



Comprehensive® Reverse Shoulder System

BIOMET®

Comprehensive® Reverse Shoulder System

Simple. Versatile.

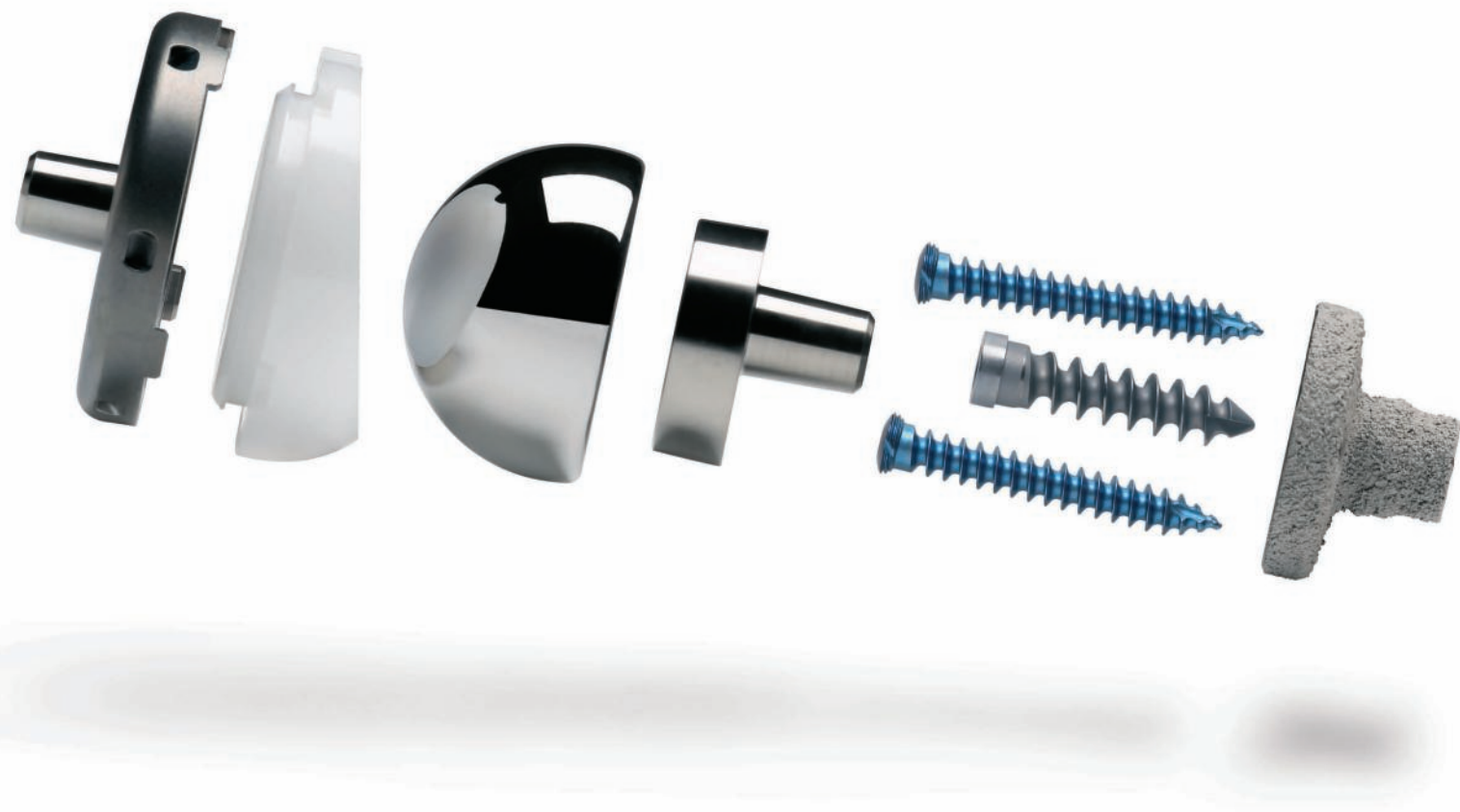
The Comprehensive® Reverse Shoulder System is the next generation reverse shoulder prosthesis, offering unmatched intraoperative flexibility.



The Comprehensive® Reverse Shoulder Story

The goal was simple. The Comprehensive® Reverse Shoulder System was designed to provide a complete, seamless system based on the Comprehensive® shoulder platform. Recognizing the limitations of other reverse shoulders, innovation was engineered into each component of the Comprehensive® Reverse Shoulder System.

This unique system minimizes the potential challenges of removing a well-fixed humeral stem by allowing conversion to a reverse shoulder using any of the existing Comprehensive® stems. This includes primary, revision or fracture stems in cemented or uncemented applications.



Biomet's exclusive RingLoc® and ArComXL® technologies have been incorporated into the design of the humeral tray and bearing. This provides a true locking mechanism and also minimizes the potential for wear and oxidative breakdown.¹⁻⁵

The glenoid components were designed to eliminate the potential for scapular notching, and at the same time, take advantage of the best glenoid bone available. This was accomplished by combining the baseplate and modular central screw with Biomet's exclusive Versa-Dial® glenosphere.

The Comprehensive® Reverse Shoulder System. Restoring function one patient at a time.

