Die Cast Die Main Molds

We are able to supply higher-quality products through the use of high-precision equipment for Star Plates, steel die sets, and other components and our accumulated machining technologies.

- Materials handled: FCD materials, SC materials
- Machining dimensions range: 1200 x 1200 max.

**Mold base machining details**
- Fixed side attachment plates
- Fixed side plates
- Movable side plates
- Receiving plates
- Spacer blocks

**Main Mold Details**
- Guide pins, bush hole machining and assembly
- Casting inlet bush hole machining
- Clamp groove machining
- Angular pin hole
- Pocket machining, movable core groove machining
- Gun drill hole machining
- Return pin, ejector pin hole machining

Please place all orders by using diagrams. (Please indicate tolerances, processing details, and so on as accurately as possible.)

**Die Bases (Spacer Blocks)**
- Attachment hole machining
- Groove machining
- Ejector plates
- Attached component machining
- Ejector plates
- Attachment hole machining
- Return pin hole machining, etc.

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**Plastic Mold (Mold Bases)**

- Supported materials: SC materials, Alumigo Hard
- Machining dimensions range: inquire for each product

**Plastic Mold Tool Steel**
For plastic die steel, choose from among materials rigorously selected by Daido Steel.

**Die Cast Die Steel**

Choose from among materials rigorously selected for harsher die casting conditions and increased die loads.

### Selection of Die Cast Die Steels (Daido Steel hot die steels)

<table>
<thead>
<tr>
<th>Die cast alloy</th>
<th>Casing temperature (°C)</th>
<th>Suitable Materials</th>
<th>General purpose</th>
<th>Low-volume production dies</th>
<th>High-performance dies</th>
<th>Large dies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zn</td>
<td>415-420</td>
<td>DHA1</td>
<td>DHA</td>
<td>DHF</td>
<td>MAST1</td>
<td>DH31-S</td>
</tr>
<tr>
<td>Al</td>
<td>650-720</td>
<td>DHA1</td>
<td>DHA</td>
<td>DHF</td>
<td>DH21</td>
<td>DH31-S</td>
</tr>
</tbody>
</table>

**Required properties**
- Good machinability and electric discharge processability
- Easy to heat and minimal thermal distortion
- Sufficient strength and ductility and excellent heat-checking resistance and erosion resistance
- Heat treatment can be omitted (pre-hardened)
- Good quenching properties and ductility and excellent heat-checking resistance and erosion resistance
- Excellent ductility, can be used at high hardness
- Excellent resistance to temper softening and erosion resistance
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