PSI Shoulder
for Total and Reverse Shoulder Arthroplasty
Visualize Success

From preoperative planning to intraoperative guidance, PSI Shoulder delivers a set of tools for you to customize and implement your surgical strategy for each patient, to offer each individual their best chance for lasting satisfaction.


Mastery of the glenoid is what makes a good shoulder surgeon great. PSI Shoulder demystifies the glenoid and puts you in complete control. Surgeons using Zimmer® PSI Shoulder comment that PSI helps them to visualize success and make better-informed decisions. We keep hearing: “PSI Shoulder is making me a better surgeon.”
Each glenoid is unique...
From seemingly simple to highly complex

**Small Glenoids**
For small glenoids, you want to **maximize the use of limited bone**, optimize coverage, and find the optimal implant location within the glenoid vault.

**Retroverted Glenoid**
For asymmetric glenoid wear, you can determine the degree of correction while conserving bone, and **avoid being misled** by the glenoid face.

**Eroded Glenoid**
In a severely worn glenoid, assessment of the defect in 3D can help you develop and execute a plan to **manage a challenging case**.
Restore Natural Anatomy in a Total Shoulder

Now compatible with all sizes of Zimmer Bigliani/Flatow® pegged, keeled, and Trabecular Metal™ Glenoid implants, PSI Shoulder offers preoperative planning and intraoperative instrument guidance in conjunction with some of the most reliable total shoulder implants on the market.¹,²

The Right Implant
PSI helps you choose the implant style and size that best fits your patient’s anatomy.

In the Right Place
PSI gives you 3D visualization and guidance of implant position, version and inclination, and reaming.

Bone Preparation
PSI shows you the bone preparation to help you avoid backside perforation for cemented applications.

Behind the Scenes
Visualize how your implant will engage within the glenoid vault. Assess glenoid coverage, contact area and reaming requirements to achieve your plan while preserving native support bone.
**PSI Shoulder helps you visualize success.**

The process is simple. Based on your instructions during preoperative planning, a glenoid bone model and a series of patient-specific instrument guides are prepared. Your choices regarding implant position, glenoid reaming, and fixation come to life.
**Employing Technology in a Reverse Shoulder**

Since 2013, Zimmer PSI Shoulder has assisted hundreds of surgeons with their Reverse Shoulder cases. When used in conjunction with Trabecular Metal material for biologic ingrowth and Vivacit-E® HXPE for durability, you offer your patients an exceptional implant design, materials and instrument guidance for their reverse shoulder arthroplasty.

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**Optimize Stability**

PSI helps you position the implant where you planned to minimize shear forces and avoid superior tilt.

**Maximize Fixation**

PSI planning and guidance of screws enables you to place longer screws into solid bone.

**Avoid Scapular Notching**

You can adjust positioning during planning to minimize risk of impingement.

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**RSA – Transverse Plane**

**Planned Reaming**

**“Backstage” View**
Improved accuracy of implant positioning has been demonstrated with PSI Shoulder, when compared with conventional instrumentation.8

Reduce Malposition
10 degrees of positioning error can be clinically significant.10,11 PSI can help you reduce or eliminate these outliers.

Nail your Screws
Increased screw accuracy enables you to optimize both initial and long-term fixation.
References

1. Australian Joint Registry, 2014 Annual report, Page 48, Table ST39: Revision Rates of Primary Total Conventional Shoulder Replacement by Humeral Stem and Glenoid


Aggregate analysis of cadaver studies (1) included 29 shoulders using Patient Specific Instrumentation. The Shoulder Planner was used in all cases. The accuracy is defined as the absolute difference in angle between pre-operative planning and post-operative CT measurements.

Bench testing is not necessarily indicative of clinical performance.

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