stryker

Tornier Perform®
Anatomic Glenoid

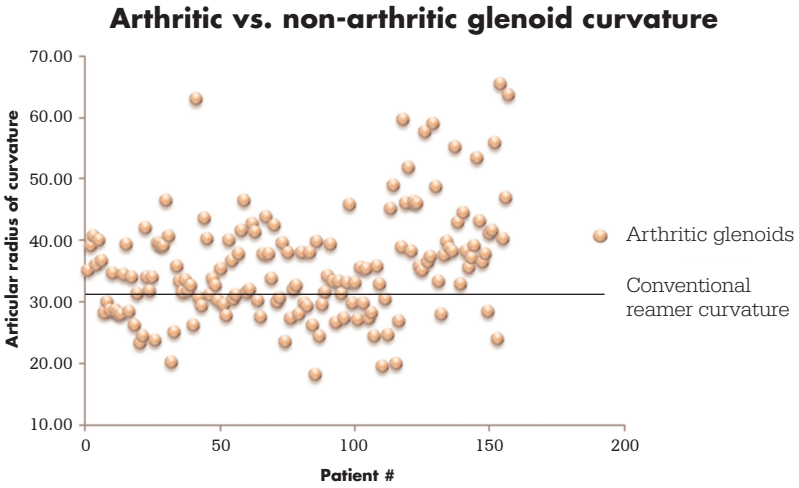
Is your glenoid option as
unique as your patients?

Continuing the legacy

Leveraging nearly two decades of clinical experience with the Aequalis Glenoid, the Tornier Perform Anatomic Glenoid embodies meaningful advancement relying on proven concepts.

A study by Walch, et al., of 145 arthritic patients has demonstrated that arthritic glenoid curvature is much different than non-arthritic glenoid curvature. Nearly all glenoid reamers available today are offered in one curvature, based upon the average non-arthritic curvature.[4]

The Tornier Perform Anatomic Glenoid is the first ever to offer multiple backside curvatures per size to better match variable patient anatomy and preserve subchondral bone, a critical factor in preventing glenoid migration and loosening.



Featuring three specific anchorage options, the Tornier Perform Anatomic Glenoid has the versatility necessary to address a wide range of clinical needs and also provides inter-operative flexibility between a cannulated and non-cannulated approach.

Tornier Perform Anatomic Glenoid leads the way in addressing reported factors in glenoid loosening[3]

The pursuit of advanced patient care

Moving glenoid longevity forward

"With current shoulder arthroplasty systems using a **unique glenoid backside** radius of curvature, there is a risk to perform excessive reaming to 'adapt the bone to the prosthesis,' resulting in **sacrifice of the subchondral bone**. Future implant design should consider including a **range of backside radius of curvatures adapted to the arthritic glenoid** that may avoid excessive reaming and bone sacrifice by 'adapting the prosthesis to the bone.'"

Gilles Walch, MD

Anatomically advanced shoulder reconstruction begins here

For the clinically minded shoulder specialist, the Tornier Perform Anatomic Glenoid is the subchondral preserving glenoid with five backside curvatures, which retains structural support necessary for implant longevity so you confidently know every restoration is as unique as your patient.

A glenoid as unique as your patients

An unforeseen finding

Clinical studies have demonstrated that preserving the glenoid subchondral plate is critical to successful long-term outcomes.[1, 2]

Long-term glenoid survivorship

5 years	10 years	
99.7%	98.3%	Revision survivorship
99.7%	51.5%	Radiographic survivorship

Arthritic vs. normal glenoids

22% Flatter

3x More variance

An insightful discovery

The average arthritic glenoid is 22% flatter than a normal glenoid and has 3x the variance when compared to normal anatomy. Yet, glenoids on the market today generally offer only one radius of curvature.[1]

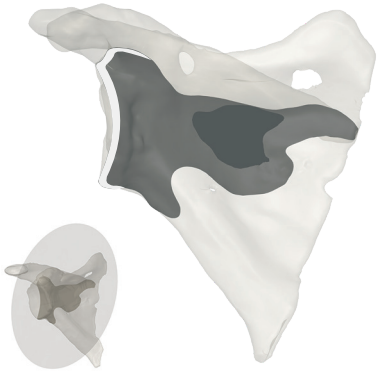
A comprehensive solution

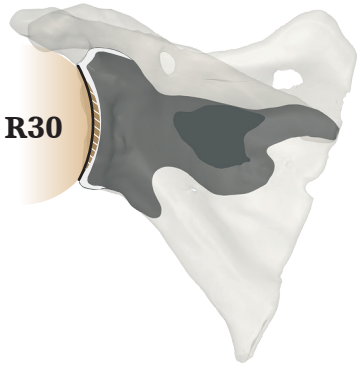
The first of its kind, the Tornier Perform Anatomic Glenoid offers implants with multiple backside curvatures to better match arthritic anatomy. Multiple backside curvatures allow surgeons to ream less and preserve cortical bone during surgery, with the goal to enhance implant longevity.

