

<sup>1</sup> F O C U A V  
<sup>2</sup> T L L S E D

**ACROSS**  
1. YOU, WITH THE RIGHT SOLUTION

**DOWN**  
2. THE PATIENT-MATCHED IMPLANT



# Vault Reconstruction System



Meet Your Match

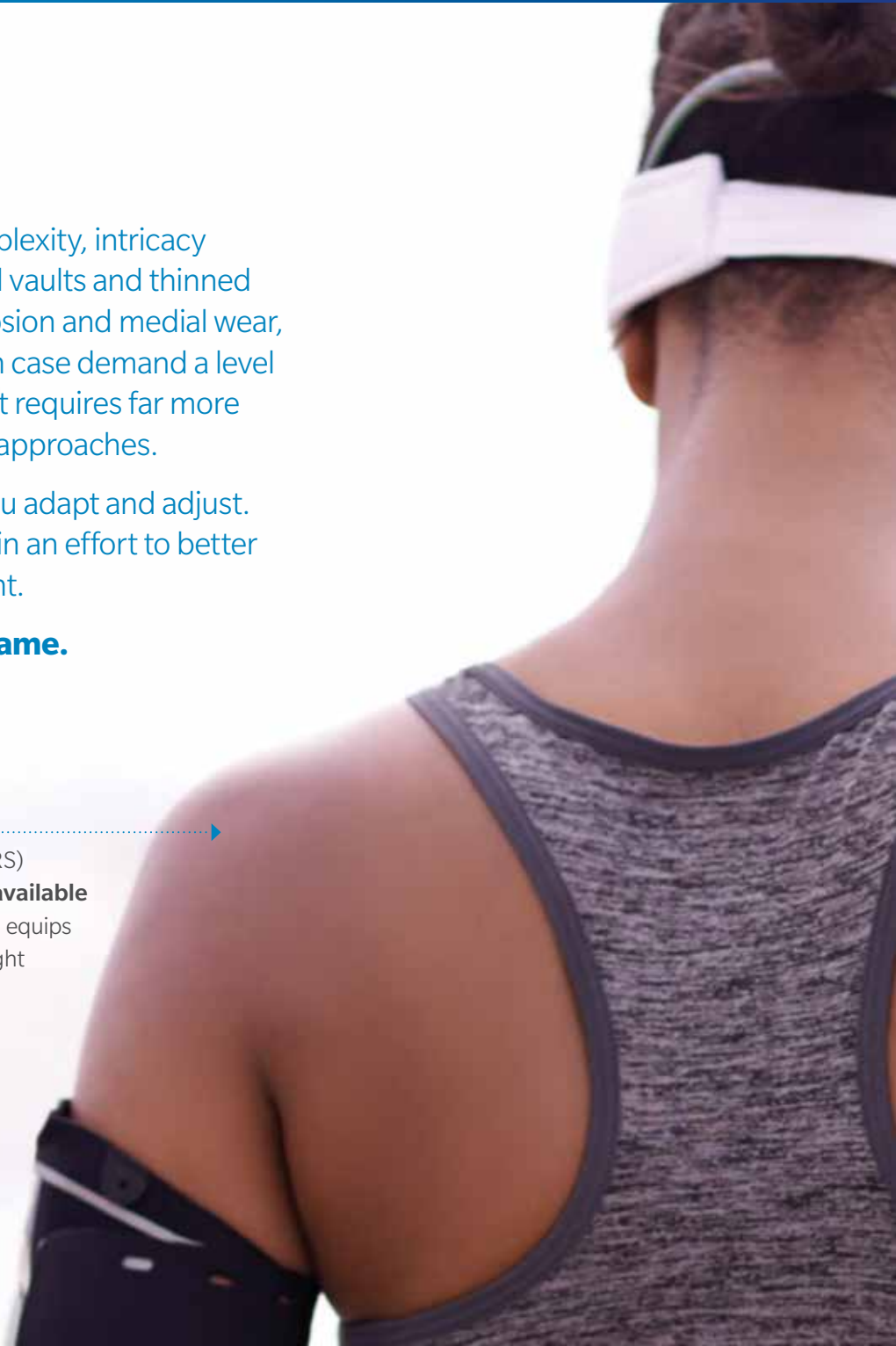
# Routine Isn't Always Right

Your world is defined by complexity, intricacy and variation. From narrowed vaults and thinned glenoid mantels to excess erosion and medial wear, the unique challenges of each case demand a level of precision and attention that requires far more than routine, one-size-fits-all approaches.

