## EXACTECH| **EXTREMITIES**

**Operative Technique Addendum** 



# equinoxe

Small Reverse Shoulder for Legacy Operative Technique Addendum to Equinoxe Platform Shoulder System



#### TABLE OF CONTENTS

| SYSTEM SPECIFICATIONS                             | 1  |
|---|----|
| OPERATIVETECHNIQUE OVERVIEW                       | 2  |
| DETAILED OPERATIVETECHNIQUE                       |    |
| Indications for Use                               | 3  |
| Contraindications for Use                         | 3  |
| Step A: Approach to Glenoid Drill Guide Placement | 4  |
| Step B: Pilot-Tip Drilling & Reaming              | 5  |
| Step C: Cannulated Drilling & Reaming             |    |
| Step D: Implanting the Small Glenoid Plate        | 10 |
| Step E: Drill and Implant Compression Screws      | 11 |
| Step F:Tighten Locking Caps                       | 13 |
| Step G: Insert Glenosphere Trial or Glenosphere   | 13 |
| REFERENCES  | 18 |

#### NOTE

This document presents an addendum to the Equinoxe Platform Shoulder System operative technique¹ to include the Equinoxe Small Reverse Shoulder devices. For implantation of the Small Reverse with Ergo instrumentation, see the Small Reverse Ergo Shoulder for Operative Technique.²

The Equinoxe Small Reverse implants are inserted using steps similar to those used to insert the standard Equinoxe reverse shoulder glenoid plate and glenospheres. The steps described in this operative technique addendum address the steps specific to the Equinoxe Small Reverse implants and related instrumentation.

Surgeons should be aware the Equinoxe Small Reverse Shoulder baseplates used with this operative technique addendum provide four screw holes, which may limit fixation options as compared to standard Equinoxe baseplates, which provide six.

#### INTRODUCTION

Thank you for considering the Equinoxe® Shoulder System. We have been committed to providing clinical solutions to challenges in shoulder arthroplasty since 2004. The Equinoxe System is unique because of its focus on anatomical replication and options for challenging glenoids and revisions. As a complement to this existing system, we are pleased to present the next generation of our glenoid implants. The Exactech Small Reverse implants were designed through collaboration with thought leaders worldwide; the result is a small baseplate that delivers an anatomic shape, a press-fit bone cage for strong initial fixation, and compatibility with the Equinoxe platform humeral components. It is our pleasure to present the Equinoxe Small Reverse Shoulder operative technique.

Respectfully,

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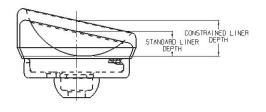
Jae Chul Yoo, MD Sungkyunkwan University

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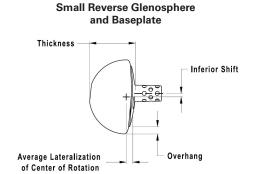
#### **HUMERAL LINER DEPTH COMPARISONS**

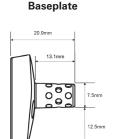
|                      | Standard Liner Depth (+0mm and +2.5mm) | Constrained Liner Depth (+0mm and +2.5mm) |
|----------------------|--|---|
| 36 Humeral<br>Liners | 8.5                                    | 12.0                                      |
| 40 Humeral<br>Liners | 8.6                                    | 12.3                                      |



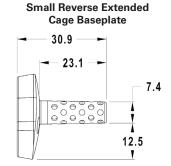
#### **SMALL REVERSE GLENOSPHERE / GLENOID BASEPLATE**

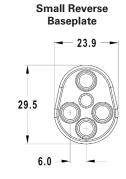
| Part Number | Description                                | Glenosphere<br>Diameter<br>(mm) | Glenosphere<br>Thickness<br>(mm) | Glenosphere<br>Inferior Overhang<br>(mm) | Average Lateralization of Center of Rotation (mm) |
|-------------|--|---------------------------------|----------------------------------|--|---|
| 320-31-36   | 36mm Small Reverse<br>Glenosphere          | 36                              | 22.3                             | 3.5                                      | 2.8   |
| 320-31-40   | 40mm Small Reverse<br>Glenosphere          | 40                              | 24.3                             | 5.0                                      | 2.8   |
| 320-32-36   | 36mm Expanded Small<br>Reverse Glenosphere | 36                              | 26.1                             | 3.0                                      | 6.6   |
| 320-32-40   | 40mm Expanded Small<br>Reverse Glenosphere | 40                              | 28.1                             | 5.0                                      | 6.6   |





