

# Industrial design

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With more than 30 years plastics mold making and injection molding experience,

for parts design, Intertech can....

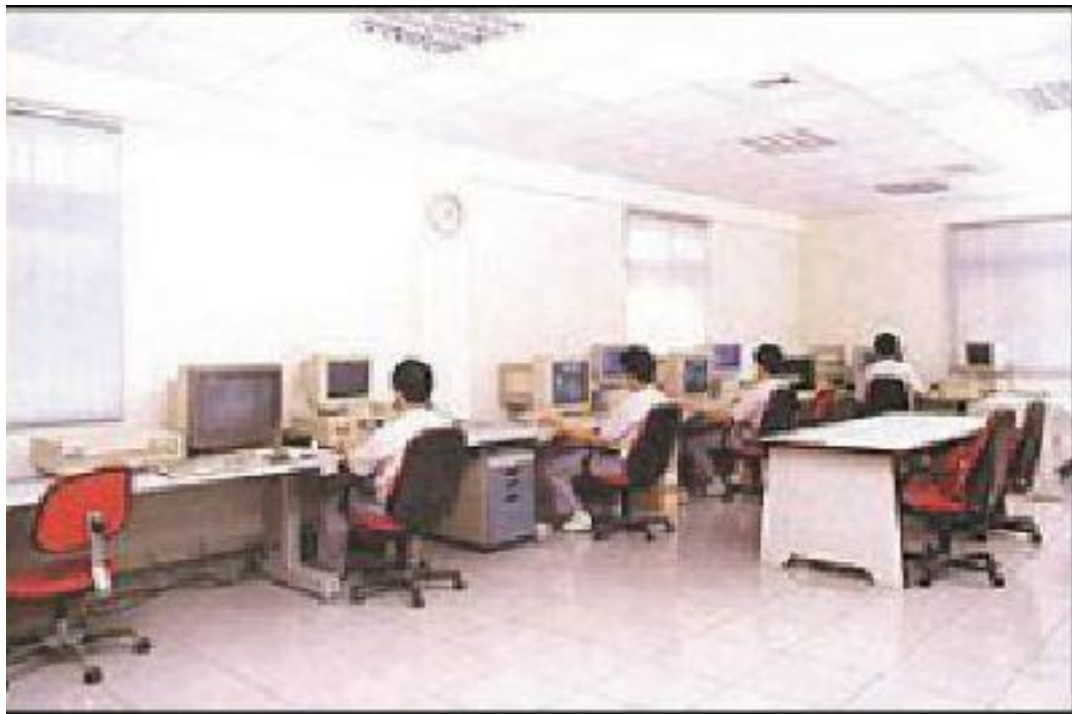
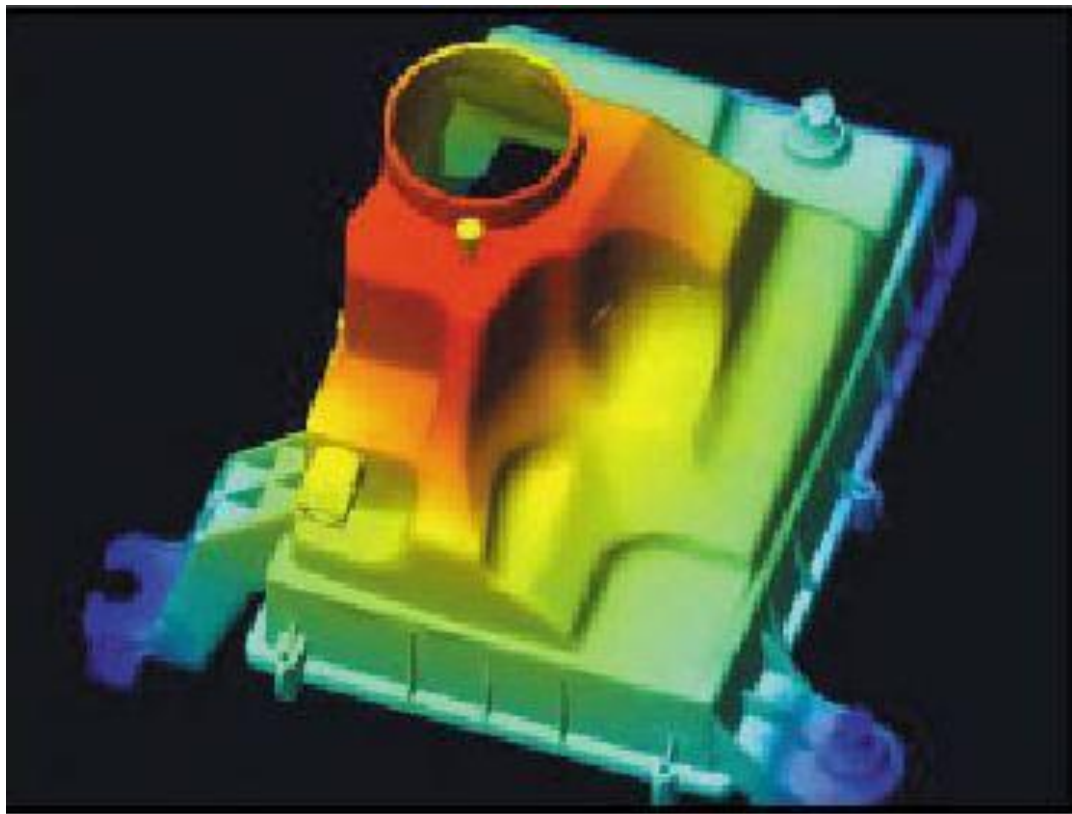
1. provide our best knowhow and experience consultancy service
2. to help our customers to check their parts design to be executed or not in practical production condition,
3. trouble shooting precisely for their design bugs
4. and give them our best R & D suggestion and analyze.

