GLOBAL ADVANTAGE
Anatomic Shoulder Arthroplasty

Total shoulder arthroplasty with Global Advantage prosthesis and an eccentric humeral head.

Hemiarthroplasty with Global Advantage prosthesis.

REFERENCES
3. Data on file at DePuy Orthopaedics, Inc.

The Global Shoulder glenoid components are intended for cemented use only.

Consult the package insert for complete product information.

For more information about the Global Advantage Shoulder, visit our web site at www.jnjgateway.com/globaladvantage.
**IMPROVED INSTRUMENTATION**
Simple and more efficient

**GLENOID REAMERS**
- More efficient glenoid reaming
- Improved visualization

**HUMERAL HEAD IMPACTION STAND**
- Helps ensure head impaction is in line with taper
- Measures position of eccentric head

**BROACH IMPACTION HANDLE**
- More efficient cutting broaches
- Streamlined impaction handle does not interfere with soft tissue and bony structures

**INTRAMEDULLARY CUTTING GUIDE**
- Helps provide reproducible humeral head resection
STEM FIXATION
Proven press-fit success

The Global Advantage Shoulder features a clinically proven press-fit stem design. Unlike some stems that were originally designed to rely on cement, the Global Advantage humeral stem relies on the same anatomic, proximal-filling design as the original Global Shoulder.

Improved head position and biomechanics were derived from a comparative study of anthropometric data and cadaveric evaluation.³

“...The uncemented medullary canal-fitting humeral prosthesis demonstrated no radiographic evidence of humeral stem loosening with 2-7 year follow-up.”⁴
HUMERAL HEAD OPTIONS
Anatomic head replacement

HEAD SIZE OPTIONS

<table>
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<tr>
<th>HEAD DIAMETER (mm)</th>
<th>STANDARD HEAD HEIGHT OPTIONS (mm)</th>
<th>ECCENTRIC HEAD HEIGHT OPTIONS (mm)</th>
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<td>40</td>
<td>15, 18, 21</td>
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HUMERAL HEAD RADIUS OF CURVATURE
- Radius of curvature ranges from 19-28mm (38-56mm diameter).¹
- Five diameters are available to recreate anatomical curvature:
  - 40mm
  - 44mm
  - 48mm
  - 52mm
  - 56mm

HEAD HEIGHT
While there is a correlation between head height (thickness) and humeral head radius of curvature, variations persist. In fact, a study of 96 shoulder arthroplasty cases revealed that within a given radius of curvature a number of different thicknesses exist.⁵

In order to replicate natural anatomy, the Global Advantage System provides three standard head height options for each head diameter:
  - 15mm
  - 18mm
  - 21mm

STANDARD AND ECCENTRIC HEAD CAPABILITY
- Eccentric heads are not mandatory, but are an option.
- Infinitely dialable heads are not limited to preset positions.
- Standard heads have three height options.
- Eccentric heads have two height options.

Standard Humeral Head

Eccentric Humeral Head
GLENOID FIXATION
Easier and more effective

Successful total shoulder arthroplasty requires extensive surgical exposure, simple instrumentation, a firmly seated glenoid prosthesis and an anatomic articulating surface.

SURGICAL EXPOSURE*
DePuy is committed to surgeon education.
A new video dedicated to surgical exposure by Frederick Matsen, III, MD, is available through your DePuy representative.

INSTRUMENTATION
New instrumentation provides improved visualization, increased reaming efficiency and reduced instrument-related steps.

FIRMLY-SEATED GLENOID
Patented five-pegged glenoid design helps provide greater stability by helping to prevent “rocking horse” related loosening.

Keeled glenoids are available for cases involving a tight joint compartment or compromised glenoid bone stock.

Patented minimally cemented, pegged glenoid prosthesis. Designed to improve long-term fixation, compared to conventional all-polyethylene keeled and pegged glenoids.

* Illustration by S. Lippitt, MD

ANATOMIC ARTICULATING SURFACE
A constant 6mm diametral mismatch between the glenoid and the humeral head emulates anatomic biomechanics and helps reduce potential rim loading.
DePuy Orthopaedics, Inc. has combined innovative science and simple instrumentation with the Global™ Shoulder’s decade and a half of clinical success to bring you the Global Advantage® Shoulder Arthroplasty System. The Global Advantage Shoulder is the only third generation system that brings together a proximal-filling humeral body and low profile standard and eccentric humeral head options with easy to use instruments.

**NEW FEATURES**
- **Recessed collar**
  - Helps optimize glenohumeral contact area
- **Low profile standard and eccentric humeral heads**
  - Increase articular surface area by 25-33 percent
- **Reduced lateral fin prominence**
- **Medial fin hole**
  - Provides additional fixation opportunities if used for fractures

**PROVEN FEATURES**
- **Proximal-filling body**
  - Proven success in press-fit application
- **Reverse Morse taper locking mechanism**
  - Provides maximum surgical exposure with stem and broach
  - Allows humeral head removal without removing stem
- **Pegged and keeled glenoids**
  - Anatomic mismatch allows natural translation
  - Gas plasma sterilization helps reduce oxidative potential