With each new procedure, you adapt and adjust. You calibrate and correct. All in an effort to better meet the needs of your patient.

**Your tools should do the same.**

.....▶  
The Vault Reconstruction System (VRS) is **the industry's first commercially available patient-matched glenoid system** and equips you with the right tools to create the right treatment for each patient.



## Match Matters

As the first commercially available patient-matched glenoid system, VRS expands your surgical opportunities with precision solutions that fit the unique needs of each patient. Through the use of CT imaging and advanced 3D reconstruction techniques, this system allows you to craft treatments specifically tailored to your patient's anatomy. There's confidence in knowing exactly how to handle what's in front of you, and **VRS brings this confidence to every procedure.**

### A Solution That Fits

VRS delivers a truly comprehensive surgical experience that fully considers the clinical needs of both you and your patients through:



**Extensive preoperative planning and development process**



**Advanced instrumentation**



**Streamlined surgical experience**



**Viable alternative treatment option to bone grafting or hemi-arthroplasty**



## Designing Their Match

From first steps to final implant, the VRS preoperative development process offers complete control over every nuance of every treatment. Throughout each stage of this process, our seasoned team of engineers from the PMI® Patient-Matched Implant department supports your efforts to create the right glenoid implant for each patient.

This level of precision and preoperative planning frees you to focus **on creating a positive surgical experience for each patient.**

“My early experience with VRS has been encouraging. The pre-op planning helped me to navigate a highly complex surgery, and **the instrumentation was intuitive and reproducible.**”

*Dr. Stephen F. Brockmeier, MD  
UVA Sports Medicine Clinic  
Charlottesville, Virginia*

## Scan. Build. Execute.



### 3D Reconstruction

Each patient's CT scan data is reconstructed into a 3D bone model.



### Implant Proposal

To fine-tune your implant requirements, Zimmer Biomet engineers work with you to create a proposal through computer-aided design.



### Prototype

After approving the implant proposal, a nylon implant and bone model are created and sent to you for review.