**Small Reverse** 

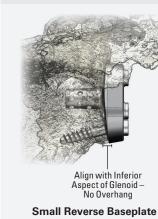




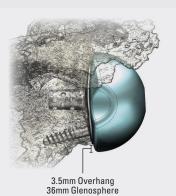
1mm Overhang on Inferior Aspect of Glenoid

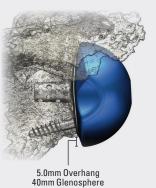
**Standard Baseplate** 

STANDARD RTSA



**SMALL REVERSE RTSA** 





**Small Reverse Glenosphere Overhang** 

Please refer to the Reverse Shoulder section of the Equinoxe Platform Shoulder System Operative Technique<sup>1</sup> for information related to patient positioning, surgical approaches, and the preparation of the humerus (Steps 1-3).

#### OPERATIVE TECHNIQUE OVERVIEW



A2. SUPEROLATERAL APPROACH



**Figure A**Approach to Glenoid Drill Guide Placement

**Figure B**Pilot-Tip Drilling & Reaming







**Figure C**Cannulated Drilling & Reaming

**Figure D**Implanting the Glenoid Plate







Figure F
Tighten Locking Caps



**Figure G**Insert Trial Glenosphere or Glenosphere



The Equinoxe Small Reverse implants are inserted using steps similar to those used to insert the standard Equinoxe reverse shoulder glenoid plate and glenospheres. The steps described in this operative technique addendum address the steps specific to the Equinoxe Small Reverse implants and related instrumentation.

#### **INDICATIONS FOR USE**

The Equinoxe Reverse Shoulder System is indicated for use in skeletally mature individuals with degenerative diseases of the glenohumeral joint and a grossly deficient, irreparable rotator cuff. The Equinoxe Reverse Shoulder is also indicated for a failed glenohumeral joint replacement with loss of rotator cuff function resulting in superior migration of the humeral head.

#### **CONTRAINDICATIONS FOR USE**

Use of the Equinoxe Shoulder System is contraindicated in the following situations:

- Osteomyelitis of the proximal humerus or scapula; if a systemic infection or a secondary remote infection is suspected or confirmed, implantation should be delayed until infection is resolved.
- Inadequate or malformed bone that precludes adequate support or fixation of the prosthesis.
- Neuromuscular disorders that do not allow control of the joint.
- Significant injury to the brachial plexus.
- Non-functional deltoid muscles.
- Patient's age, weight, or activity level would cause the surgeon to expect early failure of the system.
- The patient is unwilling or unable to comply with the post-operative care instructions.
- Alcohol, drug, or other substance abuse.
- Any disease state that could adversely affect the function or longevity of the implant.

#### APPROACH TO GLENOID DRILL GUIDE PLACEMENT







B. SUPEROLATERAL APPROACH

Figure 1
Drill Guide Placement on Glenoid

#### STEP A: APPROACH TO GLENOID DRILL GUIDE PLACEMENT

The Small Reverse Drill Guide Glenoid Baseplate (321-35-20) should be aligned with the inferior glenoid rim to ensure the glenosphere is properly positioned in the superior-inferior position (Figure 1). Attach the Small Reverse Glenoid Baseplate Drill Guide (321-35-20) to the Modular Glenoid Guide Handle (315-52-11) by matching the laser markings on both the Drill Guide and Handle, as shown in Figure 1.

Note: Two handle orientations (Deltopectoral or Superolateral approach) are offered for the two different surgical approaches.

**Note:** See "Preparing the Glenoid" in the Equinoxe Platform Shoulder System Operative Technique<sup>1</sup> for tips on retractor positioning.

**Note:** While the Equinoxe Small Glenoid Plate does not need to be inferiorly tilted or angled, it should not be implanted with a superior tilt. A neutral orientation is ideal.

