BRASSELER
USA® SURGICAL

SURGICAL TECHNIQUE GUIDE

EZX ACETABULAR CUP REMOVAL SYSTEM

for use in hip revision surgery

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BM-5473 RevC. 2024-08-20

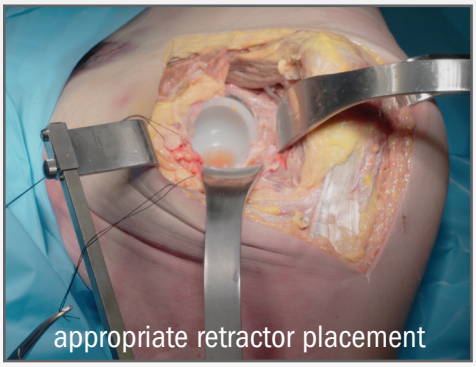
SURGICAL TECHNIQUE GUIDE

STEP 1

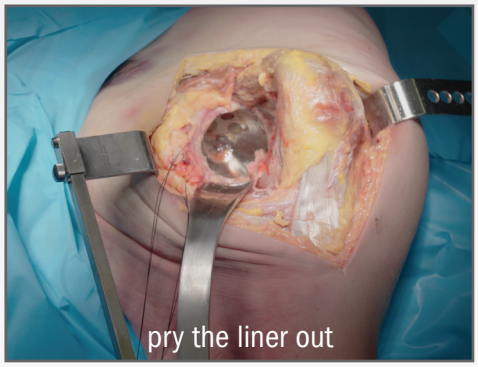
PREPARE THE SURGICAL SITE

Preparation of the surgical site is key. Remove the current liner and all screws. Remove all osteophytes and soft tissue surrounding the cup to completely define the margin of the cup before cutting.

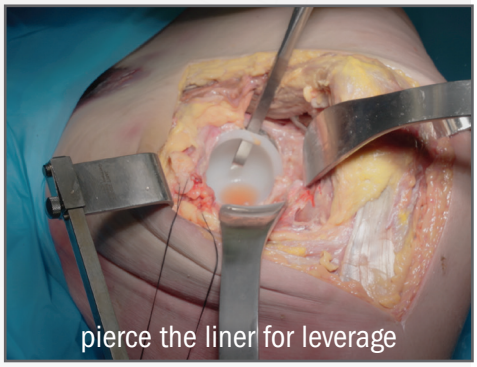
The EZX system is designed to remove hemispherical cementless and cemented cups. It is recommended that the EZX system be used for posterior lateral approach revisions.



