



TaperFit™

Cemented Femoral Stem

Corin

Responsible Innovation

Design | History | Function

TaperFit™

Design

TaperFit™ instrumentation has been designed to provide axial and rotational control coupled with intuitive in-line stem introduction and disruption-free stem release, which is vital for excellent results with cemented arthroplasty.

History

Based on biomechanical principles that have been clinically proven for more than 40 years¹ the TaperFit™ stem geometry has not been changed since 1995 and has produced excellent clinical results^{2,3}.

Function

The square lateral shoulder helps visualise proximal stem position as well as helping to increase cement pressurisation within the greater trochanter during stem insertion.

Design | History | Function





100% survivorship for aseptic loosening at 17 years²

TaperFit™

Design

TaperFit™ is manufactured from high strength, high nitrogen stainless steel alloy*. A comprehensive range of 36, 38, 45 and 50mm offset stems allows the surgeon to fine tune leg length, offset and femoral fill intra-operatively and independently of each other.

* BS EN ISO 21534

History

Follow-up of 1143 consecutive Corin TaperFit™ stems demonstrates a 100% survivorship for aseptic loosening at 17 years². At 2 years post-operatively, stem subsidence rates similar to those observed by stems of the same design philosophy were recorded i.e. 1.32mm for the TaperFit™ stem vs. 1.30mm for the Exeter stem³.



Function

Compatible acetabular implant options include:

- Trinity™ cementless advanced bearing acetabular system incorporating:
 - ECiMa™ (vitamin E stabilised) highly cross-linked UHMWPE
 - BIOLOX® *delta* ceramic liners
 - Highly cross-linked UHMWPE
 - Ultra high molecular weight polyethylene (UHMWPE)
- Cenator™ cemented UHMWPE cup

Improved instrumentation

In addition to the improved stem introducer, the TaperFit™ rasps and rasp handles have been modified to facilitate all common surgical approaches.



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References:

1. Ling RSM, Charity J, Lee AJC, Whitehouse SL, Timperley AJ, Gie GA. The Long-Term Results of the Original Exeter Polished Cemented Femoral Component – A Follow-up Report. *Journal of Arthroplasty*. 2009;24 (4).
2. Gill S, Hussein S, McLeod J, Finlayson D. Hip revisions: What epidemic? Presented at British Hip Society Annual Scientific Meeting, Manchester, UK. March 2012.
3. McGill D, Spencer S, Finlayson D. Distal Migration of the TaperFit femoral stem within the cement mantle: a comparison with Exeter prosthesis. Data on file Corin, 1999.



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