

rHead™ Radial Implant System



rHead™ Radial
Implant System



rHead™ RECON
Implant System

SBi
SMALL BONE INNOVATIONS

rHead™ Radial Implant System

Indepth studies have demonstrated the critical role of the radial head in elbow kinematics, force distribution and load transfer across the forearm and elbow joint.^{1,3} When internal fixation of radial head fractures cannot be performed, replacement of the radial head can be an anatomic and functional solution to restoring elbow and forearm stability.

The rHead™ Radial Implant System provides today's surgeon with an effective anatomic solution to radial head replacement. Modular stem and head sizes address varied patient anatomy while minimizing ligamentous and soft tissue compromises. A uniquely designed alignment guide assists in both the radial neck osteotomy and radial stem alignment.

Compare These Benefits

Improved Stability

- > Anatomic design restores proper elbow and forearm load transfer
- > Stem shape enhances intramedullary fit and fixation

Pain Relief

- > Anatomic design restores kinematic function while minimizing pain associated with joint and forearm instability and injury

Familiar Technique

- > Similar surgical approach to other common excisional procedures
- > Intuitive instruments ease bone preparation and implant alignment while minimizing operative time

Modularity

- > Modular implants optimize patient sizing

Radial Head

- > Multiple head sizes interchangeable with multiple stem lengths
- > Highly polished Cobalt Chrome surface facilitates articulation with the capitellum and radial notch
- > Head circumference and concavity replicate normal patient anatomy

Intramedullary Stem

- > Morse taper assures secure fit between head and stem
- > Collar provides a firm, secure buttress, minimizing subsidence
- > Roughened stem provides cement-optional flexibility
- > Angled stem matches patient anatomy and facilitates canal insertion when exposure is limited



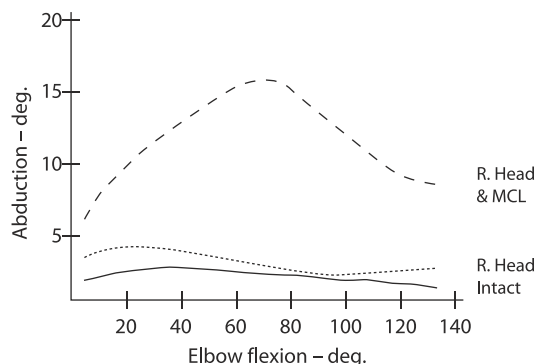
Radial Head



Intramedullary Stem

Restored Stability

Studies have shown that the loss of the medial collateral ligament (MCL) and/or the loss of the radial head produces primary or secondary elbow instability.¹⁻³ The rHead™ Radial Implant System aids in restoring elbow and forearm stability and kinematic function.



rHead™ RECON Radial Implant System

The rHeadRECON™ is a bi-polar radial head replacement prosthesis based upon the same technology used in the rHead™ radial implant system. The rHeadRECON™ incorporates a 10-degree angle of rotation in all planes of motion to assist in kinematic centering in problematic anatomic conditions. This degree of rotation also offers compensation for the natural eccentric motion of the radial head against the capitulum during pronosupinatory activity.

Compare These Benefits

Familiar Instrumentation

- > The instrumentation and implant sizes are identical to the sizes used in the rHead, allowing for intra-operative decision making for the style of implant that you want to use.

Restoration of Anatomy

- > The 10-degree angle of rotation is ideal for use in situations where a previous resection of the radial head has caused migration of the proximal stump. The RECON™ head will center on the capitulum, restoring elbow kinematics and reducing pain and discomfort.

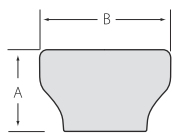


Implant Dimensions and Ordering Information

rHead™ Implant Dimensions

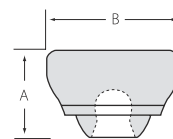
Radial Head Component

SIZE	CAT NO	DIMENSIONS (mm)	
		A	B
2	RHA-H2	9.0	18.0
3	RHA-H3	12.0	21.0
4N	RHA-H4N	15.0	21.0
4	RHA-H4	15.0	24.0



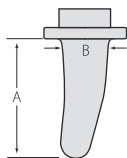
RECON Head Component

SIZE	CAT NO	DIMENSIONS (mm)	
		A	B
2	RCN-H2	7.2	18.0
3	RCN-H3	10.2	21.0
4N	RCN-H4N	13.2	21.0
4	RCN-H4	13.2	24.0



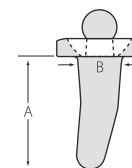
Standard Stem

SIZE	CAT NO	DIMENSIONS (mm)	
		A	B
2	RHA-S2	18.0	7.2
3	RHA-S3	20.0	8.0
4	RHA-S4	22.0	8.8



Standard Stem Component

SIZE	CAT NO	DIMENSIONS (mm)	
		A	B
2	RCN-S2	18.0	7.2
3	RCN-S3	20.0	8.0
4	RCN-S4	22.0	8.8



Surgical Video

For a surgical video of this product contact Small Bone Innovations at (215) 428-1791

REFERENCES

1. AAOS Instructional Course Lectures, Volume 47, 1998.
2. Morrey BF, Tanaka S, An KN: Valgus stability of the elbow: A definition of primary and secondary constraints. Clin Orthop 1991;265:187-195.
3. Nestor BJ, O'Driscoll SW, Morrey BF: Ligamentous reconstruction for posterolateral rotatory instability of the elbow. J Bone Joint Surg 1992;74A:1235-1241.

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