

Case Histories: Medical

Biach engineers respond to one of a kind problems encountered by customers in many diverse industries.

Surgical Bone Reamer - Assembly Tooling

Customer: SnapOn Medical / Zimmer

Problem:

Customer was experiencing unacceptable scrap rates and cycle times during the assembly of their proprietary surgical drill. The customer was also facing an expedited delivery date for their largest order to date.



Solution:

After studying the customers actual assembly process, Biach's Industrial Design and Mechanical Engineering Specialists created an interactive presentation that depicted the new tool and operational sequence to assemble the surgical drills. Upon approval of the concept, mechanical engineers went to work on the details. The design allowed for sequential or simultaneous assembly of all surgical drill components.

Magnetic Resonance Imaging Machine - Assembly Tooling

Customer: GE Medical

Problem: Aligning the magnets of a new MRI machine required eight tie rods to be simultaneously tightened to bring the magnets in to perfect alignment. Traditional torquing methods were time consuming and error prone.



Solution: Biach developed an ultra compact tensioning system that applied even tension to all eight tie rods simultaneously which dramatically cut down the assembly time while improving the quality of the finished product.