



Low-Volume Injection Molding

Low-Volume Injection Molding provides reay-to-shoot Aluminum or P20 steel tools in as little as 15-20 days. Low-Volume Injection Molding uses a similar manufacturing approach as our Rapid Injection Molding process, relying on high-speed CNC machining to cut tools.

Unlike our Rapid Injection Molding offering, Low-Volume Injection Molding has no geometry limits on part dimensions and allows any commercially available material and surface finish.

For our customers that need parts in their production material but cannot wait 12-16 weeks for traditional or offshore tooling to be made, Quickparts offers Low-Volume Injection Mold Tooling and Parts.



SP Series Handheld Trigger For Open Tag Systems



LP120 Portable Projector For InFocus

| Mechanical Properties | Rapid Injection Molding | Low-Volume Injection Molding | Production Injection Molding |
|-----------------------------|---|--|--|
| Size Limitations | 20"x20"x3" | 36"x36"x15" | 36"x36"x15" |
| Geometry Limitation | No undercuts causing slide action in tooling | No geometry limits | No geometry limits |
| Material | Over 20 standard materials in stock including ABS, PC, PP, PE, Nylon 6/6, Acetal, & Acrylic | Any commercially available material | Any commercially available material |
| Volume | 18 cu. In. (10-Day Lead) 36 cu. In. (20-Day Lead) | No volume limit | No volume limit |
| Parting Line Geometry | No limit | No limit | No limit |
| Draft | Draft required in CAD model | Draft required in CAD | Draft required in CAD |
| Tolerance Expectations | +/-0.005", or per SPE Standards for material | Tighter tolerances are possible | Tighter tolerances are possible |
| Surface Finish | Choose from 6 standard finishes | Any finish, including aced-etched finish | Any finish, including aced-etched finish |
| Customer Owns Tool? | no | Yes | Yes |
| Method of Tool Manufacturer | CNC-Only Manufacturing, Aluminum-Only | No manufacturing limits, aluminum tooling | No manufacturing limits, Tooling per cust. specs |
| Lead Time | Standard: 10-days for 10"x10"x3" 20-Days for 20"x20"x3"; Expedited: 5 days, depending upon you geometry | Standard: 15-20 Days; Expedited: 10 days depending upon your geometry | Standard: 4-6 weeks |

Quickparts Advantage

- Latest Machines: High-speed CNC, press sizes – 20 to 1,000+ tons.
- Engineering Review Board: design analysis and collaboration sessions.
- Fast Time-to-Market: Standard lead time is 15 to 20 days, but can be as quick as 10 days, depending upon project specs.
- Quality Customer Service: Dedicated Project Managers will assist you from design to prototype to production.
- Free Mold Fill Analysis: Ask your Tooling Manager today or submit your STL file to quote@quickparts.com.

Highlights

- No Geometry limits on part dimensions.
- Parts will hold tolerances per the applicable commercial grade material from the SPPM guide, 1998 Edition, Guidelines for Molders and their Customers, or +/-0.005", whichever is greater. First articles will include a limited number of sample parts from the mold submitted for approval. No additional qualifying documentation will be provided. First article inspection reports are available at an extra cost.
- Part sizes up to 36"x36"x15".
- High-speed CNC machining for aluminum (QC10) or steel (P20) tooling.
- Any commercially available material and surface finish.

Contact Information

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