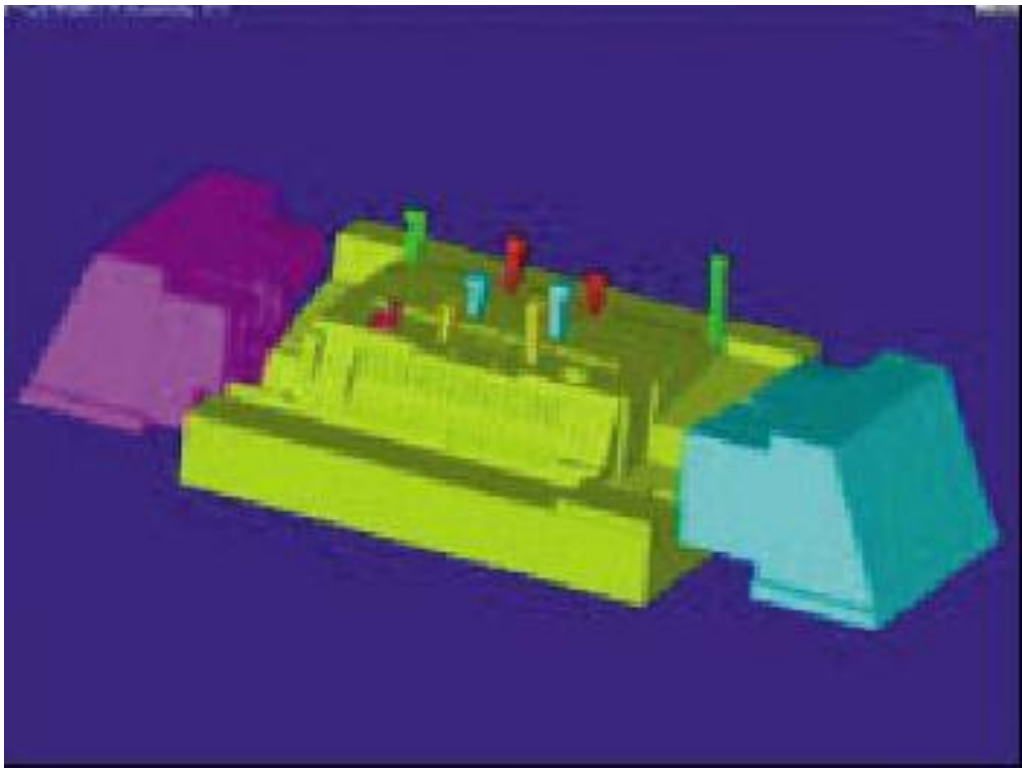
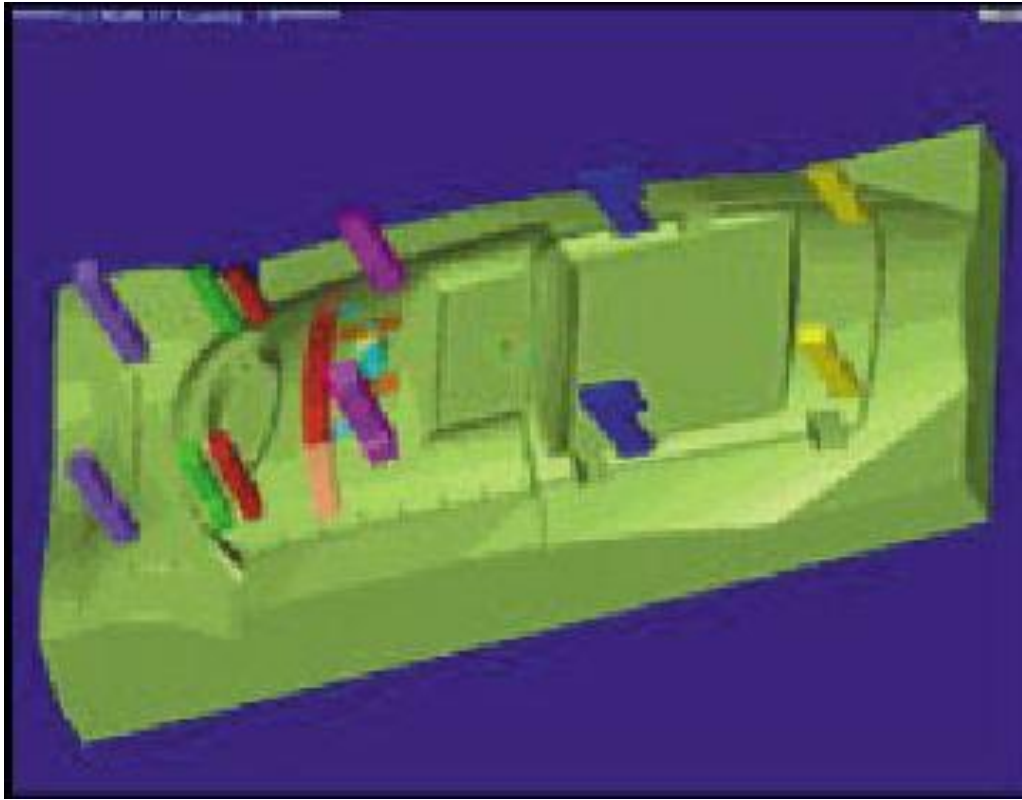
for mold design, ....

