



Arcos Modular Femoral
Revision System

BIOMET

Arcos System

Simplify the Complex

The Arcos Modular Femoral Revision System meets the demands of complex hip revision surgery by offering surgeons and OR staff the ability to customize both the hip implant and its corresponding instruments in a way that addresses patient and practice needs.

The Arcos System's three proximal and five distal geometry options provide surgeons 117 proximal/distal combinations and multiple auxiliary fixation options for various femoral defects.



Broached Proximal Body

Offset Option

Standard and high offset options reproduce various patient anatomies without lengthening the leg

Clinically Proven PPS Coating¹⁻⁴

Allows for initial scratch-fit stability and bone fixation

Trochanteric Reattachment Bolt Hole

Allows for reattachment of the trochanteric fragment directly to the implant, increasing stability and aiding in bony repair

Version Control

Proximal body design allows for intraoperative version adjustment independent of distal stem position

Fit and Fill Design

Provides initial stability and bone contact when deficiencies are minimal

ETO (Extended Trochanteric Osteotomy) Distal Stem

Roller Hardening

Roller-hardened tapers provide up to three times more strength in cantilever beam testing than non-roller hardened tapers⁵

Splined Tapered

3 degree splined tapered design transfers load distally and provides rotational stability⁶

Clinically Proven PPS Coating¹⁻⁴

Allows for initial scratch-fit stability and bone fixation

Grit Blast

Provides for potential long-term stability through bone attachment

Anatomic Bow

Matches the natural anatomy of the femur

Dual Mode Fixation

Provides biologic fixation for the trochanteric fragment and rotational stability for the intact portion of the femur when an ETO is necessary

Stem Design and Length Option

Kinked stem available in 250 mm length

Bolt and Claw Auxiliary Option

The bolt and claw auxiliary implants allow the surgeon to reattach the trochanteric fragment in cases where a trochanteric osteotomy is necessary. This unique design allows for the trochanteric fragment to attach directly to the implant.

Broached

ETO



Arcos Instrumentation

Surgeon Preference

Instrumentation should not limit surgeons' implant selection or preferred surgical technique. The Arcos Modular Femoral Revision System is designed to provide the option to use any implant combination with the surgical technique that is required to address the needs of the patient.



Modular Reamer



Trial



Implant

Modular Reamer

The proximal and distal reamer can be combined or used independently to prepare the proximal and distal portion of the femur, based on the desired surgical technique.



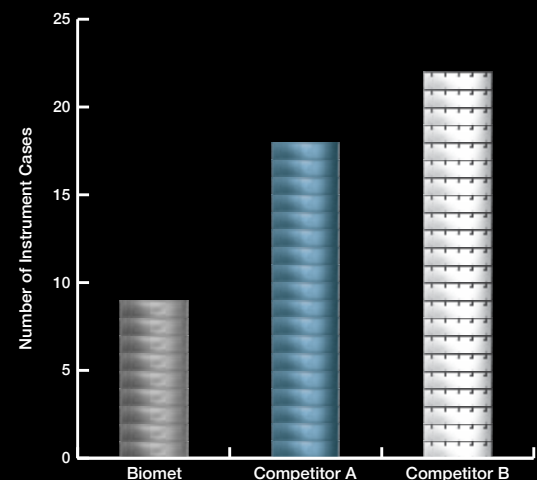
Enhanced Intraoperative Efficiency

Designed with common proximal implant and instrument geometries, the Arcos Platform design allows for intraoperative revision efficiency by reducing the number of instrument cases required to a number comparable to a primary hip surgery.

Common Implant and Instrument Geometry



Total Number of System Cases



Arcos System – Addressing Complex Situations

Fulfilling Patient Needs

Often times revision hip surgery involves both the femur and acetabulum. Biomet offers implants designed for advanced fixation, low wear and dislocation resistance allowing surgeons to address the most complex revision situations.



Maximum Range of Motion:
114 Degrees



Average Lever-out Force:
198 in. lbs.

Freedom Constrained Liner

Offers high level of constraint while maintaining optimal range of motion^{5,7,8}

Regenerex Porous Titanium Construct Provides for Rapid Fixation in Complex Situations

Regenerex Acetabular Augments

Designed to help maximize stability of components in complex reconstruction



Regenerex RingLoc+ Acetabular Shells

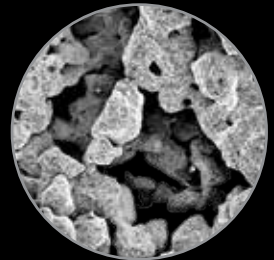
Provide high levels of biologic fixation combined with unparalleled locking technology⁸⁻¹⁰



Regenerex Porous Titanium Construct unites the proven clinical history of titanium¹² with an enhanced interconnecting pore structure, resulting in a revolutionary material that provides for high levels of biologic fixation.^{5,10}

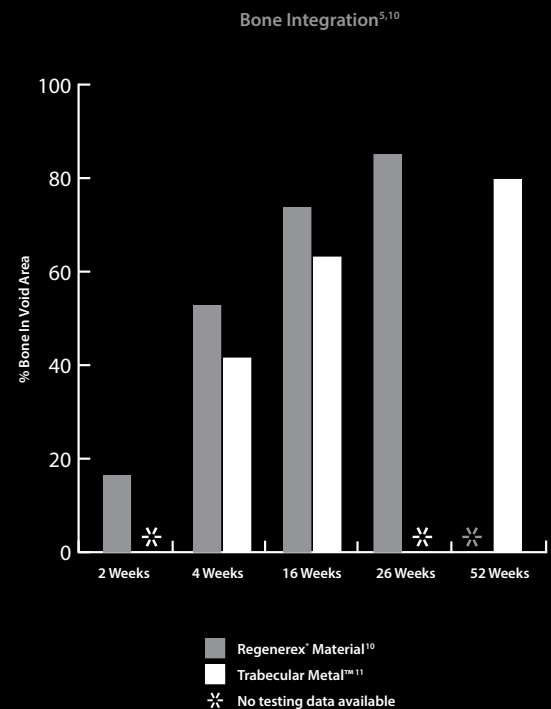
Regenerex material provides for:

- Average porosity of 67 percent⁵
- Optimal pore size range from 100 to 600 microns (average of 300 microns)⁵
- High strength and flexibility⁵
- Fixation in as early as two weeks in animal studies^{5,10}



Bone Integration in Similar Animal Study

Two weeks after insertion, Regenerex implants displayed bony integration and vascularization



*Any time the liner is removed, it is recommended that the locking ring be removed and replaced with a new one. If the liner is damaged in any way, a new liner should be utilized.

References

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