



Zimmer®  
Trabecular Metal™  
Reverse  
Shoulder  
System



It all starts with a better shape.



***Form.***

Your patient  
counts on you.  
You can count  
on Zimmer.

***Fit.***

***Function.***



# Restoring mobility. Restoring independence. Restoring hope.

At Zimmer, we understand the complex challenges you face treating patients suffering from severe rotator cuff deficiency and arthritis. We know they're counting on you to decrease pain, increase functionality and reassure them of a brighter future. That's why you need an arthroplasty solution that offers maximum flexibility for repair and reconstruction in these tough surgical cases. Now, there's a solution that meets your needs *and* the needs of your patients—the *Trabecular Metal Reverse Shoulder System*.

In these pages, you'll discover how the *Trabecular Metal Reverse Shoulder System* supports enhanced bone and soft tissue healing. How it provides both short-term and long-term options for managing difficult clinical presentations. And most importantly, how it can help you restore your patient's hope for a better life.

- Zimmer's innovative bone-sparing stem and base plate designs help you address the toughest surgical cases.
- Increased sizing options for stems, poly liners and spacers provide greater flexibility to help you meet your patients' needs.
- Opportunities for reattachment and reconstruction increase the chances for improved internal and external rotation — and an improved lifestyle for your patients.



## Form. Innovative low-profile design preserves the proximal humerus.

The *Trabecular Metal Reverse Shoulder System* features a low-profile humeral stem that helps conserve the proximal humerus, offers maximum preservation of bone stock and provides an improved opportunity to reconstruct the glenohumeral joint. The six proximal suture holes and a proximal perimeter rim are positioned for enhanced tuberosity and soft tissue reattachment.

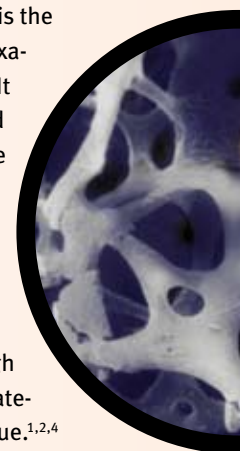
The glenoid component also features an innovative bone-sparing design. The base plate has a small diameter and does not require unnecessary holes in the glenoid. Two polyaxial bone screws with a 30° arc allow for maximum bone purchase.

Additionally the system's monobloc stem ensures that the stem will not separate while in the humeral canal.

## The Advantage

*Trabecular Metal* Technology is the leading orthopaedic porous fixation biomaterial in the world. It features a fully interconnected strut configuration and a close approximation of the physical and mechanical properties of trabecular bone.<sup>1, 2</sup>

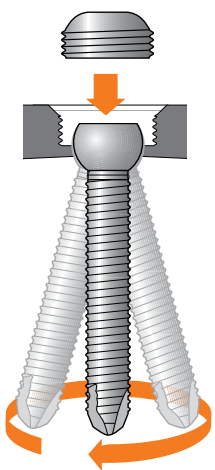
Initial implant stability is provided by the inherently high friction of *Trabecular Metal* material against bone and soft tissue.<sup>1, 2, 4</sup>





## Fit. The flexibility to meet a wider variety of patient needs.

The *Trabecular Metal* Reverse Shoulder System offers a wide range of stem, poly liner and humeral spacer sizing options to help ensure the optimum fit for your patients. In addition, the system provides you the option of choosing multiple poly liner angles (60° or 65°) to give you the ability to change the level of constraint as necessary.



Polyaxial screw placement within 30° and subsequent locking for optimum system stability.

*Trabecular Metal* Technology provides superior short- and long-term stability.<sup>1,7</sup> Immediate fixation is provided by the biomaterial's high

level of friction, while the structural simulation of trabecular bone encourages rapid soft tissue and bone ingrowth.<sup>1,2,4,6</sup> Because of the nature of *Trabecular Metal* material, glenoid fixation improves with time.

