

SCULPTPRINT™ RND — ADDSYS-1

SYSTEM DESCRIPTION

- » Foot print (approximate) : 7.8ft W x 13.4ft L
(4.09m x 2.36m)
 - 100% palletized
 - Height: 7.3ft (2.22m), 9ft (2.74m) with fume hood
- » Maximum build envelope (approximate, depending on sensor configuration):
2.5ft x 2.5ft x 2.5ft (0.76m x 0.76m x 0.76m)
- » Lincoln Electric SculptPrint™ OS additive path planning software (single user license)
- » Automation Equipment
 - 6-Axis ABB IRB 1660ID Robot Arm
 - 2-Axis ABB IRBP A750 Skyhook Positioner
- » Lincoln Electric Wire-Arc AM Equipment
 - Power Wave® R450 with STT Module
 - AutoDrive® 4R100 Wire Feeder
 - Cool Arc 55 Water Cooler
 - Magnum Pro Water-Cooled Welding Torch
- » Sensors
 - Through-Arc Tracking
 - Torch Calibration
 - Non-Contact Distance Measurement
 - IR Temperature Measurement
- » Other Equipment
 - Torch Cleaning Station
 - Fume Hood (fume extraction equipment sold separately)
 - Cell Control HMI



SculptPrint™ RND

FACILITY REQUIREMENTS

- » 480 VAC, 3-phase (configurable for international)
 - 45A for power supply
 - 20A for robot
- » 80 psi (5.5 bar) shop air
- » Shielding gas
- » Flooring: concrete, 5in (13cm) min thickness
- » Fume extraction: 2,400 cfm (68 m³/min)

SCULPTPRINT™ OS LICENSE

- » SculptPrint™ OS is Lincoln Electric's proprietary additive path generation software
 - Simple CAD to robot path workflow
 - Import STL, STEP, or IGES files
 - Advanced path planning using voxels
 - Non-planar surface or layer deposition
- » Includes a single license of SculptPrint™ OS plus periodic software maintenance, including upgrades and enhancements to SculptPrint™ OS at Lincoln's discretion.

PRE-CONFIGURED SCULPTPRINT AND SYSTEM SETTINGS

- » The SculptPrint RND is pre-configured to operate with the following wire feedstock alloys from Lincoln Electric:
 - SuperArc® L-59® (AWS classification: ER70S-6)
 - SuperArc® LA-100 (ER100S-G)
 - Blue Max® MIG 316LSi (ER316LSi)
 - Blue Max® MIG 410NiMo (ER410NiMo)
- » Additional wire feedstock alloy settings may be added and provided to the Buyer at Lincoln's discretion
- » Lincoln cannot guarantee performance of the SculptPrint RND if Buyer operates using non-Lincoln Electric wire feedstock

ENVIRONMENTAL SYSTEM FOR FUME EXTRACTION

Lincoln Electric Prism™ Compact Fume Extraction System — AD2455-1

The Prism™ Compact welding fume extraction system delivers less noise, lower costs and maximum results to customers in need of a solution for space constraints.



» COMPACT SIZE

- Can be placed directly next to a cutting table or robotic cell
- Reduced height for areas with space constraints

» QUICK AND SIMPLE INSTALLATION

- Ships pallet-less
- Crane-less assembly
- Lincoln Smart Connect™ technology results in quick and seamless wire connectivity to the robot
- Connect power, compressed air and duct sensor for fan speed control

» QUIET OPERATION

- Silencer and sound deadening materials drastically reduce airflow noise
- Equipped with a variable speed drive that adjusts extraction airflow to application
- Intelligent fan control technology maximizes fume extraction, conserves energy and extends equipment life

» SIMPLE MAINTENANCE

- System automatically starts cleaning process once pre-set pressure differential is reached
- Vertical filter orientation allows for more efficient cleaning
- Particulate will be collected into the 20-gallon dust bin
- Alarm notifies maintenance to change filters

» ADDED SAFETY

- Integrated spark arrestor
- Optional Prism™ Thermal Suppression System

SPECIFICATIONS

- » 5 HP (7.5 Amps)
- » Number of filters: 4, Prism™ MERV 16 filters (KP4519-2)
- » Input Power: 380-480V/3~/50-60Hz
- » 2400 CFM @ 8 in. WG
- » Assembled Weight (approx.) w/o Filters: 1663 lb. (754 kg)
- » Dimensions (approx.) W x D x H: 45 in. x 70 in. x 114 in. (1143 mm x 1778 mm x 2896 mm)