LVD® STRIPPIT

Electra FL
FIBER LASER CUTTING SYSTEM

Sheet Metalworking, Our Passion, Your Solution

ELECTRA FL

FAST, FLEXIBLE PROCESSING

LVD's Electra FL fiber laser cutting system is fast and flexible, offering high speed thin sheet processing, low operating cost and the ability to cut a wide range of ferrous and non-ferrous materials.

Increased beam absorption of the solid-state fiber laser light by the material delivers processing speeds up to twice as fast as CO_2 laser source.
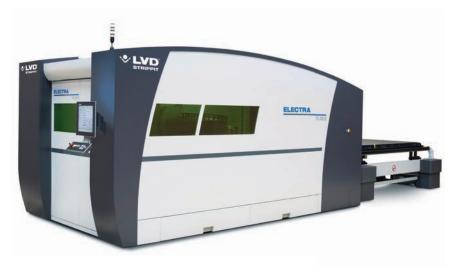
Electra FL is easy to use and operate featuring LVD's touch screen control and user interface, Touch-L. A 19" touch screen and graphical user interface efficiently and effortlessly guide the user through all necessary man-machine interactions. Touch-L also incorporates a part programming and nesting feature to import parts directly to the control, apply cutting technology and nest sheets at the machine.

A compact, modern design, Electra FL maximizes uptime with an integrated shuttle table system or modular automation options which include a compact material warehousing tower (CT-L) inclusive of integrated load/unload system.

KEY FEATURES OF THE ELECTRA FL:

· High speed cutting in thin sheet metals

· Process ferrous and non-ferrous materials

· 30% wall plug efficiency for low operating costs

· Multi kW high efficiency fiber laser source for dynamic processing

· Maintenance–free laser source

· No laser gas required for laser beam generation

· Simple beam path delivery

· Intuitive LVD Touch-L 19" touch screen control system

· Integrated shuttle table system

· Automation compatible

MACHINE SPECIFICATIONS — ELECTRA FL3015

Max. Sheet Size	120" x 60"
X-axis travel	121"
Y-axis travel	61"
Z-axis travel	3.9"
Max. sheet weight on table	1200 lbs.
Table change time	<30 sec.
Combined positioning speed	6692"/min
Repetitive accuracy	+/- 0.0008"
Positioning accuracy	+/- 0.002"

LASER

Type Rofin Sinar	FL020 Fiber Laser
Laser Power	2000 W (optional 3000/4000W)
Range	100-2000W
Power Stability	+/- 2%
Wave length	1µm
Pulse Frequency	CW 2-5000Hz
Cooling Water	Sealed circuit

MATERIAL CAPACITIES – WITH FL020

Steel	1/2"
Stainless steel	1/4"
Aluminum	1/4"
Brass	1/8"
Copper	1/8"

GENERAL SPECIFICATIONS (For stand alone machines)

Machine dimensions (including lightguards, filter and chiller)	
L	36'
W	20'
H	8'
Weight	approx. 33,000 lbs.

ELECTRA WITH COMPACT TOWER CT-L

Max. sheet dimensions (mm)	120" x 60" x 3/4"
Min. sheet dimensions (mm)	39" x 39"
Max. weight on each pallet	6000 lbs.
Max. height on each pallet	9" including wooden pallet
Footprint (L x W)	36' x 25'
Height of CT-L unit	
4-pallet	14'
6-pallet	17'
10-pallet	22'

Subject to change without prior notice.

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