TOTAL SOLUTIONS GLOBAL PROVIDER FOR THE MOULDS, INJECTION PARTS AND COMPONENTS
Company Profile

Upmold is one of top-level quality plastic injection mold maker which is mainly specializing in making molds and molding & assembling finished units. We specialize in precision designer and manufacturer for 8 years, with the experienced design team and professional engineering team, with good quality and pretty competitive price.
MISSION
Making high quality precision molds and parts with competitive price, and providing good service to meet our customers’ demanding.

VISION
To be total solutions global provider for moulds, injection parts and components.

OUR PROMISES
We would never sacrifice product quality for the lower prices. We will keep you fully informed by providing processing progress reports and digital pictures weekly.
Our Service

- Precision Mold Tooling
- Double Injection Mold
- Over molding Molds
- Tow shots molds
- Hot & Cold Runner System Mold

- Insert Tooling & Molds
- Unscrewing Mold
- Gas Assisted Molds
- Large Size Molds
- Multi & Single Cavity Molds

- Part Design
- Part Design Optimization
- Products Construct Design
- Product Design Assistance
- Mechanical Properties
- Cost Analysis
- Design For Manufacturing
- Reverse Engineering
- Products Updated Design
- Tooling Plans
- Quality Requirement Planning

- Precision CNC Machining
- Decorating Service
- Custom Wire cutting & EDM Sparking
- Quick Change Molds
- Mold Repairing
- Metal or Plastic Component manufacturing
- Rapid prototypes
- Assembly & Packaging

- CAD/CAM Design
- Mold-flow Analysis
- DFM Report
- Early Stage Engineering
- Complex Mold Design
- Highly Engineered Work Cells
- Material Selection Consultation
- Material Testing and Validation
- Product Testing
- Tooling design
- Consulting Service
- Program support

- Full Service custom Injection Molding
- Precision Injection Molding
- Mass Production Molding
- Die Casting
- Small unit serial production
Our professional engineering abilities are one of our decisive strong points. Upmold pays special attention to the design, as a good design is the soul of a good mold. There is a very experienced design team with the latest CAD/CAE/CAM in Upmold.
Design Team
Cooperation process: First Step

1. Customer RFQ
2. Quotation
3. Order Confirmation
4. Project Analyzing
5. Mold Layout Design
6. DFM
   - 1. Product structure analyzing
   - 2. Moldflow analyzing
   - 3. Mold structure analyzing
   - 4. Steel & Plastic material confirmation
   - 5. Mold specification and solution report
7. GA Drawing Confirmation
8. Drawing Approval
9. Layout drawing to be offered within 3-5 days
10. Confirming with customer
11. Drawing approved by customer
12. Quoting within 3 days after we seriously investigating the credit
13. Starting production after we receive the PO and deposit
Cooperation process: Second Step

1. Order steel/ Mold base/ Standard Component
2. Production Planning
3. Inspection
   - Apply CMM to inspecting 3D measurements of each part to satisfy customer's requirements for dimensions and quality
4. Manufacture
5. Mold Trial
   - Offer weekly report and photos in process

- Send samples, together with the report inspected by CMM and injection parameters to customer
Cooperation process: Third Step

Mold improvement & samples inspection

Texture and Engraving

Final mold inspection

Samples inspection after mold improvement

Inspecting mold to satisfy customer’s quality request

Fix the mold to injection machine for a 4-6 hours’ trial production to ensure the quality

4-6 Hours trial production before delivery

Mold packed with the vacuum film and rustproof in wooden cases

Mold packaging includes:
1. 2D & 3D mold drawings in a CD
2. Steel certification and mold base certification
3. Heat treatment certification
4. Injection molding parameters
5. Mold running video

Delivery
### Project Management

**Flow Chart**

1. **Spec Input**
   - Customer Order
   - Project Engineering
   - Discussion with Customer
   - Mold Design
   - Customer Review
   - Technical Design
   - Tooling
   - Process Control
   - Mold Trial
   - Sample inspection
   - Delivery
   - Mold Modification

2. **Mold Design**
   - Mold Design & improvement, and design finalizing
   - Project Engineer Design Dept.

