3D SYSTEMS

4 Reasons to Implement Plastic Additive Manufacturing in Production Workflows

3D Printing in the Production Environment

From prototyping, to production enablement, to direct 3D production – 3D printing (also called additive manufacturing) has become a viable and cost-effective technology throughout the production environment.

Here are 4 reasons plastic additive manufacturing is right for your production environment:

1. You need parts with specific material properties

3D printing offers a range of material options to deliver parts with properties that can rival traditional materials, including:

- Durability
- Flexibility
- Toughness
- Wear resistance
- Transparency
- Temperature resistance
- Flame retardancy
- Castability
- Biocompatibility

2. You are looking to reduce production costs

Across applications and technologies, 3D printing can drive lower costs throughout prototyping and production by simplifying supply chains.

TOOLING

Dramatically reduce or even eliminate the need for tooling by enabling on-demand production.

JIGS & FIXTURES

3D printing jigs and fixtures ensures high quality assembly that maximizes man-hours and minimizes waste.

MASTER PATTERNS

The high accuracy of 3D printing is perfect for creating master patterns for vacuum casting, molds and investment casting to lower costs for short-run production.

DIGITAL MOLDING

3D Systems Figure 4 platform can enable up to 20% lower parts costs in direct 3D production of 500 parts as compared to traditionally manufactured parts and operations.

3. You want to accelerate your time-to-market

3D printing workflows compress the product development cycle to accelerate time-to-market without compromising part quality or performance.

- **INTRODUCE NEW PRODUCTS FASTER**
- **COMPRESS THE PRODUCT DEVELOPMENT CYCLE**
- **DESIGN AND DELIVER BETTER PERFORMING PRODUCTS**

CASE STUDY

Product design firm **reduces product time-to-market by 50%** and **lowers prototyping costs by nearly 99%** with MultiJet 3D printing.

4. You are ready to unlock big opportunities within your business

Additive manufacturing offers the unique opportunity to drive leadership and innovation with new capabilities.

- **Complex geometries**
- **Optimized designs**
- **Customized products**
- **High part quality**
- **Process accuracy & repeatability**
- **Production flexibility**

eBook
Plastic Additive Manufacturing for your Production Environment

The material, speed, cost and capability considerations when evaluating additive manufacturing

Download eBook