

# Patient Specific Instrumentation (PSI) for TM Reverse and BF/TM Glenoid

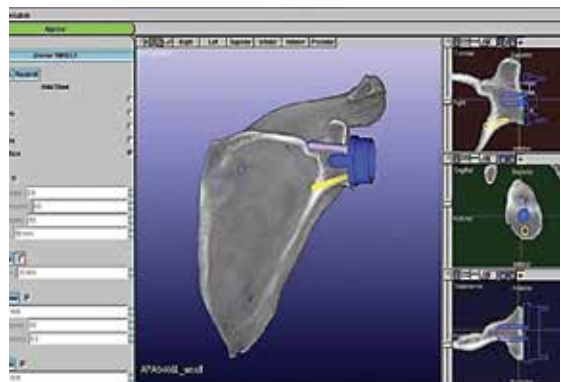
## Compatible Implant Systems

- 1 Trabecular Metal Reverse Baseplate
- 2 Trabecular Metal™ Glenoid
- 3 Bigliani/Flatow® Glenoid



## Software

- The PSI shoulder planner has a dedicated Zimmer Biomet technician supported process for the surgeons
- The PSI shoulder planner allows full Implant Visualization thus bringing surgeon choices regarding implant position, glenoid reaming, and fixation to life.
- The PSI Shoulder planner provides visualization with both a 3D reconstruction and measurements in the primary 2D CT planes for additional pre-operative information



## Guides

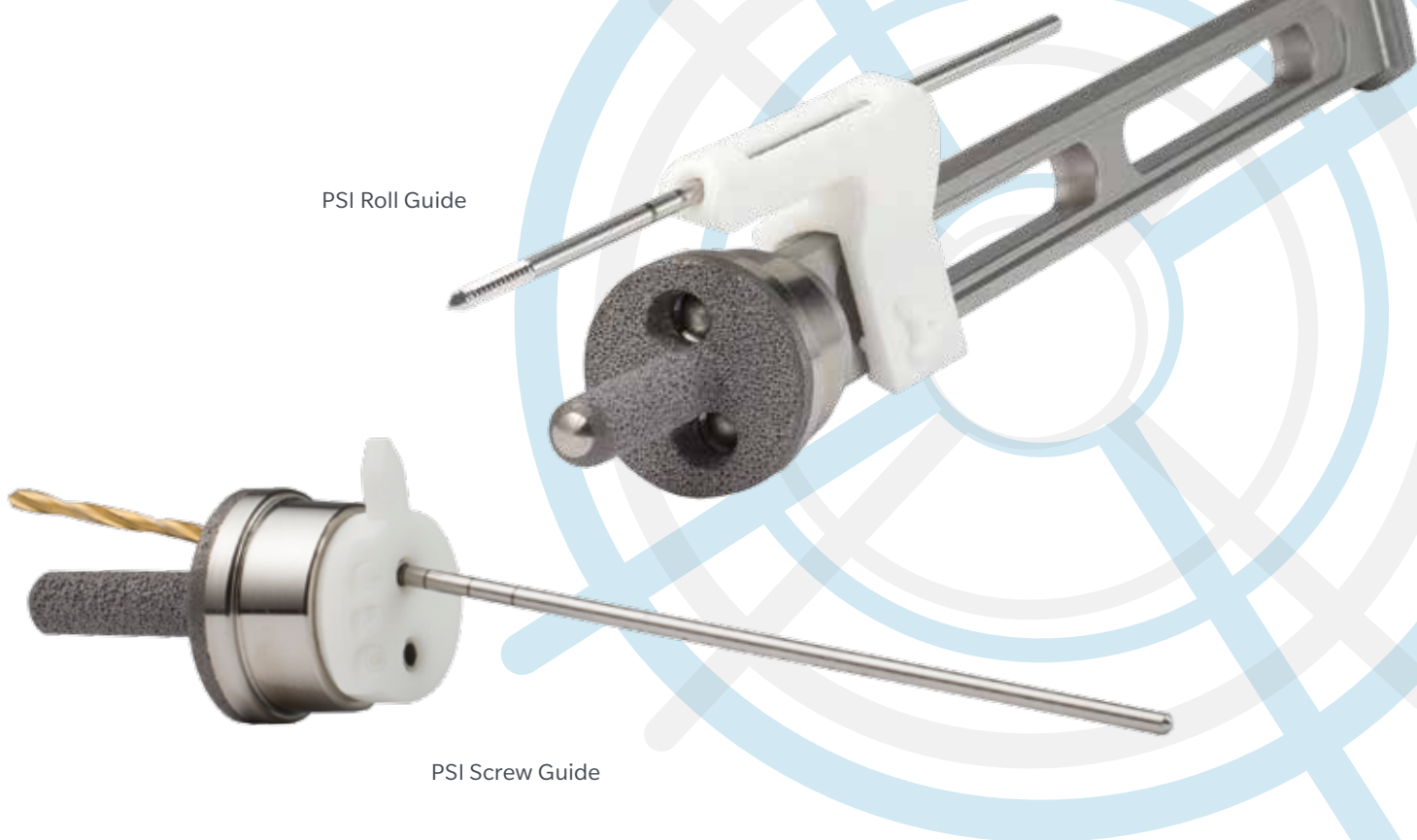
- Dedicated Reverse Shoulder arthroplasty guides
- Dedicated Total shoulder arthroplasty guides
- An expansive guide system that allows optimum –
  - Pin Placement
  - Ream Depth
  - Rotation Control
  - Screw Trajectory



