

The NX-F series features new fiber laser technology, which takes laser processing to a new level of performance. The NX-F 3015 two-dimensional fiber laser processing system comes standard with a fiber laser resonator, z-axis linear drive, preset autofocus and a safety cover. The NX-F series features the new Mitsubishi 700 series control—the latest, most sophisticated control from Mitsubishi. It offers a step-by-step maintenance guide for easier user interface. The machine also features a multi-chamber dust-collection mechanism and a head position camera for material alignment, which allows the operator to make head adjustments—even if the work piece is far away. For more efficient operation, the NX-F series comes standard with an Eco Mode, which reduces cost during standby by up to 70 percent.

<b>Machine Travels: X x Y x Z in (mm)</b>	125.9 x 62.9 x 4.7 (3200 x 1600 x 120)
<b>Workpiece Dimensions: W x D in (mm)</b>	120.1 x 60.0 (3050 x 1525)
<b>Available Resonators: (model number/wattage output)</b>	YLS-2500
<b>Motion Drive System Design</b>	Helical Rack & Pinion
<b>Processing Lens Focal Distance: in (mm)</b>	4.0/8.0 (101/203)
<b>No. of control axes</b>	3
<b>Machine Structure</b>	X-Y Helical Rack & Pinion, Z Precision Linear Drive
<b>Travel Drive Method</b>	X-Y-Z Simultaneous 3-axes (Z axis height control is also possible)
<b>Table Pass Height: in (mm)</b>	34.6 (880)
<b>Pallet Changer</b>	Provided
<b>Rapid travel speed [X,Y]: in/min. (m/min.)</b>	4724 (120) single axis, 6680 (170) simultaneous
<b>Max. processing feedrate: in/min. (m/min.)</b>	2360 (60)
<b>Positioning Precision: in (mm)</b>	0.0019/20 (0.05/500) X, Y axis, 0.0039/4 (0.01/100) Z-axis
<b>Repeatable accuracy [X,Y]: in (mm)</b>	+/-0.00039 (+/-0.01)
<b>Drive Motor Type</b>	Intelligent AC Servo
<b>Max. workpiece weight: lb (kg)</b>	2050 (930)
<b>Installation Dimensions (W x D): in (mm)</b>	354.7 x 480.3 (9009 x 12,200)
<b>Machine Unit Dimensions (W x D x H): in (mm)</b>	116.2 x 408.3 x 88.6 (2951 x 10,371 x 2250)
<b>Machine System Weight: lb (kg)</b>	27,845 (12,630)
<b>Floor Space Req. sq. ft. (m<sup>2</sup>)</b>	1183 (110)
<b>Type</b>	Self contained PC NC
<b>CPU</b>	64-bit
<b>Display screen</b>	15" TFT color LCD touch screen
<b>Hard disk</b>	20.0 GB
<b>Generator output control</b>	Output Power, Frequency, Duty
<b>Generator operation control</b>	Beam ON/OFF, laser gas change, etc.
<b>Drive system</b>	X,Y,Z simultaneous control
<b>Position detection system</b>	Encoder
<b>Min. command unit: in (mm)</b>	0.0001 (0.001)
<b>Program input system</b>	USB, Computer Link, Ethernet LAN