

Evolve® Proline Radial Head System

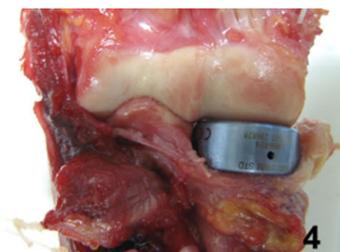
324 sizing options

- ▶ Head sizes – 6 sizes ranging from **18mm** to **28mm** in diameter with **standard**, **+2** and **+4** height options
- ▶ Stem sizes – 6 sizes ranging from **4.5mm** to **9.5mm** with **standard**, **+2** and **+4** height options



Sizing and placement

- ▶ Select head size based on the size of the articular dish rather than the outside diameter of the head.
- ▶ When in doubt, always **downsize** to prevent overstuffing of the joint¹
- ▶ Broach until cortical contact is made and select stem size that is one size smaller than the largest broach used.¹
- ▶ Medial and lateral side of the ulno-humeral joint should be congruent
- ▶ In-situ loading tool available upon request: Evolve Locker



Clinically proven

Revision rates

24%

Competitive
press-fit stems

0%

Stryker Evolve
Proline stems

- ▶ Flinkkilä et al. reports a **24% revision rate** for competitive press-fit stems²
- ▶ Marsh et al. reports no required removal or revision for Evolve Proline smooth stems³
- ▶ Loosening of press-fit radial head prosthesis is common, occurs early, often leads to severe osteolysis and commonly requires removal²

Design features

- ▶ Toggle of the stem within the radius designed to allow the radial head to articulate congruently with the capitellum¹
- ▶ Movement of implant is designed to be guided by the annular ligament rather than by the position of the radial neck¹
- ▶ Loose fit designed to allow the forearm to rotate around the stem rather than between the prosthesis and articular cartilage of the capitellum

Revision option

Check out our Tornier RHS® System with stem lengths up to 60mm to help accommodate revision surgeries.



Evolve Proline Radial Head System

Modular vs Monobloc



Modular design



Monobloc design⁴

- ▶ The Evolve Radial Head systems offer modular implants – allows independent sizing of the head and stem providing more options
- ▶ Some competitors offer monobloc implants – head and stem size combinations are pre-determined limiting options
- ▶ The elliptical head and offset neck of the radius is difficult to accurately reconstruct with a monobloc implant²

Kit configurations

	Evolve Proline 2499KIT1/A	Evolve Triad 4951KIT1/A
Plate options		●
Screw options		●
Radial head replacement option	●	●



References

1. Ring, David, and Graham King. "Radial Head Arthroplasty with a Modular Metal Spacer to Treat Acute Traumatic Elbow Instability." Journal of Bone and Joint Surgery, vol. 90, no. Supplement 2_Part_1, 2008, pp. 63–73., <https://doi.org/10.2106/jbjs.g.01248>.
2. Flinkkilä study SO656-812. Short to Mid-Term Results of Metallic Press-Fit Radial Head Arthroplasty in Unstable Injuries of the Elbow. J Bone Joint Surg. VOL. 94-B, No. 6, June 2012. 805-810.
3. Jonathan P. Marsh, Ruby Grewal, Kenneth J. Faber, Darren S. Drosdowech, George S. Athwal, Graham J.W. King. Radial Head Fractures Treated with Modular Metallic Radial Head Replacement. J Bone Joint Surg Am Apr 2016, 98 (7) 527-535.
4. DePuy Synthes. (2021). Radial Head Replacement System Surgical Technique. Monument, CO; DePuy Synthes. Retrieved March 7, 2022, from <http://synthes.vo.llnwd.net/o16/LL-NWMB8/US%20Mobile/Synthes%20North%20America/Product%20Support%20Materials/Technique%20Guides/103666766%20Rev%20C.pdf>.

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Evolve Triad Fixation System

Plating options



Radial Head Plates

- Material: Stainless Steel
- Accepts 2.0mm locking and non-locking screws in round holes
- Sizes: 20mm, 22mm, 24mm, 26mm



Radial Neck Plates

- Material: Stainless Steel
- Accepts 2.0mm locking and non-locking screws in round holes
- Sizes: 21mm, 25mm



Coronoid Plates

- Material: Stainless Steel
- Accepts 2.0mm non-locking screws
- Sizes: 5 holes (small), 8 holes (medium), 11 holes (large)

Screw options

	Size (mm)	Lengths (mm)	Drill bit	Driver
Cannulated, full thread	2.5	10-50	2.0	T8
Locking	2.0	10-30, 35, 40	1.3	T7
Cortex, plate or bone	2.0	10-30, 35, 40	1.3	T7
Cortex, bone	1.5	10-28	1.1	T6

Oval holes & coronoid plates do not accept locking screws

Manufactured by:

Wright Medical Technology, Inc.
1023 Cherry Road
Memphis, TN 38117161

Tornier SAS
Rue Lavoisier 38330 Montbonnot
Saint Martin, France

stryker.com