appropriate retractor placement

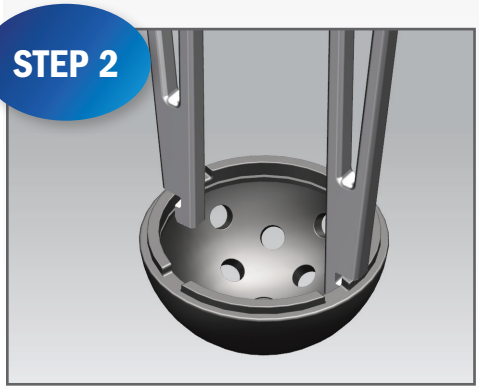


pry the liner out



pierce the liner for leverage

STEP 2

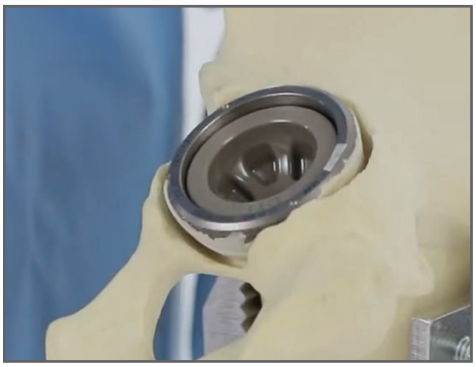


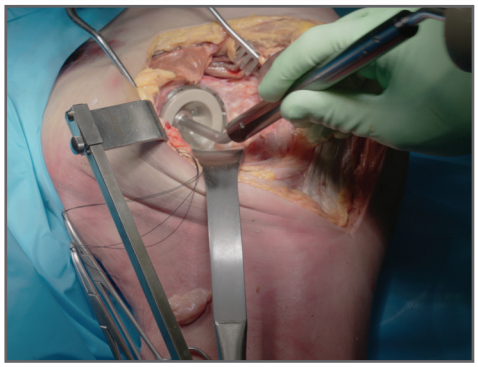
SIZE THE LINER

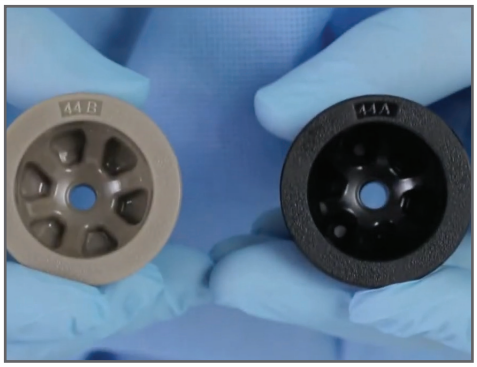
Measure the inside diameter (I.D.) of the cup using the EZX caliper tool.

Select the liner of the same size as the I.D. of the cup. The liner should be flush to the face of the cup showing the periphery of the cup, but able to freely articulate inside the component.

Use EZX liner trial handle to assist in accurate sizing of liner. Tan liners are associated with all hemispherical cups while black liners are associated with all non-hemispherical cups lateralizing the system 2mm for a tighter cut at the medial apex.







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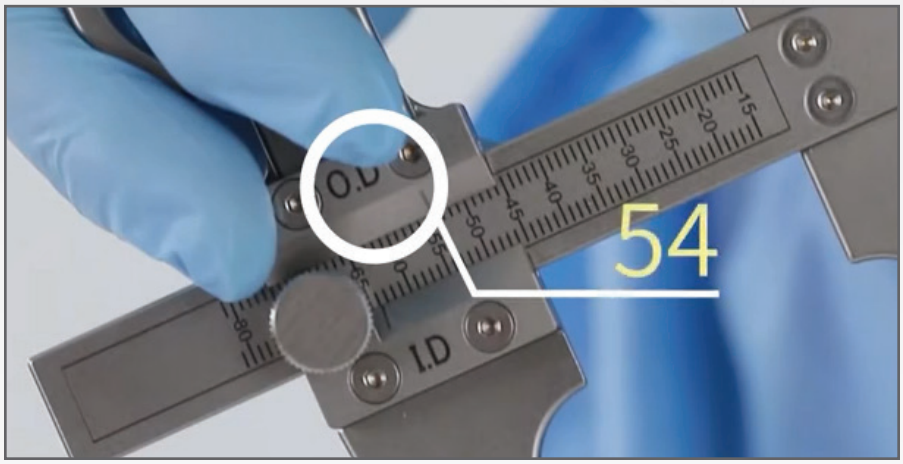
STEP 3

SIZE THE BLADE

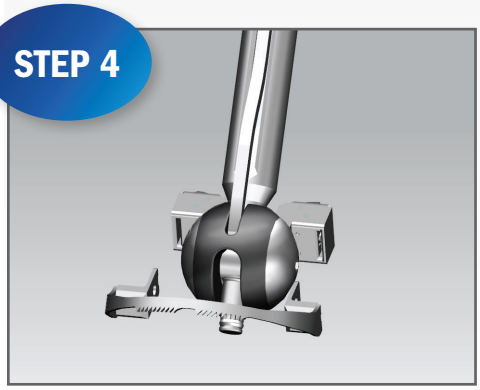
Measure the outside diameter (O.D.) of the cup by reading the scale of O.D. of the caliper.

Select the blade size that is 2-4mm larger than the cup.

If the O.D. measurement is in between sizes, it is recommended to round up.



STEP 4



ASSEMBLY

After appropriate blade size is determined, insert the EZX blade into the shaft by aligning the tabs on the blade with the corresponding slot at the end of the device with the teeth facing away from the shaft. The blade will click into place on either side. Next attach the correct liner size to the head of the shaft.

