SculptPrint[™] RND

Large-Scale Metal Additive Manufacturing System



Think BIG with Lincoln Electric Additive Solutions

Many additive technologies are limited to printing small parts with poor quality, and too often traditional manufacturing methods dictate your large metal part designs. Partner with the world leader in large-scale metal additive manufacturing (AM) and start realizing the full range of benefits: faster turn-around times, part design flexibility & freedom, and rapid prototyping of functional parts.

Limited to Your Imagination

The SculptPrint[™] RND additive system from Lincoln Electric is designed for R&D use by corporate, academic and government institutions to help you test and qualify parts, prototypes and materials faster and more efficiently. The SculptPrint RND comes ready to print parts from mild steel, high strength low alloy (HSLA) steel, austenitic stainless steel and martensitic stainless steel—with more alloys over time—optimized with Lincoln Electric's best-in-class wires to ensure a consistent, quality print.

SculptPrint OS Path Planning Software

Most additive slicing software only allow for path planning of planar layers, and often require significant user intervention & correction. Lincoln Electric's proprietary SculptPrint OS software reliably and quickly takes you from CAD to print -- including printing non-planar layers.

R&D To Production. Seamlessly

Create and validate new designs, generate internal standards, and fully characterize metals for your future AM efforts. Take designs from the page to print and measure how well they stack up as a part, tool or prototype. Move from research & development to finished production parts and sub-assemblies easily and quickly using Additive Solutions' manufacturing services. From idea to reality - all with a trusted partner.

Publication E10.560 | Issue Date 02/21 © Lincoln Global Inc. All Rights Reserved www.lincolnelectric.com



» Specifications

- Build Envelope (approximate): 2.5 ft x 2.5 ft x 2.5 ft (76 cm x 76 cm x 76 cm)
- Footprint: 7.3 ft x 13.5 ft [2.2 m x 4.1 m] fully palletized
- System height: 7.5 ft [2.3 m] as delivered, 9.1 ft [2.8 m] with supplied fume hood; 12 ft [3.7 m] ceiling height for ductwork
- SculptPrint OS and the SculptPrint RND system are only licensed for use with Lincoln Electric wire feedstock.
- · Pre-loaded with approved wire feedstock settings
- · Patented closed-loop deposit height control reduces opportunity for costly error
- · Configurable for international locations, including power requirements and CE and CSA markings.

» Equipment

- · 6-Axis ABB® IRB 1660ID Robot Arm
- · 2-Axis ABB IRBP A750 Skyhook Positioner
- Power Wave[®] R450 with STT[®] module
- AutoDrive[®] 4R100 Wire Feeder
- Magnum[®] PRO Water-Cooled Welding Torch
- Torch Maintenance Station
- · Fume Hood (fume extraction equipment sold separately)

» Sensors

- Through-Arc[™] Tracking
- Torch Calibration
- Non-Contact Distance Measurement
- IR Temperature Measurement

» Remote System and Process Support

- · System & Software Training Package at Additive Solutions
- · Additive Solutions Engineering Support

Easy Financing options available!



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CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company^{*} is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change - This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.com for any updated information.

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