2019

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

https://upmold.com/
Upmold Technology Limited (UMT) 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. Upmold is UMT’s Brand
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

Tooling Building

- One-Stop Full Plastic & Die Casting Pressure Solution
- Design & Development
  - 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
- Engineering
  - 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
- Injection Molding
  - Full Service custom Injection Molding
  - Precision Injection Molding
  - Mass Production
  - Die Casting
  - small unit serial production
- Manufacturing
  - Precision CNC Machining
  - Decorating Service
  - custom Wire cutting & EDM Sparking
  - Quick Change Molds
  - Mold Repairing
  - Metal or Plastic Component manufacturing
  - Rapid prototypes
  - Assembly & Packaging
- Tooling
  - 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
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.
Project Management is one of the key elements to run a successful program. We build a team consisting of project managers with a strong background in the project management process and in the mold industry with robust communication skills. The team has the necessary resources to perform a high level of service, such as they only need to report to the boss to insure a flawless project management process between Up-mold and the customer base.
Upmold team / Management

Jeff Feng
General manager

Robert Zhang
Project manager

Tom
Manufacture manager

John
Engineering manager

Adela Lin
Project manager

Leo
Tooling manager

Ming
Molding manager

Don
Quality manager
Cooperation process: First Step

Customer RFQ

Quotation

Order Confirmation

Quoting within 3 days after we seriously investigating the credit

Starting production after we receive the PO and deposit

Project Analyzing

Layout drawing to be offered within 3-5 days

DFM
1. Product structure analyzing
2. Moldflow analyzing
3. Mold structure analyzing
4. Steel & Plastic material confirmation
5. Mold specification and solution report

Mold Layout Design

GA Drawing Confirmation

Confirming with customer

Drawing approved by customer

Drawing Approval
Cooperation process: Second Step

Order steel/Mold base/Standard Component

Production Planning

Manufacture

Apply CMM to inspecting 3D measurements of each part to satisfy customer's requirements for dimensions and quality

Inspection

Offer weekly report and photos in process

Mold Trial

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

Samples inspection after mold improvement

Inspecting mold to satisfy customer’s quality request

Final mold inspection

4-6 Hours trial production before delivery

Mold packed with the vacuum film and rustproof in wooden cases

Mold Packaging

Delivery

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

Mold package 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
Project management

Flow Chart

<table>
<thead>
<tr>
<th>Content</th>
<th>Action By</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formal Purchase order, part design, 3D model</td>
<td>Marketing Dept.</td>
</tr>
<tr>
<td>Part Design, 3D Model, Sample/Prototypes, Customer Technical Requirements, etc</td>
<td>Project Engineering Dept.</td>
</tr>
<tr>
<td>Part Design Proposal and Improvement (if needed)</td>
<td>Project Engineer Design Dept.</td>
</tr>
<tr>
<td>Mold structure and component design</td>
<td>Design Dept.</td>
</tr>
<tr>
<td>Mold Design &amp; improvement, and design finalizing</td>
<td>Project Engineer Design Dept.</td>
</tr>
<tr>
<td>CNC Programming, Progress following up</td>
<td>MFG Dept. Project Engineer</td>
</tr>
<tr>
<td>CNC Machining and other process progress</td>
<td>MFG Dept./QC/ Project Engineer</td>
</tr>
<tr>
<td>Assembly Progress and Report to Customer</td>
<td>MFG Dept./QC/ Project Engineer</td>
</tr>
<tr>
<td>Mold trial/inspection/sample delivery and follow up</td>
<td>MFG Dept./QC/ Project Engineer</td>
</tr>
<tr>
<td>Sample Inspection/Mold Modification solution/ Mold Modification</td>
<td>MFG Dept./QC/ Project Engineer</td>
</tr>
<tr>
<td>Arrangement of Inspection Mold Final inspection Mold Delivery</td>
<td>Shipping Dept. Project Engineer</td>
</tr>
</tbody>
</table>
CNC Workshop
Giant CNC Machine
Low Speed wire cutting Machines
EDM Workshop
EDM Workshop
Quality control

