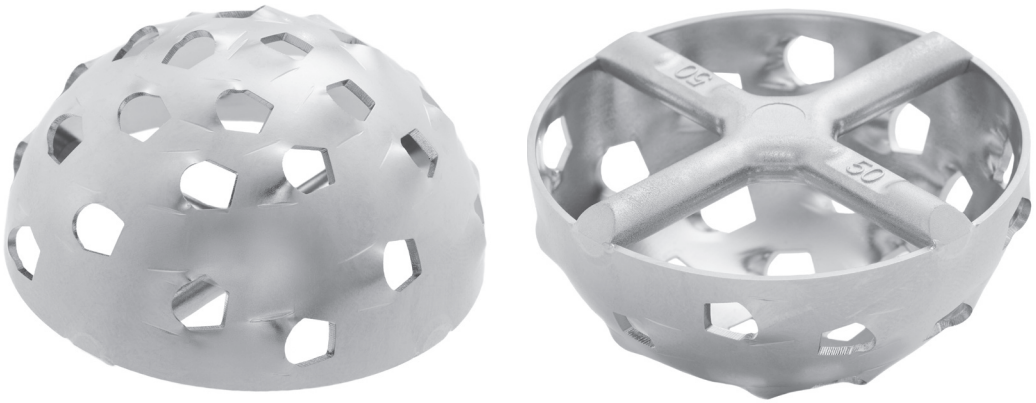


Enztec Acetabular Reamers

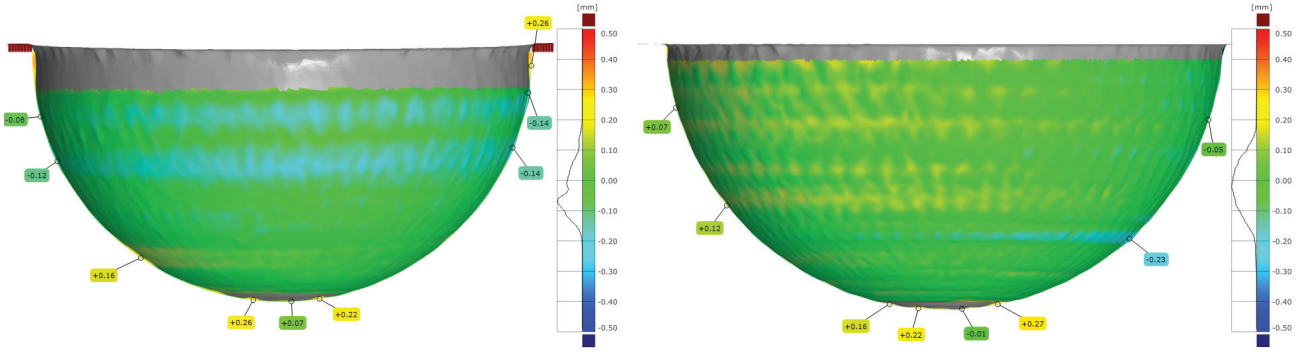
Consistent performance. Validated accuracy. Trusted results.

Enztec Acetabular Reamers create **highly accurate** hemispherical reamed surfaces which leads to better fixation for the acetabular cup. They **cut more efficiently** than competitor products even after repeated use, helping **reduce user effort** and enable more efficient procedures.

Geometric Accuracy

Acetabular reamer geometry directly influences acetabular cup press-fit and fixation consistency. Successful cup placement relies on good primary stability, which results in consistent osseointegration and less chance of acetabular loosening.

A sample of Enztec reamers (36-70mm) were tested by reaming 40 PCF SawBones™ blocks and measuring the resulting cavity with an EinScan Pro HD laser scanner. The resulting cavities were found to have a maximum diametric deviation of ±0.25mm in isolated areas, but with the **majority of the reamed surface having a diametric deviation of less than 0.15mm.**



(a) Size 52mm **(b) Size 68mm**

FIGURE 1 Scanned surface of a hemispherical cavity produced by an Enztec Acetabular Reamer.

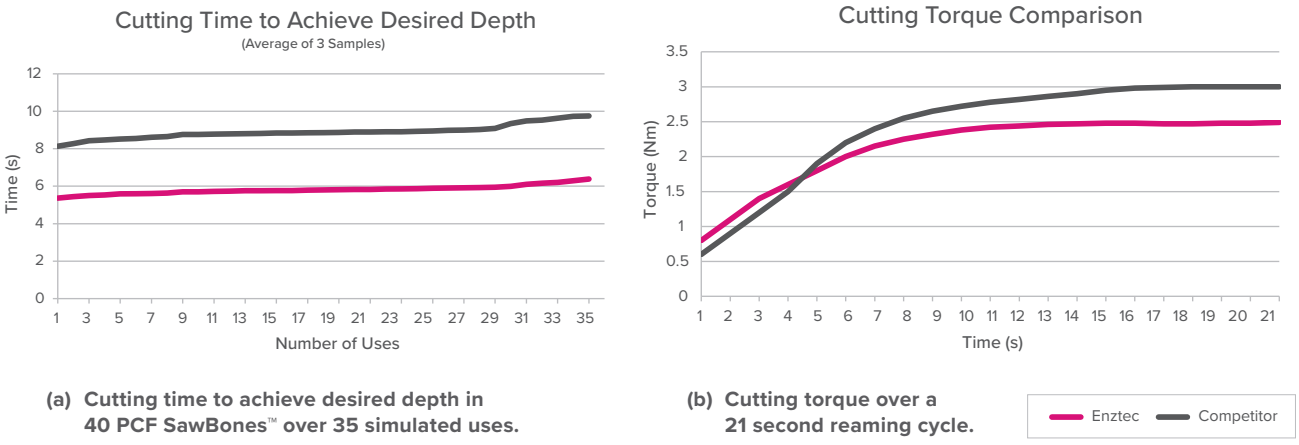
Sustained Cutting Efficiency Over Reamer Life

Acetabular reamers are routinely noted as being a source of frustration for orthopaedic surgeons due to bluntness causing less efficient cutting. This leads to extended operating times, increased effort/surgeon fatigue, and frustration. This degradation in cutting edge sharpness and performance also increases costs for device companies due to more frequent replacement of worn reamers.

Enztec reamers were comparatively tested against a competitor product, with controlled axial load and speed. Test results demonstrated that Enztec reamers outperform their competitors through a year of simulated use:

10 – 34% Faster Cutting	5 – 17% Lower Driving Torque	36 – 48% Higher Cutting Performance

This sustained cutting efficiency indicates retained sharpness and more consistent performance, reducing surgeon fatigue, frustration and the need for early acetabular reamer replacement due to performance degradation, in turn lowering the lifetime cost.



(a) Cutting time to achieve desired depth in 40 PCF SawBones™ over 35 simulated uses.

(b) Cutting torque over a 21 second reaming cycle.

FIGURE 2 Comparison of Enztec vs Competitor Acetabular Reamers, averaged result for 3 samples of each reamer type.

WHY ENZTEC REAMERS

- Verified accuracy supporting consistent press-fit outcomes
- Faster cutting performance maintained over repeated use
- Lower torque demand, resulting in less surgeon fatigue
- Superior performance over product lifetime versus competitor product.

You can trust Enztec Acetabular Reamers to perform more consistently and cause less frustration.