Die Casting Mold (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 × 1200 max.

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.

Plastic Mold (Mold Bases)

Supported materials: SC materials, Alumigo Hard

Machining dimensions range: inquire for each product

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

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

Plastic Die Steel

<table>
<thead>
<tr>
<th>Name</th>
<th>Daido Steel brand name</th>
<th>Hardness during use (HRC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P X A 3 0</td>
<td>30~33</td>
<td></td>
</tr>
<tr>
<td>S - S T A R</td>
<td>31~34</td>
<td></td>
</tr>
<tr>
<td>G - S T A R</td>
<td>33~37</td>
<td></td>
</tr>
<tr>
<td>N A K 5 5</td>
<td>37~43</td>
<td></td>
</tr>
<tr>
<td>N A K 8 0</td>
<td>37~43</td>
<td></td>
</tr>
<tr>
<td>N A K 1 0 1</td>
<td>30~35</td>
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</tbody>
</table>

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<thead>
<tr>
<th>Name</th>
<th>Daido Steel brand name</th>
<th>Hardness during use (HRC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD61 3</td>
<td>56~61</td>
<td></td>
</tr>
<tr>
<td>S - S T A R</td>
<td>50~37</td>
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</tr>
<tr>
<td>G - S T A R</td>
<td>45~48</td>
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</tbody>
</table>

Plastic Die Steel

Die Casting Mold Tool Steel

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

Selection of Die Casting Mold Tool Steels (Daido Steel Hot Work Tool Steels)

<table>
<thead>
<tr>
<th>Die cast alloy</th>
<th>Casing temperature (°C)</th>
<th>Suitable Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General purpose</td>
<td>Low-volume production mold</td>
</tr>
<tr>
<td>Zn</td>
<td>475~480</td>
<td>DH 4 A</td>
</tr>
<tr>
<td>Al</td>
<td>650~720</td>
<td>DH 4 A</td>
</tr>
</tbody>
</table>

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