



**Outpatient Clinic**

**Locations**

- Akron
- Barberton
- Cuyahoga Falls
- Green
- Hudson
- Kent
- Medina
- Montrose
- Streetsboro
- Wadsworth

**Surgical Locations**

- Akron
- Montrose

**QuickCare Locations**

- Montrose
- Green

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**CRYSTAL CLINIC ORTHOPAEDIC CENTER NOW OFFERING HIGHLY ADVANCED  
ROBOTIC-ARM ASSISTED JOINT REPLACEMENT PROCEDURES WITH STRYKER'S  
MAKO SYSTEM**

*Innovative Robotic Technology Allows Surgeons to Personalize Total Knee  
and Partial Knee Replacement Procedures*

AKRON, OH – Crystal Clinic Orthopaedic Center is one of the first hospitals in Northeast Ohio to offer robotic-arm assisted partial and total knee replacements with Stryker's Mako System. This highly advanced robotic technology adds to our ability to successfully replace knee joints and will now enable our surgeons to have an additional tool for the difficult knee joint problems requiring more predictable accuracy.

The Mako System provides each patient with a personalized surgery based on their specific diagnosis and anatomy. Using a virtual 3D model, Mako allows surgeons to create each patient's surgical plan pre-operatively before entering the operating room. During surgery, surgeons can validate that plan and make any necessary adjustments while guiding the robotic-arm to execute that plan. Crystal Clinic is excited to offer this transformative technology to perform total and partial knee replacements.

The Mako Total Knee application is a knee replacement treatment option similar to existing knee replacement techniques already employed by Crystal Clinic joint replacement surgeons. The Mako system is designed to assist surgeons faced with replacing more severely damaged knee joints caused by joint degeneration due to osteoarthritis. Through CT-based 3D modeling of bone anatomy, surgeons can use the Mako System to create a personalized surgical plan and identify the implant size, orientation and alignment based on each patient's unique anatomy. The Mako System also enables surgeons to virtually modify the surgical plan intra-operatively and assists the surgeon in executing bone resections.

The Mako Partial Knee application is a treatment option designed to relieve the pain caused by joint degeneration due to osteoarthritis that has not yet progressed to all three compartments of the knee. Following the personalized pre-operative plan, the surgeon guides the robotic-arm during bone preparation to execute the pre-determined surgical plan and position the implant. By selectively targeting only the part of the knee damaged by osteoarthritis, surgeons can resurface the diseased portion of the knee, while helping to spare the healthy bone and ligaments surrounding the knee joint. Studies have shown robotic-arm assisted partial knee replacement to be two to three times more accurate than manual partial knee replacement procedures.

Add One

Crystal Clinic Offers Mako System Robotic Knee Replacement

For more information about Crystal Clinic Orthopaedic Center, or to schedule an appointment, visit [www.crystalclinic.com/makoknee](http://www.crystalclinic.com/makoknee) or call (888) 826-0539.

### **About Crystal Clinic Orthopaedic Center**

Crystal Clinic Orthopaedic Center (CCOC), a physician-owned, major orthopaedic specialty hospital located in Northeast Ohio, serves patients throughout Ohio and contiguous states who are in need of care and treatment of conditions affecting the musculoskeletal system, including bones, joints, muscles, tendons, skin and related tissues as well as plastic surgery care. Our board-certified surgeons have decades of experience and perform more than 15,500 orthopaedic surgeries each year. CCOC is consistently recognized for providing outstanding patient care. The Centers for Medicare and Medicaid Services (CMS) has awarded CCOC a five-star rating for Overall Hospital Quality, the only orthopaedic hospital to receive this rating in Northeast Ohio. CareChex<sup>®</sup>, a division of Comparion Medical Analytics, named CCOC #1 in Northeast Ohio for Spinal Surgery and Joint Replacement and #10 nationally for major orthopaedic surgery in its ratings of America's Top Quality Hospitals in 2016. The Joint Commission has awarded CCOC with Disease-Specific Care Certification in total hip, total knee, total shoulder and spinal fusion procedures, the only hospital in Ohio to earn the Joint Commission's gold seal in all four orthopaedic areas. For more information, visit [www.crystalclinic.com](http://www.crystalclinic.com).

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