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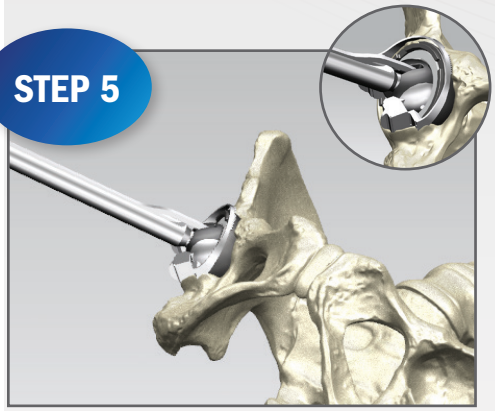
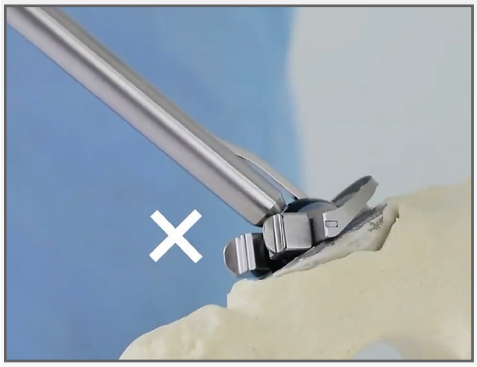
STEP 5

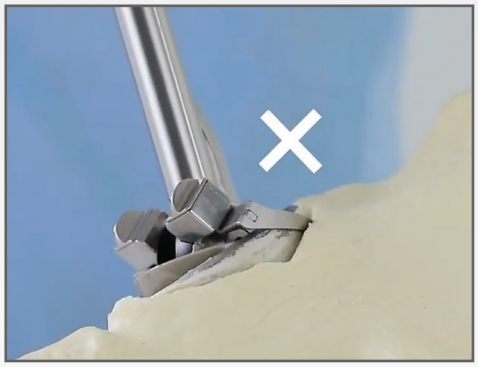


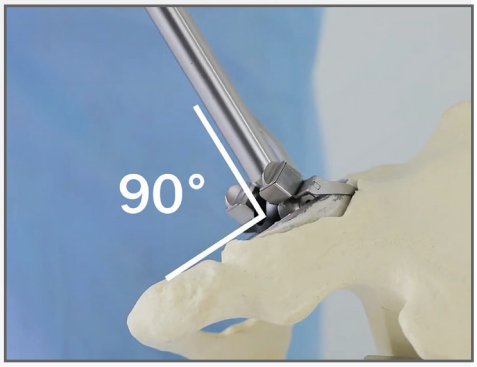
INITIAL CUT

Make sure the power setting is on “drill” and the EZX shaft is attached to powered handpiece using a modified Hudson adapter.

Insert the shaft perpendicular to the cup at a 90 degree angle. Initiate power and allow the blade to rotate freely with minimal force. While the blade is in motion, apply pressure to the side handle of the shaft to progress the blade forward.





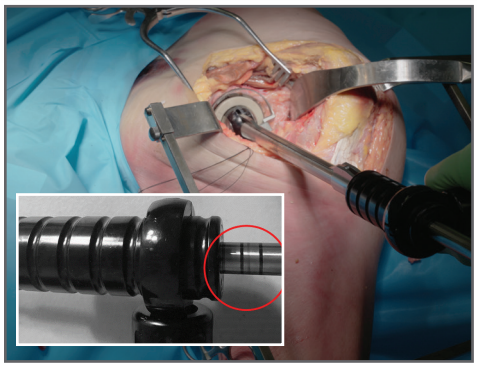


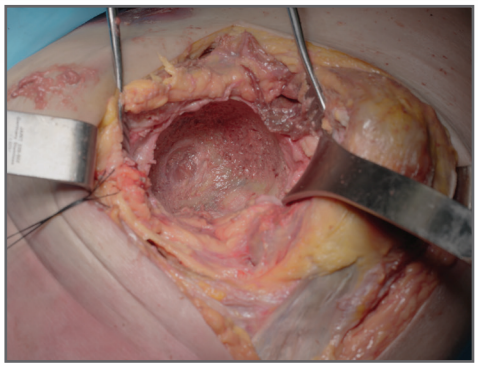
STEP 6

COMPLETING THE CUT

Once initial cut is made, apply pressure to advance the side handle of the shaft forward until the cup is fully extracted. The system must still be kept at a perpendicular angle until the cut is complete. If the blade jams, release pressure and slow power until the blade rotates freely again.