As an ISO 9001-2015, ISO 14001-2015 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.
Quality Division
## 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>
</tr>
</thead>
<tbody>
<tr>
<td>Molding</td>
<td>FANUC</td>
<td>α—S50iA</td>
<td>360*320mm 200mm/s</td>
<td>2</td>
<td>Japan</td>
<td>ɸ 26</td>
<td>2</td>
</tr>
<tr>
<td>Machines</td>
<td>FANUC</td>
<td>α—S100iA</td>
<td>460*410mm 200mm/s</td>
<td>3</td>
<td>Japan</td>
<td>ɸ 32</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>FANUC</td>
<td>α—S150iA</td>
<td>550*500mm 200mm/s</td>
<td>1</td>
<td>Japan</td>
<td>ɸ 40</td>
<td>1</td>
</tr>
<tr>
<td>Mulplas</td>
<td>Vertical Molding</td>
<td>360*320mm 200mm/s</td>
<td>1</td>
<td>TAIWAN</td>
<td>ɸ 20</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>
# Tooling Equipment List

<table>
<thead>
<tr>
<th>Item</th>
<th>Brand</th>
<th>Model</th>
<th>Maximum Stroke/RPM(r/min)</th>
<th>Qty(set)</th>
<th>Origin</th>
<th>accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CNC Machines</strong></td>
<td>FANUC</td>
<td>α—D14MiB</td>
<td>500<em>400</em>330mm 24000 RPM</td>
<td>2</td>
<td>Japan</td>
<td>±0.005mm</td>
</tr>
<tr>
<td></td>
<td>YCM</td>
<td>NXV1020AM</td>
<td>1020<em>520</em>540mm 15000 RPM</td>
<td>1</td>
<td>Taiwan</td>
<td>±0.008mm</td>
</tr>
<tr>
<td></td>
<td>JINGDIAO</td>
<td>JDHGT600</td>
<td>600<em>500</em>300mm 32000 RPM</td>
<td>1</td>
<td>China</td>
<td>±0.008mm</td>
</tr>
<tr>
<td></td>
<td>Venture</td>
<td>SFV-1613</td>
<td>1600<em>1300</em>700mm 12000 RPM</td>
<td>1</td>
<td>China</td>
<td>±0.01mm</td>
</tr>
<tr>
<td></td>
<td>Makino</td>
<td>V33i</td>
<td>650<em>450</em>350mm 30000 RPM</td>
<td>1</td>
<td>Japan</td>
<td>±0.008mm</td>
</tr>
<tr>
<td><strong>Grinding Machines</strong></td>
<td>WANGPAN</td>
<td>L-618</td>
<td>350<em>180</em>270mm</td>
<td>2</td>
<td>Taiwan</td>
<td>±0.002mm</td>
</tr>
<tr>
<td></td>
<td>JL</td>
<td>JL-618</td>
<td>350<em>180</em>270mm</td>
<td>3</td>
<td>Taiwan</td>
<td>±0.001mm</td>
</tr>
<tr>
<td><strong>EDM Sparking Machines</strong></td>
<td>Top</td>
<td>MP-50</td>
<td>540<em>400</em>400mm</td>
<td>1</td>
<td>Taiwan</td>
<td>±0.01mm</td>
</tr>
<tr>
<td></td>
<td>SODICK</td>
<td>AD32Ls</td>
<td>330<em>220</em>250mm</td>
<td>5</td>
<td>Japan</td>
<td>±0.002mm</td>
</tr>
<tr>
<td></td>
<td>MARKINO</td>
<td>EDGE3</td>
<td>450<em>300</em>320mm</td>
<td>1</td>
<td>Japan</td>
<td>±0.002mm</td>
</tr>
<tr>
<td><strong>Wire Cutting Machines</strong></td>
<td>SODICK</td>
<td>ALN400Q  (s)</td>
<td>400<em>300</em>250mm Wire line size D0.1mm</td>
<td>2</td>
<td>Japan</td>
<td>±0.002mm</td>
</tr>
<tr>
<td><strong>Milling Machines</strong></td>
<td>GENTIGER</td>
<td>SHCM-97A</td>
<td>600<em>350</em>300mm</td>
<td>2</td>
<td>Taiwan</td>
<td>±0.02mm</td>
</tr>
<tr>
<td></td>
<td>GENTIGER</td>
<td>SHCM-97A</td>
<td>600<em>350</em>300mm</td>
<td>1</td>
<td>Taiwan</td>
<td>±0.02mm</td>
</tr>
<tr>
<td><strong>Punched Machines</strong></td>
<td>zhenbang</td>
<td>Z3525</td>
<td>400<em>300</em>250mm Electrode Pipe D0.3-D3.0</td>
<td>1</td>
<td>Taiwan</td>
<td>±0.05mm</td>
</tr>
<tr>
<td>Item</td>
<td>Brand</td>
<td>Model</td>
<td>Maximum Stroke</td>
<td>Qty(set)</td>
<td>Origin</td>
<td>accuracy</td>
</tr>
<tr>
<td>---------------------</td>
<td>----------</td>
<td>---------------------------</td>
<td>----------------</td>
<td>----------</td>
<td>--------</td>
<td>--------------</td>
</tr>
<tr>
<td>Height Gauge</td>
<td>Mitutoyo</td>
<td>LH-600E</td>
<td>600mm</td>
<td>1</td>
<td>Japan</td>
<td>±0.001mm</td>
</tr>
<tr>
<td></td>
<td>NIKON</td>
<td>MF-501</td>
<td>200mm</td>
<td>4</td>
<td>Japan</td>
<td>±0.0005mm</td>
</tr>
<tr>
<td>Projector machines</td>
<td>Kamioka</td>
<td>ME-A508</td>
<td>100*100mm</td>
<td>1</td>
<td>Japan</td>
<td>±0.001mm</td>
</tr>
<tr>
<td>Microscope machine</td>
<td>Mitutoyo</td>
<td>MF-A3017D</td>
<td>400*250mm</td>
<td>1</td>
<td>Japan</td>
<td>±0.001mm</td>
</tr>
<tr>
<td>CMM</td>
<td>HEXAGON</td>
<td>Inspector Classic 06.10.06</td>
<td>600<em>1000</em>600mm</td>
<td>1</td>
<td>Swedish</td>
<td>±0.001mm</td>
</tr>
</tbody>
</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
Product features

