

# EARL PRECISION MANUFACTURING'S NEW MITSUBISHI LVPLUS II LASER CUTTING SYSTEM



Earl Precision Manufacturing is proud to announce our latest state-of-the-art equipment addition, a Mitsubishi LVPlus II 6x12, 4000 Watt Laser Cutting System with a fully automated 8-shelf material tower. The LVPlus II can accommodate high-speed cutting of mild steel, galvanized steel, stainless steel and aluminum. This revolutionary machine will allow us to shorten turnaround times, eliminate costly tooling changes and provide more flexible solutions for all of our customers in both private industry and government.

Earl Precision Manufacturing's independent certification to ISO 9001-2008 and AS9100B-2004 ensures the on time delivery of consistent high quality Parts, Machine Tools, Manufacturing Equipment and Services to our customers, regardless of the size or complexity of the project.

To learn more about the full range of Earl Precision Manufacturing's capabilities go to [www.earl-ind.com](http://www.earl-ind.com).

## Key Benefits

- + Cutting Capabilities up to 1.00"
- + High Surface Quality
- + Minimized Taper
- + 8-Shelf Material Tower
- + Short Cycle times
- + High Production Flexibility
- + No Costly Tooling



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The LVPlus II Series is the latest evolution in heavy duty, high performance Laser Cutting Systems. With more advanced CFX resonators, this machine features new enhancements to Mitsubishi's patented crossflow laser technology for reduced cycle times and high production throughput. The LVPlus II is built on a single-piece, ultra-rigid, Dianite cast frame to maintain exact tolerances in even the most challenging environments and work applications. Our Mitsubishi LVPlus II is fully system integrated into Earl Precision Manufacturing's CNC capability and rounds out our already well equipped machining capability .

Processing Machine Specifications	3718 LV PLUS II
Motion Drive System Design	Precision rack & pinion
No. of control axes	3
Workpiece dimensions (in)	144.1 x 72.0
Stroke (X,Y,Z) (in)	145.7 x 72.8 x 3.54
Rapid travel speed (single axis) (in/min)	4730 (simultaneous)
Max. processing feedrate (in/min)	1180
Positioning Precision (in)	0.0019/20 (X,Y axis) .0039/4 (Z axis)
Repeatable accuracy (X,Y) (in)	+/- .00039
Max. workpiece weight (lb)	2200
Outside dimensions (WxHxD) (in)	469.6 x 90.6 x 196.1 (40CFR)
Machine unit weight (lb)	28910
Drive system	X,Y,Z simultaneous control
Pallet change time (sec)	Approx. 33
Pallet capacity (lb)	2200/ pallet
Pallet changer weight (lb)	6000
Applicable machine size	3718 (6' x 12')

With the addition of our new Mitsubishi LVPlus II Laser Cutting System, Earl Precision Manufacturing can move projects even more seamlessly from concept to construction. We employ the latest technological processes including select CNC (Computer Numeric Control) based operations to meet even the most exacting tolerances, finish quality and durability requirements. Our state-of-the-art fully-automated metal fabrication plant routinely creates a spectrum of products for shipboard and industrial applications often in "lights out" 24/7 production cycles. Complex steel, stainless steel and aluminum alloy structures and projects can all be accommodated by our experienced team of technicians.

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## ADDITIONAL FEATURES

- + High speed, heavy duty motion system. Reduces processing time as much as 50%.
- + Diamond Path advanced beam delivery system. Superior edge quality and processing consistency over entire work area.
- + PC-based, 64-bit NC control has touch-screen user interface and full network capability
- + Easy access to processing area. Makes setup and changes faster and easier.
- + Ultra rigid, single platform Dianite cast machine frame. Provides the ultimate stability that ensures high-speed processing accuracy.
- + Mitsubishi safety package. Includes full side covers and automatic door for processing area.
- + Heavy-duty, high-speed pallet changer maximizes throughput

