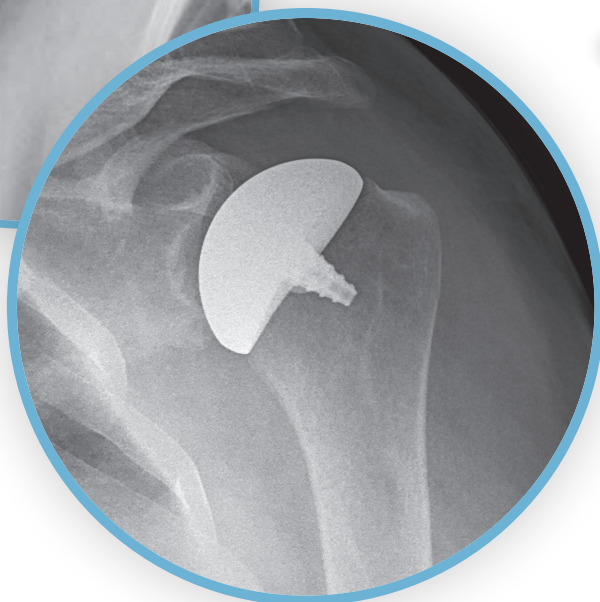


Shoulder Arthroplasty Systems



Shoulder HemiCAPs
25mm - 40mm

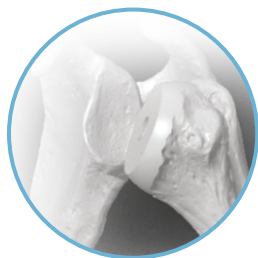


OVO & OVOMotion
with Inlay Glenoid

Arthrosurface's clinically-proven OVO® / OVOMotion® with Inlay Glenoid Total Shoulder Arthroplasty System goes beyond repair to preserve native anatomy and restore motion without activity restrictions, offering a reliable primary solution regardless of glenoid erosion, staging and posterior subluxation¹.

OVO[®] & OVOMotion[®]

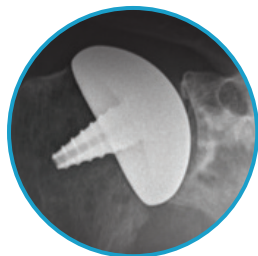
Shoulder Arthroplasty Systems



Access

Glenoid Access:

- Humeral head access reamer optimizes visualization of the inferior and posterior glenoid border



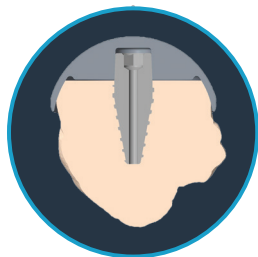
Anatomic

OVO & OVOMotion:

- Non-spherical humeral head more closely replicates native anatomy^{2,3}
- Preserves volume, version and height of humeral head

Inlay Glenoid:

- Avoids lateralization & overstuffing
- Maintains glenohumeral stability & native soft tissue tension



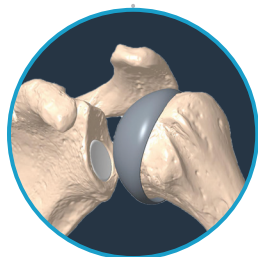
Stability

OVO & OVOMotion:

- Epyphiseal crown supports the base and provides shear force protection
- Taper post rigidly secures into dense subchondral bone for strong fixation.*

Inlay Glenoid:

- No loosening after 4000 cycles⁴
- Superior biomechanical stability and resistance to gross loosening

