



AMORPHOLOGY



REVOLUTIONIZING AFFORDABLE PRECISION

High Precision Injection Molding Becomes Possible With Amorphous Metal



AMORPHOUS METAL / BULK METALLIC GLASS (BMG)

Amorphology leverages the superior attributes of BMGs using advanced manufacturing technologies such as injection molding, additive manufacturing, and coatings to build a variety of complex components and gears.

Injection molding **SIGNIFICANTLY REDUCES** production costs while simultaneously allowing us to create precision parts in a single step, **ELIMINATING** or reducing costly machining steps.

SUPERIOR CHARACTERISTICS

FEATURE

Significant Cost Reduction at Production Volumes

Net Shaped Part Production in 1-2 Steps

Micron Tolerances in One Step (ISO 3 Gears)

Short Cycle Time Production

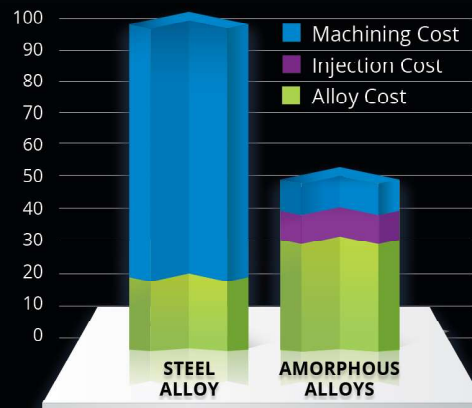
Rapidly Adjust Production Levels to Meet Demand

No Corrosion & Rust

Gears May Not Require Lubrication

Bio-Compatibility

STEEL VERSUS AMORPHOUS ALLOY PRODUCTION COSTS



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ABOUT AMORPHOLOGY

Amorphology is revolutionizing materials and methods by which complex parts are manufactured, utilizing scalable, repeatable, and robust processes that are customer and quality driven.

Our roots are based on exclusively licensed IP through Caltech, which was developed by our founder for NASA's applications in extreme environments where mission-critical components cannot be serviced. We are taking the same technology and using it for both terrestrial and extraterrestrial applications.

Heavily focused around bulk metallic glass alloys, coatings, and additive projects, we continuously file additional patents. In addition, our projects include steel and titanium for specialty applications. Our portfolio shows material properties and manufacturing techniques that were never thought possible.

PRODUCE



At Micron Level Tolerances

INSPECT



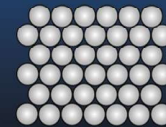
At Micron Level Tolerances

TEST

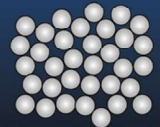


WHAT ARE AMORPHOUS METALS?

An amorphous metal, also known as bulk metallic glass (BMG) is a solid metal alloy with disordered atomic-scale structure. These metal alloys are special in that they have a unique ability to stay amorphous when cooling from their molten liquid phase to solid phase as long as they are cooled fast enough. The material structure of the alloy stays disordered, putting it in what's called a glassy state. These alloys are composed of a special combination of metals that give them good glass-forming ability (GFA).



Crystalline Metals



Amorphous Metals

OUR CAPABILITIES

Amorphology is located in Pasadena, CA where we have our vertically integrated manufacturing & development center. We cover everything from design, alloying, mold creation, injection mold manufacturing, gearbox testing and inspection/quality control.

- Bulk metallic glass injection molding
- Amorphous Metal Coatings
- Gradient Alloy Additive Manufacturing (3D Printing)
- High precision CNC (3, 5 & 7 axis)
- CMM for high precision and gears
- Material analysis & sample preparation
- Molding, casting and small batch alloying
- Gearbox testing

