

MBARS: Mini Bone Attached Robotic System for Joint Arthroplasty

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Product and application

- A miniature bone-attached robot that results in a lower cost and more accurate bone shaping for minimally invasive orthopaedic surgery
- Benefits are similar to those which CNC machining brought to manufacturing processes.
- The system actively and accurately guides the cutting tool over the bony surface

Compelling advantages

- Reduces operating time generating increased throughput
- Eliminates the need for external tracking devices.
- Significantly reduces the need for supporting equipment
- Significant reduces radiation exposure
- Increases lifetime functionality of the artificial joint
- Enables Minimally Invasive Surgery

Size of the potential market

- Market exceeds a \$1B
- Payback to the institution in less than 6 months

Competition

- Manual procedures
- More expensive; less exact

Provisional patent applied for

