

Primary Femoral Solutions

ALTEON[®]

Alteon[®] Highly Polished Stem



Surgeon focused. Patient driven.[™] **Exactech**[®]

ALTEON®

Highly Polished Stem

The Alteon® Highly Polished Stem is a highly polished cobalt chrome cemented stem which fits within the Alteon® HA broach cavity. The highly polished surface of this stem is designed to reduce the amount of wear particles.^{1,2} This stem also features incremental stem sizing, proportional neck geometry, and uses all of the platform Alteon® Instrumentation.



◀ FRENCH PARADOX CEMENT TECHNIQUE

The Highly Polished stem is used in conjunction with a thin cement mantle which provides direct cortical bone contact in some areas. This type of technique allows for a canal filling implant to be used and is designed to transfer the load from the stem to the bone.³

◀ INCREMENTAL SIZING

Neck: Four neck length groupings and two offsets provide multiple options to restore patient anatomy without the need for neck modularity.

Stem: Intentionally grows at a smaller rate medially to laterally when compared to other stems. This proportional growth of the implant body addresses a wide variety of patient anatomies.⁴

◀ PLATFORM INSTRUMENTATION

Integrated into the Alteon platform hip instrumentation which can be used with multiple stems:

- Neck Preserving Stem
- Tapered Wedge Stem
- Monobloc Revision Stem

◀ SCOPE

Standard Offset Sizes 4, 6, 8, 10, 12
Extended Offset Sizes 4, 6, 8, 10, 12

References

1. Janssen D, van Aken J, Scheerlinck T, Verdonschot N. Finite element analysis of the effect of cementing concepts on implant stability and cement fatigue failure. *Acta Orthop*. 2009 Jun;80(3):319-24.
2. Clauss M, Gersbach S, Butscher A, Ilchmann T. Risk factors for aseptic loosening of Müller-type straight stems: a registry-based analysis of 828 consecutive cases with a minimum follow-up of 16 years. *Acta Orthop*. 2013 Aug;84(4):353-9. doi: 10.3109/17453674.2013.810517. Epub 2013 Jun 25.
3. Langlais F, Kerboull M, Sedel L, Ling R. S. M. The 'French Paradox.' *J Bone Joint Surg (Br)*. 2003 Jan; Vol85-B. No. 1. 17-20.
4. Data on file at Exactech.