



## Mold Manufacturing and Design Capabilities

The **high performance injection molds** created by ATM blend Craftsmanship with Technology. They are products that combine innovation and artistry – they are products that we, as ATM, are extremely proud of.

### Facilities

Click the arrows for more details and the green links for an image:

- ▶ [150,000 sq.ft. Facility](#)
- ▶ [In-House Mold Testing Capabilities](#)
- ▶ [High Speed Milling Equipment](#)
- ▶ [CNC Palletized EDM Equipment](#)
- ▶ [Wire Electrical Discharge \(Wire EDM\)](#)
- ▶ [CNC Lathe Equipment](#)
- ▶ [Surface Grinding Equipment](#)
- ▶ [CNC ID/OD Grinding Equipment](#)
- ▶ [CNC Jig Grinding Equipment](#)
- ▶ [Misc. Grinding Equipment](#)
- ▶ [CMM Inspection and Supporting Equipment](#)
- ▶ [Laser Engraving/Etching](#)

### Tolerances:

- Plates and misc. Moldbase Components:  
± .0005 in. (± .012 mm)
- Cavity Stack Components:

### Actions:

- Hydraulic Core Pull
- Hydraulic and Mechanical Unscrewing
- Collapsible Cores
- Mechanical Slides
- Lift Mechanisms
- Lift & Twist Mechanisms (for undercut release)
- In-Mold Closing
- In-Mold Labeling
- Flip-Tops

### Mold Types:

- **Multi-Cavity**
- Valve Gate
- Hot Edge
- 90 deg. Hot Melt
- Horizontal Valve Gate
- 2 Material
- **Hot Runner**
- Hot-to-Cold Runner
- 3-Plate
- Stripper Plate
- **Stack**
- 2-Color

### Capacities:

- Plate Machining: 48" wide x 70" long
- Mold Handling Weight: Crane capacity to 20,000 lbs.

± .0002 in. (± .005 mm)

• Laminated Inserts:

± .0001 in. (± .0025 mm) or closer

- Average molds under construction: 60
- Annual Mold Production: ~200 molds
- Normal Design and Build Delivery Time: 11 - 13 weeks.

The implementation of **advanced machining** and **manufacturing techniques** allows ATM to produce all mold components in the shortest time. For example, computer workstations are located on the **mold manufacturing** work floor. This allows manufacturing personnel to directly query the engineering database to find reference points or an inspection datum. Efficient processes don't just save time; they also save money.

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