

Engineering Services

Patternworx Technologies

At Patternworx Technologies, we offer comprehensive engineering services designed to accelerate your path from concept to cast. Whether you're developing a new design or reviving a legacy component, our expertise ensures your vision is executed with technical excellence and creative insight.

2D Drawings to 3D Models

Transform your legacy blueprints into future-ready digital assets. We convert 2D technical drawings into precise 3D models—optimized for manufacturing, prototyping, and visualization.

3D CAD Modeling & Design

From concept sketches to full production geometry, our CAD experts deliver high-fidelity models tailored to your requirements. We specialize in rapid iteration, detail refinement, and design for manufacturability.

Mold-Flow Analysis

Avoid costly surprises. Our mold-flow simulations predict how materials will behave during casting - giving you insights into fill times, air entrapment, and optimal gate placement. Better data, smarter decisions.

3D Laser Scanning

Need pinpoint accuracy? Our scanning capabilities capture complex geometries down to the finest detail. Ideal for reverse engineering, quality control, or digital archiving of legacy parts.

Cold Part Re-Creation

No tooling? No problem. We specialize in recreating discontinued or tool-less components through digital modeling and 3D printing—delivering cast-ready patterns without the wait.

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