**PILOT-TIP DRILLING & REAMING** 



Figure 3
Connect Modular Cannulated TriDrive
to Powered Hand Piece



Figure 2
Drill 2mm Pilot Hole through the K-wire Alignment Guide



Figure 4
Connect Modular Reverse Pilot-Tip Reamer to Modular
Cannulated TriDrive

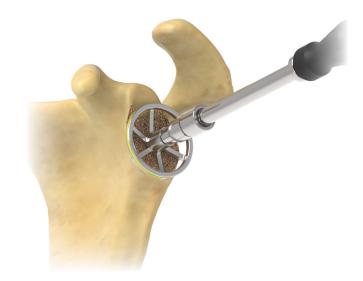
#### **STEP B: PILOT-TIP DRILLING & REAMING**

Pilot-Tip Option: Drill Pilot Hole, Ream the Glenoid, and Drill Small Glenoid Plate Hole

If using the Pilot-Tip Reamers, drill the pilot hole using the 2.0mm Drill Bit (321-15-06 part of kit 321-20-00) through the K-wire Alignment Guide (321-35-10) / Modular Small Glenoid Plate Drill Guide Assembly to create the central

axis for reaming the glenoid (Figure 2). Connect the Modular Cannulated TriDrive (315-25-00) to the powered hand piece using a Jacobs Chuck (Figure 3). Next, connect the Modular Reverse Pilot-Tip Reamer to the Modular Cannulated TriDrive (Figure 4). The Modular Reverse Pilot-Tip Starter Reamer (321-25-01) is provided to aid the surgeon in initial glenoid preparation.

**PILOT-TIP DRILLING & REAMING** 



| Glenosphere for<br>Small Glenoid Plate | Standard<br>Reamer Size | Color of<br>Standard Reamer |
|--|-------------------------|-----------------------------|
| 36mm                                   | 38mm                    | Blue                        |
| 40mm                                   | 42mm                    | Yellow                      |

**Table 1**Standard Reamer Sizes for Small Reverse Shoulder
Glenospheres

Figure 5
Ream the Glenoid

The reamer tip is placed into the drilled pilot hole, and the glenoid is sequentially reamed until any pre-identified glenoid erosions are corrected and the glenoid surface has been fully contoured (*Figure 5*). Reaming begins with the Reverse Shoulder Starter Reamer and progresses to the **Modular Reverse Pilot-Tip Reamers** 38mm and 42mm (321-25-38/42) based upon the anticipated size of the glenosphere. *Table 1* shows the recommended standard reamer size for each Small Reverse glenosphere size. Starter Reamer is 26mm in diameter.

Note: Avoid applying a bending force to the Pilot-Tip Reamer or using the reamer to retract the humeral head as this may cause fracture of the Pilot-Tip.

It is critical to ream to the size of the largest potential glenosphere that the surgeon might use to ensure that the glenosphere will fit on the face of the glenoid without peripheral bony impingement (i.e. the Small Glenoid Plate will already be fixed to the glenoid and upsizing the glenosphere during trialing will not be possible if the corresponding reaming has not already been performed).

SURGICAL TIP

Start the reamer prior to engaging bone.

**PILOT-TIP DRILLING & REAMING** 



Figure 6
Connect Modular Center Peg Drill to Modular
Cannulated TriDrive



Figure 7
Drill Small Glenoid Plate Cage Hole

After reaming has been completed, the inferior aspect of the Modular Small Glenoid Plate Drill Guide is realigned with the inferior aspect of the glenoid. Connect the **Modular Center Peg Drill (315-27-60)** to the Modular Cannulated TriDrive and drill cage hole through the center hole of the Modular Small

Glenoid Plate Drill Guide (Figures 6 and 7). The collar around the Modular Center Peg Drill should be fully seated on the Small Glenoid Plate Drill Guide to ensure the proper depth is drilled for the cage.

**CANNULATED DRILLING & REAMING** 



Figure 8

Align Small Glenoid Plate Drill Guide and K-wire Guide

Assembly on Glenoid



Figure 9
Insert K-wire through K-wire Alignment Guide

#### **STEP C: CANNULATED DRILLING & REAMING**

For the cannulated method, align the inferior aspect of the Modular Small Glenoid Plate Drill Guide with the inferior aspect of the native glenoid bone. Attach the **K-wire** 

**Alignment Guide (321-35-10)** to the Modular Small Glenoid Plate Drill Guide (*Figure 8*). Insert the 0.079 inch K-wire through the assembled guide (*Figure 9*). Remove the guide assembly by sliding it over the inserted K-wire.