The biological fixation of the glenoid component is supplemented with multiple angulation bone screws that allow you — not the system — to determine the optimum location for bone purchase. Furthermore these screws do not capture the base plate threads and are designed to compress the *Trabecular Metal* material into the glenoid.



Six proximal suture holes and a proximal perimeter rim are positioned for enhanced tuberosity and soft tissue reattachment.

## Function. Restoring mobility, reducing pain and improving range of motion.

The *Trabecular Metal* Reverse Shoulder System combines the flexibility surgeons require to be successful in a wide range of clinical situations with patient-focused considerations that are designed to provide a better quality of life.

- Superior fixation and soft tissue repair
- Increased opportunities to repair tuberosities
- Precise sizing and acute neck angles to potentially decrease the risk of impingement

These are just a few of the potential functional advantages that support the goals of virtually every patient: increased lift, internal and external rotation and decreased pain.

## of Trabecular Metal Technology

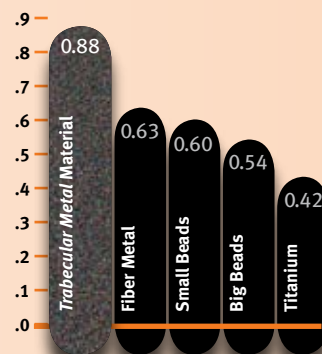
In human radiographic clinical studies, postoperative gaps have been shown to reliably fill with bone.<sup>5</sup>

The majority of the *Trabecular Metal* construct's void space is filled with bone at eight weeks postoperative.<sup>2</sup>

The high-volume porosity and fully interconnected cellular structure of *Trabecular Metal* material support rapid soft tissue ingrowth.<sup>6</sup>

With its clinically proven biological fixation and superior bone and soft tissue repair, *Trabecular Metal* Technology meets the demands of complex shoulder reconstructions.<sup>2</sup> With the introduction of the *Trabecular Metal* Reverse Shoulder System, Zimmer continues to demonstrate its leadership in the challenging shoulder segment of the orthopaedic industry.

### High Friction Implant Stability<sup>1,7</sup>



## Trabecular Metal Reverse Shoulder System Implants

Prod. No.	Description
00-4349-008-13	<b>Stems</b>
00-4349-008-13	Trabecular Metal Reverse Stem 8mm x 130mm
00-4349-008-17	Trabecular Metal Reverse Stem 8mm x 170mm
00-4349-010-13	Trabecular Metal Reverse Stem 10mm x 130mm
00-4349-010-17	Trabecular Metal Reverse Stem 10mm x 170mm
00-4349-012-13	Trabecular Metal Reverse Stem 12mm x 130mm
00-4349-012-17	Trabecular Metal Reverse Stem 12mm x 170mm
00-4349-014-13	Trabecular Metal Reverse Stem 14mm x 130mm

### Poly Liners

#### 7 Degree (60° inclination angle)

00-4349-036-00	36mm Standard Poly Liner +0mm
00-4349-036-03	36mm Standard Poly Liner +3mm
00-4349-036-06	36mm Standard Poly Liner +6mm
00-4349-040-00	40mm Standard Poly Liner +0mm
00-4349-040-03	40mm Standard Poly Liner +3mm
00-4349-040-06	40mm Standard Poly Liner +6mm

#### 12 Degree (65° inclination angle)

00-4349-065-00	36mm 65° Retentive Poly Liner +0mm
00-4349-065-03	36mm 65° Retentive Poly Liner +3mm
00-4349-065-06	36mm 65° Retentive Poly Liner +6mm
00-4349-066-00	40mm 65° Retentive Poly Liner +0mm
00-4349-066-03	40mm 65° Retentive Poly Liner +3mm
00-4349-066-06	40mm 65° Retentive Poly Liner +6mm
00-4349-039-09	Spacer +9mm
00-4349-039-12	Spacer +12mm
00-4349-037-00	Dual Taper Insert

### Glenospheres and Base Plate

00-4349-038-11	Trabecular Metal Reverse Base Plate
00-4349-036-11	36mm Glenosphere
00-4349-040-11	40mm Glenosphere

