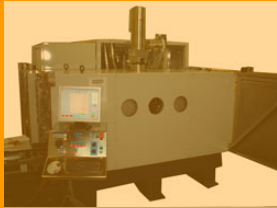




# LASTRON-100-LWH-W

## Custom Electron Beam Welding System

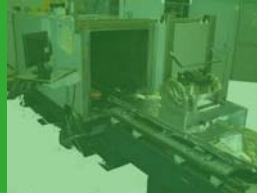
State-of-the-art manufacturing technologies means improving product design, material properties, production costs and customer functionality. PAVAC systems offer cost effective solutions for small, medium and large sized corporations world-wide to achieve their goals. Custom made system allow you to choose the chamber size to accommodate your requirements up to chamber of 3 meters x 3 meters x 6 meters.



Custom made system with a max chamber size of 3x3x6 meters, allows travel 3000mm (120") X-travel  
Max 1500 mm (60") Y-travel

Reduce your costs!  
Increase efficiency!  
Maximize your profits!

Recognized accuracy  
Reliability  
Fully automated  
Operator-friendly  
Turnkey systems



Combining Laser and Electron beam technology increases your productivity! Our multi process machining capability reduces setup costs and makes manufacturing in one process possible.

Become a market leader through intelligent investment. Our accuracy, dependability and next generation technology are recognized world-wide.

### Automation Commitment:

Unique state-of-the-art controller technology. Our PC based system centralizes all process parameters and generates your program. Integrated Online CCD camera for visual process control. Our systems features:

- up to 4 axis beam control
- up to 5 axis mechanical motion
- Linear motor technology
- CCD vision system
- Path tracking
- Export version available

Phone PAVAC today (604) 231-0014 or Fax (604) 231-0084, [www.pavac.com](http://www.pavac.com)

LASTRON-100-LWH-W

# Specification

## Technical Data

(Data are subject to changes)

### Standard Equipment:

LASTRON 100 beam  
FEA designed base  
Sound proofed enclosure  
AC Linear motors  
Linear encoder X,Y,Z  
LASTRON CNC  
Automatic vacuum system  
CCD camera  
Safety interlocks  
Chillers for Laser and gun  
AC for electric enclosures  
ISO 14744, ISO 814  
UL / CSA / CE

### Options:

Z axis  
A axis  
B axis  
High speed pulsing  
High speed vacuum  
Part / material handling  
Extended vision system  
Special rotaries and jigs

PAVAC Industries Inc.  
#1160-21331 Gordon Way  
Richmond, B.C., V6W 1J9  
Canada  
Phone (604) 231-0014  
Fax (604) 231-0084  
www.pavac.com

### Travel

Max X axis	120"	3000mm
Max Y axis	60"	1500mm
Max Z axis	30"	750mm
A axis	360°	360°
B axis	180°	180°

### Beam

Beam Power	Available from 3kW to 30kW
Voltage range	40 to 100kV
Beam current	Up to 300mA
Beam resolution	0.1 mA

### Feed Rates

X-Y-Z	0-400 ipm	0-10 m/min
A-axis	0-18000 dpm	0-18000 dpm
B-axis	0-3600 dpm	0-3600 dpm

### Resolution

Linear	0.0001"	0.001 mm
Rotary	0.0025°	0.0025°

### Accuracy and Repeatability

(Linear encoder Standard)

Linear accuracy	± 0.0004"	± 10.0 µm
Linear repeatability	± 0.0003"	± 7.5 µm
Rotary accuracy		± 0.05 °
Rotary repeatability		± 0.04 °

### Weight and Dimensions

Max chamber	1872 ft <sup>3</sup>	53000 liter
Total weight	Custom	Custom
Overall dimensions	Custom"	Custom