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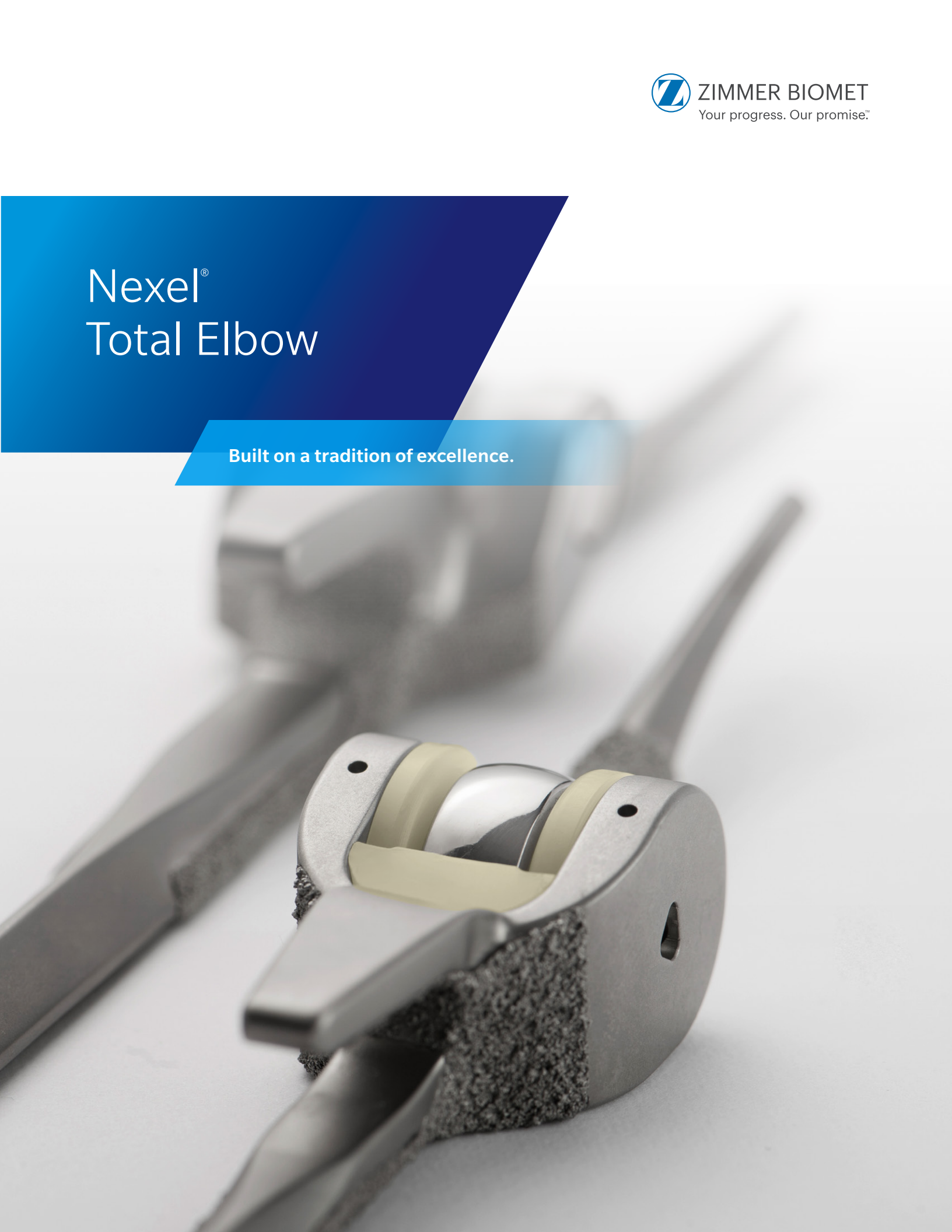
# Nexel®
# Total Elbow

**Built on a tradition of excellence.**



# Good just became great.

The Nexel® Total Elbow is built on the foundation of the original, market-leading Coonrad/Morrey Total Elbow, with more than 30 years of clinical history. In combination with our proprietary Vivacit-E® polyethylene bearings and advances in instrumentation the Nexel Total Elbow makes for a great choice in elbow replacement.