**CANNULATED DRILLING & REAMING** 



Figure 10

Connect Modular Reverse Cannulated Reamer to

Modular Cannulated Tridrive



Figure 11
Ream the Glenoid over the K-wire

Connect the appropriately-sized, color-coded **Modular Cannulated Reamer (321-35-01/38/42)** to the Modular Cannulated TriDrive (315-25-00) (*Figure 10*). Reaming begins with the Reverse Shoulder Starter Reamer and progresses to the 38mm and 42mm sizes based upon the anticipated size of the glenosphere (see *Table 1* for reamer size recommendation). Sequentially ream the glenoid over the K-wire until any pre-identified glenoid erosions are corrected

and the glenoid surface has been fully contoured (Figure 11). It is critical to ream to the size of the largest potential glenosphere that the surgeon might use to ensure that the glenosphere will fit on the face of the glenoid without peripheral bony impingement (i.e. the small glenoid plate will already be fixed to the glenoid, and upsizing the glenosphere during trialing will not be possible if the corresponding reaming has not already been performed).



Figure 12
Drill over K-wire with Modular Cannulated Center Peg Drill

Figure 13
Assemble the Small Glenoid Plate with Bone Graft

After reaming over the K-wire, drill over the existing K-wire with the **Modular Cannulated Center Peg Drill (315-27-63)** until the drill collar is fully seated on the Modular Small Glenoid Plate Drill Guide (*Figure 12*). Remove drill and K-wire alignment guide assembly directly over K-wire. Remove K-wire once glenoid preparation is complete.

#### STEP D: IMPLANTING THE SMALL GLENOID PLATE

Prior to implanting the **Small Glenoid Plate (320-35-01)**, there are two options that exist for placing bone graft in the small glenoid plate's cage (*Figure 13*).

- 1) Using the **Glenoid Plate Coring Reamer (321-07-10)** to create a 6mm autograft bone column from the humeral head, or other suitable location as deemed appropriate by the surgeon, and inserting the bone column directly into the cage.
- 2) Placing allograft (e.g., 1cc of either Optecure® with CCC or Optecure® in a syringe) or morselized autograft manually into the cage.

**Note:** Take care to prevent bone graft from getting on the screw-hole threads as this could prevent adequate screw engagement.







Figure 15
Implanted Glenoid Plate

Once the Small Glenoid Plate is ready for insertion, the Small Glenoid Plate is attached to the **Small Glenoid Plate Inserter 321-35-24)**. The Inserter connects to the top half of the Small Glenoid Plate such that the central pin aligns with the threaded central hole and the peripheral pegs connect to the top peripheral holes of the Small Glenoid Plate. The Small Glenoid Plate is press-fit into position taking care to respect the correct rotational orientation (*Figure 14*).

**Note:** When inserting the final implant, keep the inserter pointed up with a hand underneath until the implant is in the wound.

**Note:** Remove inserter by pulling straight back. Do not bend and pull.

#### STEP E: DRILL AND IMPLANT COMPRESSION SCREWS

The four holes on the Small Glenoid Plate provide the surgeon with options to maximize fixation of the Small Glenoid Plate, and each case should be individualized (Figure 15). Using all four (4) screw locations will provide maximum fixation and support of the Small Glenoid Plate.

**DRILL AND IMPLANT COMPRESSION SCREWS** 

| Length (mm) | Diameter (mm) | Color-<br>code |
|-------------|---------------|----------------|
| 18          | 4.5           | White          |
| 22          | 4.5           | Black          |
| 26          | 4.5           | Orange         |
| 30          | 4.5           | Blue           |
| 34          | 4.5           | Red            |
| 38          | 4.5           | Green          |
| 42          | 4.5           | Yellow         |
| 46          | 4.5           | Purple         |

Table 2
Compression Screws



Figure 16
Drilling Pilot Hole for Compression Screw



Figure 17
Compression Screw Insertion

The holes should be drilled using the **Adjustable Angle Drill Guide (321-15-04)** and the **3.2mm Drill (321-15-07 part of 321-20-00)**, taking note of the depth of each hole using either the color-coded drill or the **Glenoid Screw Depth Gauge (321-15-09)** (Figure 16). Each hole on the Small Glenoid Plate allows 20 degrees of angular variability so the orientation of the screws can be selected to maximize bone purchase.

