STEP into the Future

Evolve Additive Solutions Enhances Production Portfolio with New Global Parts Service and Two New Materials

Press Conference hosted by Evolve Additive Solutions

November 8, 2023

Agenda

- Introductions
- Evolve Company Overview
- About STEP Technology
- Introducing STEP Parts Now
- New Materials & Applications
- Q&A



Meet the Evolve Team

Jeff Blank President & COO

Jeff Hanson SVP Go-To-Market Melissa Hanson VP Marketing





About Evolve Additive Solutions

- Began as an incubation project inside of Stratasys 10 + years of development
- Spun out in 2017 and created Evolve Additive Solutions
- Inventor of STEP: Selective Thermoplastic Electrophotographic Process
- Headquartered in Minnetonka, Minnesota, USA
- Materials & Electrophotographic Technology Center in Rochester, New York
- Currently 55 employees and growing
- 150+ issued patents and 100+ perpetual cross-licenses



STEP Technology = No More Compromises Superior Part Performance across 4 Key Categories:

1. Feature Fidelity

13 μm layers and 22 μm particles produce strong, high-resolution parts with high edge-quality detail

2. Surface Finish

Ultra smooth surface finish from smaller particles and closed-loop printing process; 3-6 μm Ra as-printed

3. Repeatability

Highly accurate prints, from part-to-part and build-to-build

4. Mechanical Properties

Engineering-grade thermoplastics are used to produce fully dense, high-performance parts

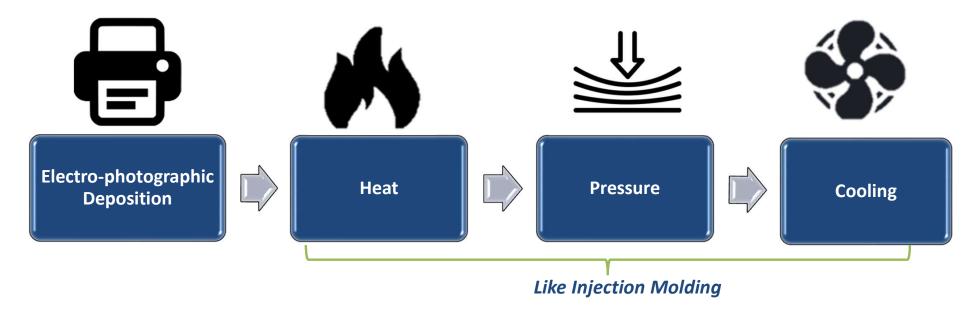
Think of STEP's particle size by comparing the size of a tennis ball to a basketball





How STEP Works:

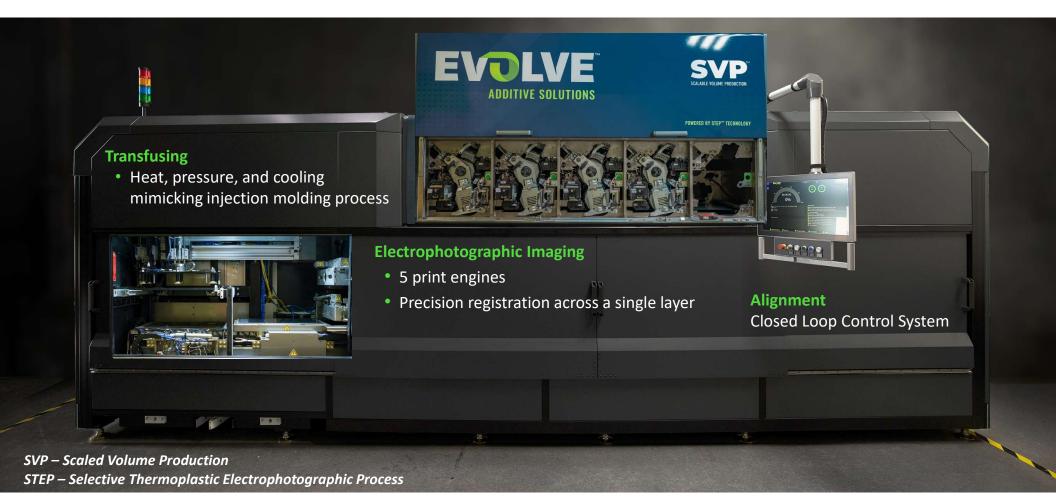
A Process Similar to Injection Molding



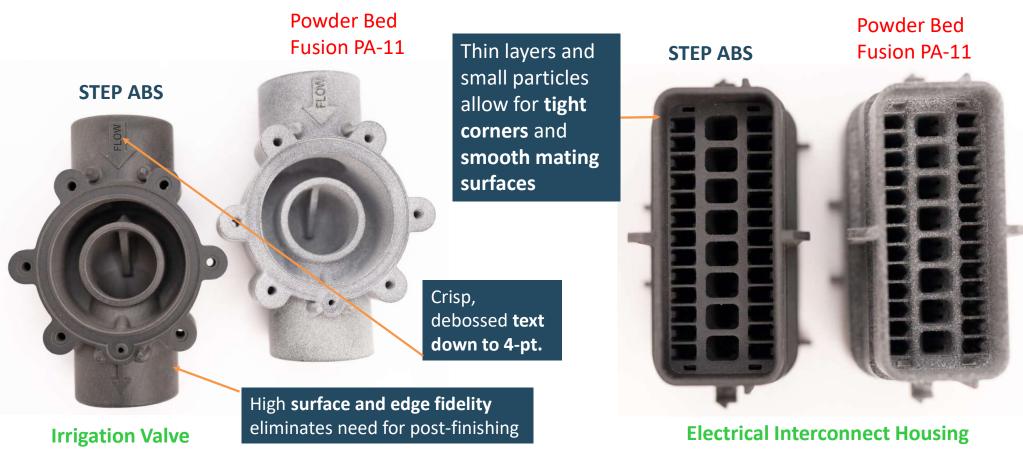
This process occurs at each layer, producing fully dense parts.



