NEW · LARGE FORMAT CNC FIBER LASER

PIRANHA LF

LARGE FORMAT CNC FIBER LASER CUTTING MACHINES

Cut full plates and full-length parts in one setup. Eight bed sizes from 10' x 20' to 20' x 40', fiber laser power from 12 to 60 kW, and 40' beds that extend in 20' sections.



10'–20'	100'+	12–60 kW	2,362 IPM
CUTTING WIDTHS	CUTTING LENGTHS WITH EXTENSIONS	FIBER LASER POWER	RAPID TRAVEL (60 M/MIN)

MODELS

MODEL	NOMINAL BED	BED EXTENSION
LF 1020	10' x 20'	—
LF 1040	10' x 40'	20' sections
LF 1320	13' x 20'	—
LF 1340	13' x 40'	20' sections
LF 1620	16' x 20'	—
LF 1640	16' x 40'	20' sections
LF 2020	20' x 20'	—
LF 2040	20' x 40'	20' sections

Every model is available at 12, 20, 30, 40 or 60 kW. Exact effective cutting area is listed on your quote.

CUTTING CAPACITY

POWER	CARBON STEEL	STAINLESS	ALUMINUM
12 kW	**1-3/8"** 35 mm	**1-3/8"** 35 mm	**1-3/16"** 30 mm
20 kW	**2"** 50 mm	**1-3/8"** 35 mm	**1-3/16"** 30 mm
30 kW	**2"** 50 mm	**1-3/8"** 35 mm	**1-3/16"** 30 mm
40 kW	**2"** 50 mm	**2"** 50 mm	**1-9/16"** 40 mm
60 kW	**3-1/8"** 80 mm	**3-1/8"** 80 mm	**2-3/8"** 60 mm

Production cutting thickness with the standard assist-gas setup.

PIRANHA FABRICATION
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PIRANHA

LF LARGE FORMAT CNC FIBER LASER · SPECIFICATION SHEET

TECHNICAL SPECIFICATIONS

Laser power	12, 20, 30, 40 or 60 kW fiber laser resonator
Rapid travel (X/Y)	2,362 IPM (60 m/min)
Maximum acceleration	0.6 G
Positioning accuracy (X/Y)	±0.0006 in/ft (±0.05 mm/m)
Repeatability (X/Y)	0.004 in (0.1 mm)
Z-axis travel	15.0 in (380 mm)
Drive	Helical rack and pinion, servo driven
CNC control	Graphical CNC control with HypCut 8000 software
Cutting head	Piranha cutting head with automatic focus
Power supply	460 V, 3-phase, 60 Hz
Footprint, weight, service sizing	Provided with your quote

STANDARD EQUIPMENT

- ✓ Fiber laser resonator, 12 to 60 kW
- ✓ Piranha cutting head with automatic focus and contamination monitoring
- ✓ Graphical CNC control with HypCut 8000 software, tuned for thick-plate piercing
- ✓ Helical rack and pinion drive system
- ✓ 2,362 IPM (60 m/min) rapid travel
- ✓ Heavy welded, stress-relieved bed frame
- ✓ Zoned downdraft table with small-parts collection
- ✓ TopSinn dust collector for steel and stainless steel
- ✓ Class 1 laser-safe interlocked enclosure with laser-safe viewing windows



Shown with operator console, chiller and TopSinn dust collector.

OPTIONS

MACHINE

3D bevel cutting head · Extra 20' of rail and bed length (40' models) · Consumable starter kit · Air filtration panel · Laminar flow box and stand · Spark arresting system for aluminum

NITROGEN GENERATION

3,000, 4,000, 6,000 or 8,000 SCFH at 99.5% purity, 400 PSI

AIR ASSIST GAS CUTTING

1,800 or 3,000 SCFH at 204 PSI · 6,000, 9,000 or 12,000 SCFH at 400 PSI

DUST COLLECTION

Aluminum-rated collector with explosion vent · Second aluminum-rated collector · HEPA filtration upgrade

SOFTWARE

CypNest nesting software: DWG/DXF import, automatic and manual nesting, common-line cutting, toolpath optimization, production and cost reports

WARRANTY AND SERVICE

2nd-year or 2nd and 3rd-year parts and labor warranty · 1, 2 or 3-year Preventive Maintenance Program with two visits a year

SUPPORT

Installation, operator training, parts, consumables and field service from Piranha in Belvidere, Illinois. Send us your part files for a sample cut before you buy.

REQUEST A QUOTE →

SEND PARTS FOR A SAMPLE CUT

Specifications are subject to change without notice. Cutting thickness depends on material grade, surface condition and assist gas. Nominal bed sizes are rounded; effective cutting area, machine footprint, weight and electrical service requirements are confirmed on your written quote.

REQUEST A QUOTE
piranhafab.com/large-format-fiber-laser

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