

21st Century Automation **...That's Affordable!**



MultiCam's 2000 Series Laser machine is a versatile platform for full sheet cutting. The machine is available in 60 inch and 80 inch widths and lengths up to 240 inches. It is available in three power ranges: 100, 200 and 400 WATT. The 2000 Series flying optic system is fully collimated for uniform beam quality in the near and far field.

MultiCam's 2000 Series Laser machine can cut as well as raster engrave in a variety of materials. Rigid all-steel frame insures rigidity and structural integrity under the most demanding conditions. Digital AC brushless servos, high precision planetary gearboxes and helical rack and pinion allow the MultiCam 2000 Series laser to achieve high speeds without sacrificing accuracy.

MultiCam[®]
CNC Cutting Solutions

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2000 Series Specifications

No machine offers more standard features than the MultiCam.

- Welded, stress relieved and precision machined steel plate/box frame moving gantry construction insures rigidity and structural integrity. A gantry clearance of 1.875" (48mm) is standard.
- Lasers: Synrad Firestar 100, 200 and 400 watt (water cooled)
- The MultiCam 2000 Series Laser system comes standard with a high end flying optics system with 2.5" (63.5mm) and 5" (127mm) available optical focal lengths (5" is included standard).
- Included in the system is a red laser diode pointer to aid in the setup of the optics and for material alignment. A beam collimator is used to insure a consistent beam diameter thru the full range of motion. With the capacitive height sensing option, the Z-axis will react to material height changes on the fly while cutting. This system will work with conductive materials only.
(Non-conductive materials can be cut with the addition of an optional shoe.)



MultiCam EZ Control

When you purchase a MultiCam 2000 Series Laser, your goal is to automate a process. There are many competitive choices, but only MultiCam offers EZ Control -- the ultimate advancement in the human machine interface (HMI) that allows anyone to run the CNC machine.

When companies automate, they focus on reducing cost and maximizing profit by producing more parts faster and more accurately with less waste and less labor. EZ Control helps customers best achieve these goals, with the added benefits of shorter production times and extreme ease-of-use. If the machine operator is out and the next worker in line must continue with the day's work, then the process is made possible with the EZ Control system. With only a few minutes of training, the replacement machine operator can continue with the workload and save the day's production. Now that is EZ Control!



All MultiCam L.P. laser cutting machines conform to the Laser Radiation safety codes per US 21CFR1040.10/.11 except for variations of laser notice No. 50 (07-2001). MultiCam takes great pride and care in assuring complete safety of our customers and staff members. For more information please contact MultiCam at info@multicam.com or 972.929.4070.

2000 Series Specifications

EZ Control Integrated Material Library

When you change material type or thickness many parameters such as federate, pierce delay, pierce height, etc. all need to be adjusted. MultiCam has made this process simple by integrating all of these cutting values into a simple to use menu driven database on our hand held controller. The user simply selects material type and thickness, and all of the settings are adjusted automatically.



Tabletop Options

A slat style cut bed is provided standard on the 2000 Series Laser. The slats are one inch tall, 4pt steel rule on 4 inch centers. Each slat has a radius on the edge to minimize flash back. The slat material provides a rigid base and replacement material is readily available.



Fume Extraction

The MultiCam 2000 Series Laser system uses both above the material and below the material fume extraction for optimum fume removal. Fume extraction above the material is collected thru one 2" diameter hose at the cutting head and is powered by its own 1 HP regenerative pump. This assists with collecting fumes during initial piercing and raster engraving. The main material fume extraction collects the fumes under the cutting surface. A 16 inch port is provided at the rear of the table for connection to a fume extraction system.



Cut Gas Delivery System

Low-pressure compressed air delivery is standard on all systems. A high-pressure cut gas delivery system is included with the capacitive cutting option.



Standard Surface Mapping

To achieve the best cut quality, it is important to keep a consistent distance between the cutting head and material. MultiCam's surface mapping feature uses a sensor to take height measurements in a grid pattern to create a 3D surface of the material. The controller then takes the 2D file and projects it on to the 3D surface by converting the G-Code or HPGL job file into 3D splines.

2000 Series Specifications

Specifications:

- Slew speed: 800"/min (0.33 M/sec) in X axis, 2400"/min (1m/sec) in Y axis
- Cut speed: 800"/min (0.33 M/sec)
- Repeatability: +/- 0.001" (0.025 mm)
- Raster speeds up to 1800"/min (0.8 M/sec) using up to 256 gray scale with up to a 1200 DPI resolution.
- Precision servo drives with helical rack and pinion and linear ball bearing guide ways on the X and Y-axis
- Ball lead screw and linear ball bearing guides ways on Z axis.
- Gantry clearance 1.875" (48 mm)
- Z axis stroke 3.25" (82 mm)
- Y axis stroke 60" (1524 mm) and 80" (2032 mm)
- X axis stroke 50" (1270 mm), 100" (2540 mm), 120" (3048 mm), 144" (3658 mm), 168" (4267 mm), and 240" (6096 mm)

System Sizes

MODEL	Working Area	
	Length (L)	Width (W)
2-201	50" (1270 mm)	60" (1524 mm)
2-203	100" (2540 mm)	60" (1524 mm)
2-204	120" (3048 mm)	60" (1524 mm)
2-205	144" (3658 mm)	60" (1524 mm)
2-208	240" (6096 mm)	60" (1524 mm)
2-304	120" (3048 mm)	80" (2032 mm)
2-306	168" (4267 mm)	80" (2032 mm)