3. **Technical Design**
   - CNC Programming, Progress following up
   - MFG Dept., Project Engineer

4. **Tooling**
   - CNC Machining and other process progress
   - MFG Dept./QC/ Project Engineer

5. **Process Control**
   - Assembly Progress and Report to Customer
   - MFG Dept./QC/ Project Engineer

6. **Mold Trial**
   - Mold trial/inspection/sample delivery and follow up
   - MFG Dept./QC/ Project Engineer

7. **Sample Inspection**
   - Sample Inspection/Mold Modification solution/Mold Modification
   - MFG Dept./QC/ Project Engineer

8. **Delivery**
   - Arrangement of Inspection Mold Final inspection Mold Delivery
   - Shipping Dept Project Engineer

**Content**

- Formal Purchase order, part design, 3D model
- Part Design, 3D Model, Sample/Prototypes, Customer Technical Requirements, etc.
- Part Design Proposal and Improvement (if needed)
- Mold structure and component design
- Mold Design & improvement, and design finalizing
- CNC Programming, Progress following up
- CNC Machining and other process progress
- Assembly Progress and Report to Customer
- Mold trial/inspection/sample delivery and follow up
- Sample Inspection/Mold Modification solution/Mold Modification
- Arrangement of Inspection Mold Final inspection Mold Delivery

**Action By**

- Marketing Dept.
- Project Engineering Dept.
- Project Engineer Design Dept.
- Design Dept.
- Project Engineer Design Dept.
- Project Engineer Design Dept.
- MFG Dept., Project Engineer
- MFG Dept./QC/ Project Engineer
- MFG Dept./QC/ Project Engineer
- MFG Dept./QC/ Project Engineer
- Shipping Dept Project Engineer
CNC Workshop
Makino CNC Machine

New Fresh Makino V33i CNC Machine
Makino CNC Machine

New Fresh
Five Axis
CNC Machine
Tooling Fitting Machine

Work Space: 1800x1300mm

Clamping pressure: 250 Tons
3D Metal Printer
Low Speed wire cutting Machines
Double head EDM machine
Grinding Workshop
Big Mold Tooling Room
Big Mold Tooling Room

Fitting Division
Quality control

As an ISO 9001-2015 certified company, we take the high quality as a base for the company’s development, from incoming material to electrode, from CNC machining to final assembly, every component and every process needs to be strictly inspected by QC, to ensure every component is accepted before the next process.
Injection Molding Workshop
# Molding Equipment List

<table>
<thead>
<tr>
<th>Item</th>
<th>Brand</th>
<th>Model</th>
<th>Maximum Stroke</th>
<th>Qty(set)</th>
<th>Origin</th>
<th>Barrel Size</th>
<th>Totality</th>
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<tr>
<td>Molding Machines</td>
<td>FANUC</td>
<td>α—S50iA</td>
<td>360*320mm 200mm/s</td>
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<td>1600<em>1300</em>700mm 12000 RPM</td>
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<td>VMC1380</td>
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<td>EDM Sparking</td>
<td>SODICK</td>
<td>AD32Ls</td>
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<td>EDGE3</td>
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# Inspection Equipment List

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<tr>
<th>Item</th>
<th>Brand</th>
<th>Model</th>
<th>Maximum Stroke</th>
<th>Qty(set)</th>
<th>Origin</th>
<th>accuracy</th>
<th>Totality</th>
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<tr>
<td>Height Gauge</td>
<td>Mitutoyo</td>
<td>LH-600E</td>
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<td>Japan</td>
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<td></td>
<td>NIKON</td>
<td>MF-501</td>
<td>200mm</td>
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<td>Japan</td>
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<td>Projector machines</td>
<td>Kamioka</td>
<td>ME-A508</td>
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<td>Japan</td>
<td>±0.001mm</td>
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<td>Microscope machine</td>
<td>Mitutoyo</td>
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<td>Japan</td>
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<td>CMM</td>
<td>HEXAGON</td>
<td>Inspector Classic 06.10.06</td>
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<td>Swedish</td>
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<td></td>
<td>Mitutoyo</td>
<td>Beyond. Crysta</td>
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<td>1</td>
<td>Japan</td>
<td>±0.001mm</td>
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</table>
1. Injection Analysis
2. Temperature Analysis
3. Welding Line analysis
4. Deformation Analysis
5. Thickness uniform checking
6. Flowing balance review
7. Clamping force evaluation
8. Air tap analysis
Tooling design Showcase
Product features

