

Article Overview

South Africa has several specialized die casting companies capable of producing high-quality aluminum and zinc components suitable for optical modules.

Key Die Casting Companies

Mazal Die Casting in Cape Town is a leading producer of high-pressure zinc and aluminum diecast products, specializing in custom-designed components for local and international clients. They handle small to medium production runs starting from 2,000 pieces, making them suitable for precision optical module parts. Halstead Specialized Manufacturing offers both pressure and gravity die casting in brass, aluminum, and zinc. They focus on precision and durability, producing components like handles, fittings, and other specialized parts, which can be adapted for optical module housings. PDC in Boksburg manufactures brass, aluminum, and zinc castings with ISO9001 certification, providing a fully integrated process for high-quality and timely delivery. Their expertise in aluminum die casting makes them a strong candidate for optical module applications. Other notable companies include AA Alloy Foundry, High Duty Castings (HDC), and Cast Products South Africa, which offer precision casting services and advanced metallurgical capabilities suitable for specialized components.

Materials and Processes

- o Aluminum and Zinc are the most common metals for optical module die casting due to their lightweight, thermal conductivity, and corrosion resistance.
- o High-pressure die casting is preferred for precision and repeatability, while gravity die casting can be used for larger or more complex shapes.
- o Many South African die casters provide custom finishing options such as anodizing, polishing, and coating to meet optical and electronic module requirements.

Considerations for Optical Modules

When selecting a die caster for optical modules, consider:

- o Tolerance and precision: Optical components require tight dimensional control.
- o Surface finish: Smooth finishes reduce light scattering and improve assembly.
- o Production volume: Some companies specialize in low-to-medium runs, while others handle large-scale production.
- o Quality certifications: ISO9001 or equivalent ensures consistent quality and reliability. South Africa's die casting industry offers a range of capable manufacturers for optical module components, combining local production expertise with advanced casting technologies.

What is a Die Cast Optical Part? The die cast optical components mentioned in this article refer to parts manufactured through the

Pressure Die Castings | 1,802 followers on LinkedIn. PDC is an innovative supplier of brass, aluminium and zinc castings to the

Discover all relevant Die Casting Companies in South Africa, including PDC and High Duty Castings (Pty) Ltd

The last 18 months have been a big growth period for KPL Die Casting in more ways than one. First came

CASTCO is the leading manufacturer of complex precision investment casting parts in a range of ferrous, aluminium, copper and

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

Compared with traditional multi-part structures, this die casting optical transceiver housing reduces joint

As one of the trusted Aluminium Die Casting Optical Fiber Device Casings Manufacturers in South Africa, we use advanced die

Garre Die Casting was established in 1993 and over the years we have produced a wide range of quality cast products. We currently

Explore top South African die casting suppliers for 2025 plus key insights for global buyers.

Die casting is used for optical communication components to produce precision parts with complex geometries, such as SFP module

Casting machines range from 350-800 tons of pressure. Casting machines range from 80-200 tons of pressure. Once casted, we

Custom CNC machined optical communication module housing with tight tolerance, corrosion resistance & stability.

Precision die-casting is widely used in optical module housing to provide necessary structural integrity for sensitive



South African optical module die casting

PRODUCTS OPTICS We source precision optics that meet our customer"s most stringent requirements.

Casting - our core business! We have a range of 14 high pressure die casting machines varying in size from 20t clamping force to

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