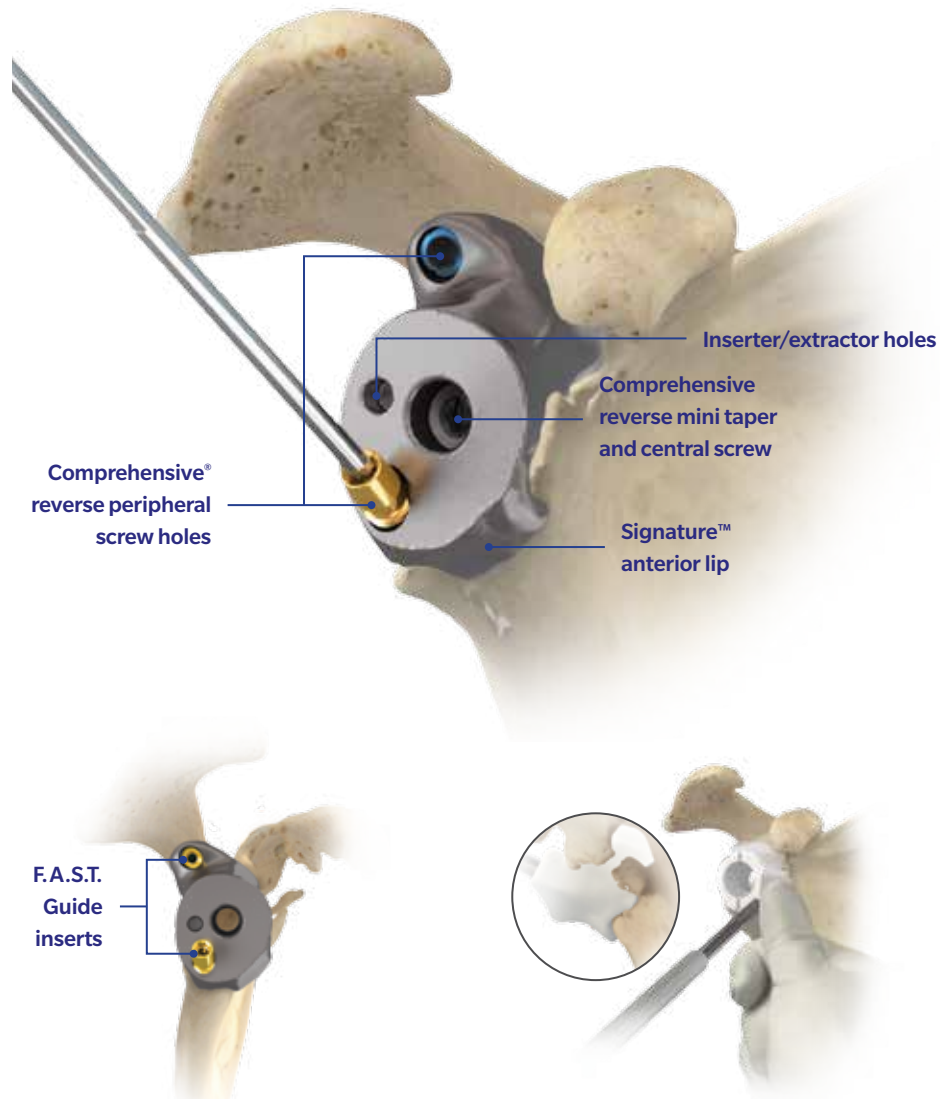


### Final Implant

Once you have indicated that the modeled implant will address the needs of your procedure, Zimmer Biomet will create the final implant.

## VRS Up Close

The power of the VRS lies in its unparalleled clinical reach. With a design envelope that covers 96% of previous PMI glenoid cases and features that are purposefully engineered for efficiency, this system **meets previously unmet needs for both you and your patients.**



### F.A.S.T. Guide® Inserts

F.A.S.T. Guide inserts simplify drilling and allow for easy visualization of your preferred screw trajectory.

### Patient-specific Reaming Guide (For Implants With a Boss)

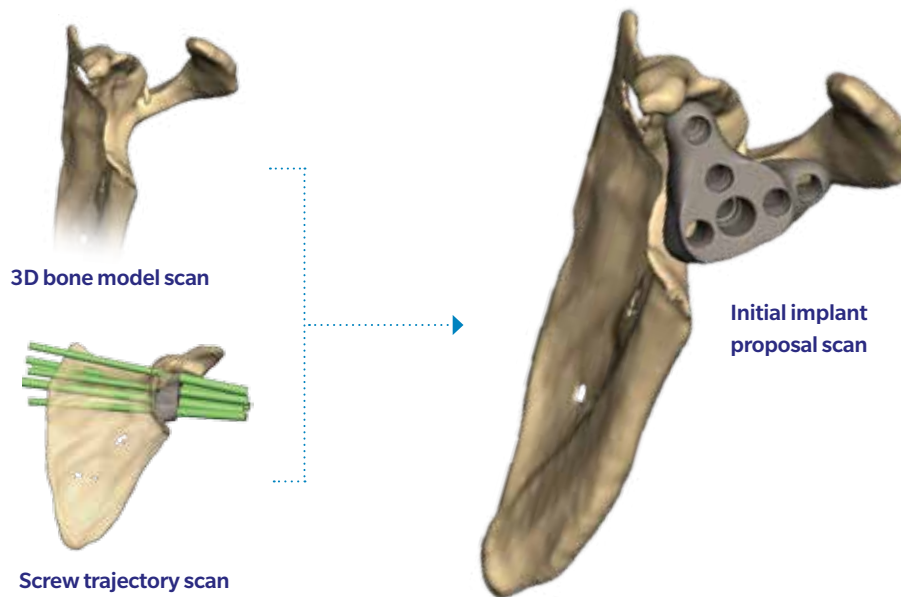
The reaming guide is matched to each patient's unique anatomy and is designed for improved reaming accuracy.



