

Laser CPT007

Laser Ceramic Plunger Tip

(Precision-Engineered for High-Performance Die Casting)

Laser Ceramic Plunger Tips are advanced components designed to optimize die casting performance. Manufactured from high-grade cast steel and treated with a laser ceramic hardening process, these plunger tips deliver exceptional durability, thermal stability, and casting consistency. Engineered for high-volume production, they significantly reduce downtime and maintenance costs.

Application

Ideal for use in die casting of aluminum, magnesium, and other non-ferrous metals, especially in automotive, industrial, and high-precision manufacturing environments.

Benefits

Extended Life Span

Delivers up to **10,000–20,000 shots** (for 40–80mm tips) and **10,000–15,000 shots** (for tips above 90mm), ensuring fewer replacements and reduced downtime.

✔ Enhanced Casting Quality

Improves metal flow and reduces friction, resulting in better surface finish and dimensional precision in final castings.

✔ Optimized Lubrication

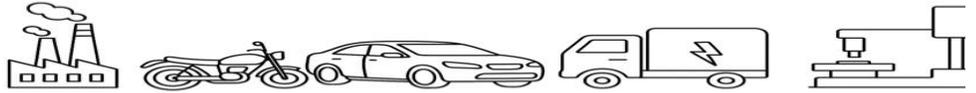
Advanced groove design ensures efficient lubricant retention, reducing wear and enhancing performance.

✔ Stable Thermal Management

Minimizes overheating risks and contributes to greater process stability.

Superior Material & Construction

Crafted from specialized cast steel, each plunger tip is enhanced with a laser-hardened ceramic surface, providing superior resistance to wear, thermal shock, and erosion. This robust construction ensures peak performance even under the extreme pressures and temperatures of molten metal.



Key Properties

- **Laser-Hardened Ceramic Coating**
Extends operational life and resists wear, deformation, and heat-induced damage.
- **Precision Grooving Design**
Engineered grooves maximize the efficiency of lubricants, reducing friction and enabling smoother metal flow.
- **Thermal Insulation**
The ceramic layer minimizes heat transfer, helping maintain casting consistency and protecting critical components.

Available Sizes

Tip Size (mm) Thread Size

40 × 90	M27 × 2
45 × 90	M27 × 2
50 × 90	M30 × 2
60 × 90	M30 × 2
70 × 90	M30 × 2
80 × 90	M36 × 2
90 × 90	M36 × 2
100 × 100	M36 × 2
110 × 140	M56 × 3
120 × 120	M56 × 3

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