

**Guided Personalized Surgery**

PRECISION  
AND  
ACCURACY  
FOR **YOUR** ●  
SHOULDER  
REPLACEMENT  
SURGERY

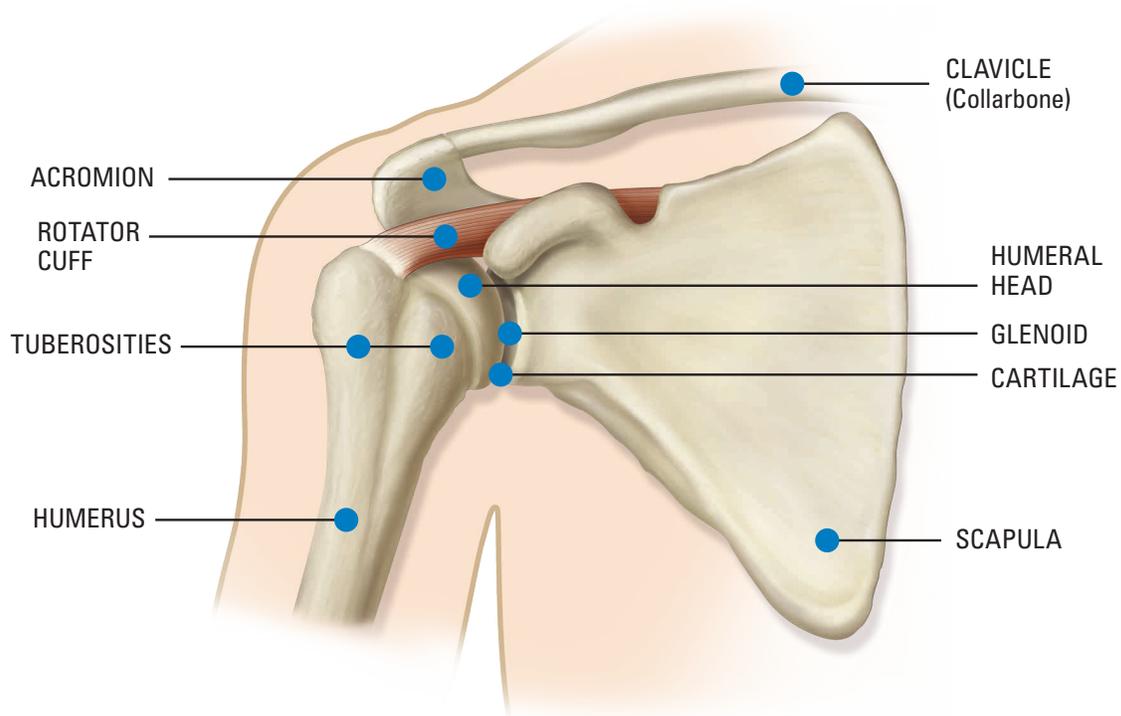




## EXACTECHGPS<sup>®</sup> GUIDED PERSONALIZED SURGERY

ExactechGPS<sup>®</sup> Guided Personalized Surgery is the latest advancement in technology that provides surgeons with real-time visual guidance in total shoulder surgery. This advanced platform combines surgeon expertise with a computer system to perform your shoulder surgery with a goal of advanced accuracy and precision, allowing for simple adjustments, minimally invasive techniques and implant alignment personalized to your unique anatomy.





## TOTAL SHOULDER REPLACEMENT

We don't have to tell you how debilitating joint pain can be, not to mention how it can make you feel.

The shoulder joint is similar to a ball-and-socket joint but more closely resembles a golf ball on a tee. The rotator cuff provides the stability – keeping the golf ball on the tee. Unfortunately, a healthy shoulder can sometimes be damaged by disease, such as arthritis, or injury. This can result in severe pain, pseudoparalysis (false paralysis) and muscle weakness.

Shoulder replacement surgery replaces the damaged part of your shoulder to recreate the natural contours of the bones in a healthy shoulder.

# WHAT IS TOTAL SHOULDER REPLACEMENT?

## Primary Shoulder Replacement

Shoulder replacement surgery replaces the damaged part of your shoulder to mimic the natural contours of the bones in a healthy shoulder.

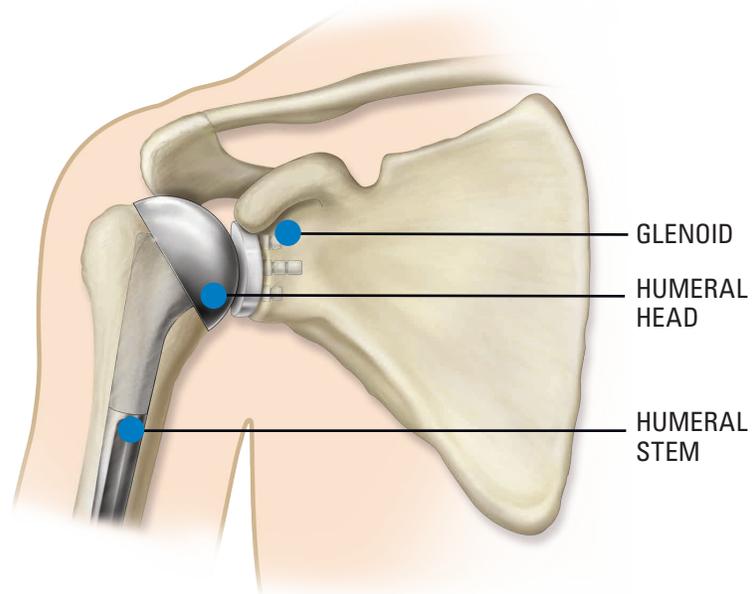
Sometimes, only the ball is replaced (hemiarthroplasty), while other times, both the ball and socket are replaced (total shoulder arthroplasty). The ball is metal and the socket is plastic.