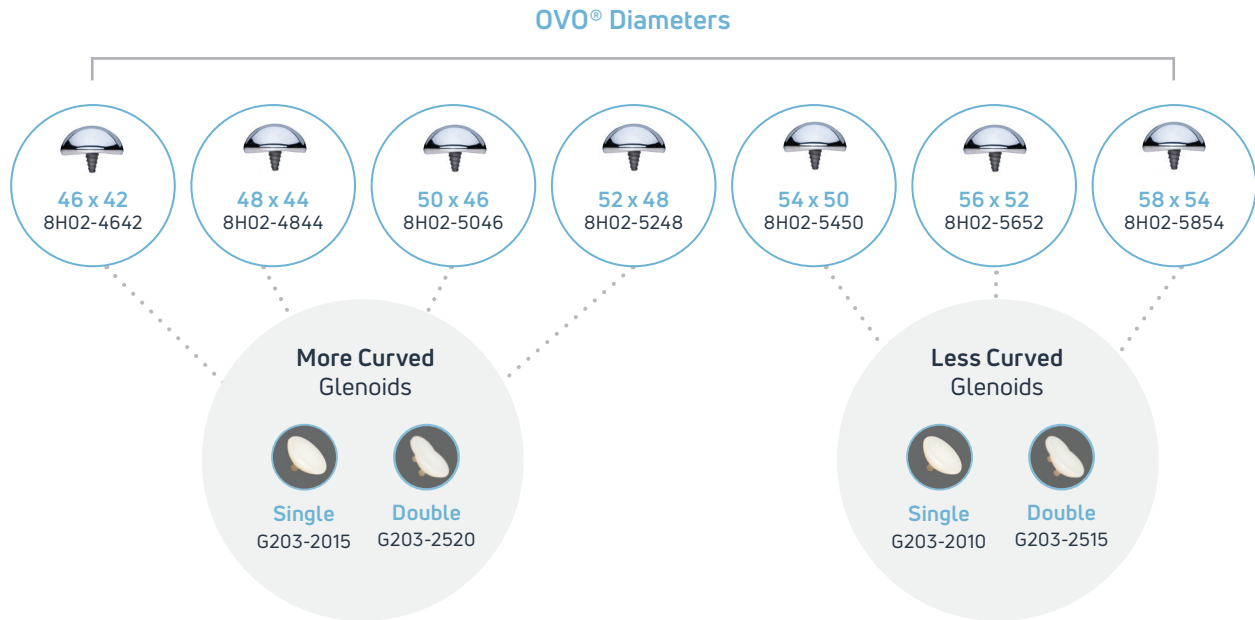


Onlay Glenoid:

- Gross loosening at a mean of 1126 cycles⁴
- Significant increase in contact forces on the implant edge predisposing components to rocking horse phenomenon and loosening

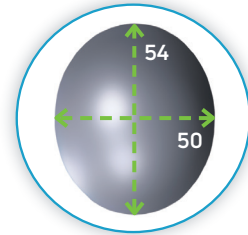
*See IFU for requirements regarding the use of bone cement.

Matching OVO® Implant Diameters to Appropriate Glenoid



Non-Spherical Humeral Head Benefits

- Smaller AP Dimension Places Less Stress on Subscapularis Repair
- Non-Spherical Head More Closely Matches the Native Anatomy⁵



Inlay Glenoid Benefits

- Significantly Reduces Glenoid Loosening Due to the Elimination of the "Rocking Horse"

Rocking Cycles Until Loosening

Glenoid Type	1	2	3	4	5	6	7	8
Onlay	875	1372	1463	772	1838	n/a**	814	749
Inlay	4000*	4000*	4000*	4000*	4000*	4000*	4000*	4000*

*No loosening detected at end of 4000 cycle test

1. Total shoulder arthroplasty with nonspherical humeral head and inlay glenoid replacement: clinical results comparing concentric and nonconcentric glenoid stages in primary shoulder arthritis. Miniaci, Anthony et al., JSES Open Access, Volume 0, Issue 0
2. Jun BJ, Iannotti JP, McGarry MH, Yoo JC, Quigley RJ, Lee TQ. The effects of prosthetic humeral head shape on glenohumeral joint kinematics: a comparison of non-spherical and spherical prosthetic heads to the native humeral head. J Shoulder Elbow Surg. 2013 Oct;22(10):1423-32.
3. Sweet SJ, Takara T, Ho L, Tibone JE. Primary partial humeral head resurfacing: outcomes with the HemiCAP implant. Am J Sports Med. 2015 Mar;43(3):579-87.
4. Gagliano JR, Helms SM, Colbath GP, Przestrzelski BT, Hawkins RJ, DesJardins JD. A comparison of onlay versus inlay glenoid component loosening in total shoulder arthroplasty. J Shoulder Elbow Surg. 2017 Jul;26(7):1113-1120.
5. JP Iannotti, JP Gabriel, SL Schneck, BG Evans, and S Misra. The normal glenohumeral relationships. An anatomical study of one hundred and forty
6. A Pilot Study of Glenoid Loading and Stability of the Inlay versus Onlay Shoulder System. Breanne T. Przestrzelski1, Richard J. Hawkins, MD, Gregory P. Colbath, MD, Jeffrey R. Gagliano, MD, Nuvi B. Njinimbam, Sarah M. Helms, Alan M. Marionneaux, John D. DesJardins, PhD. Clemson University, Clemson, SC, USA, Steadman Hawkins Clinic of the Carolinas, Greenville, SC, USA. ORS 2014 Annual Meeting shoulders. J Bone Joint Surg Am. 1992;74:491-500.