VRS is more than just another innovation. It streamlines your processes and removes guesswork. It arms you with new solutions that may have otherwise been unavailable for some patients. **And it brings new possibilities to extensive glenoid procedures.**

### VRS in Action

#### Preoperative Planning Scans: 64-year-old Female Patient



#### Two-week Postoperative X-rays: 64-year-old Female Patient



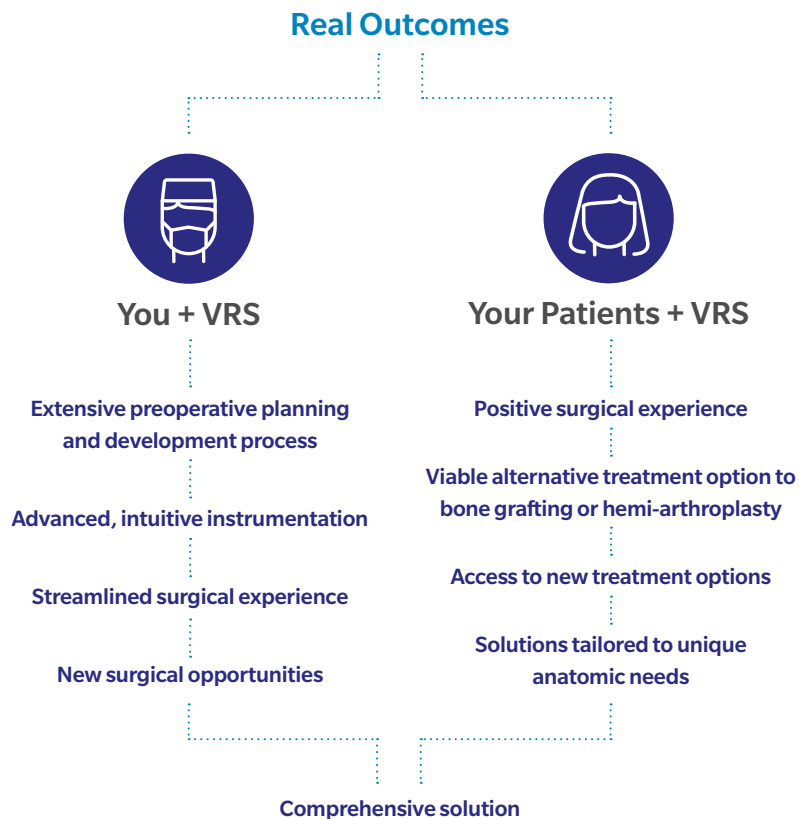
## Real Support

Our commitment to your success can be traced back to the foundation of our PMI Patient-Matched Implant department. Since that time, we've continually pioneered the use of CT, X-ray and MRI data to shape some of the most advanced orthopedic solutions available.

**There's real satisfaction and assurance in a job done right, and our aim is to provide this for you in every VRS procedure.**

“VRS is a long-overdue addition to the area of complex shoulder reconstruction and replacement, offering a potential option for previously difficult-to-solve or unsolvable problems associated with advanced glenoid bone deficiency. VRS will allow shoulder surgeons to help this subset of patients who otherwise might have little to no available options.”

*Dr. Stephen F. Brockmeier, MD; UVA Sports Medicine Clinic, Charlottesville, Virginia*



Biomet Comprehensive Vault Reconstruction System is a glenoid component intended for total shoulder replacement in a reverse configuration

**Indications:** Biomet Comprehensive Vault Reconstruction System Components are indicated for use in patients whose shoulder joint has a grossly deficient rotator cuff with severe arthropathy and/or previously failed shoulder joint replacement with a grossly deficient rotator cuff. The patient must be anatomically and structurally suited to receive the implants and a functional deltoid muscle is necessary.

The Comprehensive Vault Reconstruction System Component is indicated for primary, fracture, or revision total shoulder replacement for the relief of pain and significant disability due to gross rotator cuff deficiency.

The Comprehensive Vault Reconstruction System glenoid baseplate components are intended for cementless application with the addition of screw fixation in patients with unusual anatomy and/or extensive bone loss which precludes the use of a standard glenoid baseplate component.

800.447.3625 / [zimmerbiomet.com](http://zimmerbiomet.com)

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