

# Blueprint<sup>®</sup>

## Elevating shoulder arthroplasty



# Elevated by Blueprint

Blueprint is a surgeon-controlled 3D planning software for shoulder arthroplasty cases, from an AI glenoid to a revision case, and everything in between. Whether you're just starting out, aren't seeing many shoulder replacements, or are a shoulder expert, Blueprint aids your clinical decision making. Together, with an industry leader and backed by a clinically proficient sales force and a team of experts, Blueprint makes it possible to visualize and plan your cases in a new way.



## The power of planning

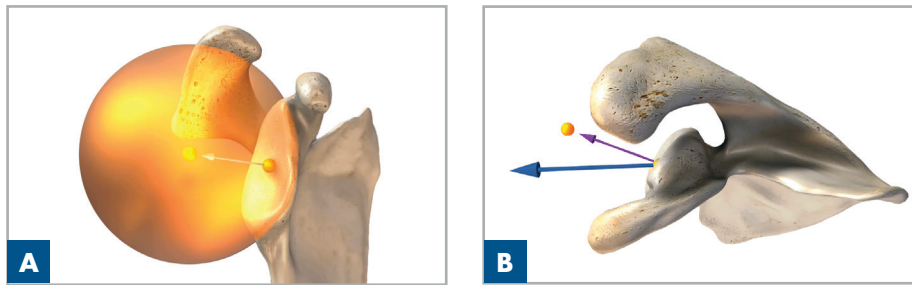
Blueprint helps surgeons better understand glenoid, humeral and soft tissue deformities while learning their patients' pathology<sup>1</sup>, anticipating challenges and evaluating the range of implant types that could be used before walking into the OR.



# Primary planning

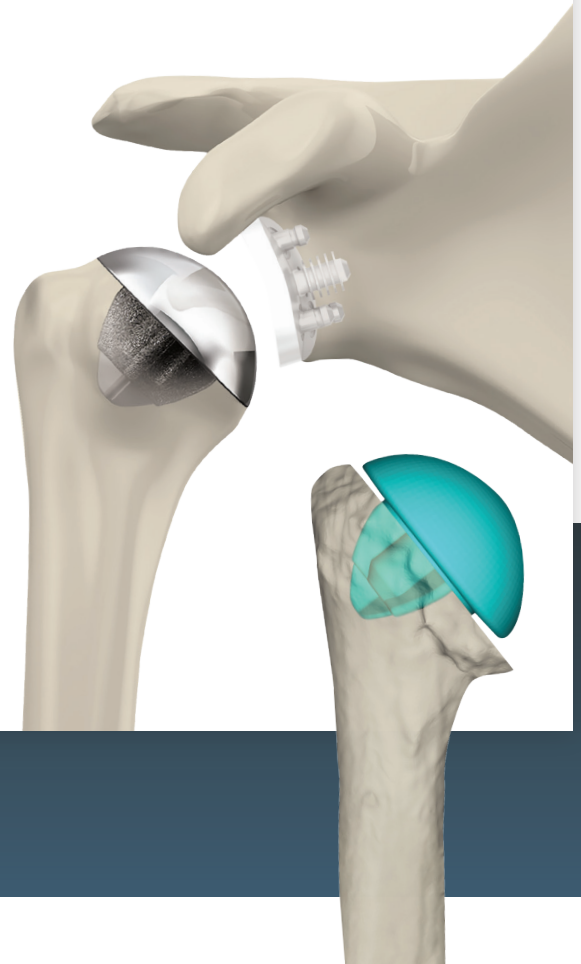
## Reproducible 3D virtual implantation

Blueprint's automated 3D measurements\* have been proven to be both precise and reproducible.<sup>1</sup> For primary shoulder cases, Blueprint is not dependent on third party manual segmentation or reference point selection, measurements and reconstructions are independent of surgeon experience.<sup>1</sup>



Blueprint uses thousands of data points from the glenoid face and scapular body to create a best fit glenoid sphere, (A) automatically calculate glenoid version and inclination (B).<sup>1</sup>

Planning in Blueprint allows you to select implant type, size and position virtually. Easily switch between an anatomic or reverse procedure and choose which Wright/Tornier shoulder implant is best for your patient. In either procedure, when the entire scapula is used as a reference, glenoid vault perforation is less frequent and implant accuracy is improved.<sup>1</sup>

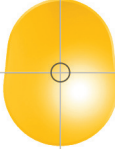
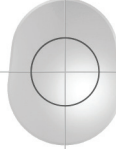
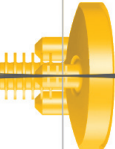
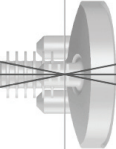




