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Fibre Laser Machinery

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# NAMCOR LASER

# *Glossary*

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# About **NAMCOR LASER**

## Mission Statement:

**NAMCOR LASER** is focused on becoming the provider of choice for *Fibre Laser Machinery*. Service, performance and appearance are a reflection of our company's high manufacturing standards.

## Who We Are:

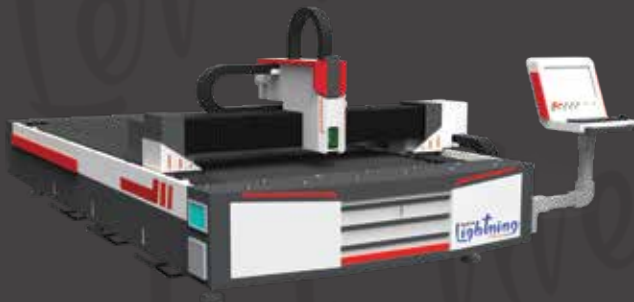
**NAMCOR LASER** is motivated to be the industry leader by striving to meet and surpass the expectations of every client. Through innovation, service and reliability, **NAMCOR LASER'S** goal is to help improve its customers working methods and profitability. **NAMCOR LASER** presents a healthy and unified workplace where each person is encouraged and challenged to be their best. The management promotes the importance of environmental responsibilities, by example, within the workplace and with the products the company manufactures. **NAMCOR LASER** will continue growing profitably by expanding its market base and product lines. The management set goals for yearly projects, which give back to the needs of the communities **NAMCOR LASER** serves. The company embraces and protects business ethics and values with honesty and integrity, guarding the reputation of **NAMCOR LASER** regardless of social/economic outlook or other outside influencers.

## Machinery with a Mission:

**NAMCOR LASER** is committed to giving back a portion of all machinery sales to various charities and organizations around the world. Our core belief is to sow back the blessing into schools, hospitals, crop lands and shelters, to help foster a brighter future for those in need. **NAMCOR LASER** extends a huge heartfelt thank you to all our customers, who are greatly contributing to changing the lives of much deserving people around the globe.

# Metal Plate *Fibre* Laser

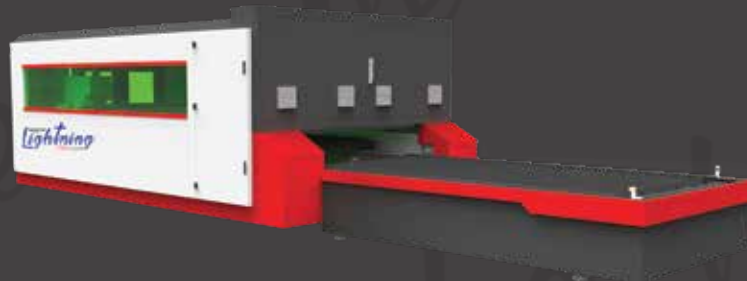
<i>lightning</i> Model	<i>lightning</i> F1515	<i>lightning</i> F1530	<i>lightning</i> F1325	<i>lightning</i> F1545	<i>lightning</i> F1560	<i>lightning</i> F2040	<i>lightning</i> F2060
Laser Type	Fibre Laser						
Laser Wavelength	1070nm						
Beam Quality	<0.373mrad						
Max Laser Power	2000W						
Working Range of X Axis	1500mm	1500mm	1300mm	1500mm	1500mm	2000mm	2000mm
Working Range of Y Axis	1500mm	3000mm	2500mm	4500mm	6000mm	4000mm	6000mm
Working Range of Z Axis	125mm						
Positioning Accuracy	$\leq \pm 0.02\text{mm/m}$						
Repositioning Accuracy	$\leq \pm 0.02\text{mm/m}$						
Cutting Speed	$\leq 40\text{m/min}$ (Depends on Material)						
Drive Mode	Dual Drive						
Servo Motor and Drive	2-Y Axis, 1-X Axis, 1-Z Axis						
Maximum Loading	270kg	530kg	380kg	800kg	1060kg	950kg	1400kg
Rated Parameters of Power Supply	3-Phase AC 380V 50Hz						
Equipment Electric Power	10-20KW						
Total Power Protection Class	IP54						
Electric Oil Pot	Timely Quantitative Automatic Filling						
Acceleration Speed	1G						
Empty Line Speed	100m/min						
Approximate Weight	3200kg	4100kg	3900kg	4800kg	5200kg	6000kg	7000kg
Dimension (LxWxH)	3352x3361x1854mm	4859x3260x1804mm	4358x2963x1787mm	6350x3260x1804mm	7850x3260x1800mm	6000x3800x1852mm	7850x3650x1700mm



