

# Masterfully Crafted

**NOVATION**<sup>®</sup>  
Comprehensive Hip System

Cemented Plus Femoral Stem



**Exactech**<sup>®</sup>

For the surgeon, Novation means stable reconstruction, with the best and brightest in bearing alternatives, for the widest range of anatomies. To the patient, it means a renewed outlook on life.

## A MASTERFULLY CRAFTED PLAN

The Novation<sup>®</sup> Comprehensive Hip System design provides a system of femoral stems and surgical instrumentation that addresses a variety of situations encountered during primary total hip replacement. The system provides stable reconstruction of a wide range of anatomies and low-profile instrumentation and implants that are compatible with a multitude of surgical approaches.



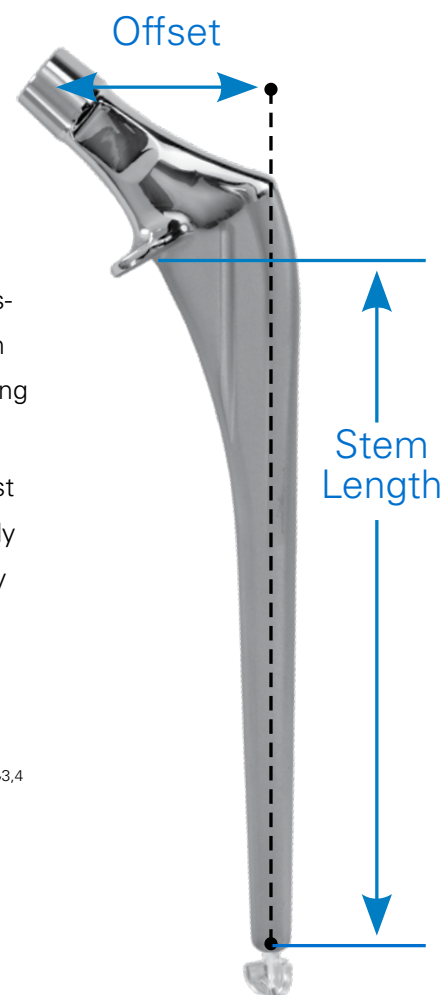
## A COMPREHENSIVE SYSTEM

### Novation Cemented Plus Stem

Novation Cemented Plus stems are designed to utilize the same instruments used with the Tapered and Splined preparation. This allows for simple preparation and ease of intra-operative transition to a cemented stem should the need arise.

#### Features

- Forged cobalt chrome
- Medial collar enhances cement pressurization and stress transmission to medial femoral neck<sup>1</sup>
- Cobra Flange and longitudinal cement groove enhance cement performance and stem stability<sup>1</sup>
- Distal PMMA centralizers are designed to position the stem centrally within the femoral canal resulting in an even cement mantle<sup>1</sup>
- Matte finish optimizes cement interface<sup>1</sup>
- Two offsets provide lateralization without increasing leg length
- Neck flats result in 8mm neck cross-section maximizing range of motion and head/neck ratio while maintaining strength<sup>2</sup>
- Multiple femoral head lengths adjust offset and leg length to more closely match the patient's normal anatomy
- Polished neck
- 12/14 femoral neck taper
- 131-degree neck angle designed to predictably restore normal anatomy<sup>3,4</sup>



#### References:

1. **Petty W.** Results of primary total hip arthroplasty. In: Total joint replacement. Ed. by W. Petty. Philadelphia, W.B. Saunders Co., 1991, p. 189-200.
2. **Data on file at Exactech.** 711-01-80 The Effect of Femoral Head and Neck Cross Section on Range of Motion Technical Profile
3. **Robinson RP, Simonian PT, Gradisar IM, Ching RP.** Joint motion and surface contact area related to component position in total hip arthroplasty. J Bone Joint Surg Br. 1997. Jan; 79(1):140-6.
4. **Noble PC, Alexander JW, Lindahl LJ, Yew DT, Granberry WM, Tullos HS.** The anatomic basis of femoral component Design. Clin Orthop Relat Res. 1988 Oct;(235):148-65.