The Scaled Volume Production System (SVP)



STEP Prints the Finest Features; Best Dimensional Tolerances











Why STEP Parts Now

- Meet **growing market demand** for additive manufacturing (AM) for true production
 - With STEP, you no longer need to choose between fidelity, repeatability and engineering-grade materials
 - STEP provides a seamless transition from prototype through production
- Provide greater access to STEP technology around the world an onramp to adoption
- Application discovery, development and delivery





STEP ABS Check valves



Establishing STEP Production Centers of Excellence





STEPpartsnow.evolveadditive.com

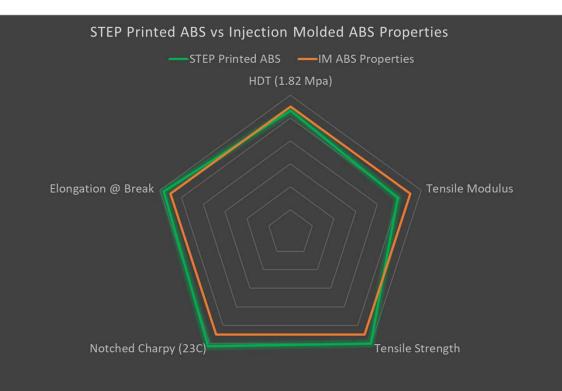
11	BY EVOLVE ADDITIVE SOLUTIONS		
111	WECOME BACK	CREATE A NEW ACCOUNT	
1114	Email	Request instant quote	6.00
		✓ Access STEP production globally	10.00
111	Password	✓ Manage quote/order/history online	00.00
115	Forgot Password?	✓ Track orders and progress	20000
	SIGN IN	SIGN UP FOR FREE	0.000
			10000
	? 2023 – E	ivolve Additive Solutions, Inc.	



NEW ABS Gray Material



STEP ABS vs. Injection Molded ABS Mechanical Properties



- STEP ABS mechanical properties are within ~10% of Injection Molded ABS bulk properties
- STEP ABS has equivalent or better impact strength and elongation to break than typical ABS



NEW Nylon PA-11(A)



Drill Bodies





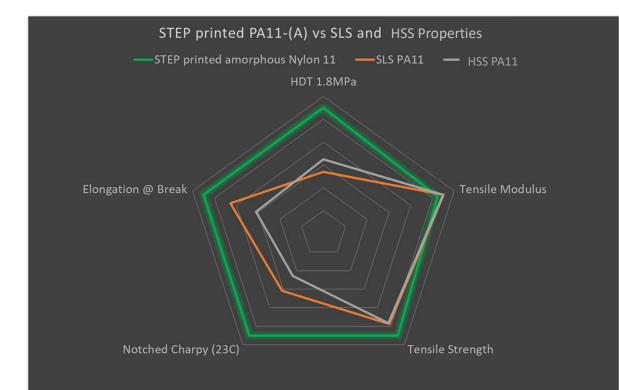
Threads on an Irrigation Valve



Evolve Confidential



STEP PA-11(A) offers Significant Performance Advantages



- STEP PA-11(A) parts exceed EAB measures by SLS and HSS
- STEP PA-11(A) parts usable in higher service temp applications
- STEP PA-11(A) parts exhibit much higher impact strength



Applications



Best-in-class Surface Finish and Textures



High Precision Electronic Housings and Snap Fits



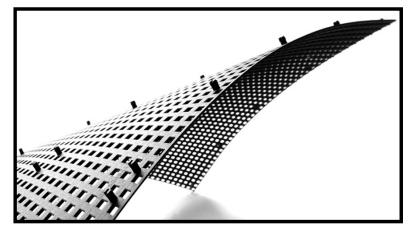
Fully Dense ABS Irrigation Manifold



Enclosed Volumes Check Valve Cross Section



Production Throughput -Automobile Bracket Assembly



High precision, Flat - Scoreboard Panel Clips



Applications







Part Consolidation

6 Injection Molded Parts --> 1 STEP Print ABS Black & ABS Gray Drone

Best-in-class ABS plating



Thank you! Q & A

Evolve Additive Solutions Enhances Production Portfolio with New Global Parts Service and Two New Materials – Nylon PA-11(A) & Gray ABS



• Speakers:

Jeff Blank, President & COO Jeff Hanson, SVP of Go-to-Market Melissa Hanson, VP of Marketing

• Formnext Booth:

Hall 12.1, B-89

Media Kit:
<u>www.evolveadditive.com/media-kit/</u>





