

# Ranfac

## ENGINEERING SERVICES

### PRODUCT DESIGN & DEVELOPMENT

*The Ranfac Engineering team is experienced and fully capable of aiding you in the design of your product and providing a rapid prototype:*

- Experienced in Systems Equipment Analysis & Design
- Project Management Best Practices
- ISO & SPC System/Tools
- Mold Design Capabilities
- CAD/CAM Capabilities with SolidWorks™
- Solid Modeling
- State-of-the-art Inspection Equipment

### DESIGN FOR MANUFACTURING

*Our Engineering team will provide a comprehensive documentation package for every product we manufacture, this package can include:*

- Drawings
- Bills of Material
- Routings
- Control Plan
- Flow Chart

### MANUFACTURING PROCESS & IMPLEMENTATION

- Process Validations
- IQ, OQ, & PQ activities
- Process FMEA's

### ADDITIONAL CAPABILITIES

- Design Failure Mode and Effects Analysis
- Product Risk Analysis

*In order to meet demanding production and product specifications, Ranfac's quality management system is certified to ISO 13485:2003, Directive 93/42 EEC and maintains compliance with the FDA, CGMP/QSR, AQL sampling and SPC.*



*Precision instruments for specialized applications*

Ranfac® Corp. | 30 Doherty Avenue | P.O. Box 635 | Avon, Massachusetts | 02322-0635 | USA

Call toll free 1.800.2-RANFAC (1.800.272.6322) • Tel 508.588.4400 • Fax 508.584.8588 • [www.ranfac.com](http://www.ranfac.com) • Email: [info@ranfac.com](mailto:info@ranfac.com)

Since 1888

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## SINGLE SOURCE MANUFACTURING CAPABILITIES

### GRINDING

- Centerless Grinding
- Cylindrical Grinding
- Electrochemical Grinding
- Robotic/Robotic Grinding
- Surface Grinding

### CUTTING

- Abrasive Cutting
- Electrochemical Cutting
- Cold Sawing

### ANNEALING

- Oven
- Induction Annealing
- Flame Annealing

### MANUFACTURING

- Forming and Bending
- General Machining
- CNC Machining
- Micromachining

### LASER CAPABILITIES

*Utilizing state-of-the-art Lasag CNC laser.*

- Laser Cutting and Welding
- Laser Etching

### GENERAL SERVICES

- Pad-Printing (private label)
- Chemical Etch
- Coining
- Pinching
- Crimping
- Pouch Sealing/Coding
- Bag sealing
- Rotary Swaging
- Sand Blasting
- Hole Blasting
- Milling
- Turning
- Flaring
- Masking
- Material Management

### PLASTIC MOLDING

*Ranfac offers complete Molding services to customer's exacting specifications.*

- Insert with Deggating
- Injection (Robotic separation and conveyerization)
- Custom plastic blending
- Mold Maintenance Dept.
- Environmentally controlled molding area

### BONDING

- Gluing
- UV Curing
- Epoxies
- Heat Induction Braising
- Solvent Bonding
- Welding (TIG)
- Hydrogen Braising
- Ultrasonic Welding

### FINISHING

- Buffing
- Vibratory Grinding and polishing
- Deburring
- Electropolishing
- Passivation
- Descaling
- Ultrasonic Cleaning

### ASSEMBLY AND PACKAGING

*Within Ranfac's ISO Class 7 Clean Room, we can customize packaging to each customer's specific needs*

- Pouching
- Custom Labeling
- Heat Staking
- Stamping
- Device Assembly (Hand and Machine)
- Sterilization ETO (Ethylene oxide)
- Lab Testing

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ISO 13485

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