PRE-OP PRIMARY



POST-OP PRIMARY

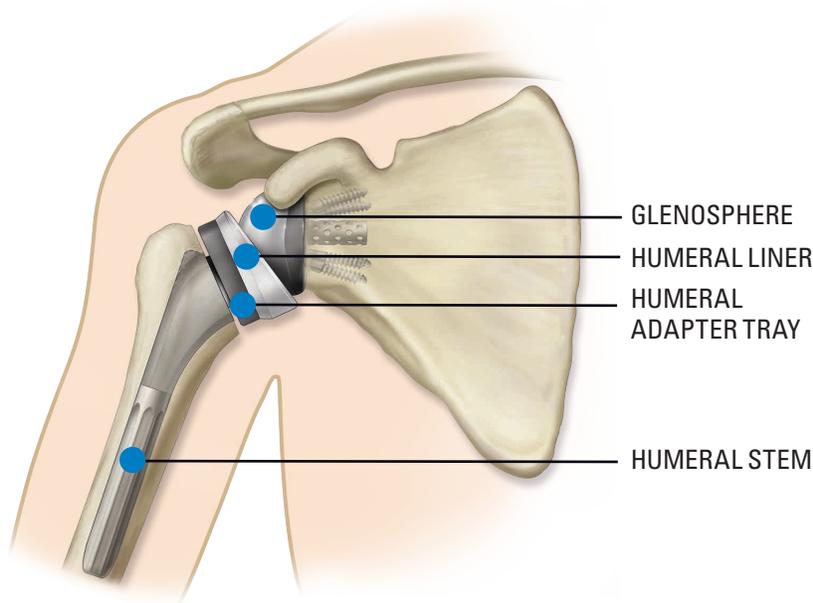


During surgery, an incision is made in the front of the shoulder. Once your surgeon exposes your shoulder joint, the surgeon will remove the damaged bone and cartilage. The head of the humerus is then removed and a metal stem is placed into the humeral canal. This provides a stabilizing anchor for the head.

## Reverse Shoulder Replacement

If you have an irreparable rotator cuff tear and arthritis, your surgeon may opt to perform a reverse shoulder replacement.

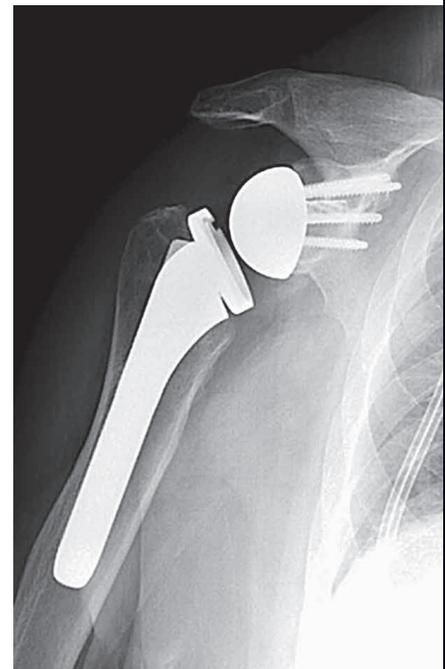
The rotator cuff is a group of muscles and tendons that surround the shoulder in order to keep the humerus centered while performing shoulder-related tasks such as lifting the arm. When the rotator cuff tears, the muscles lose their ability to keep the humerus centered on the glenoid, causing your humerus to move upward and out of the socket. This instability, combined with arthritis or a previous shoulder injury, can cause severe pain and loss of function.



In this procedure, the anatomy of the shoulder is reversed by attaching a metal ball (glenosphere) to the glenoid and the plastic socket (humeral liner) to the upper humerus. A reverse shoulder replacement empowers your deltoid to become the main functioning muscle in the absence of a healthy rotator cuff.



