

Wunder-Mold

Wunder-Mold, in Vacaville, California, pioneered Ceramic Injection Molding (CIM) nearly 30 years ago, provides end-to-end manufacturing-under one roof. Wunder-Mold can provide mold design assistance and engineering support from concept through finished ceramic production.

Core Capabilities:

- Mutually selected ceramics that are application driven
- Complex 3D ceramic geometries
- Precision components from .1- gram to 140-grams
- Advanced machining and customer specific diamond-tool finishing
- Achievable Ra surface finish of 15 μm
- Tolerances to +/- 0.0002"
- Injected parts up to 6" in length or width
- Engineering assistance from design through final inspection
- ISO-9001 Certified Quality Assurance

Key features of CIM:

- Extreme wear resistance and 8 to 10 times harder than stainless steel
- Excellent repeatability- ideal for volume production of complex parts
- Reduced weight- components are often 40-60% lighter than stainless steel
- High-temperatures-maintains strength and integrity to 1400°C
- Electrical insulation and RF transparency
- Cleanliness & biocompatibility -well suited for medical and semiconductor
- Corrosion and chemical inertness
- Safety in explosive environments



Scaling ceramic components:

As production volumes increase, traditional machined ceramic, stainless steel or titanium parts can quickly become cost prohibitive. In many cases, transitioning to CIM with dedicated tooling can reduce total parts cost significantly- sometimes by up to 10x.

For applications requiring annual volumes in the several thousand range- especially 5,000 to 10,000+ parts-CIM becomes a compelling solution.

Here's a few links about Wunder-Mold:

[Plastic & Ceramic Injection Molding Manufacturer | Wunder-Mold](#)

[Expert Alumina Ceramic Injection Molding Company Near Me | Wunder-Mold](#)

[Alumina vs. Zirconia in Advanced Applications | Ceramic Parts Manufacturers](#)

[Creating Complex Shapes with Ceramic Injection Molding](#)

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