The shaft shows depth marks when the side handle is advanced forward. The first mark indicates 50% of the cut is complete, followed by 75% and 100% respectively.





EZX INCEPTION

The Birth of Orthopaedic Revision Excellence

Dr. Chong Chol Kim, PhD, Nuclear Physics, was the visionary inventor of the hemispherical rotating cutting blade, a groundbreaking tool for revision hip acetabular cup removal.

As a lifelong educator and scholar who pursued knowledge for its own sake, Dr. Kim's passion for learning and innovation left an indelible mark on surgical advancements. His inventive spirit and dedication to improving patient care are exemplified in this revolutionary invention.

Known for his kind, gentle demeanor, Dr. Kim demonstrated a remarkable ability to conceptualize innovative solutions in the medical field. His hemispherical rotating cutting blade was meticulously designed to replace the traditional manual strike-and-chip tool used in revision arthroplasty. This enabled faster, cleaner, and more efficient cup extraction.

Dr. Kim’s contributions have had a profound impact on surgical practices worldwide, reducing the physical burden of revision arthroplasty on both patients and surgeons.

The EZX Acetabular Cup Removal System, based on Dr. Kim's proprietary design, has been adopted by physicians globally, leading to improved surgical outcomes. These benefits include reduced bone and blood loss, shorter procedure times, minimized anesthesia duration for patients, and decreased surgeon fatigue.

This revolutionary cutting blade was patented* in 2017, just six months before Dr. Kim's passing at the remarkable age of 99. His son, William C. Kim, MD, FAAOS, Orthopedic Surgeon, played a crucial role in promoting this advancement, furthering his father's legacy.

This technique guide is not only a resource to highlight the features and benefits of the EZX System but also serves as a tribute to Dr. Chong Chol Kim's enduring legacy in both the scientific and medical communities.

*The patent was transferred to Infinesse Corporation, which then licensed the detailed design to Imedicom/Korea for product development and further global marketing/sales through Brassler/Imedicom as “EZX”.

EZX
ACETABULAR CUP REMOVAL SYSTEM

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EZX

ACETABULAR CUP REMOVAL SYSTEM

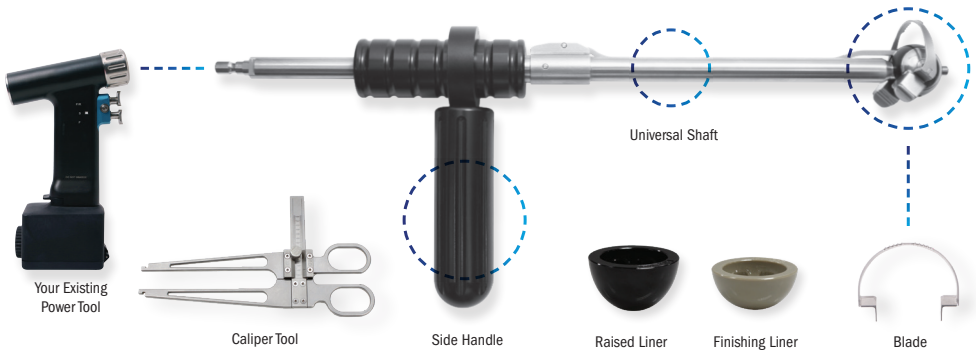
The EZX System is exclusive to Brasseler USA Surgical. Its proprietary design allows easy access for the removal of cemented and non-cemented acetabular cups during hip revision surgery. The system utilizes powered technology with a single rotating blade to reduce surgical procedural time and the risk of acetabular fractures. The 29 blade options make a precise cut with predictable results to minimize bone loss.

FEATURES:

- ✓ Compatible with any powered handpiece
- ✓ Removes cemented and non-cemented cups
- ✓ 29 blade options: size 46-74 in 1mm increments

BENEFITS:

- ✓ Reduces surgical procedural time
- ✓ Minimizes bone loss
- ✓ Simplifies complex hip revision surgeries, improving patient recovery and mobility
- ✓ Precise cut with predictable results
- ✓ Reduces the risk of acetabular fractures



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