

Laserdyne 811

LASER METAL DEPOSITION



THE FASTEST SOLUTION FOR 3D FABRICATION, REPAIRING AND COATING WITH QUALITY AND ACCURACY

The latest development from Prima Additive in laser metal deposition additive manufacturing process. The machine provide precision and flexibility for a wide variety components. The machine is equipped with one of the fastest laser processing systems in the industry. The controller supports 7 axes of simultaneous motion, and integrated automation to load and unload component and subassemblies, i.e. robotic, automated stock inputs, turn-table, or out feed platform.



FLEXIBLE

A single machine that support welding, drilling and cutting 3D and 2D Components. With the BeamDirector® and quick change nozzles, in a matter second the machine be changed from welding to drilling or to cutting. The machine supports 3 to 7 axis of simultaneous motion.



RELIABLE

The machine encompasses over 40 years engineering and industrial laser processing expertise. The LASERDYNE® have strong reputation for consistently and quickly manufacturing quality components.



EFFICIENT

Higher overall equipment efficiency due reduced downtime and maintenance. Less resouces dedicated to maintaining the machines. More efficient use of floor space for the total working envelope.



PROFITABLE

Best value on the market for precision laser processing. The Laserdyne 811 with improved performance and built SmartTechniques is design for fast, efficient, and reliable precision laser processing giving quality parts from start to finish.



PRECISE

Highly precise and repeatable performance yeilds quality parts and subassemblies for welding cutting and drilling. The S94P controller and motion system provide complete control of the laser processes.

Technical Specifications

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DIMENSIONS	System: 2113 (L) - 6779 (W) - 3481 (H) mm
FOOTPRINT	7,68 m2 (machine) - 14,3 m2 (system)
WEIGHT	9550 Kg
LASER IR	Laser Yb (Itterbio) IR single mode, 3000 W, 1070-1080 nm
WORKING VOLUME	1100 * 800 * 600 mm
HEAD AXES	BeamDirector® (C-D): C axis +90 -90 degrees D axis +90 - 90 degrees
POWER SUPPLY	400 V / 50 Hz / 24 kW
AXES VELOCITY	X-Y-Z 0-50 m/min BeamDirector® (C-D): 0-30 rpm
RESOLUTION	Linear (X-Y-Z): 0.0025 mm BeamDirector® (C-D): 0.001 degree
ACCURACY	Linear (X-Y-Z): 0.025 mm bi-directional BeamDirector® (C-D): +/- 15 arc-second
REPEATABILITY	Linear (X-Y-Z): 0.025 mm bi-directional BeamDirector® (C-D): +/- 15 arc-second
ROTARY OPTION	2 axes Tilt & Rotation (load capacity option)
DEPOSITION RATE	up to 100* cm3/h * Dependent on process parameters and material used.
ROUGHNESS RA	min 20 micron - typical 40 micron
DEPOSITION ACCURACY	+/- 0.2 mm
POWDER FEEDER	1 to 4 hopper (1.5 l)
CAM SOFTWARE	MasterCam DeD
CNC SOFTWARE	S94P Prima Power

- Laser
- Machine and additive process details
- Peripheral & auxiliaries - Software