

TORNIER BLUEPRINT™

3D Planning + PSI



THE VALUE OF BLUEPRINT™

BLUEPRINT™ 3D Planning + PSI

BLUEPRINT™ 3D Planning + PSI is a surgeon controlled, automated, 3D pre-operative planning software with optional patient specific instrumentation.¹ BLUEPRINT allows surgeons to perform real-time, precise virtual surgery for added confidence prior to stepping foot in the O.R. By merging software with implant designs, clinical outcomes, artificial intelligence and augmented reality, BLUEPRINT is just getting started changing the future of shoulder arthroplasty.

The BLUEPRINT Advantage



Precise and Reproducible 3D Measurements

Automated 3D reconstruction
and measurement calculations

Enabling Accurate Glenoid Positioning

A critical component of
glenoid implant longevity

Improved Decision Making

Better understand glenoid,
humeral and soft tissue deformities

Available at No Additional Cost*

Part of the enhanced Wright
Medical service offering

We invite you to experience our industry altering software technology.

*BLUEPRINT access dependent upon account-specific factors.

Precise and Reproducible 3D Measurements

Automated 3D Reconstruction and Measurement Calculations

BLUEPRINT's automated 3D measurements have been proven to be both *precise* and *reproducible*, showing excellent correlation to manual or semi-manual methods.¹

PRECISE

More accurate measurements of glenoid version and inclination.¹

- » In one study, 3D planning showed more accurate measurements of glenoid version in half the cases studied.^{1,2,3,4}
- » Studies show that 2D evaluation under-estimates glenoid retroversion up to 15° in A1 and B2 glenoids compared to 3D measurements.^{2,5,6}

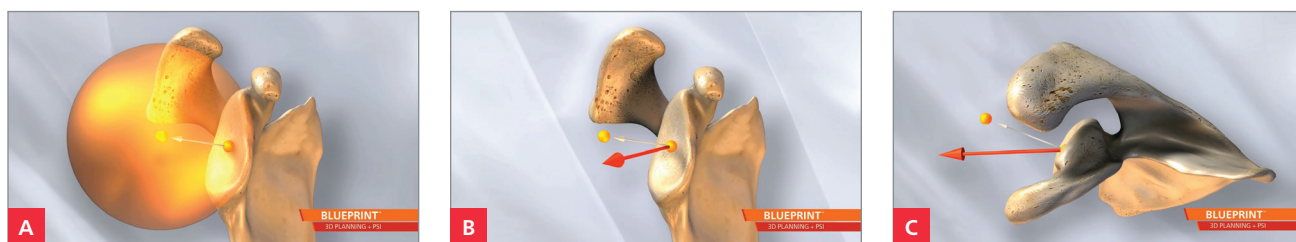


FIGURE 1. BLUEPRINT uses thousands of data points from the glenoid face and scapular body to create a best fit glenoid sphere, (A) automatically calculate glenoid version (B) and inclination (C).¹

REPRODUCIBLE

Computer-assisted planning has been shown to increase intraoperative re-creation of the pre-operative plan.⁴

- » Fully automated anatomical measurements eliminate interobserver and intraobserver discrepancies.¹
- » BLUEPRINT is not dependent on third party manual segmentation or reference point selection.
- » 3D reconstruction is independent of patient gantry angle.
- » BLUEPRINT's 3D measurements and reconstructions are independent of surgeon experience.¹

Improved Decision Making

Better Understand Glenoid, Humeral and Soft Tissue Deformities

BLUEPRINT provides the necessary tools for surgeons to understand patient pathology, anticipate intraoperative challenges and evaluate the range of implant types that could be used.¹

3-D CONSTRUCT VISUALIZATION

Understanding the patient's anatomy before the case with 3D landmarks

- » Planning with BLUEPRINT has been shown to change the choice of implant between anatomic and reversed in 14% of cases.⁴
- » BLUEPRINT allows for easier identification of Walch Glenoid types to help facilitate diagnoses and implant selection.⁹

Sagittal CT views allow for visualization of fatty infiltration of the rotator cuff

- » RTC muscle fatty infiltration was found to be associated with post-operative humeral head subluxation, glenoid loosening and worse long-term clinical outcomes after anatomic TSA.¹⁰