PRE-OP REVERSE



POST-OP REVERSE

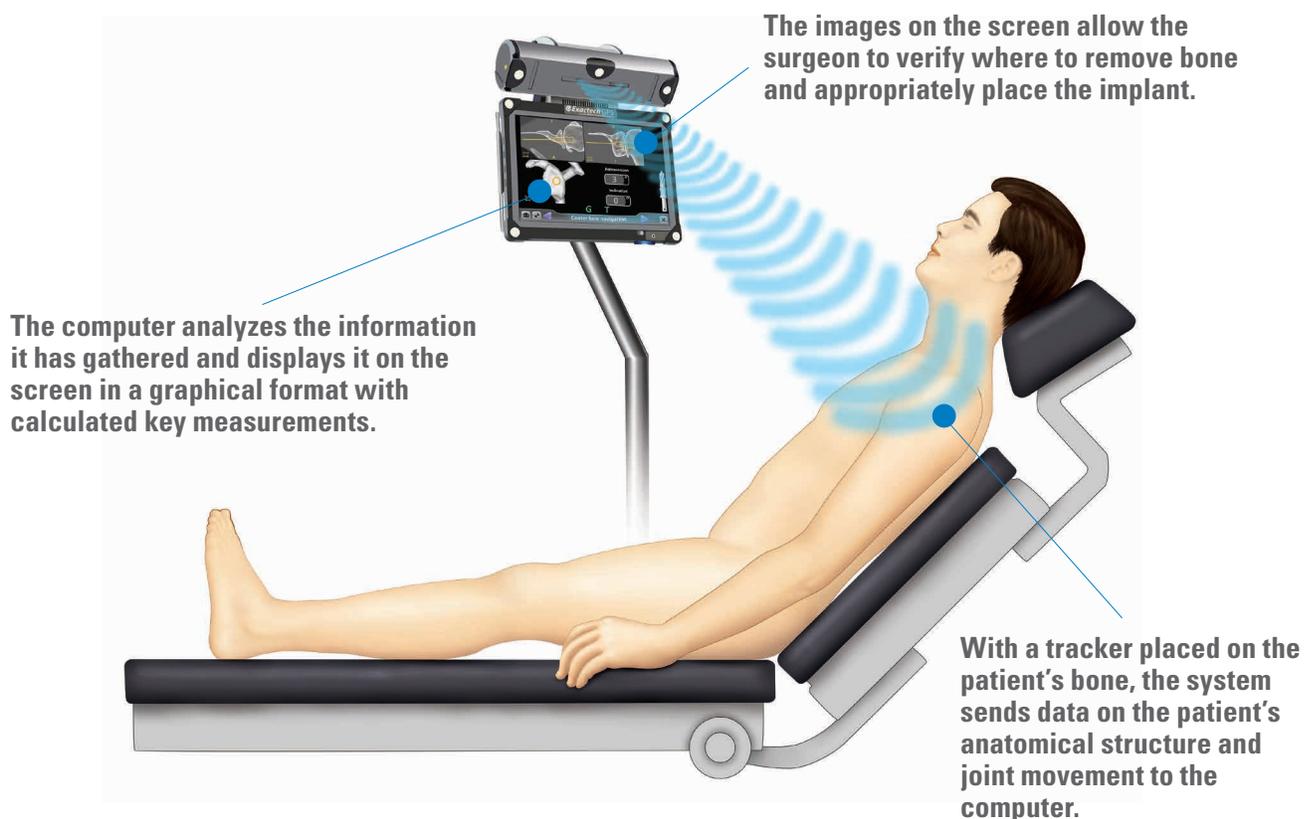
# YOUR SHOULDER REQUIRES A UNIQUE ROAD MAP

ExactechGPS pairs surgeon expertise with an advanced computer system to perform the patient's shoulder surgery with a goal of improved accuracy and precision.

The ExactechGPS Shoulder Application's preoperative planning tool is designed to help surgeons understand their patient's anatomy prior to surgery and plan the surgery through a virtual simulation.

Surgeons can then execute their plan in real time during the surgery based on a 3-D anatomical model of the patient's shoulder, making adjustments as needed. This unique technology gives greater visibility to the shoulder anatomy, allowing for more consistent and accurate implant placement.<sup>1</sup>

## How Does Guided Personalized Surgery Work?



# WHAT IMPLANT WILL MY SURGEON USE?

There are plenty of options when it comes to shoulder replacement implants, but nothing compares to feeling confident with a shoulder implant that is designed to fit you.

The Equinnox Shoulder System has demonstrated excellent biomechanics and outcomes in its more than 10 years of use, as proven by more than 80 peer-reviewed clinical studies.

## The Exactech Shoulder System

It is widely recognized that quality design and materials contribute to longevity and function when it comes to total joint implants.

The platform system allows conversion of a primary or fracture shoulder replacement to a reverse without the need to remove the already well-fixed stem.

### The high-quality implants are designed to:

- Help match each individual patient's bone structure
- Preserve a patient's natural anatomy
- Work in a variety of procedures
- Address unique clinical challenges



# WHY EXACTECH IMPLANTS ARE RIGHT FOR YOU

Your surgeon will consider a wide variety of variables when selecting the shoulder implant that's right for you. Your age, height, weight, lifestyle and your general health are among the most important factors. The Equinox Shoulder System is designed to accommodate these and other variations in anatomy.

This information is for educational purposes only and is not intended to replace the expert guidance of your orthopaedic surgeon. Please direct any questions or concerns you may have to your orthopaedic surgeon.

ExactechGPS® is manufactured by Blue Ortho® and distributed by Exactech.

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## References

1. Data on file at Exactech.

For more information  
[www.ExactechGPS.com](http://www.ExactechGPS.com)