- Automotive
- Home appliances
- Electronics
- Medical appliances
- Mould components
- Others

Our products

- Automotive: 40%
- Home appliances: 10%
- Electronics: 10%
- Medical appliances: 15%
- Mould components: 10%
- Others: 15%
Mould manufacturing

- Multi-cavity (up to 100 cavities)
- Fixture
- Hot runner system (Mold master, Incoe, Husky, Syventive, YUDO)
- Die-casting
- Collapsible cores
- Large and Complex Molds (up to 20 ton)
- 2-shot molds
- Bi-mold
- BMC, high Precision molds, Components, Silicone molds
Plastic injection mold

- Elbow injection mold
- Air venting injection mold
- Automotive bumper injection mold
- Precision injection mold
- Multi-cavity injection mold
Die-casting mold & Samples

- Zinc Alloy Die-casting mold
- Aluminum Alloy Die-casting mold
- Magnesium Alloy Die-casting mold
Die casting products
AUTO Air Venting Products
Automotive Radiator Tanks & Bumpers
Automotive Grilles, Lens & Bumpers
CNC Precision Parts Machining
Precision products
Product display

High polishing parts
Silicone parts
Two-shot parts
Medical parts
Metal insert molding parts
Unscrewing parts
3D Printing for Mold Making
We specialize in manufacturing of precision metal components and custom mold components such as Sliders, Lifters/Cams and Inserts. With high-precision grinding machines, wire cutting, CNC, EDM, CMM and other manufacturing and inspection equipments, we can keep tolerance of +/- 0.005mm.
Fixtures
Staff activity  (Outward bound training in 2019)
Staff activity  (Outward bound training in 2020)
Staff activity  (Outward bound training in 2020)
Staff activity  (Outward bound training in 2021)
Staff activity  (Outward bound training in 2022)
Customer distribution
FAQ

1. Q: Do you have experience to build export mould?
   A: Yes, we do. Over 75% of our molds are exported.

2. Q: How many moulds could you make every month?
   A: 30 sets.

3. Q: How many employees do you have?
   A: 100 Persons

4. Q: How about the largest mould you can make?
   A: Maximum Tons: 15 Tons
       Maximum size: 1700x1500x1500mm
       Maximum Machining Size: 1600x1300x600mm

5. Q: What is percentage of automotive moulds you made? What’s the brand?
   A: About 45%. Brand: BENZ, VW, GM, FORD, TOYOTA, NISSAN, Lamborghini

6. Q: Can you make precision mould?
   A: Yes. And we can hold mould tolerance +/- 0.05~0.01mm, product tolerance +/- 0.02mm.

7. Q: How about the steel you usually use?
   A: We only use raw materials with good quality like P20, P20H, 718H, NAK80, 1.2311, 1.2378, 1.2344, 1.2343 ESR, 1.2767, H13, 8407, 420SS, S136, S-7, etc. They are all from famous suppliers, such as LKM, ASSAB, THYSSEN, etc.
   Steel certificate and heat-treatment certificate will be provided along with the tools while delivery if required.
8. Q: What is the standard of your hot-runner system?
   A: It’s decided by the customers. We have famous hot runner suppliers locally, such as MOLD MASTER, INCOE, YUDO, DME, SYNVENTIVE, HUSKY, HASCO, EWIKON, GUENTHER, etc.

9. Q: What kind of standard components do you use?
   A: HASCO, DME, PROGRESSIVE, STAUBLI, RABOURDIN are available.

10. Q: What do you need for quotation? And what about the software?
    A: 2D & 3D part files and mold specifications are preferred. We mainly use UG and AUTOCAD. But it is OK for us to read the files of Solidworks, PRO-E etc.

11. Q: What is your turn round time for injection mould building?
    A: Usually 3 to 8 weeks. It also depends on mould size and structure complexity
Contact us

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Website: https://upmold.com
TEL: +86 0769 3363 0009

Add: 3B, No.75, Dalingshan Yanhe West Street, Dalingshan Town, Dongguan City, China, 523833

THANKS