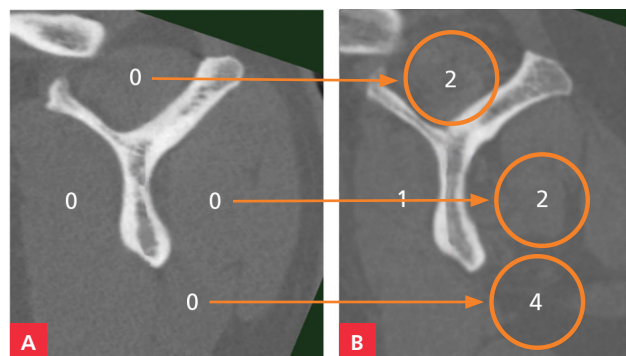


FIGURE 2. Progression of fatty infiltration in rotator cuff muscles can be seen moving from image A to B.¹⁰

3-D VIRTUAL IMPLANTATION

Selecting the projected implant size and position.

- » BLUEPRINT allows surgeons to potentially save critical O.R. time by eliminating intraoperative sizing steps.¹

Avoidance of vault perforation and reduction in bone removal.^{11,12,13}

- » When the entire scapula is used as a reference, glenoid vault perforation is less frequent and implant accuracy is improved.¹¹

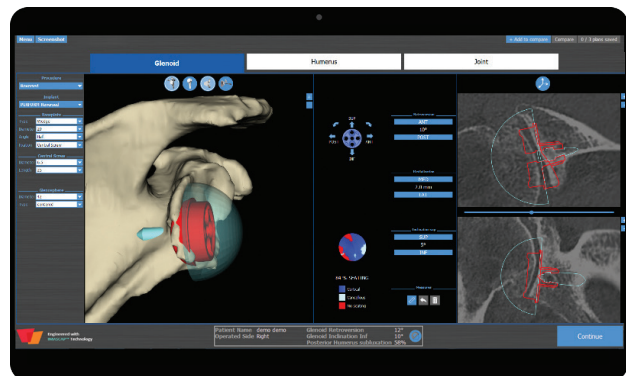


FIGURE 3. BLUEPRINT allows for proper positioning of the implant to avoid vault perforation and minimize reaming.

PLAN OPTIMIZATION

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

ROM and Boney Impingement Identification



FIGURE 4. For all primary reverse procedures, BLUEPRINT measures post-operative ROM values based off surgeon implant selection and positioning.

Modify Plan

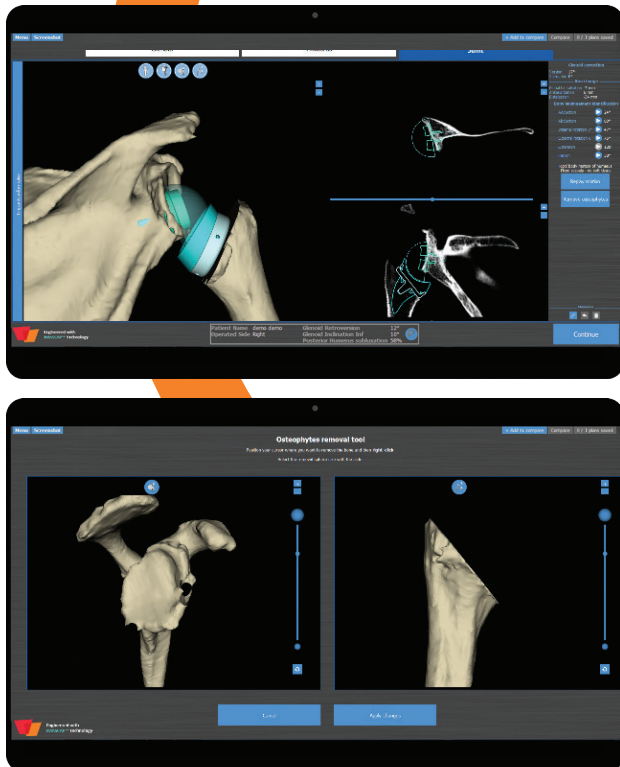


FIGURE 5. Modify your plan using the BLUEPRINT's osteophyte removal tool and eccentric baseplates to achieve greater ROM measurements.

