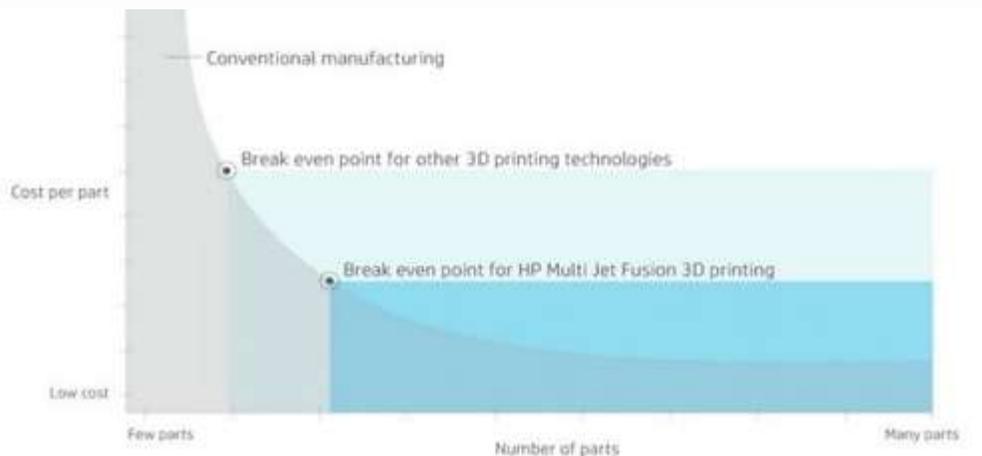




RapidMade - Jet Fusion 3D Printing: Injection Mold Quality without the Mold

For small and medium-batch production,
drastically cut part cost and increase delivery speed.



Jet Fusion 3D printing has a lower cost per part and quicker break even when compared to injection molding with tooling or SLS and FDM 3D printing technologies.

- Tooling costs are eliminated, and revisions are unlimited, saving thousands of dollars during start-up.
- Gain design freedom from draft, fillets and line of sight. Complexity does not add cost.
- Prototyping with a production process reduces engineering costs and uncertainty.
- Samples in days instead of months.
- Durable, accurate and repeatable production quality.

**VOLUME PRICING AVAILABLE FOR PRODUCTION QUANTITIES
BETWEEN 10,000 AND 100,000 PARTS**

**RapidMade delivers Jet Fusion 3D printed parts faster, with the highest part
quality and lowest possible cost**



Case Study: Hitec RCD USA, Inc.

"RapidMade's work was good, it was fast and much more cost effective than going overseas."
-Bryan Shaw, General Manager/CFO RCD USA, Inc.

The Overview

	Tooling Cost	Unit Cost	Total Unit Cost	Lead Time
Injection Molding	\$25,000	\$0.50	\$6.80	Five Months
Jet Fusion Printing	\$0	\$1.25	\$1.25	Two Weeks
Savings	----	----	82%	90%

4 part numbers - 1000 units each. Injection Mold data based on price and lead time for 4 cavity import tooling and domestic manufacture.

The Story

The Customer: Hitec RCD USA is known for supplying the hobby industry with the highest quality parts and service, including many complicated mechanical and electrical assemblies.

The Pain: Hitec operates in a niche consumer market, meaning its volumes are low but production costs must still be economical. For many of their products, the volumes just cannot justify expensive injection mold tooling.

The Project: Hitec had four distinct part numbers to manufacture - a thousand units of each. Making a four-cavity mold in China to produce all the parts would take three months and another month to ship to the US at a total cost of \$25,000. After paying a setup fee of \$200 per run, 1000 units would cost around \$0.50 each. After accounting for all costs and project phases, injection molding these parts would cost \$6.80 per unit and take five months for a complete production run.

The Solution: Hitec instead switched to RapidMade 3D printed Jet Fusion parts and cut its production cost by 82% and increased delivery speed by 90%. Real nylon printed parts only cost \$1.25 each and it only took two weeks to manufacture all four part numbers at a thousand-unit order. The parts had consistent finish and quality.

Fairing Right



Pod Latch



Fairing Left



Pod Latch Mirror



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