

# Evolve® Proline Radial Head System

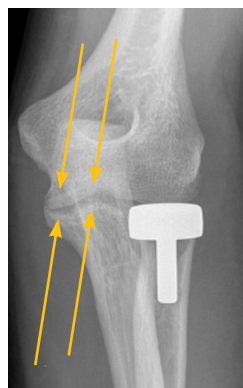
## 324 sizing options

- ▶ Most sizing options on the market\*
- ▶ 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 joint<sup>1</sup>
- ▶ Broach until cortical contact is made and select stem size that is one size smaller than the largest broach used.<sup>1</sup>
- ▶ 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 stems<sup>2</sup>
- ▶ Marsh et al. reports no required removal or revision for Evolve Proline smooth stems<sup>3</sup>
- ▶ Loosening of press-fit radial head prosthesis is common, occurs early, often leads to severe osteolysis and commonly requires removal<sup>2</sup>

## Design features

- ▶ Toggle of the stem within the radius designed to allow the radial head to articulate congruently with the capitellum<sup>1</sup>
- ▶ Movement of implant is designed to be guided by the annular ligament rather than by the position of the radial neck<sup>1</sup>
- ▶ 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.



\*Based on publicly available information as of March 7th, 2022

## Evolve Proline Radial Head System

### Modular vs Monobloc



**Modular design**

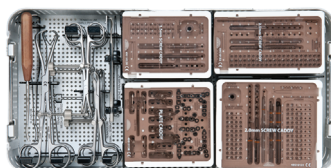


**Monobloc design<sup>4</sup>**

- ▶ 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 implant<sup>2</sup>

### 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* 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



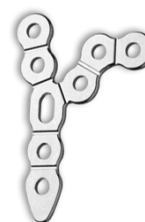
#### Radial Head Plates

- 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
<b>Cannulated, full thread</b>	2.5	10-50	2.0	T8
<b>Locking</b>	2.0	10-30, 35, 40	1.3	T7
<b>Cortex, plate or bone</b>	2.0	10-30, 35, 40	1.3	T7
<b>Cortex, bone</b>	1.5	10-28	1.1	T6

**Oval holes & coronoid plates do not accept locking screws**

#### Manufactured by:

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