The **4.5mm Compression Screws (Kit #s 320-20-18,22,26,30,34,38,42,46 include standard locking caps)** are provided in lengths between 18mm and 46mm in 4mm increments *(Table 2)*. The appropriately sized Compression

Screws are inserted into the drilled holes to achieve fixation and compression of the Small Glenoid Plate to the glenoid (Figure 17). If power is used to initially insert the screws, caution should be taken to perform the final seating by hand. This will maximize fixation. A **Ratcheting Screw Drive (301-07-80)** is included in the standard Equinoxe instrument set to facilitate the placement and tightening of the screws.

**Note:** The central cage of the glenoid plate limits the angular variability for converging screws.



Figure 18
Standard Locking Cap Insertion



Figure 19
Glenosphere Implant Assembly

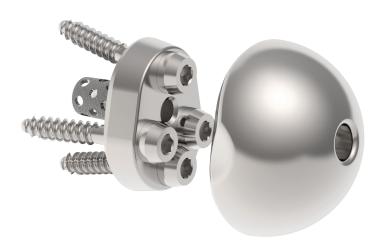
#### **STEP F: TIGHTEN LOCKING CAPS**

After all Compression Screws are tightened by hand as deemed appropriate by the orthopaedic surgeon, the surgeon should insert the Locking Caps (Kit #s 320-20-18,22,26,30,34,38,42,46 include compression screws) into each screw hole. This will lock each Compression Screw and prevent the screws from backing out. Locking Caps are threaded perpendicular to the plate (Figure 18).

#### STEP G: INSERT GLENOSPHERE TRIAL OR GLENOSPHERE

The appropriately sized glenosphere is defined by implanting the largest one that can be inserted based upon exposure and the coracoacromial arch anatomy (ensuring that it was reamed up to that size during the glenoid reaming step). Take note that unlike circular baseplates, the anatomical shape of the Equinoxe Small Glenoid Baseplate mandates that the glenosphere can only fit in one specific orientation. With the exception of the Universal Glenosphere Inserter Clamp (321-01-29), all standard Equinoxe Glenosphere Inserters can be used for insertion of the Small Reverse Glenosphere Trials and Glenospheres (Figure 19).

**INSERT GLENOSPHERE TRIAL OR GLENOSPHERE** 



| Curvature | Color of Trials |
|-----------|-----------------|
| 36mm      | Green           |
| 40mm      | Purple          |

**Table 3**Color-Coding of Trials

For the Small Reverse Shoulder, the Glenosphere Trial and Humeral Liner Trial colors are shown in *Table 3*. See "Inserting the Glenosphere Trial" in the Equinoxe Platform Shoulder System Operative Technique<sup>1</sup> for additional information regarding Glenosphere and Glenosphere Trial insertion instruments and technique.

Please refer to the Reverse Shoulder section of the Equinoxe Platform Shoulder System Operative Technique¹ for information related to the implantation of the humeral components, closure, and post-operative rehabilitation.

#### SURGICAL TIP

Attaining adequate glenoid exposure is critical for this step, especially posterior glenoid exposure. The Posterior Glenoid Retractor included in the set can help provide the posterior clearance necessary to implant the Glenosphere.