1. The software we use includes Pro-Engineer, I-Deas, Cimetron, Auto-Cad & Solidworks.
2. Customer can send 2D, 3D, by .igs .stp, formats to us.
3. We can provide mold flow analysis service.
4. Mold design (with the best optimized mold water channel arrangement design and the best cycle time performance consideration design)

In addition, CNC milled prototype, 3D printing prototype, prototype mold making service, fixture / jig making or welding horn design and making are available in Intertech with good experience !

We need 2D, 3D parts to start our job, we can sign NDA (if needed)





## Project development

Intertech Machinery is good at manufacturing plastic *mold components* used in industrial and packaging applications. Per customer' s demand, we will discuss the *raw material* required, the *color* master batch requires, *mold making size* required, *molding machine size* required, *cycle time* estimation, *production time* calculation report...etc with customers. After that, *parts design* service, *mold engineering* service, *mass production* arrangement, *post assembly* service or *post machining* service are also provided.

Each mold and molding projects case, we will see client specifications to serve the needs of a wide variety of industries. Our injection mold technology have D&B D-U-N-S compliant working system and meets high industry standards. We can mold any *plastic, metal and rubber projects* for customers. We have advanced machinery equipment to provide *small to larger mold projects* and also manufacture thermoplastic, engineering *plastics, silicone rubber and metal parts*.

### **Highlight Points:**

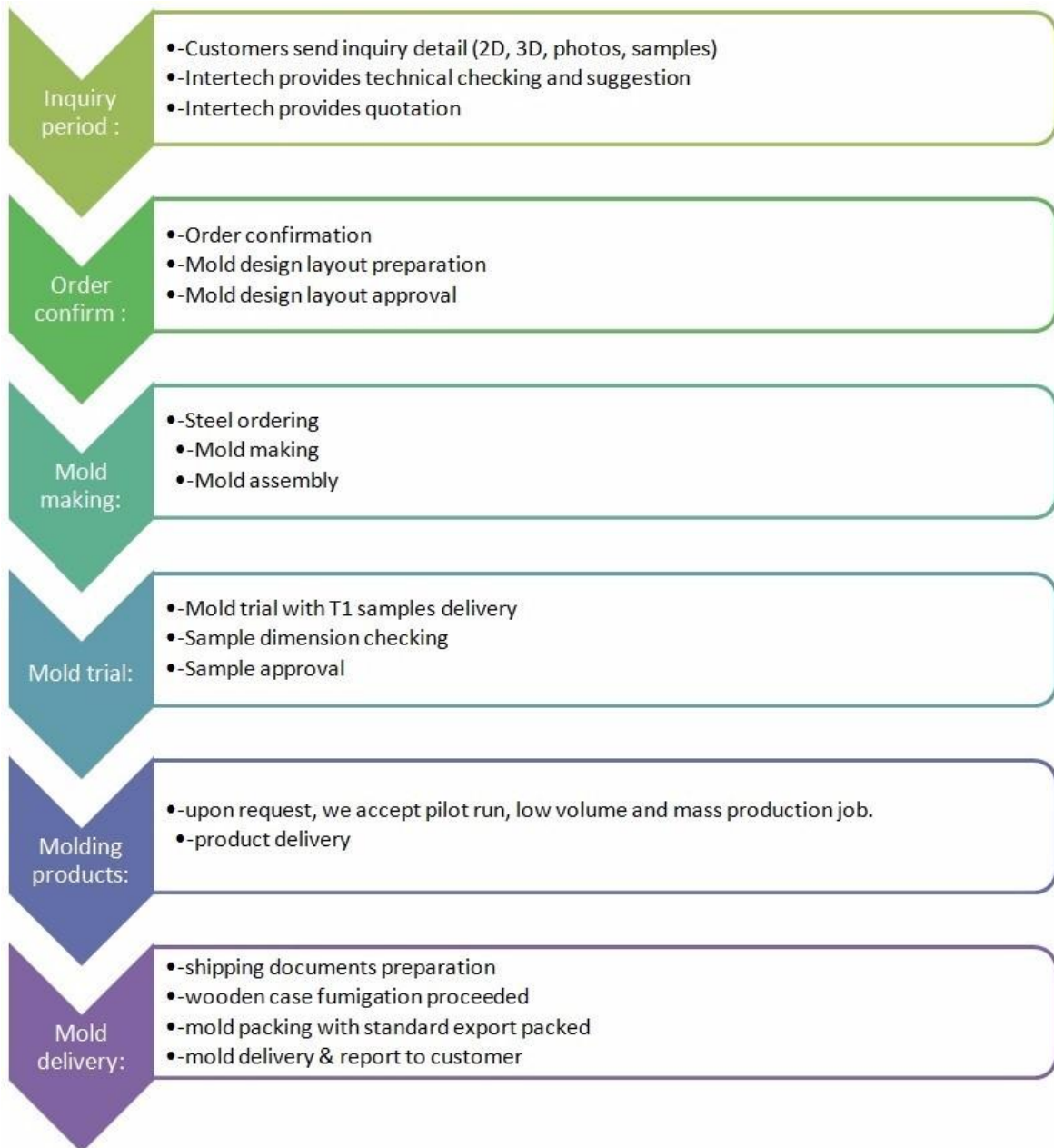
- Our professional service includes engineering, mold making, prototyping and tooling
- From single prototype to OEM and ODM high professional volume production, We can manage all our clients plastic injection molding requirements.
- Except making mold, we also provide [injection molding service](#), compression molding service (especial for silicone rubber material compounding with various colors matching and production job for specific product need) or [punch die](#) production service.
- our injection mold testing machine available 50~250T in house, 300~3000T in associated party.
- per each project need, we also design and provide fixture and jig making service for stabilizing some easy deformed parts need.
- per customer' s need, we also provide chrome plated, painting, ultra-sonic welding, assembly or packing/printing service.