Optimize Plan

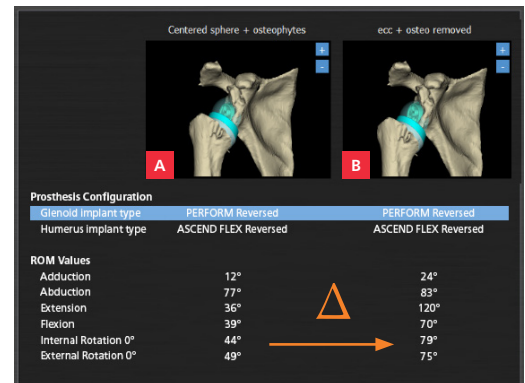


FIGURE 6. BLUEPRINT allows for comparison of up to three plans side-by-side to identify which implant combinations increase postoperative ROM.

Enabling Accurate Glenoid Positioning

A Critical Component of Glenoid Implant Longevity

BLUEPRINT 3D Planning + PSI has been shown to improve the accuracy of glenoid component positioning and preserve bone.¹⁵

- » Excessive reaming has been shown to decrease implant survivorship.^{12,15}
- » BLUEPRINT helps surgeons visualize advanced glenoid deformities and preserve critical subchondral bone for increased survivorship.⁹
- » BLUEPRINT allows surgeons to quantify, position the glenoid implant and avoid glenoid vault perforation.¹⁵

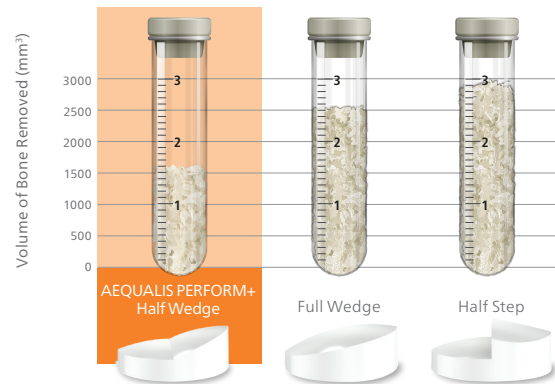


FIGURE 7. Wright medical implants, combined with BLUEPRINT; help to preserve critical subchondral bone for increased survivorship.

BLUEPRINT patient-specific instrumentation precisely transfers the pre-operative plan to the O.R. and optimizes glenoid placement for the correction of version and inclination.^{14,16,15,17}

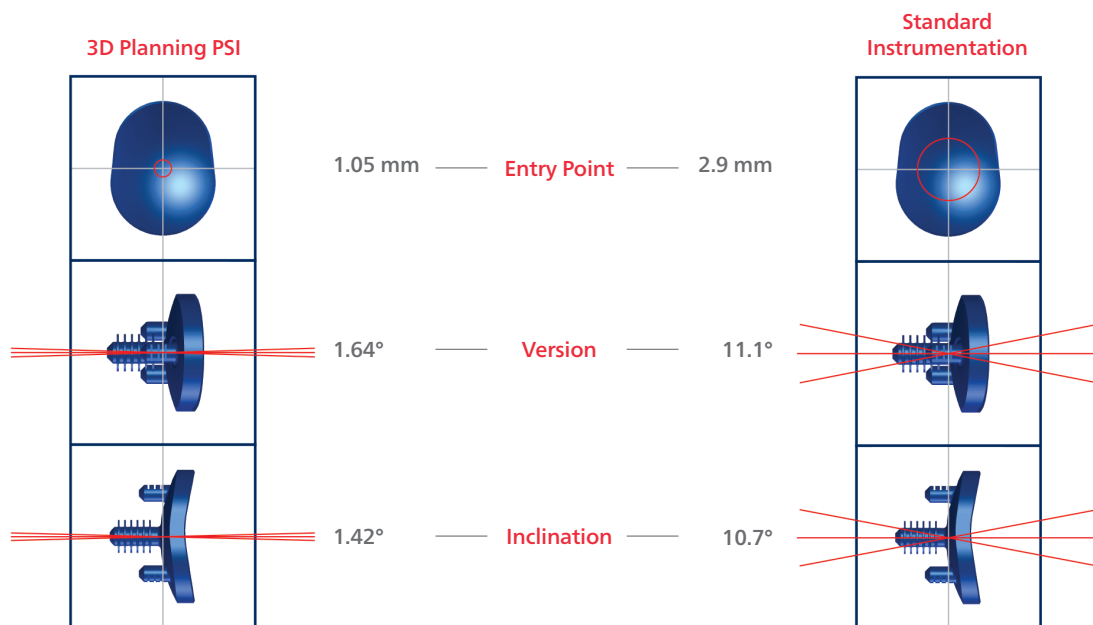


FIGURE 8. BLUEPRINT PSI more accurately replicates guide entry point, version and inclination than standard instrumentation.