Pin Guide

Bone Model

Screw Guide



PSI Roll Guide

PSI Screw Guide

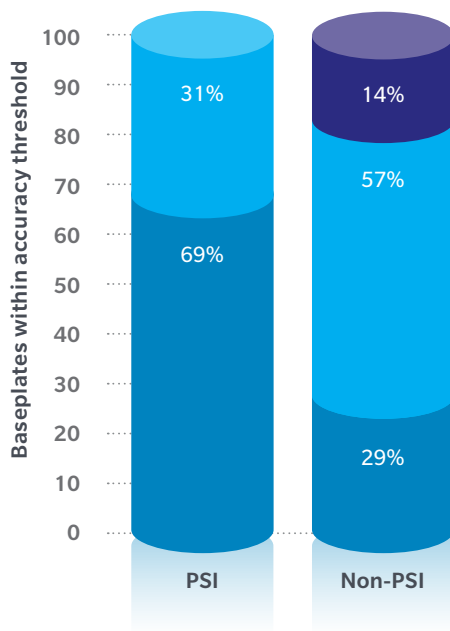
**Improved accuracy**

of implant positioning has been demonstrated with PSI Shoulder, when compared with conventional instrumentation<sup>1</sup> when a clinical study was performed on 31 randomized patients.

**Reduce Malposition**

10 degrees of positioning error can be clinically significant.<sup>2,3</sup> PSI can help you reduce or eliminate malposition.<sup>1</sup>

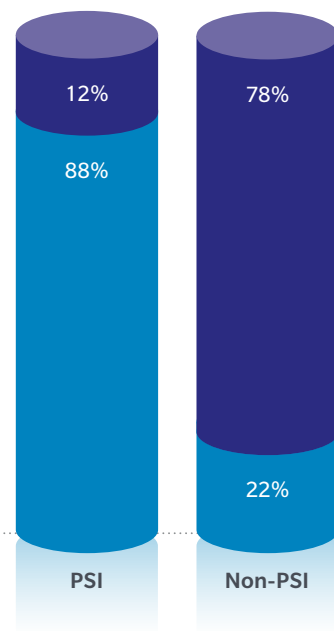
**Accuracy of Version & Inclination<sup>4,\*</sup>**



**Accuracy Threshold<sup>4</sup>**

- ≤ ± 5°
- ± 5° to ± 10°
- > ± 10°

**Accuracy of Screw Placement<sup>4,\*</sup>**



**Accuracy Threshold<sup>4</sup>**

- ≤ 7°
- > 7°

**References**

1. Hendel *et al.* "Comparison of Patient-Specific Instruments with Standard Surgical Instruments in Determining Glenoid Component Position A Randomized Prospective Clinical Trial." *JBJS* 2012, 94:2167-75.
2. Alain Farron, *et al.* "Risks of loosening of a prosthetic glenoid implanted in retroversion" *Journal of Shoulder and Elbow Surgery*, Volume 15, Issue 4, July-August 2006, Pages 521-526.
3. Iannotti, *et al.*, "Effect of glenoid deformity on glenoid component placement in primary shoulder Arthroplasty" *J Shoulder Elbow Surg* (2012) 21, 48-55.
4. Studies on Zimmer file - TR-TG120709-01 Warsaw Cadaveric Lab 2012 and TR-FB121026-01 Chicago PSI Shoulder Cadaver Lab Nov 2012.

\* Cadaveric testing may not be indicative of clinical performance

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