Comprehensive® Reverse Shoulder System

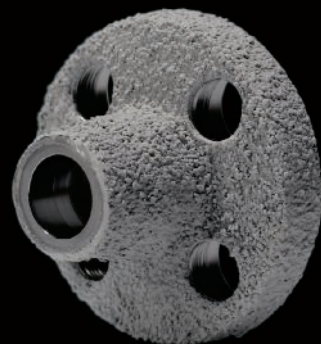
Infinite glenosphere options

The baseplate and modular bi-cortical central screw allow the utilization of the best bone available within the glenoid. With the baseplate in position, the Versa-Dial® glenosphere allows the ability to select both the amount and direction of offset. In most cases, the chosen amount of offset will be positioned inferiorly to help reduce or eliminate scapular notching, although the offset may be positioned in any direction.



Screw Options

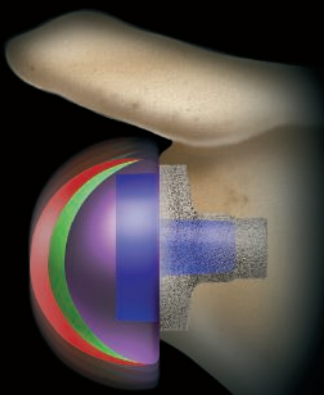
- Modular 6.5mm central screw allows for compression and increased fixation within the glenoid vault
- Central screws are available in lengths of 20–50mm, in 5mm increments
- 4.75mm fixed angle locking and non-locking screws are available
- Non-locking peripheral screws provide for 12 degrees of flexibility
- All peripheral screws are available in lengths of 15–45mm, in 5mm increments





Glenoid Baseplate

- Hydroxyapatite (HA) over PPS® Porous Plasma Spray provides for increased biologic fixation
- Modular design allows for proper orientation of peripheral screw holes prior to impaction
- Low-profile 28mm diameter
- Four identical peripheral locking screw holes
- Central boss provides for potential of increased fixation and resistance to shear forces



Glenospheres

Versa-Dial®

- Infinite offset options between 0.5 and 4.5mm and can be positioned in any direction*
- Medialized or lateralized center of rotation (Standard, +3mm, +6mm)
- Available in 36mm and 41mm

Fixed offset

- Available in 31mm
- Can be positioned in any direction
- Medialized or lateralized center of rotation (Standard and +6mm)

Comprehensive® Reverse Shoulder System

Unmatched humeral stem options

The Comprehensive® Reverse Shoulder builds on the foundation of the Comprehensive® Shoulder System. It is designed for use as a primary reverse prosthesis, or to convert to a reverse from a well-fixed Comprehensive® primary, revision or fracture stem.



Comprehensive® Shoulder Stems

- Utilize the same Comprehensive® platform stems (micro, mini, standard, fracture and revision)
- Can be used as primary reverse or conversion
- Uncemented or cemented use
- PPS® Porous Plasma Spray coating proximally to enhance biologic fixation (MacroBond® coating on fracture stem)
- 45°/135° neck-shaft angle
- 69 stem sizes available





Humeral Trays

- Exclusive RingLoc® technology offers a true locking mechanism between the humeral tray and bearing
- RingLoc® technology allows for removal and exchange of the bearing without disruption of the humeral tray or stem
- Available in standard, +5mm and +10mm
- Six suture slots provide for additional attachment points in complex fractures or revisions
- Compatible with all humeral bearings and glenospheres



Humeral Bearings

- Clinically proven ArComXL® polyethylene bearing
- Available in standard, +3mm and +3mm retentive
- Includes 12° angle, making the neck-shaft angle 33°/147°
- Anti-rotation tabs

References

1. Data on file at Biomet. Bench test results not necessarily indicative of clinical performance.
2. Trodonsky, S. *et al.* Performance Characteristics of Two-piece Acetabular Cups Series II. Scientific Exhibit. 62nd Annual AAOS Meeting. Atlanta, GA. 1996.
3. Fehring, T.K. *et al.* Motion at the Modular Acetabular Interface: A Competitive Study. Scientific Exhibit presented at the American Academy of Orthopaedic Surgeons. 62nd Annual Meeting. Atlanta, GA. 1996.
4. Rosner, B.I. *et al.* Cup/Liner Incongruity of Two Piece Acetabular Designs: Implications in the Generation of Polyethylene Debris. Scientific Exhibit presented at the American Academy of Orthopaedic Surgeons. 60th Annual Meeting. New Orleans, LA. 1994.
5. Trodonsky, S. *et al.* Performance Characteristics of Two-piece Acetabular Cups. Scientific Exhibit presented at the American Academy of Orthopaedic Surgeons. 59th Annual Meeting. San Francisco, CA. 1992.

*Offset range is limited to 1.5 to 3.5mm for 36mm standard glenosphere.

All trademarks herein are the property of Biomet, Inc. or its subsidiaries unless otherwise indicated.

This material is intended for the sole use and benefit of the Biomet sales force and physicians. It is not to be redistributed, duplicated or disclosed without the express written consent of Biomet.

For product information, including indications, contraindications, warnings, precautions and potential adverse effects, see the package insert and Biomet's website.



One Surgeon. One Patient.™

P.O. Box 587, Warsaw, IN 46581-0587 • 800.348.9500 ext. 1501
©2009 Biomet Orthopedics • www.biomet.com
Form No. BOI0372.0 • REV022809