HemiCAP®

Shoulder Arthroplasty Systems

Restoring the *Freedom* of Motion

Clinically Proven

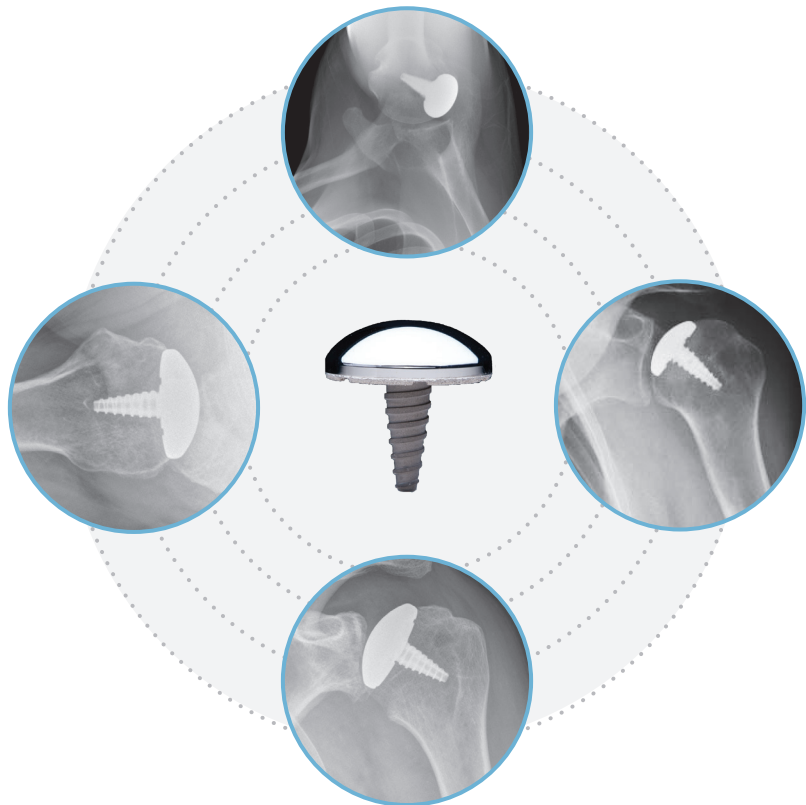
published peer reviewed data

Anatomically Matched

37 implant convexities

Stemless Arthroplasty

AVN, locked dislocators, traumatic lesions, and OA



"As the outcome scores in this study show, restoring the congruity of the humeral head without altering the soft tissue tension, joint volume, joint height, version or inclination angle allows **improved mobility and function.**"

Uribe JW, Botto-van Bemden A, UHZ Sports Medicine Institute,
Coral Gables, FL Journal of Shoulder and Elbow Surgery 2009: 1-6

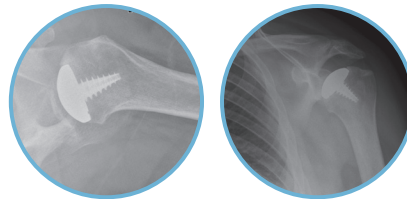
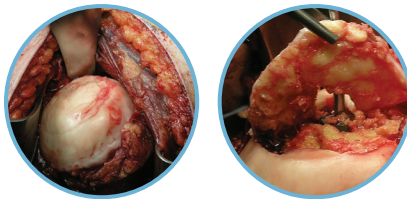
Multiple Diameters & Convexities

to treat a variety of shoulder pathologies



Shoulder HemiCAP's
25mm - 40mm

Osteonecrosis/AVN



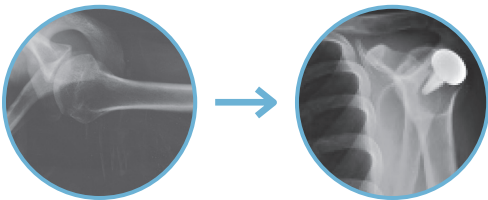
Patient:

36 y/o male with Neurosarcoidosis with AVN secondary to steroid use

Follow-up:

After 6 1/2 years, patient is pain free with full range of motion

Focal & Traumatic Lesions

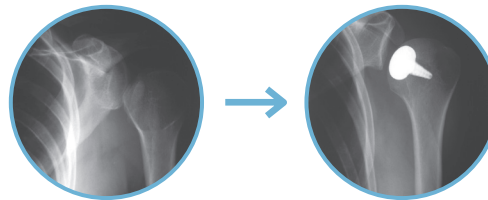


Patient:

36 y/o male with Focal Traumatic Osteochondral Defect

Follow-up:

After 7 years, patient is pain free with full active ROM and normal strength



Patient:

45 y/o male surgeon with a Traumatic Lesion from bicycle accident

Follow-up:

After 7 years, patient is at full strength and has no restrictions

Shoulder Arthroplasty Systems

Shoulder HemiCAP®

37 Different Convexities



OVO® and OVOMotion® with Inlay Glenoid



This product is covered by one or more of U.S. Patent Nos. 6,520,964; 6,610,067; 6,679,917 and other patents pending.

This pamphlet and information is intended for markets where regulatory approval has been granted.

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System designed and manufactured in the U.S.A. Printed in U.S.A

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Restore. Recover. Renew.