research Society. 1991, p. 270.

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