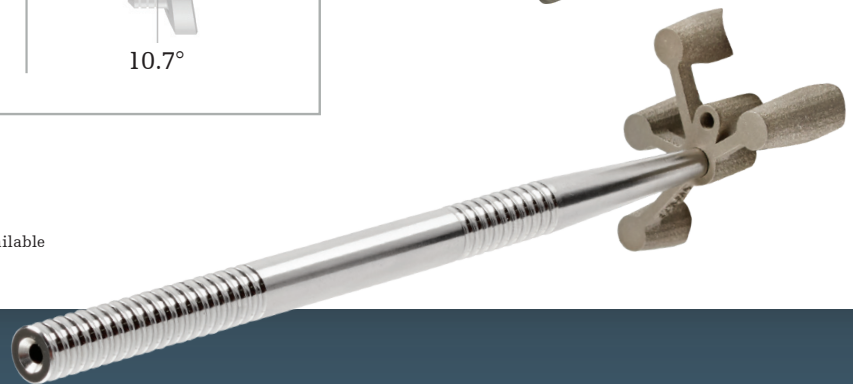
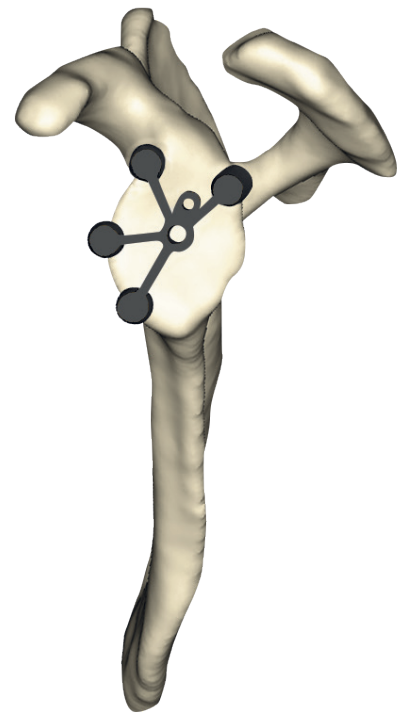
\*Automated measurements and PSI are currently unavailable for revisions and complex primaries.

# Patient-specific accuracy

## Glenoid guide

Using a Blueprint patient-specific instrumentation (PSI)\* glenoid guide enables the surgeon to more accurately position the glenoid implant and replicate the pre-operative surgical plan compared to standard techniques.<sup>1,2</sup> Patient-specific instrumentation guides can be manufactured and delivered in as little as two weeks.

	<b>Blueprint</b>	<b>Standard instrumentation</b>
<b>Entry point</b>	 1.05 mm	 2.9 mm
<b>Version</b>	 1.64°	 11.1°
<b>Inclination</b>	 1.42°	 10.7°



\*Automated measurements and PSI are currently unavailable for revisions and complex primaries.



# Revision planning

## What's your plan?

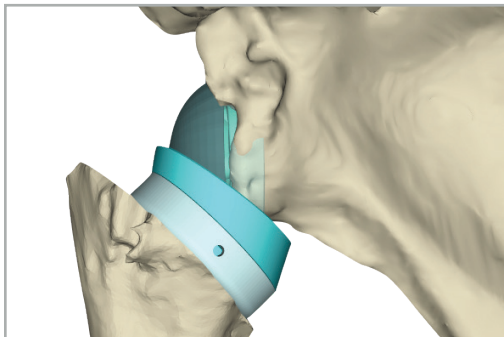
Planning for a challenging shoulder case is as unique as a patient's anatomy. Elevate even your complex shoulder arthroplasty cases with digitally driven hardware, designed with you in mind.



# Plan optimization

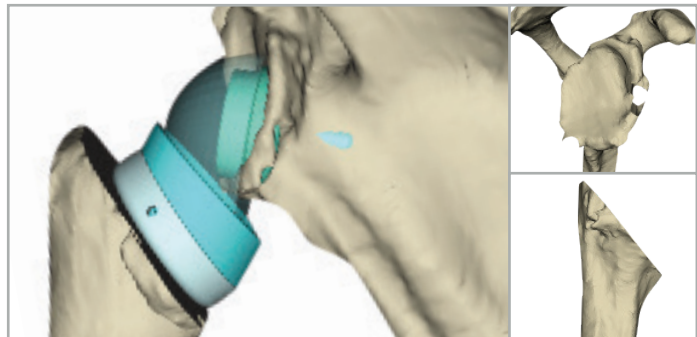
Blueprint generates a real-time glimpse into how factors such as implant selection, placement and osteoarthritic osteophytes may affect post-operative ROM.<sup>1</sup>

## 1. ROM and boney impingement identification



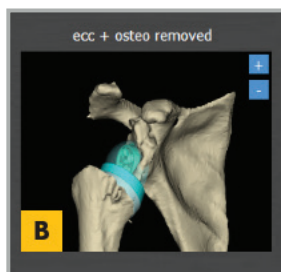
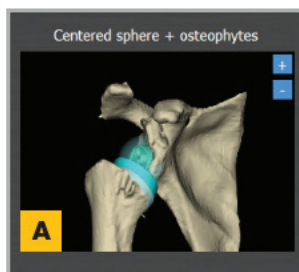
For all primary reverse procedures, Blueprint measures post-operative ROM values based off surgeon implant selection and positioning.

## 2. Modify plan



Modify your plan using the Blueprint's osteophyte removal tool and eccentric baseplates to achieve greater ROM measurements.

## 3. Optimize plan



Prosthesis Configuration		
Glenoid implant type	PERFORM Reversed	PERFORM Reversed
Humerus implant type	FLEX Reversed	FLEX Reversed
ROM Values		
Adduction	12°	24°
Abduction	77°	83°
Extension	36°	120°
Flexion	39°	70°
Internal Rotation 0°	44°	79°
External Rotation 0°	49°	75°

Blueprint allows for comparison of up to three plans side-by-side to identify which implant combinations increase postoperative ROM.

## References

1. Gilles Walch, MD, Peter S. Vereridis, MD, Pascal Boileau, MD, Pierric Deransart, M. Eng, Jean Chaoui, PhD. Three-dimensional planning and use of patient-specific guides improve glenoid component position: an in vitro study.
2. Joseph Iannotti, MD, PhD, Justin Baker, PhD, Eric Rodriguez, BS, John Brems, MD, Eric Ricchetti, MD, Mena Mesiha, MD, and Jason Bryon, MS. Three-dimensional preoperative planning and a novel information transfer technology improve glenoid component positioning.

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