### Screws

01.04223.018	Inverse/Reverse Cancellous Screw, 4.5mm dia x 18mm
01.04223.024	Inverse/Reverse Cancellous Screw, 4.5mm dia x 24mm
01.04223.027	Inverse/Reverse Cancellous Screw, 4.5mm dia x 27mm
01.04223.030	Inverse/Reverse Cancellous Screw, 4.5mm dia x 30mm
01.04223.033	Inverse/Reverse Cancellous Screw, 4.5mm dia x 33mm
01.04223.036	Inverse/Reverse Cancellous Screw, 4.5mm dia x 36mm
01.04223.042	Inverse/Reverse Cancellous Screw, 4.5mm dia x 42mm
01.04223.048	Inverse/Reverse Cancellous Screw, 4.5mm dia x 48mm

## Trabecular Metal Reverse Shoulder System Additional Replacement Parts

Prod. No.	Description
47-4309-046-01	Trabecular Metal Reverse 2.5mm Drill Sterile
47-4309-025-00	Trabecular Metal Reverse 2.5mm Pin Sterile
00-4309-050-01	Humeral Stem Insert/Extractor
00-4309-031-01	Glenosphere Positioner Pads (2)

Radiographs courtesy of Dr. Michael Pearl

## Trabecular Metal Reverse Shoulder System Instruments

Prod. No.	Description
00-4309-000-72	<b>Kit (1 of 2) Contains the Following</b>
02.00024.022	Torque Wrench
02.00024.023	Hexagonal Screwdriver
02.00024.121	Locking Screw Holder
00-4307-074-00	TM Glenoid Straight Driver
00-4309-022-00	TM Reverse Base Plate Drill Guide 2
00-4309-025-00	TM Reverse 2.5mm Pin
00-4309-026-00	TM Reverse Base Plate Remover
00-4309-031-00	Glenosphere Positioner
00-4309-031-02	Glenosphere Impactor Head
00-4309-036-01	Glenosphere Trial 36mm
00-4309-040-01	Glenosphere Trial 40mm
00-4309-041-00	TM Reverse Base Plate Reamer 1
00-4309-042-00	TM Reverse Base Plate Reamer 2 36mm
00-4309-042-01	TM Reverse Base Plate Reamer 2 40mm
00-4309-043-00	TM Reverse Base Plate Drill Guide 1
00-4309-044-00	TM Reverse Base Plate Insert
00-4309-045-00	TM Reverse Base Plate Drill 7.5mm
00-4309-045-01	Base Plate Cortex Drill 7.5mm
00-4309-045-02	Base Plate Compression Plug 7.5mm
00-4309-046-00	TM Reverse Screw Drill Guide
00-4309-046-01	TM Reverse Drill 2.5mm
00-4309-048-00	TM Reverse Depth Gauge
00-4309-049-00	TM Reverse Glenosphere Distractor
00-4309-060-00	TM Reverse 53 Degree Silhouette
00-4309-069-00	TM Reverse Liner Insert
00-4309-089-50	TM Shoulder Reverse Instrument Case 1
00-4301-008-01	Intramedullary Reamer 8mm Short
00-4301-008-00	Intramedullary Reamer 8mm
00-4301-009-00	Intramedullary Reamer 9mm
00-4301-010-00	Intramedullary Reamer 10mm
00-4301-011-00	Intramedullary Reamer 11mm
00-4301-012-00	Intramedullary Reamer 12mm
00-4301-013-00	Intramedullary Reamer 13mm
00-4301-014-00	Intramedullary Reamer 14mm
00-4301-015-00	Intramedullary Reamer 15mm
00-4301-016-00	Intramedullary Reamer 16mm
00-4309-001-10	TM Humeral Proximal Reamer 10mm
00-4309-001-12	TM Humeral Proximal Reamer 12mm
00-4309-001-14	TM Humeral Proximal Reamer 14mm
00-4301-018-00	Glenoid Scraper
47-4307-061-00	TM Glenoid Cann 6mm Drill w/Stop