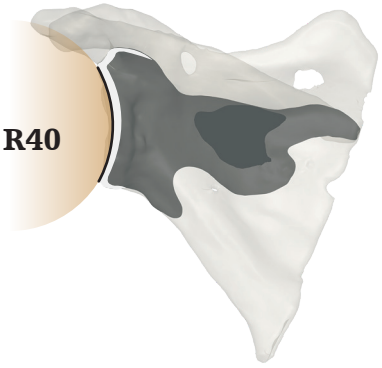
30 | 35 | 40 | 50 | 60 Tornier Perform Anatomic Glenoid backside curvatures

A millimeter saved is a millimeter earned

Study 1







Arthritic glenoids

A recent CT study of arthritic glenoid articular curvatures demonstrates significant variation ranging from nearly flat to very cupped surfaces.

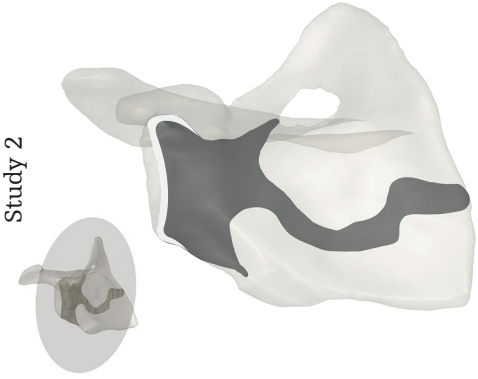
Traditional reaming

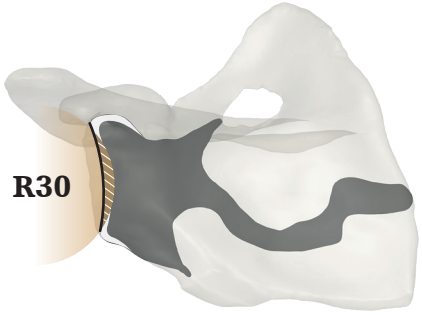
Based upon normal anatomy, most glenoid implants and reamers are offered in a single backside radius of curvature. As a result, subchondral bone is often sacrificed to achieve good fit between the implant and the bone.

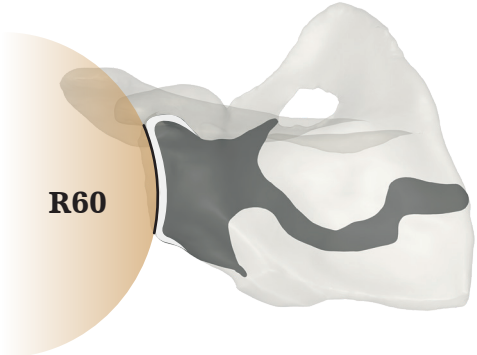
Tornier Perform reaming

Designed to uniquely match arthritic anatomy, the Tornier Perform Anatomic Glenoid reamers preserve subchondral bone. Backside glenoid support matters: Ream less, and improve the opportunity for implant longevity.

Study 2







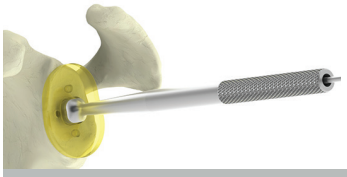
Anatomic in action

Anatomically tailored

- Five radius gauges assist in determining each patient's unique glenoid curvature.
- Color-coded instrumentation provide for a logical, straightforward surgical progression.

Small | Medium | Large | X-Large

Precisely guided



- The cannulated option allows for accurate and efficient glenoid preparation.
- Version correction is easily accomplished with 5º and 10º offset pin guides.

Uncommonly versatile

- The slotted reamer design and quick connect driver simplify glenoid access while mitigating risks of uneven reaming or glenoid fracture by using a full circular reamer.

Uniquely agile

- The pivoting reamer allows for low profile insertion while providing retraction of glenohumeral anatomy, all while requiring 31%[3] less insertion width than a standard reamer.

References

1 Gilles Walch, MD; Allan A. Young, MD; Pascal Boileau, MD; Markus Loew, MD; Dominique Gazielly, MD and Daniel Molé, MD. Patterns of Loosening of Polyethylene Keeled Glenoid Components After Shoulder Arthroplasty for Primary Osteoarthritis. Results of a Multicenter Study with More Than Five Years of Follow-up.

2 Gilles Walch, MD; Allan A. Young, MD; Barbara Melis, MD; Dominique Gazielly, MD; Markus Loew, MD; Pascal Boileau, MD. Results of a convex-back cemented keeled glenoid component in primary osteoarthritis: multicenter study with a follow-up greater than 5 years.

3 Tornier Data on File.

4 Gilles Walch, MD; Gilles Walch, MD; Mena Mesiha, MD; Pascal Boileau, MD; T. Bradley Edwards, MD; Christophe Levigne, MD; Gregory Moineau, MD; Allan Young, MD. Three-Dimensional Assessment of the Dimensions of the Osteoarthritic Glenoid. This study aimed to assess the size and radius of curvature of arthritic glenoids. A total of 145 CT scans were analyzed.

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