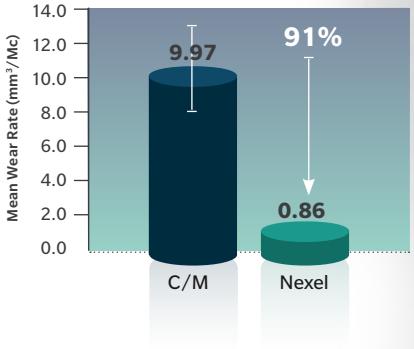
## Significant improvement in wear and durability.[1-4]

- Vivacit-E bearings have highly cross linked polyethylene that is uniformly blended with Vitamin E and designed to prevent delamination, maximize oxidative stability, minimize wear and improve mechanical properties.*
- Semi-conforming, thicker bearing design reduces edge loading and stress, maximizes contact area to distribute joint reaction forces.**
- Robust Co-Cr linkage system enhances linkage durability without applying compressive loads to screws.

*Compared to conventional polyethylene

**Compared to Coonrad/Morrey Total Elbow (C/M)

**Nexel Total Elbow has a 91% reduction in polyethylene wear[1,2]**




## Clinically-proven stem design heritage.[10]

- Intramedullary stem geometry and anterior humeral flange is maintained from the C/M Total Elbow.
- Humeral component finished with Ti-plasma spray to promote fixation and improve stem strength.
- Low Profile A/P design to minimize soft tissue interference.

Specially designed flexible reamers facilitate ulnar canal preparation.

Humeral Rasps have diamond-shaped cutting teeth for efficiency.

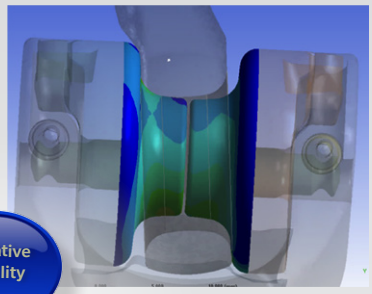
## Modernized, easy-to-use instrumentation designed to improve efficiency and repeatability.

- Humeral preparation system is designed to reduce stress risers through contained, circular resection and to improve precision with enhanced cut-guide stability.
- Rasp tooth geometry with a diamond-cut pattern designed for a more efficient canal preparation.
- Specially designed flexible ulnar reamers included to allow for easier ulnar canal preparation.

Posterior-based linkage system allows for stem seating prior to joint linkage.

### New bearing design improves contact stress distribution in laboratory testing.*[11,12]

The Nexel Total Elbow bearing geometry has been reimagined to allow improvements in contact stress distribution. The semi-conforming bearings are engineered to eliminate edge loading when varus/valgus loads are placed on the ulnar component. Additionally, the bearings are fixed to the humeral component to distribute joint reaction loads over more of the bearings surfaces. An innovative third bearing in the humeral yoke enables increased compressive contact area and provides load sharing for enhanced mechanical integrity.




