Assemble what the situation requires.

Platform Shoulder System

No matter what challenges a surgeon may face, the Equinoxe® Shoulder System offers true reversatility. This platform shoulder system enables surgeons to convert from either a primary or fracture stem to a reverse shoulder without stem removal.

Additionally, the use of the same humeral instrumentation and humeral preparation for various indications standardizes the procedure and empowers the surgeon to intra-operatively decide ‘primary vs. reverse’ or ‘hemi vs. reverse.’

Be prepared to handle all of these challenges seamlessly—experience the power of the Equinoxe Shoulder System.
Reverse Shoulder

The Equinoxe Reverse is designed to minimize scapular notching and enhance glenoid fixation. Its components build off the Equinoxe primary and fracture humeral stems, which provides intra-operative flexibility and enables surgeons to convert a well-fixed stem to a reverse without stem removal.

The system offers a wide range of glenoid solutions, designed for challenging bony defects.

**Minimize Scapular Notching**

The Equinoxe Reverse lateralizes the humerus, which better tensions the muscles and addresses the scapular notching challenge, by using larger glenospheres and decreasing the humeral neck angle. The innovative glenoid baseplate design has a built-in offset which distally shifts the glenosphere to a position that prevents humeral liner impingement on the inferior glenoid.

**Enhance Glenoid Fixation**

The press-fit bone cage of the glenoid baseplate provides strong initial fixation, while the baseplate provides up to 30 degrees of angular variability to ensure optimal compression screw placement and purchase, even in poor quality bone. Bone graft can be inserted into the cage to promote bone through-growth, which enhances the probability of long-term biologic fixation. The larger diameter glenospheres result in a medialized center of rotation, thereby minimizing the torque on the glenoid.

**Revision Friendly**

The six screw holes on the baseplate are positioned to provide optimal screw fixation, even when revising a pegged or keeled glenoid to a reverse shoulder. The offset bone cage of the glenoid baseplate is sized and positioned to be placed in the center of the glenoid to fill a central bone defect while distally shifting the glenosphere to ensure inferior overhang.

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**Reported Scapular Notching Rate for Grammont-Style Reverse Shoulder Prosthesis**

- **Scapular Notching Rate**
  - **Glenosphere Notch > Grade 2**
    - **Grammont-Style Prosthesis**: weighted average of 8 studies, n=8683
    - **Equinoxe Reverse**: 7 site multicenter study, n=2261
  - **Notch > Grade 2**: 18.2% vs. 6.7%
  - **Notch > Grade 2**: 20.9% vs. 0%

**7x Reduction in Scapular Notching**

...and no sacrifice of glenoid fixation or stability.
Platform Fracture Stem

The Equinoxe Platform Fracture Stem empowers surgeons to address complex fractures intra-operatively with a hemi or reverse shoulder arthroplasty. The stem reconstructs the patient’s anatomy with a patented anterior-lateral fin and asymmetric tuberosity beds that act as a scaffold to accurately position the greater and lesser tuberosity.

Standardized Reproducible Suture Technique
The Equinoxe suture technique is designed to establish tuberosity fixation and minimize micromotion. The points of contact for the sutures are polished and have rounded edges, allowing surgeons to compress bone fragments for a stable reconstruction.

Patented Anterior-Lateral Offset Fin
The offset anterior-lateral fin, when placed in the bicipital groove, assists the surgeon in correctly establishing retroversion. The fin features multiple holes with rounded edges providing suture versatility.
Fx Plate

The Equinoxe Fx Plate is redefining anatomic fracture reconstruction. The locking plate provides multiple configurations of blades and screws to address a myriad of classifications of proximal humerus fractures. The contoured design allows suture placement and void filler deployment after the plate is secured.

Anatomic. Redefined.

The contoured plate is asymmetric to align with the bicipital groove and greater tuberosity, and tapered distally to respect the deltoid insertion. The suture holes are anatomically oriented, allowing surgeons to pass the suture after the plate is secured to the bone.

Minimize Humeral Head Collapse

Unique modular blades can be inserted to further buttress the reconstruction while locking screws diverge to support the humeral head. The large central hole allows for either a 6.5mm locking screw or deployment of bone-void filler after the plate is secured.

Flexibility

Multiple screw/blade configurations enable a surgeon to treat a spectrum of proximal humeral fractures. Robust instrumentation options are included to address a wide array of surgical technique preferences.
Primary Shoulder

The Equinoxe Shoulder System redefines “anatomical.” The primary shoulder allows the surgeon to replicate a patient’s unique anatomy by independently adjusting the four anatomic parameters in situ.

Patented Replicator Plate

The replicator plate provides in situ adjustment (± 7.5°) for both version and neck angle without the need for trials or back-table assembly.\(^{14-16}\) Two eccentricities (head and replicator plate) provide independent adjustability of both medial and posterior offset to empower the surgeon to anatomically orient the humeral head.\(^{14-16}\)

Intra-operative Flexibility

The primary stem enables surgeons to convert from a total shoulder to a reverse without stem removal.\(^{18}\) Multiple head heights for each diameter provides surgeon flexibility in patients with soft tissue challenges, and the alpha and beta glenoid curvatures enable any head size to be paired with any glenoid size while maintaining an optimal radial mismatch of approximately 5.5mm.\(^{11-13}\)

Augmented glenoid options offer bone preserving solutions for challenging glenoids. The new Cage Glenoid enhances fixation through an interference fit of the plasma coated central cage.

Resurfacing Humeral Head

 Exactech's new Resurfacing Humeral Head offers modularity, anatomic sizing and low profile instrumentation. Its modularity facilitates implantation through a cuff-preserving approach, if desired, leaving the subscapularis essentially intact. Anatomic sizing prevents overstuffing of the joint and aids in restoring the patient’s own unique humeral head anatomy with anatomic sized implants. The cannulated system aids in a seamless transition between surgical steps.
References


7. Animal study on file at Exactech.


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