Trabecular Metal™ Glenoid

The Natural Solution to Glenoid Fixation
Designed for strength, stability and longevity.
Zimmer offers surgeons the first glenoid component to hold the hope of enduring fixation. The high friction coefficient of Trabecular Metal™ Material plus strength and flexibility provide initial stability. Trabecular Metal Material’s osteoconductive properties support vascularization\(^1\) that allows for more normal bone formation and maintenance.

Strength and stability designed to facilitate long-term survivorship

Initial stability comparable to an all-polyethylene cemented glenoid

Strength and flexibility to distribute contact forces

Initial
100 cycles

Total displacement (\(\mu m\))

Bigliani/Flatow®

Fully cemented

Trabecular Metal Glenoid partial cement

Intermediate
3,600 cycles

Long Term
100,000 cycles

Stability test results

Performance requirement

Finite element analysis shows that contact stresses

Strength result was 3.5 times the test benchmark.\(^2\)
Combines the proven heritage of the Bigliani/Flatow shoulder system with the innovation of Trabecular Metal Material

Compatible with both Bigliani/Flatow and Trabecular Metal Humeral stems and heads

Variable conformity of glenoid articular surface:
- Reduces the likelihood of edge loading (“rocking horse” effect) and polyethylene wear
- Joint stability through range of motion

The variable-conformity articular surface “behaves similarly to the natural joint” and may “control rim loading under eccentric loads when compared with a conforming glenoid.”

Biologic in-growth achieved through Trabecular Metal Material properties:
- Vascularization
- Osteoconductivity
- Promotion of more normal glenoid bone biology

of the Trabecular Metal Glenoid were equivalent or lower than a solid metal-backed glenoid.

Trabecular Metal properties include up to 80% porosity and completely open pores that promote biologic ingrowth.
Strength and stability designed to facilitate long-term survivorship

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