

Optical Module Die Casting Mold



Article Overview

Optical module die casting molds are precision-engineered tools used to produce high-quality, complex metal housings for optical modules, ensuring dimensional accuracy, thermal management, and structural stability.

Overview

Optical module die casting molds are specialized molds designed to produce components such as SFP, QSFP, and OSFP module housings. These molds are typically made from high-strength alloys and are used in high-pressure die casting processes to form aluminum, zinc, or magnesium alloy parts with complex geometries and tight tolerances . The molds are engineered to ensure precise alignment of optical connectors, PCB interfaces, and heat dissipation paths, which is critical for high-speed optical communication systems .

Mold Design Features

- Multi-cavity design: Some molds incorporate multiple cavities to increase production efficiency, allowing simultaneous casting of several parts .
- Shunt cones and flow channels: These features guide molten metal evenly into the mold cavities, reducing shrinkage and stress concentration .
- Core and sliding components: Movable cores and sliders form detailed features such as optical receiver and transmitter holes, while ejector mechanisms remove the finished part without damage .
- Wall thickness optimization: Mold design ensures uniform wall thickness to maintain structural integrity and facilitate heat transfer from high-temperature areas

Article Content

100g Qsfp-Dd Die Casting Housing for Optical Module

Since established in 2002, Shenzhen Aoli Casting Hardware Products Co., Ltd has been grown from a professional zinc alloy die

Premium 400g Qsfp-Dd Die Casting Housing for Optical Modules

Premium 400g Qsfp-Dd Die Casting Housing for Optical Modules, Find Details and Price about Die Casting Housing and Optical

High end optical molds

Molds manufactured by DBM Reflex are : Single shot molds typically for reflex, light guides and other optical components.

Precision glass molding

Glass optics of this nature can be manufactured economically in isothermal precision glass molding processes. These involve

Zinc Aluminum Alloy Die Castings for Optical Module

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Die-Casting Base For Optical Module Housing

Die-Casting Base For Optical Module Housing The structural organization of precision Die-Casting Base is tight and the strength is

Zinc Alloy Die Casting Mould for Optical Module

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Optics Die Casting

With Elimold, you can enjoy the best advice and practical solutions for optical die casting molds and mass production of optical die

Why Die Castings Are Essential for Modern Optical Modules

Optical module die castings are created through a high-pressure metal casting process that injects molten metal into precision

Innolite

Numerous projects in the field of replicating high performance optics by injection molding expand the knowledge towards tool design,

Magwise Precision

Professional China die casting factory specializing in aluminum alloy (ADC12), magnesium alloy (AZ91D), zinc alloy (ZAMAK)

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