JBH Innovations Inc.

Drastically Reduce Time & Costs for Prototype Manufacturing

Inventor of tools shaved months off lead time and gained freedom for on-the-fly changes with the flexibility of ExOne 3D printing.

Customer Challenge
Creating prototype designs for hand tools is an extremely labor intensive and costly process. Changes in design equate many additional hours and high costs.

The Solution
ExOne's 3D metal printing technology was used to print functional working prototype tools. Additional design revisions to improve functionality took days, not weeks.

ExOne’s Competitive Advantage
ExOne 3D printers create parts directly from 3D models and eliminate expensive tooling for product development, saving time and money. Both printing and post-processing take place in one location, simplifying the process.

About ExOne
ExOne offers digital part materialization using three-dimensional printing to create full-form parts directly from CAD data for a variety of applications. The technology is capable of a geometric complexity unachievable with conventional manufacturing methods. Components produced by ExOne can reduce weight, integrate multi-piece assemblies, enhance product functionality and significantly reduce lead times for prototype and short-run production.

ExOne operates facilities across the Americas, Europe and Asia.

Specifications

Customer: JBH Innovations Inc.
Part Name: Locking Pliers

Traditional Method
Waterjet / Wire EDM / CNC, Form Tooling
Total Time: 8-9 months
Initial Costs: $20,000-$30,000 for tooling and prototypes
Revised Design Costs/Time: thousands of dollars to make changes to tooling which added weeks/months

ExOne® Metal Printing Method
Total Time: 3-4 weeks
Initial Costs: $1,900 for prototypes
Revised Design Costs/Time: hundreds of dollars to make a CAD file change, adding only days.

"There's flexibility in this process that you just can't get anywhere else."
- Jeffrey Hile, Engineer/Inventor

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Traditional Process
ExOne Process

To learn more, contact: www.exone.com

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