



Electra FL

FIBER LASER CUTTING SYSTEM

www.lvdgroup.com

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 a CO₂ 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

Max. Sheet Size	3050 x 1525 mm
X-axis travel	3080 mm
Y-axis travel	1555 mm
Z-axis travel	100mm
Max. sheet weight on table	550 Kg
Table change time	<30 sec.
Combined positioning speed	170 m/min
Repetitive accuracy	+/- 0.025 mm
Positioning accuracy	+/- 0.050 mm

ELECTRA FL3015

LASER

Type	Rofin Sinar FLO20 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 FLO20

Steel	12 mm
Stainless steel	6 mm
Aluminium	6 mm
Brass	4 mm
Copper	3 mm

GENERAL SPECIFICATIONS (For stand alone machines)

Machine dimensions (excluding lightguards, filter and chiller)	
L	9200 mm
W	3090 mm
H	2250 mm
Weight	approx. 15.000 kg

ELECTRA WITH COMPACT TOWER CT-L

Max. sheet dimensions (mm)	3050 x 1525 x 15
Min. sheet dimensions (mm)	1000 x 1000
Max. weight on each pallet	3000 kg
Max. height on each pallet	240 mm including wooden pallet
Footprint (L x W)	9600 mm x 7700 mm
Height of CT-L unit	
4-pallet	4100 mm
6-pallet	4940 mm
10-pallet	6620 mm

Subject to change without prior notice.

LVD Company nv, Nijverheidslaan 2, B-8560 GULLEGEM, BELGIUM
Tel. + 32 56 43 05 11 · Fax + 32 56 43 25 00 · e-mail: marketing@lvd.be

For full address details of your local subsidiary or agent, please visit our website: www.lvdgroup.com