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# Cover Exchange *Fibre* Laser

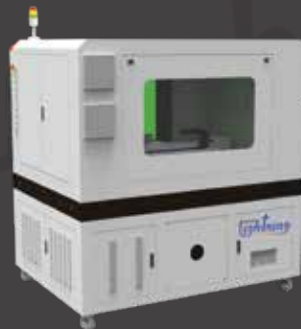
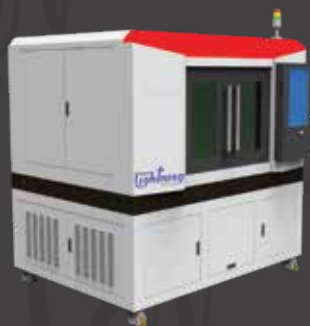
<i>lightning</i> Model	<i>lightning</i> FS1515	<i>lightning</i> FES1530	<i>lightning</i> FES1325	<i>lightning</i> FES1545	<i>lightning</i> FES1560	<i>lightning</i> FES2040	<i>lightning</i> FES2060
Laser Type	Fibre Laser						
Laser Wavelength	1070nm						
Beam Quality	<0.373mrad						
Working Table	Single						
Max Laser Power	2000W	4000W					
Working Range of X Axis	1500mm	1500mm	1300mm	1500mm	1500mm	2000mm	2000mm
Working Range of Y Axis	1500mm						
Working Range of Z Axis	125mm						
Positioning Accuracy	$\leq \pm 0.02\text{mm/m}$						
Repositioning Accuracy	$\leq \pm 0.02\text{mm/m}$						
Cutting Speed	$\leq 40\text{m/min}$ (Depends on Material)						
Drive Mode	Dual Drive						
Servo Motor and Drive	2-Y Axis, 1-X Axis, 1-Z Axi						
Maximum Loading	270kg						
Rated Parameters of Power supply	3-Phase AC 380V 50Hz						
Equipment Electric Power	10-20KW						
Total Power Protection Class	IP54						
Electric Oil Pot	Timely Quantitative Automatic Filling						
Acceleration Speed	1G						
Empty Line Speed	100m/min						
Approximate Weight	3700kg	4600kg	4400kg	5300kg	5700kg	6500kg	7500kg
Dimension (LxWxH)	3384x2817x2278mm	8600x2800x2400mm	8300x2963x2400mm	11600x3260x2400mm	14600x3260x2400mm	11000x3800x2400mm	14600x3650x2400mm



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# Mini Enclosed *Fibre* Laser

<i>lightning</i> Model	<i>lightning</i> FM6060	<i>lightning</i> FL6060
Laser Type	Fibre Laser	
Laser Wavelength	1070nm	
Beam Quality	<0.373mrad	
Max Laser Power	800W	
Working Range of X Axis	600mm	600mm
Working Range of Y Axis	600mm	600mm
Working Range of Z Axis	100mm	
Positioning Accuracy	$\leq \pm 0.02\text{mm/m}$	$\leq \pm 0.01\text{mm/m}$
Repositioning Accuracy	$\leq \pm 0.02\text{mm/m}$	$\leq \pm 0.01\text{mm/m}$
Cutting Speed	$\leq 12\text{m/min}$ (Depends on Material)	
Drive Mode	Dual Drive	
Motor and Drive	Servo Motor: 2-Y Axis, 1-X Axis, 1-Z Axis	Linear Motor: 2-Y Axis, 1-X Axis, 1 Servo Motor-Z Aixs
Maximum Loading	50kg	50kg
Rated Parameters of Power Supply	3-Phase AC 380V 50Hz	
Equipment Electric Power	10-20KW	
Total Power Protection Class	IP54	
Electric Oil Pot	Timely Quantitative Automatic Filling	
Acceleration Speed	0.8G	
Empty Line Speed	40m/min	
Approximate Weight	800kg	
Dimension (LxWxH)	3157x3312x1900mm	