We provide low volume, pilot run of production job and mass production for customer.

| Product Name                    | mold   |
|---------------------------------|--|
| Plastic Material                | PP , PE , ABS , POM , PET, PBT,<br>Nylon + GF····etc.<br>PC, PMMA Acraylic for transpartent<br>product.  |
| Steel of Cavity & Core          | Up to customer' s budget and<br>productivity required,<br>we suggest the following steel grade:<br>Pre- harden steel : P20 (1.2311),<br>P20+Ni····etc<br>Harfen Steel : H13 (1.2344) /<br>NAK80····etc.<br>Stainless steel : ASSAB Stavax····etc |
| Steel of Mold Base              | Up to customer' s budget and<br>requirement , we suggest different<br>mold base steel to clients. Normal<br>used material S50C, or P20   |
| No. of Cavity                   | Customized   |
| Hardness of Cavity & Core       | Pre-Hardenss Steel : HRC 30~32+-1*<br>Heat Treatment Steel : HRC<br>50~52+-1*  |
| Core pulling or Ejection system | Depends on the Products.<br>Commonly used :Motor , oil cylinder,<br>stripping plate, angel pin, ejector<br>pin····etc  |
| Mould Accessories               | Compatible to DME/ HASCO<br>Standard.  |
| Cooling System                  | In Core : Baffle or By pass cooling<br>In Cavity Plate: Chain drilling type<br>colling   |
| Surface Finish                  | Up to the prodct' s requirement,   |

|               |   |
|---------------|---|
|               | Normal used : Texture, EDM machining , Polishing  |
| Mold Life     | Up to mold steel grade, under ideal operation condition,<br>1. Pre-harden steel, min. 20~300000 shots<br>2. Harden / heat treatment steel : 60~800000 shots.<br>3. Stainless steel : 1 million shots. |
| Runner        | 1. Cold runner<br>2. Hot runner<br>3.cold runner +hot runner  |
| Delivery time | 40~50 days , presenting T1 samples  |
| Packing       | Standard Wooden Case  |
| Production    | We can also provide Pilot Run production and molding production   |

# Mold Order Process





# Mold Shipping Process

## Mold Finish



## Spare Parts



## Boxing



## When you receive





## For Mold Inquiry, Customer Must prepare:

1. Product drawing with 2D(.dwg)and 3D (.igs, .stp...etc)?
2. Advise product material (ex. Plastic ,rubber, silicone rubber or metal...etc )?
3. Molding machine tonnage size and platen size?
4. The cavity number of the mold that you want us to quote?
5. Mold steel grade that you want us to quote?
6. Hot runner or cold runner mold required?
7. Mold gating inlet preferred?
8. Mold ejection way preferred?
9. Other related information required ...(ex. Polishing , texture, engraving ...etc)

## For Molding Products Inquiry , customer must prepare:

1. Products material required? (ex. Plastics, rubber , silicone , metal...etc)
2. Products quality required in total?
3. Delivery time required?
4. Post machining or not information? (ex. Chromed plate..., painting ...etc)
5. Assembly or not information?
6. Packing or not information?

—Contact Information—

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