Available at No Additional Cost*

Part of the Enhanced Wright Medical Service Offering

Wright Medical understands how valuable O.R. time is and is focused on increasing efficiency through cutting-edge technological innovation.

BLUEPRINT is available at *no additional cost* for each primary Wright Medical shoulder arthroplasty case.

BLUEPRINT provides the potential for *time savings*.

- » Pre-operatively planning eliminates intra-operative sizing steps.
- » BLUEPRINT enables higher pre-operative confidence, potentially leading to minimized excess kit shipping and sterilization costs as well as O.R. setup time.



*BLUEPRINT access dependent upon account-specific factors.

The Wright Support Advantage

Wright Medical is the world's leading global medical technology company focused exclusively on developing extremity and biologic solutions. We believe that this clear focus allows us to collaborate with our surgeon partners to make patient outcomes easier. Wright has a variety of support options in place to help enhance our vision of making outcomes easier. These support programs include:



MEDICAL EDUCATION

Whether it is listening to one of our world-renowned faculty surgeons speak on the latest trends in shoulder arthroplasty, observing a BLUEPRINT™ case demonstration, or attending a hands-on training course, Wright Medical has programs designed to support our customer's educational needs.

FIELD MARKETING SUPPORT

A dedicated field marketing team has been implemented to help facilitate CT scan center onboarding, educating hospital staff, case planning and supporting BLUEPRINT™ shoulder arthroplasty cases.



SPECIALIZED SALES FORCE

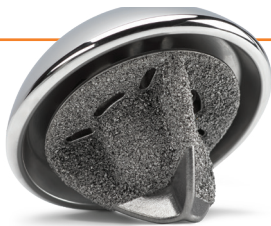
A clinically driven, specialized shoulder arthroplasty sales force has been trained to provide the best service in the orthopedic industry. From supporting cases to helping educate surgical/hospital staff, our sales force is here to support you in every step of the process.

Wright. Making Better Outcomes Easier.

Wright Medical is a global medical technology company focused exclusively on extremity and biologic solutions. At Wright Medical, we are focused on delivering innovative and value-added solutions that make better clinical outcomes easier. As a recognized leader of surgical solutions in three of the fastest growing orthopedic market segments (upper extremities, lower extremities and biologics), we are uniquely positioned to provide products and services that improve the quality of life for your patients worldwide.

AEQUALIS ASCEND™ FLEX Convertible Shoulder System

Through its proximal fixation design, the AEQUALIS ASCEND™ FLEX Convertible Shoulder system addresses the need for simplified anatomic reconstruction and revision. This convertible shoulder system has the capability to convert directly to a reverse shoulder without removing the stem to allow for leading bone preservation.



SIMPLICITI™ Shoulder System

The SIMPLICITI™ shoulder system takes bone-preservation to the next level. This canal-sparing humeral prosthesis was built on the philosophy of bone preservation for simplified anatomic reconstructions and ease of revision.

AEQUALIS™ PERFORM™ Shoulder System

Proper glenoid component placement that matches native glenoid anatomy and preserves bone are key contributing factors to increase glenoid component survivorship.* AEQUALIS™ PERFORM™ helps to preserve bone and match patient anatomy by:

- Multiple backside radius of curvatures for each implant size.
- Reduce glenoid reaming through proper selection of the implant size and reamers.



AEQUALIS™ PERFORM™ + Shoulder System

The AEQUALIS™ PERFORM™ + Shoulder System is designed with defect mimicking augmentation to restore the joint line, correct glenoid version and preserve bone for the most challenging glenoid morphologies.

AEQUALIS™ PERFORM™ REVERSED Glenoid

Designed to address cuff tear arthropathy and osteoarthritis, AEQUALIS™ PERFORM™ REVERSED Glenoid mimics Walch and Sirveaux glenoid defects to address bone loss. AEQUALIS™ PERFORM™ REVERSED Glenoid is designed with ADAPTIS™ Integrated Porous Metal for bony ingrowth and fixated with an independent central screw and additional peripheral screws to make an extremely durable construct.



*G. Walch, MD; et al Patterns of Loosening of Polyethylene Keeled Glenoid Components After Shoulder Arthroplasty for Primary Osteoarthritis. J Bone Joint Surg Am. 2012; 94: 145-150.

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Tornier Data on File



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