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

Our products

- 40% Automotive
- 10% Home appliances
- 10% Electronics
- 10% Medical appliances
- 15% Mould components
- 15% Others
<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-cavity</td>
<td>(up to 100 cavities)</td>
</tr>
<tr>
<td>Fixture</td>
<td></td>
</tr>
<tr>
<td>Die-casting</td>
<td></td>
</tr>
<tr>
<td>Collapsible cores</td>
<td></td>
</tr>
<tr>
<td>2-shot molds</td>
<td></td>
</tr>
<tr>
<td>Bi-mold</td>
<td></td>
</tr>
<tr>
<td>Hot runner system</td>
<td>(Mold master, Incoe, Husky, Syventive, YUDO)</td>
</tr>
<tr>
<td>Large and Complex Molds</td>
<td>(up to 20 ton)</td>
</tr>
<tr>
<td>BMC, high Precision</td>
<td>molds, Components, Silicone molds</td>
</tr>
</tbody>
</table>
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
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)
Customer distribution

- North America
- South America
- Africa
- Australia
- Europe
- Asia

UPMOLD
Tooling & Molding Solutions
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: 70

4. Q: How about the largest mould you can make?
   A: 10 ton.

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 turnaround time for injection mould building?
    **A**: Usually 3 to 8 weeks. It also depends on mould size and structure complexity