



# LASTRON-100-400-MP

Multi Process  
Electron Beam System

## Machining, drilling and welding in One machine! One Setup! Higher Profits!

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.



400mm (16") X-travel  
250 mm (12") 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-100-400-MP

# 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 pulse 500kHz  
High speed vacuum  
Part / material handling  
Extended vision system  
Special rotaries and jigs

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### Travel

X axis	16"	400mm
Y axis	12"	250mm
Z axis	6"	150mm
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	
Beam pulsing	From 1 Hz to 50.000Hz	

### Feed Rates

X-Y-Z	0-600 ipm	0-15 m/min
A-axis	0-18000 dpm	0-18000 dpm
B-axis	0-7200 dpm	0-7200 dpm

### Resolution

Linear	0.0001"	0.001 mm
Rotary	0.0025°	0.0025°

### Accuracy and Repeatability

(Linear encoder Standard)

Linear accuracy	± 0.0002"	± 5.0 µm
Linear repeatability	± 0.0001"	± 2.5 µm
Rotary accuracy		± 0.05 °
Rotary repeatability		± 0.04 °

### Weight and Dimensions

Chamber volume	13 ft <sup>3</sup>	360 liter
Total weight	9800 lb	3200 Kg
Overall dimensions	126x63x97"	320x160x245 cm