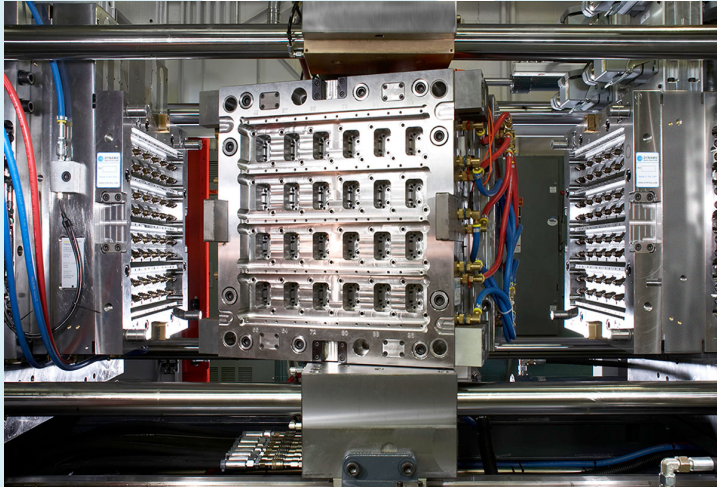


**DYNAMIC**  
TOOL CORPORATION  
ISO 9001:2015 Certified

## **HIGH PRODUCTIVITY INJECTION MOLDS**

Effective and efficient engineering, design, and development solutions for optimized production of plastic components



Engineering & Design for Manufacturing (DFM)

Mold Building - with Inline Quality Inspection

Scientific Sampling and Process Qualification

Turnkey Manufacturing Systems

Multishot / Multiple Material Technologies

Production molds from 1 to 256+ cavities

### **Team: 85**

- Toolmakers
- Designers / Programmers
- Mechanical / Electrical / Process Engineers
- Apprentices
- Program Management

### **Facilities:**

- 50,000+ square feet – Mold Manufacturing
- 120,000+ square feet – Development Center
  - Turnkey cell development
  - Metrology Lab
- 24-hour lights-out manufacturing



## **Performance-Based Machining Technology & Processes**

**Automated Hard Steel Cutting Cell**  
- 5 Machine Centers  
- Robotically integrated CMM

**Automated Sinker EDM Cell**  
- 5 Machine Centers  
- Robotically integrated CMM

**Automated Graphite Cutting Cell**  
- 4 Machine Centers  
- Robotically integrated CMM

6 Wire EDM Centers (2 CNC hole-poppers)

6 Hurco VMXi Machine Centers

3D Print / Additive Manufacturing

CNC Lathes / Grinders / Jig-Grinders

Horizontal CNC Boring Mill

# Prototype -- Bridge -- Production Molds

**Single Shot**

**High Cavitation**

**Multishot / Multiple Material**

- Core Back / Toggle
- Robotic Transfer
- Indexing / Rotary Stripper Plate
- Rotary Turntable
- Horizontal Rotary Stack (90° or 180°)
- Rotary Spindle System

**Auto Unscrewing**

**In-Mold Close**

**Collapsible Core**

**Insert**

**IMD / IML**

**Stack Molds**

**Thin Wall**

**High Complexity**

**Tight Tolerance**



## In-House Mold Processing and Qualification

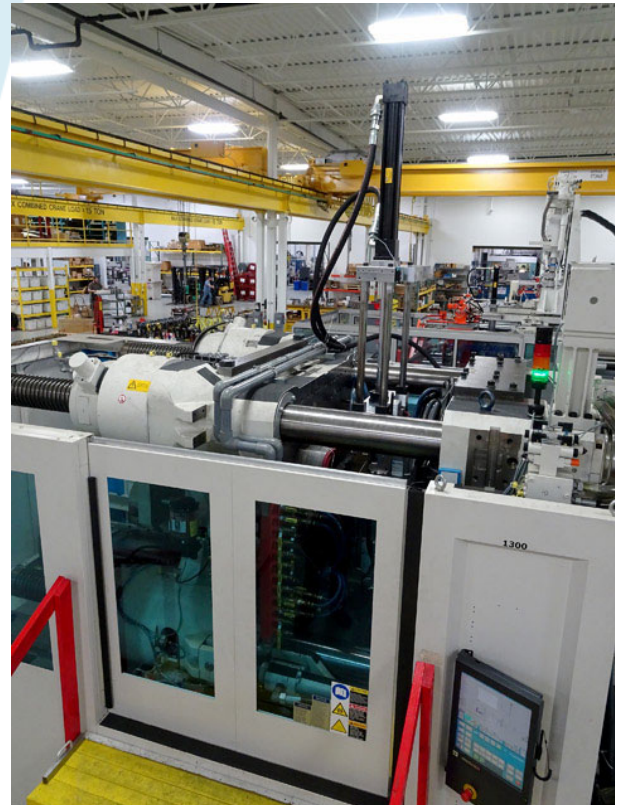
Every mold is given a comprehensive performance evaluation: mechanics, plumbing, plastics delivery, and ejection system

- 8 injection molding machines
- 22T – 900T dedicated to development
- All multishot capable

Dynamic embraces Scientific Molding Principles as a proven method to yield the most repeatable processes for most applications, exploring key attributes:

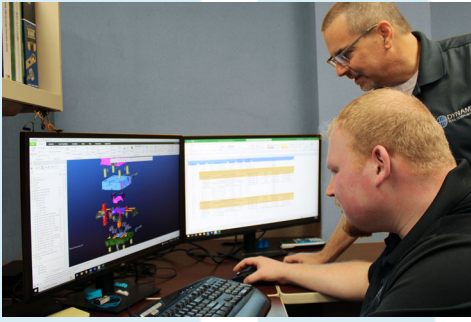
- Mold Balance
- Velocity Curve
- Short Shot Study
- DOE – Design of Experiments
- Pack and Hold
- Window Study

Initial production runs available to suit customer launch plans





Markets: Healthcare / Medical Device, Packaging, Personal Care, Electronics

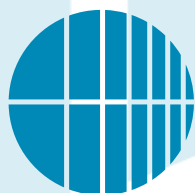
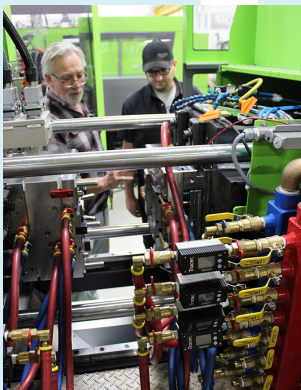


## Committed to our Community and Industry

DYNAMIC is a long-time and avid supporter of promoting careers in manufacturing. We work with our regional educational resources, providing apprenticeship and internship opportunities. We are a consistent sponsor of high school and college career fairs and host a number of student-teacher tours of our facilities.



We are committed to sustainability and environmental practices in our daily operations, working with our customers to co-engineer lighter products to save material, energy, and shipping costs. Developing parts with thinner walls through part design changes and technologies such as gas injection, and designing molds with advanced cooling technologies leading to faster cycle times and further cost and energy savings - Dynamic enables sustainability success.



**DYNAMIC**  
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