## Trabecular Metal Reverse Shoulder System Instruments

Prod. No.	Description
00-4309-000-71	<b>Kit (2 of 2) Contains the Following</b>
00-4301-033-00	Wrench
00-4304-008-00	3.2mm Threaded Pin (4)
00-4304-009-00	Pin Insert/Extractor
00-4309-020-00	TM Reverse Humeral Cut Guide
00-4309-021-00	TM Reverse Conical Reamer
00-4309-021-01	Version Control Handle
00-4309-021-08	TM Reverse Reamer Body 8mm
00-4309-021-10	TM Reverse Reamer Body 10mm
00-4309-021-12	TM Reverse Reamer Body 12mm
00-4309-021-14	TM Reverse Reamer Body 14mm
00-4309-023-08	TM Reverse Proximal Trial 8mm
00-4309-023-10	TM Reverse Proximal Trial 10mm
00-4309-023-12	TM Reverse Proximal Trial 12mm
00-4309-023-14	TM Reverse Proximal Trial 14mm
00-4309-027-00	Liner Extractor
00-4309-028-00	TM Reverse Liner Impactor 40mm
00-4309-028-01	TM Reverse Liner Impactor 40mm 65D
00-4309-029-00	TM Reverse Liner Impactor 36mm
00-4309-029-01	TM Reverse Liner Impactor 36mm 65D
00-4309-029-02	TM Reverse Impactor Handle
00-4309-036-00	36mm Trial Liner +0mm
00-4309-036-03	36mm Trial Liner +3mm
00-4309-036-06	36mm Trial Liner +6mm
00-4309-037-09	9mm Spacer Trial
00-4309-037-12	12mm Spacer Trial
00-4309-038-00	TM Reverse Dual Taper Trial
00-4309-039-00	TM Reverse Dual Taper/Spacer Impactor
00-4309-039-01	Taper Removal Bolt
00-4309-040-00	40mm Trial Liner +0mm
00-4309-040-03	40mm Trial Liner +3mm
00-4309-040-06	40mm Trial Liner +6mm
00-4309-047-00	Humeral Cutting Guide Superior
00-4309-050-00	TM Reverse Insert/Extractor
00-4309-065-00	36mm 65D RTNV Liner Trial +0mm
00-4309-065-03	36mm 65D RTNV Liner Trial +3mm
00-4309-065-06	36mm 65D RTNV Liner Trial +6mm
00-4309-066-00	40mm 65D RTNV Liner Trial +0mm
00-4309-066-03	40mm 65D RTNV Liner Trial +3mm
00-4309-066-06	40mm 65D RTNV Liner Trial +6mm
00-4309-092-50	TM Shoulder Reverse Instr Case 2
00-4301-004-00	Ratchet T Handle
00-4301-001-09	Hum Head Cutting Guide Finger
00-4309-009-00	Threaded Alignment Rod
00-6601-004-00	Slaphammer Weight
00-4310-008-13	TM Humeral Distal Trial 8mm X 130mm
00-4310-008-17	TM Humeral Distal Trial 8mm X 170mm
00-4310-009-13	TM Humeral Distal Trial 9mm X 130mm
00-4310-010-13	TM Humeral Distal Trial 10mm X 130mm
00-4310-010-17	TM Humeral Distal Trial 10mm X 170mm
00-4310-011-13	TM Humeral Distal Trial 11mm X 130mm
00-4310-012-13	TM Humeral Distal Trial 12mm X 130mm
00-4310-012-17	TM Humeral Distal Trial 12mm X 170mm
00-4310-013-13	TM Humeral Distal Trial 13mm X 130mm
00-4310-014-13	TM Humeral Distal Trial 14mm X 130mm
00-4310-015-13	TM Humeral Distal Trial 15mm X 130mm
00-4310-016-13	TM Humeral Distal Trial 16mm X 130mm

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