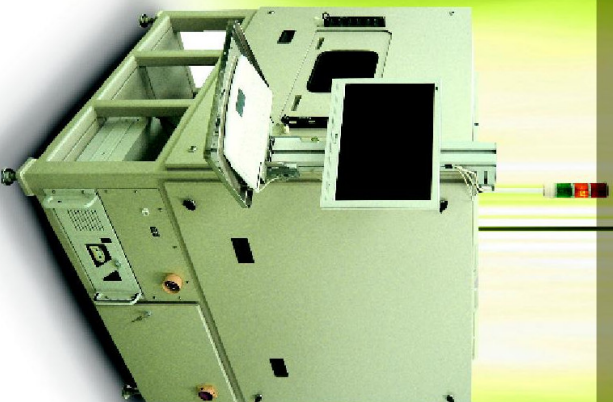


Inspire HW1001™

HW1001 Dual Head Laser Precision Welding Machine



Leader In Laser Solutions

Features:

High UPH

Ultra High Speed Motion

Precision Linear Motor XY Stage with +/- 1 micron Position Repeatability

Microspot Welding

Repeatable Spot Diameter with Auto Power Feedback Control

User Friendly CAD-Based Welding Position Setup Program



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Technical Specifications

Lamp-Pumped Solid State Nd:YAG Laser	
Laser Medium:	Nd:YAG
Maximum Single Pulse Energy (J)	50
Power Supply featuring Peak Power (kw)	4.5
Power Feedback Control, Power Ramping and Pulse Shaping	
Provide up to four energy or six time share fiber outputs	
Pulse Rate Maximum (Hz)	200
HyScan 200: Scanhead System	
Laser Beam Delivery:	Goniometer Scanhead System
F-Theta Lens Marking Area (mm)	110 x 110 *
* Other available options: 60 x 60, 160 x 160	
Utilities and Environment	
Power Supply for Laser:	220 VAC, 3 Phase, 4 Wires, 13 Amp, 400VAC, 3 Phase, 4 Wires, 7 Amp
Power Supply for Laser Controller:	208 VAC, 3 Phase, 5 Wires, 50 Amp
Operating Conditions	
Environment:	Enclosed in Cleanroom Class 100 Standard
Storage Conditions	
Environment:	Area without Condensation
Temperature:	5 to 45 degree celcius
Humidity:	Up to 75% RH maximum
Vision System	
Inspection Time:	0.2 sec per frame
Scanning Area (mm)	110 x 110
Camera:	CCD Up to 2 Mega Pixels
Front of View (mm)	3 to 10
Resolution:	Up to 2 µm per pixel
Dimension	
264.2 mm (Length) x 130 mm (width) x 604 mm (Height)	



PC Controller

Type of Controller: Windows Based PC Controller
 Marking Software: HyperMark CAD-Based GUI marking software for creating and editing of marking layout.
 Text, Barcode, Data Matrix polygon creation within a few mouse clicks.

Optional features includes:

- Windows True Type Fonts
- Font Editor
- P.L.T. AutoCAD format import
- RS - 232 Serial Comm.
- TCP / IP comm. Via Win Socket
- BMP / TIF Marking
- Options:
 - Automatic & Semi-Auto Handlers
 - Data Matrix and Linear Barcode Verifier
 - Dust Collector / Fume Extractor
 - Red Targeting Laser
 - Auto Power Calibration System
 - Marking Software Customization

Lens for Field Size (mm)	Working Distance (mm)
60 x 60	100
110 x 110	180
160 x 160	300/311*



Hypertronics Pte Ltd

Warranty

Hypertronics warrants each laser system to be free of material and manufacturing defects for a period of 1 year after shipment based upon normal equipment use as specified by Hypertronics and its personnel.

Legal Notices

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