

Case Study:

Ring is an “Essential” Partner

*Ring Precision delivers complex, high precision, medical molding cores for a **MEDICAL DEVICE** manufacturer*



Incumbent Process

- ❑ Customer was purchasing core pins produced using conventional methods of manufacturing, which typically require longer lead times, multi-step operations, custom tooling and work holding fixtures
- ❑ This resulted in unwanted process variation, part-to-part inconsistencies, and ultimately – a higher rate of scrap



Challenge

- ❑ Supply chain constraints and workforce capacity and raw material related supply chain delays
- ❑ Unique core pin geometry, with very tight tolerances requirements and RMS surface finish requirements
- ❑ Complex geometry and tolerances of core pin challenged conventional inspection methods
- ❑ Custom part packaging required to protect the critical nature of the part and polished surface finish
- ❑ Short lead times required given the urgent need for tooling

Solution

- ❑ Ring Precision consulted with customer’s engineering and manufacturing teams, as well as two separate mold builders, to identify the needs, finish requirements, timing, and overall complexity of the tooling required for the medical cores
- ❑ Ring was able to leverage expansive network of certified specialty metals vendors to locate raw materials despite supply chain constraints
- ❑ Worked directly with the CNC machine OEM to modify software and generate program code specific to this project
- ❑ Ring purchased polishing equipment and supplies and participated in polishing training sessions to ensure the unique finish of the core pins was achieved
- ❑ Inspection and quality demands were met using the diverse suite of inspection equipment and custom work holding/inspection fixtures to collect critical to function part data
- ❑ Developed tool specific packaging to ensure safe delivery to customer

Benefit

- ❑ Customer received a high performing tool with longer life expectancy
- ❑ Customer was able to produce its product, benefiting countless patients
- ❑ Unnecessary downtime was eliminated for customer given expeditious manufacturing of tooling and zero quality defects

Ring subsequently received an achievement award from the Customer “recognizing outstanding service, team performance, and relentless commitment to supporting their ability to increase production of critical products used by physicians.” The Customer went on to note that Ring is a “world class organization committed to customer success.”