MAKOplasty®
Partial Knee Resurfacing
Performed with Proven Robotic Arm Technology

Just like fingerprints, no two knees are the same. You deserve a knee procedure customized just for you.

UKNEEQUE

RIO® Robotic Arm
Interactive Orthopedic System
What Is MAKOplasty® Partial Knee Resurfacing?

MAKOplasty is a minimally invasive Partial Knee Resurfacing procedure performed using the proven technology of the RIO® Robotic Arm Interactive Orthopedic System.

MAKOplasty is the only truly patient-specific treatment option. It is based on a 3-D model of your unique knee that is used to create a customized pre-operative plan and to provide guidance for the surgeon during surgery.
Why MAKOplasty® Partial Knee Resurfacing?

- MAKOplasty enables surgeons to perform more accurate bone preparation, implant placement, and alignment.
- MAKOplasty saves as much healthy bone and ligaments as possible—including the anterior cruciate ligament and posterior cruciate ligament—for a more natural feeling knee.
- Compared with conventional partial knee replacement, MAKOplasty provides:
  - Less post-operative pain\(^1\)
  - Increased post-op function\(^2\)
  - Nine times lower failure rate at two years post-op\(^3\)
MAKOplasty® Treatment Options

Unicompartmental (one compartment)

Medial (inside)
Patellofemoral (top)
Lateral (outside)

Bicompartmental (two compartments)

Medial and patellofemoral portions of the knee
The MAKOplasty® Procedure: Before Surgery

- A computed tomography (CT) scan is taken of your knee
- The RIO® system’s software creates a 3-D model of your unique anatomy
- This allows your surgeon to plan accurate placement and alignment of partial knee implants before surgery and to make adjustments during surgery as needed
When the surgeon prepares the bone for the implants, the RIO robotic arm enforces a “safety zone” by providing visual, auditory, and tactile resistance at the boundaries defined by the plan.
MAKOplasty® Clinical Results

Less Post-Operative Pain and Improved Knee Function Compared with Conventional Partial Knee Replacement Surgery

• Initial results of an ongoing study found MAKOplasty patients experienced less post-operative pain in the first eight weeks after surgery¹

• Twice as many MAKOplasty patients had improved knee function, based on American Knee Society Scores at three months¹
MAKOplasty® Clinical Results

More Accurate Implant Placement Than Conventional Partial Knee Replacement Surgery

- The same study found that MAKOplasty implants were placed with higher accuracy compared with manual placement of Oxford® implants.

Oxford® is a registered trademark of Biomet, Inc.
MAKOplasty® Clinical Results

Lower Two-Year Implant Failure Rates

- A study of MAKOplasty patients who had partial knee resurfacing with RESTORIS® MCK medial onlay implants showed a very low failure rate of only 0.4% at two years—nine times lower than that of manual surgery.
- This study was conducted by four surgeons, who evaluated 201 patients (224 knees) at a minimum two-year follow-up.

MAKOplasty Two-Year Failure Rate vs. Manual

9X lower failure rate

0.4% MAKOplasty
Stop Hurting and Start Moving

With robotic arm assisted MAKOplasty®, each patient is treated uniquely and with consistently reproducible precision. Potential benefits compared with manual procedures include:

- More accurately placed implants\(^1\)
- Less post-operative pain\(^1\)
- Increased range of motion and functionality\(^2\)
- More natural feeling knee
- Reduced hospital stay and more rapid recovery
- Lower failure rates based on early clinical data\(^3\)
References


For more patient information, please visit makoplasty.com or call 877.411.MAKO (6256)

The information provided herein is not meant to substitute for the in-depth consultation you should have with your physician. Only a licensed physician can adequately diagnose and explain your underlying orthopedic condition, the natural history of the condition without intervention, the MAKOplasty® procedure, medically acceptable alternative procedures, and the potential complications and risks of any procedure and/or operation. In every case your physician must guide you on all aspects of your surgery, including pre- and post-operative care. Individual results will vary.

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