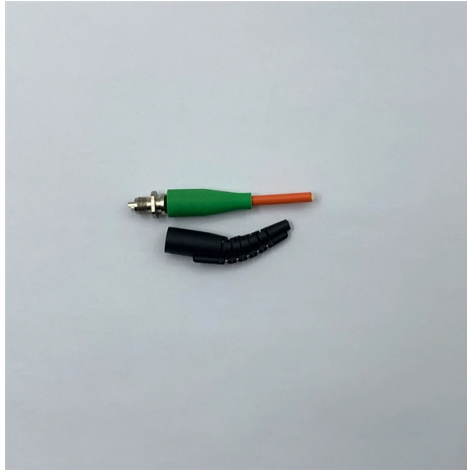


How much does a high-precision fused conical tapered die for subway use cost



Article Overview

The cost of a high-precision fused conical tapered die for subway applications typically ranges from \$50,000 to \$150,000 or more, depending on complexity, material, and production volume.

Key Cost Factors

1. Material of the Die: High-precision dies are usually made from hardened tool steels like H13 or P20 for durability under repeated use. H13 steel costs approximately \$50–\$80 per kilogram, while P20 steel costs \$30–\$50 per kilogram. The choice of steel affects both the upfront cost and the expected lifespan of the die . 2.

Complexity and Precision: A conical tapered die for subway use requires precise geometry and tight tolerances. Complex shapes often require wire EDM finishing, which can cost over \$100 per hour, in addition to standard CNC machining at around \$40 per hour . More intricate dies with multiple slides or cores increase tooling costs significantly. 3. Mold Size and Production Volume: Large dies for industrial applications, such as subway components, fall into the “large complex mold” category, with typical costs ranging from \$75,000 to \$150,000 or higher . High-volume production can reduce the per-part cost, but the initial die investment remains substantial. 4. Additional Costs:

- Labor: Deburring, inspection, and packaging typically add about 1.5% of the die blank cost .
- Post-processing: Surface treatments, heat treatment, or coating for wear resistance can further increase costs.

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For more information, pricing, or custom solutions, please contact us:

Website: <https://www.yachtchartercapetown.co.za>

Email: info@yachtchartercapetown.co.za

Phone: +27 21 863 4927

Address: 1st Floor, The Towers, 1 St George's Mall, Cape Town, 8001, South Africa

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