



Discovery™

Elbow System

 **Lima Corporate**
Orthopaedic  motion

Discovery™

Elbow System



Exclusive Bearing Design

- » **Spherical Hinge**
Reduces wear by providing increased articular surface contact area between the humeral and ulnar components, as well as varus/valgus laxity of 7 degrees
- » **Optimized Hinge Size**
Addresses individual anatomy by allowing any humeral component to be used with any ulnar component
- » **Posterior Hinge**
Unique design allows for assembly or disassembly without compromising either epicondyle





Designed to **reproduce anatomy**
and
restore mechanics

Enhanced Ulnar Positioning

- » Neck Angle
23 degree anterior neck angle of stem allows for anatomic axis of motion
- » Polyethylene Offset and Lateral Bow
Provide for reproduced anatomy
- » ArCom® Polyethylene
Clinically proven to reduce the possibility of stress hemi-delamination and early polyethylene failure [2,3]



Anatomic Humeral Stem

- » Bowed Stem
Offset laterally 5 degrees and internally rotated 5 degrees to reproduce anatomy
- » Cylindrical Base
Bone preserving design minimizes stress risers at the supracondylar columns⁽¹⁾
- » Anterior Flange
Leads to enhanced rotational stability and helps prevent posterior subluxation

Bibliography

- [1] Figgie MP, Inglis AE, Figgie HE. Total Elbow Arthroplasty. In: Petty W, editor. Total Joint Replacement. Philadelphia (USA): WB Saunders Company, 1991. p. 659–706.
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- [3] Currier BH, Currier JH, Collier JP, Mayor MB. Effect of fabrication method and resin type on performance of tibial bearings. J Biomed Mater Res. 2000;53(2):143-51.

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