The Trabecular Metal™ Humeral Stem

The Ziffer® Trabecular Metal™ Humeral Stem is the harmony of a revolutionary porous fixation technology and an advanced stem design that evolved from the clinically proven Bigliani/Flatow® Complete Shoulder System. This combination enabled the creation of an innovative shoulder implant which addresses key surgeon needs and is optimized for the patient’s anatomy. The incorporation of Trabecular Metal Technology, the world’s premier porous fixation biomaterial option, delivers an unsurpassed scaffold for biological ingrowth potential. Designed in collaboration with leading surgeons worldwide, the Trabecular Metal Humeral Stem is a true evolution of the Neer philosophy and provides options intended to help the patient achieve an enhanced quality of life.

Evolutionary Design

True Intraoperative Flexibility

Twelve diameters, two stem lengths, and two neck angles, combined with the Bigliani/Flatow Shoulder System humeral head and glenoid options, provide a broad range of anatomic coverage and intraoperative flexibility and help to restore proper joint kinematics through accurate restoration of the center-of-rotation.\(^1,2\)

Stem design allows for a press fit or cemented configuration, including a hybrid technique for fractures.

Reproducible Instrumentation

Adoption of the Trabecular Metal Humeral Stem is made easy with the use of familiar and reproducible instrumentation.

Suture Holes for Enhanced Tuberosity Reattachment

Suture hole placement enhances the ability for tuberosity reattachment and circumferential stem cerclaging, allowing for tight sinching against the stem to treat 3 and 4-part fractures and minimize soft tissue damage.
Revolutionary Technology

Trabecular Metal Technology

*Trabecular Metal* Technology is the orthopaedic industry’s premier porous fixation biomaterial, featuring a fully interconnected porous strut configuration similar to trabecular bone, approximating its physical and mechanical properties more closely than other materials. Since the introduction of this orthopaedic material in 1997, it has been used successfully in a broad range of clinical applications as well as the most difficult salvage and revision total joint replacements.

Tuberosity Reattachment with Trabecular Metal Technology

- Initial implant stability is provided by the inherently high friction of *Trabecular Metal* material against bone and soft tissue.
- Early biological fixation of bone and/or soft tissue is permitted by the high porosity and osteoconductivity that is characteristic of *Trabecular Metal* Technology.
- In human radiographic clinical studies, post-operative gaps have been shown to reliably fill-in with bone. This phenomenon seals the effective join space and may aid/prohibit loss of fixation caused by osteolysis.

Biological Ingrowth

The majority of *Trabecular Metal* Technology construct’s void space is filled with bone at eight weeks postop.

Coefficient of Friction

*Trabecular Metal* Technology construct provides better friction in bone when compared to alternative technologies, which increases implant stability.
The Zimmer Trabecular Metal Humeral Stem is a true evolution from the Bigliani/Flotow The Complete Shoulder Solution – designed to help replicate natural joint mobility, balance, and stability of the shoulder joint. Strength, friction, and porosity of the revolutionary Trabecular Metal Technology make a difference, allowing you to make one too.
Trabecular Metal
00-4342-106-13 TM Stem 42˚ 6mm x 130mm

Note:


References:


Contact your Zimmer representative or visit us at www.zimmer.com