Slide-Loc Anatomic Radial Head System
The Acumed Slide-Loc Anatomic Radial Head System is designed to provide an anatomic implant to replace the patient’s native radial head.

Designed in conjunction with Shawn W. O’Driscoll, Ph.D., M.D., the Slide-Loc Anatomic Radial Head System utilizes a unique approach to side-loading radial head prostheses, without the use of a set screw. The Slide-Loc prosthesis head and neck assembly slides onto the stem and rotates in situ into proper alignment using a rotational locking mechanism (see cover image).

Anatomically Shaped Radial Head

As with the original Anatomic Radial Head, the Slide-Loc head was designed to be anatomic. The newest generation improves upon the original design in three key areas:

- The lateral trochlear ridge facet surface has been contoured to optimize contact with the lateral trochlear ridge of the capitellum. Contact in this region may erode the cartilage over time.1, 3
- The dish depth varies from 1.8 mm deep (18 mm head) to 3.3 mm deep (28 mm head) versus a standard 2.0 mm depth on the original Anatomic Radial Head. It’s possible that stability of the elbow may be improved by keeping the dish depth proportional to the size of the radial head.3
- With the annular ligament in mind, a more defined S-shaped contour was built into the lateral side of the radial head prosthesis.

The geometry of radial head implants strongly influences their contact characteristics. In a direct radius-to-capitellum axial loading experiment, an anatomically designed radial head prosthesis had lower and more evenly distributed contact pressures than the non-anatomic implants that were tested.1

The Acumed Slide-Loc Anatomic Radial Head System utilizes reamers instead of broaches for canal preparation. Reamers allow for a 1 mm larger stem diameter when compared to broaches, and may decrease risk of fracture.2

12 Head Options
18 mm to 28 mm left- and right-specific heads

Three Neck Options
+1 mm, +3 mm, +5 mm necks

Long Stem Options
6 mm to 12 mm left- and right-specific long stems (2 mm increments)

Standard Stem Options
6 mm to 11 mm standard stems

504 Combinations
The Slide-Loc Anatomic Radial Head System offers 504 implant combinations. The system includes 12 heads, six standard stems, eight long stems, and three necks.

For more information, please visit: go.acumed.net/SL-1
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REFERENCES