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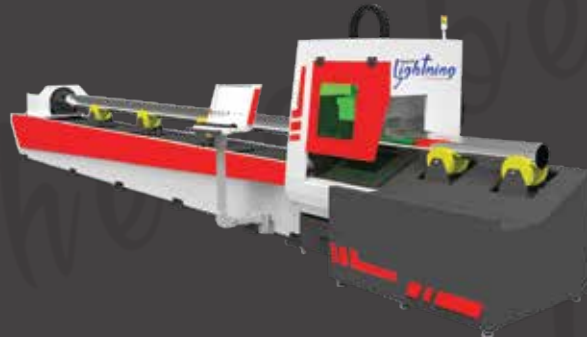
# Dual Cutting *Fibre* Laser

<i>lightning</i> Model	<i>lightning</i> F1515	<i>lightning</i> F1530	<i>lightning</i> F1325	<i>lightning</i> F1545	<i>lightning</i> F1560	<i>lightning</i> F2040	<i>lightning</i> F2060
Laser Type	Fibre Laser						
Laser Wavelength	1070nm						
Beam Quality	<0.373mrad						
Max Laser Power	2000W						
Working Range of X Axis	1500mm	1500mm	1300mm	1500mm	1500mm	2000mm	2000mm
Working Range of Y Axis	1500mm	3000mm	2500mm	4500mm	6000mm	4000mm	6000mm
Working Range of Z Axis	300mm						
Working Length of Tube Cutter	6000mm/3000mm						
Working Range of W Axis	20-200mm						
Motion Method	Manual/Automatic						
Positioning Accuracy	$\leq \pm 0.02\text{mm/m}$						
Repositioning Accuracy	$\leq \pm 0.02\text{mm/m}$						
Cutting Speed	$\leq 40\text{m/min}$ (Depends on Material)						
Drive Mode	Dual Drive						
Servo Motor and Drive	3-Y Axis, 1-X Axis, 1-Z Axis 2-W Axis						
Maximum Loading	270kg	530kg	380kg	800kg	1060kg	950kg	1400kg
Rated Parameters of Power Supply	3-Phase AC 380V 50Hz						
Equipment Electric Power	10-20KW						
Total Power Protection Class	IP54						
Electric Oil Pot	Timely Quantitative Automatic Filling						
Acceleration Speed	1G						
Empty Line Speed	100m/min						
Approximate Weight	4200kg	4900kg	3900kg	4800kg	5200kg	6000kg	7000kg
Dimension (LxWxH) with 3000mm Tube Cutter	5055x4221x1854mm	5055x4500x1804mm	5055x3800x1787mm	6350x4060x1804mm	7850x4120x1800mm	6000x4660x1852mm	7850x4500x1700mm



# Metal Tube & Pipe *Fibre* Laser

<i>lightning</i> model	<i>lightning</i> T3020	<i>lightning</i> T6020
Laser Type	Fibre Laser	
Laser Wavelength	1070nm	
Beam Quality	<0.373mrad	
Max Laser Power	2000W	
Working Range of X Axis	300mm	300mm
Working Range of Y Axis	3000mm	6000mm
Working Range of Z Axis	150mm	
Working Range of W Axis	20-200mm	
Motion Method	Manual/Automatic	
Positioning Accuracy	$\leq \pm 0.02\text{mm/m}$	
Repositioning Accuracy	$\leq \pm 0.02\text{mm/m}$	
Cutting Speed	$\leq 20\text{m/min}$ (Depends on Material)	
Drive Mode	Single Drive	
Servo Motor and Drive	1-Y Axis, 1-X Axis, 1-Z Axis, 2-W Axis	
Maximum Loading	200kg	200kg
Rated Parameters of Power Supply	3-Phase AC 380V 50Hz	
Equipment Electric Power	10-20KW	
Total Power Protection Class	IP54	
Electric Oil Pot	Timely Quantitative Automatic Filling	
Acceleration Speed	0.5G	
Empty Line Speed	30m/min	
Approximate Weight	4200kg	6000kg
Dimension (LxWxH)	7700x2186x1996mm	11000x2186x1996mm