### **IMPLANT LISTING**

| CATALOG NUMBER | DESCRIPTION   |     |
|----------------|---|-----|
| 320-20-18      | Compression Screw/Locking Cap Kit, 4.5 x 18mm, White  |     |
| 320-20-22      | Compression Screw/Locking Cap Kit, 4.5 x 22mm, Black  |     |
| 320-20-26      | Compression Screw/Locking Cap Kit, 4.5 x 26mm, Orange |     |
| 320-20-30      | Compression Screw/Locking Cap Kit, 4.5 x 30mm, Blue   |     |
| 320-20-34      | Compression Screw/Locking Cap Kit, 4.5 x 34mm, Red    |     |
| 320-20-38      | Compression Screw/Locking Cap Kit, 4.5 x 38mm, Green  |     |
| 320-20-42      | Compression Screw/Locking Cap Kit, 4.5 x 42mm, Yellow | 100 |
| 320-20-46      | Compression Screw/Locking Cap Kit, 4.5 x 46mm, Purple |     |
| 320-31-36      | Small Reverse Glenosphere, 36mm                       |     |
| 320-31-40      | Small Reverse Glenosphere, 40mm                       |     |
| 020 01 10      | ornali riorete dierioopriere, remini                  |     |
| 320-32-36      | Small Reverse Expanded Glenosphere, 36mm              |     |
| 320-32-40      | Small Reverse Expanded Glenosphere, 40mm              |     |
| 320-35-01      | Small Reverse Glenoid Baseplate                       |     |
| 320-36-00      | Small Reverse Humeral Liner, 36mm, +0                 |     |
| 320-36-03      | Small Reverse Humeral Liner, 36mm, +2.5mm             |     |
| 320-36-10      | Small Reverse Humeral Liner, 36mm, +0mm Constrained   |     |
| 320-36-13      | Small Reverse Humeral Liner, 36mm, +2.5mm Constrained |     |
|                | ,               |     |
| 320-40-00      | Small Reverse Humeral Liner, 40mm, +0                 |     |
| 320-40-03      | Small Reverse Humeral Liner, 40mm, +2.5               |     |
| 320-40-10      | Small Reverse Humeral Liner, 40mm, +0 Constrained     |     |
|                |   |     |

Small Reverse Humeral Liner, 40mm, +2.5 Constrained

320-40-13

#### **INSTRUMENT LISTING**

#### CATALOG NUMBER DESCRIPTION

| 315-52-11  | Modular Glenoid Guide Handle   | <b></b>           |
|--|--|-------------------|
| 321-35-20  | Small Reverse Drill Guide Glenoid Baseplate  | SMALL DRILL GUIDE |
| 321-09-36  | Humeral Liner Impactor Tip, 36mm   |                   |
| 321-09-40  | Humeral Liner Impactor Tip, 40mm   |                   |
| 321-35-10  | Small Reverse K-wire Alignment Guide   |                   |
| 321-35-24  | Small Reverse Inserter Glenoid Baseplate   |                   |
| 321-31-36<br>321-32-36                           | Small Reverse Glenosphere Trial, 36mm<br>Small Reverse Glenosphere Trial, 36mm Expanded*   |                   |
| 321-31-40<br>321-32-40                           | Small Reverse Glenosphere Trial, 40mm<br>Small Reverse Glenosphere Trial, 40mm Expanded*   |                   |
| 321-36-00<br>321-36-03<br>321-36-10<br>321-36-13 | Small Reverse Humeral Liner Trial, 36mm, +0<br>Small Reverse Humeral Liner Trial, 36mm, +2.5<br>Small Reverse Humeral Liner Trial, 36mm, +0, Constrained<br>Small Reverse Humeral Liner Trial, 36mm, +2.5, Constrained |                   |
| 321-40-00<br>321-40-03<br>321-40-10<br>321-40-13 | Small Reverse Humeral Liner Trial, 40mm, +0<br>Small Reverse Humeral Liner Trial, 40mm, +2.5<br>Small Reverse Humeral Liner Trial, 40mm, +0, Constrained<br>Small Reverse Humeral Liner Trial, 40mm, +2.5, Constrained |                   |

<sup>\* =</sup> Small Reverse Expanded Glenospheres are not in the Ergo Trays, please order OPT-321SMEXPAND.

| NOTES |  |
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#### REFERENCES

- 1. 718-01-30 Rev J, Platform Shoulder System Operative Technique
- 2. 12-0001666 Equinoxe Small Reverse Shoulder for Ergo Operative Technique Addendum

For additional device information, refer to the Equinoxe Platform Shoulder System—Instructions for Use for a device description, indications, contraindications, precautions and warnings. For further product information, please contact Customer Service, Exactech, 2320 NW 66th Court, Gainesville, Florida 32653-1630, USA. (352) 377-1140, (800) 392-2832 or FAX (352) 378-2617.

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