### Vivacit-E HXPE provides exceptional oxidative stability[5] and wear performance in laboratory testing.*

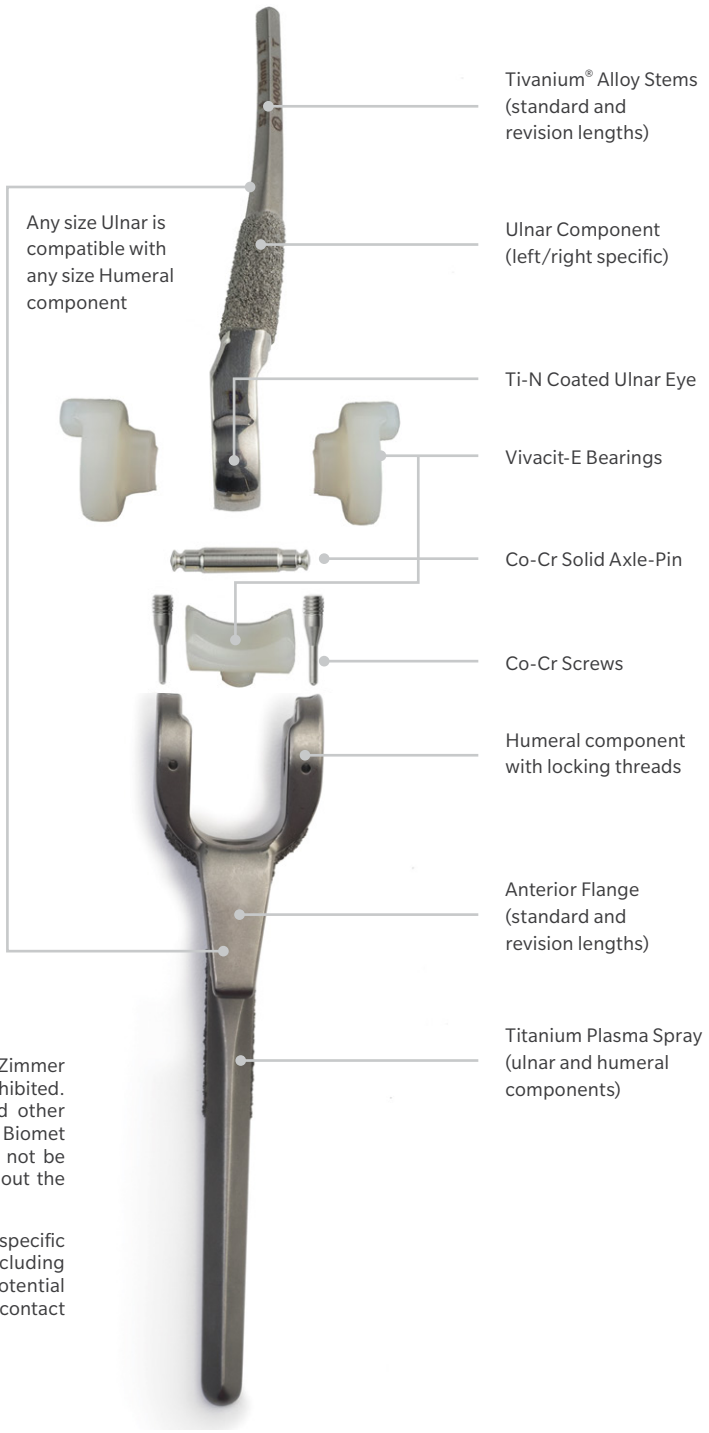
The Nexel Total Elbow utilizes Vivacit-E Highly Cross-Linked Polyethylene bearings, a first in total elbow. Vivacit-E HXPE is significantly superior to conventional polyethylene in wear performance, without a compromise in mechanical strength seen in traditional cross-linked polyethylenes. Additionally, due to grafting of Vitamin E to the polyethylene matrix, Vivacit-E HXPE has exceptional long-term oxidative stability to limit delamination due to residual free radicals. In the end, this enables predictable bearing integrity through the life of the implant.[6-9]

*Laboratory testing is not necessarily indicative of clinical results

**References**

1) Zimmer ZRR_WA_2552_12Rev2*
2) Zimmer ZRR_WA_2407_11Rev2 *
3) Zimmer ZRR_WA_2542_12Rev2*
4) Zimmer ZRR_WA_2598_12*
5) Zimmer ZRR_WA_2409_11*
6) Oral, E. et, al. Crosslinked Vitamin E Blended UHMWPE with Improved Grafting and Wear Resistance. Poster No. 1181. ORS 2011 Meeting.
7) Oral, E. et, al. Trace amounts of grafted vitamin E protect UHMWPE against squalene-initiated oxidation. Poster No. 1295. ORS 2011 Meeting
8) Rowell, S. et, al. Detection of Vitamin E in Irradiated UHMWPE by UVVisible Spectroscopy. Poster No. 1186. ORS 2011 Meeting.
9) Wolf, C. et, al. Radiation Grafting of Vitamin E to Ultra High Molecular Weight Polyethylene. Poster No. 1178. ORS 2011 Meeting.
10) Aldridge, III, Lightdale NR, Mallon WJ, Coonrad RW. Total elbow arthroplasty with the Coonrad/Coonrad-Morrey prosthesis. A 10- to 31-year survival analysis. *J Bone Joint Surg Br* 2006; 88:509-514
11) Zimmer ZRR_WI_1222_12*
12) Zimmer ZRR_WI_2441_11 Rev 1*


*Internal Laboratory test results







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