

[China Pressure die casting part, Manufacturer, Supplier, Factory, Exporter in china](#)

pressure die casting part

Die casting is the process of forcing molten metal under high pressure into mold cavities (which are machined into dies). Most die castings are made from nonferrous metals, specifically zinc, copper, aluminum, magnesium, lead, and tin based alloys, but ferrous metal die castings are possible.[2] The die casting method is especially suited for applications where a large quantity of small to medium sized parts are needed with good detail, a fine surface quality and dimensional consistency.

The Advantages of Die Casting

- High-speed production
- Dimensional accuracy and stability
- Strength and weight
- Multiple finishing techniques
- Simplified Assembly

Die casting materials

The main die casting alloys are: zinc, aluminium, magnesium, copper, lead, and tin. Specific die casting alloys include: ZAMAK, zinc aluminum, AA 380, AA 384, AA 386, AA 390, and AZ91D magnesium. The following is a summary of the advantages of each alloy:

Zinc: the easiest alloy to cast; high ductility; high impact strength; easily plated; economical for small parts; promotes long die life.

Aluminum: lightweight; high dimensional stability for complex shapes and thin walls; good corrosion resistance; good mechanical properties; high thermal and electrical conductivity; retains strength at high temperatures.

Magnesium: the easiest alloy to machine; excellent strength-to-weight ratio; lightest alloy commonly die cast.

Copper: high hardness; high corrosion resistance; highest mechanical properties of alloys die cast; excellent wear resistance; excellent dimensional stability; strength approaching that of steel parts.

Lead and Tin: high density; extremely close dimensional accuracy; used for special forms of corrosion resistance.

Maximum weight limits for aluminium, brass, magnesium, and zinc castings are approximately 70 pounds (32 kg), 10 lb (5 kg), 44 lb (20 kg), and 75 lb (34 kg), respectively.

The material used defines the minimum section thickness and minimum draft required for a casting as outlined in the table below.

Metal	Minimum section	Minimum draft
Aluminum alloys	0.89 mm (0.035 in.)	1:100 (0.6°)
Brass and bronze	1.27 mm (0.050 in.)	1:80 (0.7°)
Magnesium alloys	1.27 mm (0.050 in.)	1:100 (0.6°)
Zinc alloys	0.63 mm (0.025 in.)	1:200 (0.3°)



- aluminum die casting part zinc die casting part



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