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# Fibre Laser Marking Machine

Parameter/Power supply	20W	30W	50W	70W	100W
Laser Source					
Average Output Power (W)	20	30	50	70	100
Wavelength (nm)	1046				
Repeat Frequency (kHz)	20-60	30-60	50-100	20-100	20-200
Stability of Output Power	<3%				
Diameter of Output Spot (mm)	7±1				
M <sup>2</sup>	<1.5	<1.8			
Pulse Width (ns)	90-120	90-130	90-130	50-130	50-130
Single Pulse Energy (mJ)	1				
Output Fibre Length (m)	2 (Optional: Customized)				
Input Power (VDC)	24				
Power Adjustment Range (%)	10-100				
Power Consumption (W)	170	240	340	400	500
Cooling Way	Air Cooling				
Operating Temperature (°C)	0-40				
Galvanometer					
Maximum Speed (mm/s)	7000				
Frequency (Hz)	≤700				
Repositioning Precision (Rad)	8μ				
F-Theta Lens					
Standard Marking Field (mm)	100x100				
Optional Marking Field (mm)	50x50/70x70/175x175/200x200/300x300 (Not for 20W)				
Minimum Line Width (mm)	0.01				
Minimum Height of Characters (mm)	0.2				
Basic Parameters					
Laser Power Supply	0.5KW/AC220V/50Hz~60Hz (Optional 110V)				
Equipment Size (cm)	84x53x85	80x53x78	90x75x174	72x63x73	81x32x60
Packing Size (cm)	89x65x92	85x58x90	95x77x178	76x68x77	86x36x65
Net Weight (KG)	100	120	180	58	40
Gross Weight (KG)	130	150	223	96	60
2D Working Table (Optional) (cm)	30x22x10				
Diameter of Rotary Axis (Optional) (mm)	50/80				



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# Mopa Color Marking Laser

Parameter/Power Supply	20W		30W		60W
Laser Source					
Type	M1+	M6+	M1+	M6+	LP
Wavelength (nm)	1046				
Frequency Adjustable Range	1-1000kHz	1-2000kHz	1-1000kHz	1-2000kHz	1-400kHz
Stability of Output Power	<3%				
Diameter of Output Spot (mm)	7±1				
M <sup>2</sup>	<1.3				<1.8
Pulse Width (ns)	6-250	1-250	6-250	2-250	200
Single Pulse Energy (mJ)	<0.5				<1.2
Output Fibre Length (m)	2 (Optional: Customized)				3
Frequency Range in Full Power	40-1000kHz	40-2000kHz	60-1000kHz	60-2000kHz	50-400kHz
Power Adjustment Range (%)	10-100				
Cooling Way	Air Cooling				
Operating Temperature (°C)	0-40				
Galvanometer					
Maximum Speed (mm/s)	7000				
Frequency (Hz)	≤700				
Repositioning Precision (Rad)	8μ				
F-Theta Lens					
Standard Marking Field (mm)	100x100				
Optional Marking Field (mm)	50x50/70x70/175x175/200x200/300x300 (Not for 20W)				
Minimum Line Width (mm)	0.01				
Minimum Height of Characters (mm)	0.2				
Basic Parameters					
Laser Power Supply	0.5KW/AC220V/50Hz~60Hz (optional 110V)				
Equipment Size (cm)	84x53x85	80x53x78	90x75x174	72x63x73	81x32x60
Packing Size (cm)	89x65x92	85x58x90	95x77x178	76x68x77	86x36x65
Net Weight (KG)	100	120	180	58	40
Gross Weight (KG)	130	150	223	96	60
2D Working Table (Optional) (cm)	30x22x10				
Diameter of Rotary Axis (Optional) (mm)	50/80				



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C o n t a c t U s



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