SVP TECHNICAL SPECIFICATIONS

The Evolve SVP™ platform is a 3D production printing system. STEP technology, or Selective Thermoplastic Electrophotographic Process, redefines the possibilities for additive manufacturing by solving existing challenges in plastic production and exceeding what 3D printing has been able to do thus far.

STEP enables scalable production with the following capabilities:

- Use of standard engineering thermoplastics
- Unmatched feature fidelity and surface finish
- Fully dense, repeatable, end-use parts

Accelerate your time to market with a single additive process - Develop products with end-use materials, save on expensive molds, and avoid subpar prototyping results from other AM options.

SVP TECHNICAL SPECIFICATIONS

Evolve Additive Solutions offers the world's first full-speed additive manufacturing platform that is ready for integration with the connected factory.

PLATFORM SPECIFICATIONS

Performance	
Technology	Evolve STEP technology
Build Space	600 x 300 x 100 mm (23.6 x 11.8 x 3.9 in)
Layer Thickness	13 µm
Print Resolution (x,y)	600 dpi
Cycle Time	~6.5 sec
Noise Output	<75 dB

Size	
System Dimensions	5.8 x 1.6 x 2.0 m (19 x 5.4 x 6.5 ft.)
Operating Area	6.0 x 3.6 x 2.5 m (19.7 x 11.8 x 8.2 ft.)
Weight	3500kg (7716lbs)

Materials	
Standard	1-part material + 1-support material
Special	Up to 3-part materials + 1-support material

FACILITY REQUIREMENTS

Network	Ethernet Connection
Environmental	ISO class 9, 17-28°C, 20-90% RH

Electrical	
Consumption	45 kW Production, 2kW Standby
North America	3 x 460-480 Volts/50-60 Hz
Europe/ROW	3 x 380-415 Volts/50-60 Hz
Main Breaker	120/150 Amps

Compressed Air	
Consumption	175 NL/min (6 SCFM)
Working Pressure	6.8 bar (100 psi)

Chilled Water (coolant)	
Consumption	90 liters/min (24 gpm)
Working Temperature	7-12°C (45-54°F)

Certifications
CE Marked

Noted: Contact Evolve for additional materials. All materials are engineering grade thermoplastics.

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PRODUCTIVITY OPTION

Evolve Additive Solutions has two new features that together significantly improve Operational Efficiency of the SVP system.

AUTOMATED TONER LOAD

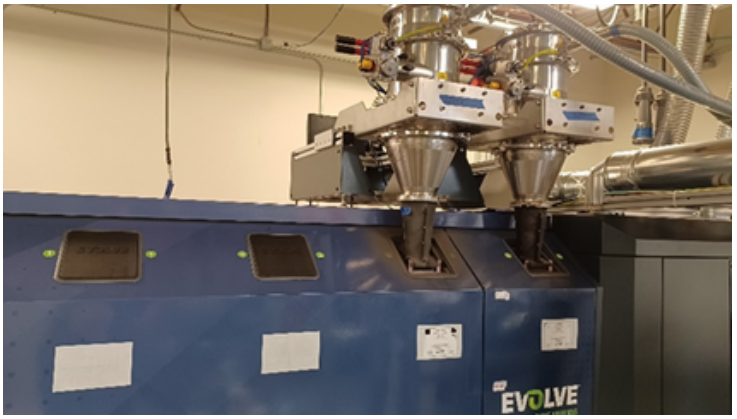
Automated Toner Loading (ATL) is a subsystem that automatically detects when part and or support toner material is low and will fill the SVP system from bulk material sources. the ATL is also easily moved out of place as shown in the pictures below.

UNATTENDED RUN-TIME

Unattended Run-Time (URT) consists primarily of system enhancements through software and controls, that allow the system to make use of the ATL in order to complete a job without an operator present. Together, these capabilities provide significant benefits by enabling nearly double the output of the system without needing additional SVP system operators.

BENEFITS

- Significantly enhances productivity time for the system
- Operators can start jobs at the end of shift and retrieve the build the next day
- Nearly double the productivity of the SVP system without adding additional operators



SVP shown configured for automatic toner loading

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