EXPRT®
PRECISION SYSTEM

REVISION HIP: REINVENTED

djosurgical™

A STREAMLINED, PREMIUM IMPLANT AT A REINVENTED PRICE POINT

EXPRT® REVISION HIP is the latest addition to DJO Global's Exprt portfolio – a platform-defying conventional approaches to total joint implants by improving outdated designs, having an unwavering focus on patient outcomes and reinventing traditional price points.

Exprt Revision Hip is a full-line, modular femoral stem inspired by the clinical success of Wagner style predecessors. The system's intuitive design and premium quality is based on extensive research and development that redefines revision arthroplasty by offering an **anatomically-inspired design** that has an **emphasis on efficiency** and **strength**.

Anatomically Inspired Design

DJO Global extensively researched femoral morphology to design a platform that is ideal for the range of femoral canals encountered in revisions.

Exprt Revision Hip maximizes the femoral canal conformity by incorporating:

- 3° taper geometry for axial stability
- Optimized splines providing 0.2mm of press-fit on each side of the conical region
- 3° bow on longest distal stem to accommodate the natural bow
- Total construct lengths from 195-295mm
- Anatomic anterior distal relief curved in multiple planes

Acetabular options include shells with proprietary P[2] in-growth coating, HXe+ polyethylene and BIOLOX® *delta* and CoCr femoral heads ranging from 22-44mm.

Efficiency

Cadaveric and design of experiment studies were conducted to enable a high level of accuracy and reproducibility of the implant seating height relative to the depth of the reamed canal.[1] The Exprt® approach to streamlining was applied and the result is an unmatched, 2 tray revision system – an 80-90% reduction in instruments compared to competitive systems.[2,3]

What Does That Mean for You?

Streamlined instrumentation means less money and time spent on sterilization, less overall time in the operating suite, and less storage space - appropriate for both the hospital and ASC setting.

An Emphasis on Strength

The Exprt Revision Hip consists of modular shot peened, distal femoral stems and proximal bodies secured with a taper junction and bolt. Successful fatigue load testing was carried out at 2,300N (517lbs) to 5 million cycles on worst case components.[4] To further challenge the construct in this study, the potting depth was increased to 90mm below the center of the femoral head to create a larger moment arm and higher stresses.

At a time when modular head-neck junction features are being questioned for serving as the catalyst for fretting,[5] remaining consistent with DJO's clinically successful femoral stem 12/14 trunnion continues to be a noteworthy feature of the DJO hip portfolio.

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1. Data on file at DJO - PR16-030-01.
2. http://www.zimmer.com/content/dam/zimmer-web/documents/en-US/pdf/surgical-techniques/hip/zmr-revision-hip-system-surgical-technique.pdf – Accessed February 2017. 400+ Instrument SKUs in the ZMR Set compared to 39 for Exprt Revision Hip.
3. http://www.biomet.com/wps/wcm/connect/internet/c99ee315-9006-4509-9dc3-9ef8ea17ebaa/BO104631.pdf?MOD=AJPERES&CONVERT_TO=url&CACHEID=c99ee315-9006-4509-9dc3-9ef8ea17ebaa Accessed February 2017. 200+ Instrument SKUs in the Arcos Set compared to 39 for Exprt Revision Hip.
4. Data on file at DJO – PR16-062-01
5. Ying-Ying, et al. Flexural Rigidity, Taper Angle, and Contact Length Affect Fretting of the Femoral Stem Trunnion in Total Hip Arthroplasty. Journal of Arthroplasty. (2016) S254-S258.

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