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## TECHNOLOGY BREAKTHROUGH

# Amtek achieves 3D Solid Cold Forging

In another breakthrough of our continuous re-engineering success, Amtek has achieved another innovation in *3D cold forging*.

### Breakthrough:

- 3D Solid Cold Forge
- Complex geometry, internal & external gears
- Stringent tolerance & control
- Eliminate Casting, Machining and other net shape forming processes
- Good surface quality
- High performance, High strength, and High reliability
- High tonnage & pressure



### About Cold Forging

**Cold Forging** is a process in which reasonably malleable metal is plastically deformed between a punch and die, at ambient temperature under intense pressure, to assume the shapes of the core and/or cavity.

Cold forged parts have high density and low porosity, making them suitable for high performance, high strength, and high reliability applications where tension, stress, load, and human safety are critical considerations.

Cold Forging can drastically lower manufacturing cost by reducing or eliminating machining process.