

Fiber laser  
cutting machine

# LYNX FL

COST-EFFICIENT LASER PROCESSING



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# LYNX FL

## COST-EFFICIENT LASER PROCESSING

The Lynx FL combines excellent cut quality with flexibility, processing a wide variety of materials and thicknesses. The system is not only cost-competitive but also extremely reliable and fast.



### ROBUST DESIGN

Machine frame, gantry and all critical parts are machined by LVD to meet strict quality standards.

### CUTTING HEAD

A Precitec cutting head ensures excellent cutting quality in 2, 3 and 4 kW.



### INTUITIVE CONTROL

Touch-L maximises the power of the CNC control with the speed and simplicity of LVD's graphical user interface.



### INTEGRATED CONTROL AND DRIVE SYSTEM

The Siemens 840D sl CNC control, Siemens servo-drives and inclined rack and pinion drive system guarantee the highest precision of programmed contours even at fast processing speeds.





Lynx FL-4020

## AUTOMATIC SHUTTLE TABLES



The Lynx is equipped as standard with an automatic pallet changer. While a sheet is being processed, cut parts can be unloaded and a new sheet loaded, maximising uptime.



## LASER SOURCE



The Lynx utilises an IPG fiber laser source. IPG Photonics is the world's leading provider of fiber laser sources. They feature compact size, long diode life and virtually maintenance-free operation.

LYNX FL

# HIGHLIGHTS

## CUTTING HEAD

Lynx 2 kW features a Precitec LightCutter (a) with manual focus. Lynx 3 and 4 kW are equipped with an intelligent ProCutter (b) that offers automatic focal adjustment. Both cutting heads feature a 200 mm focusing lens and crash protection.



## MAJOR BRAND COMPONENTS

Lynx features trusted brand components such as an IPG fiber laser source, a Precitec cutting head and a Siemens integrated control and drive package, to deliver top performance and reliability.

## OPTIMAL COST PER PART

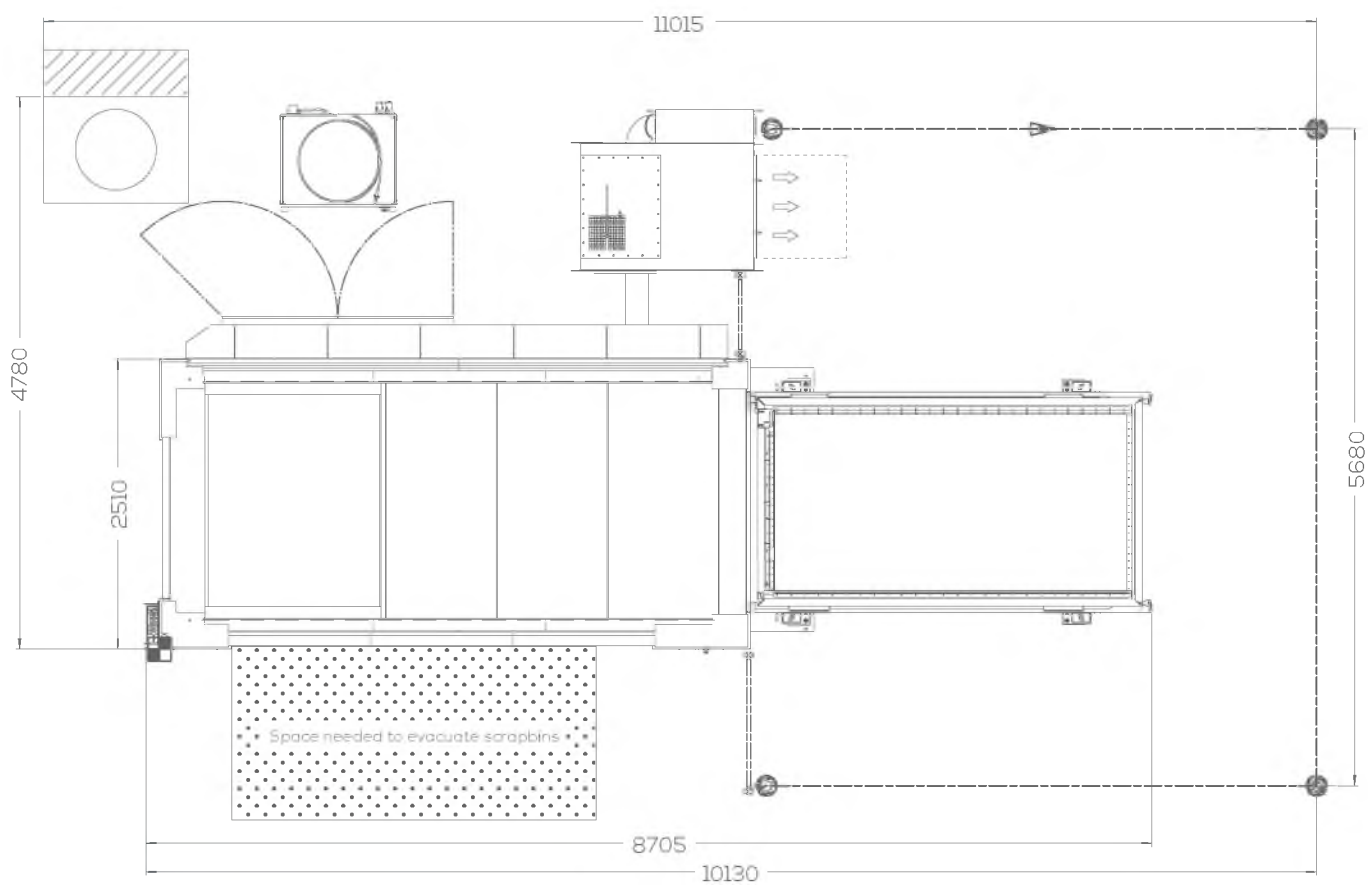
LVD has carefully balanced the technical specifications of the machine with the machine's price point to ensure optimal cost per part.



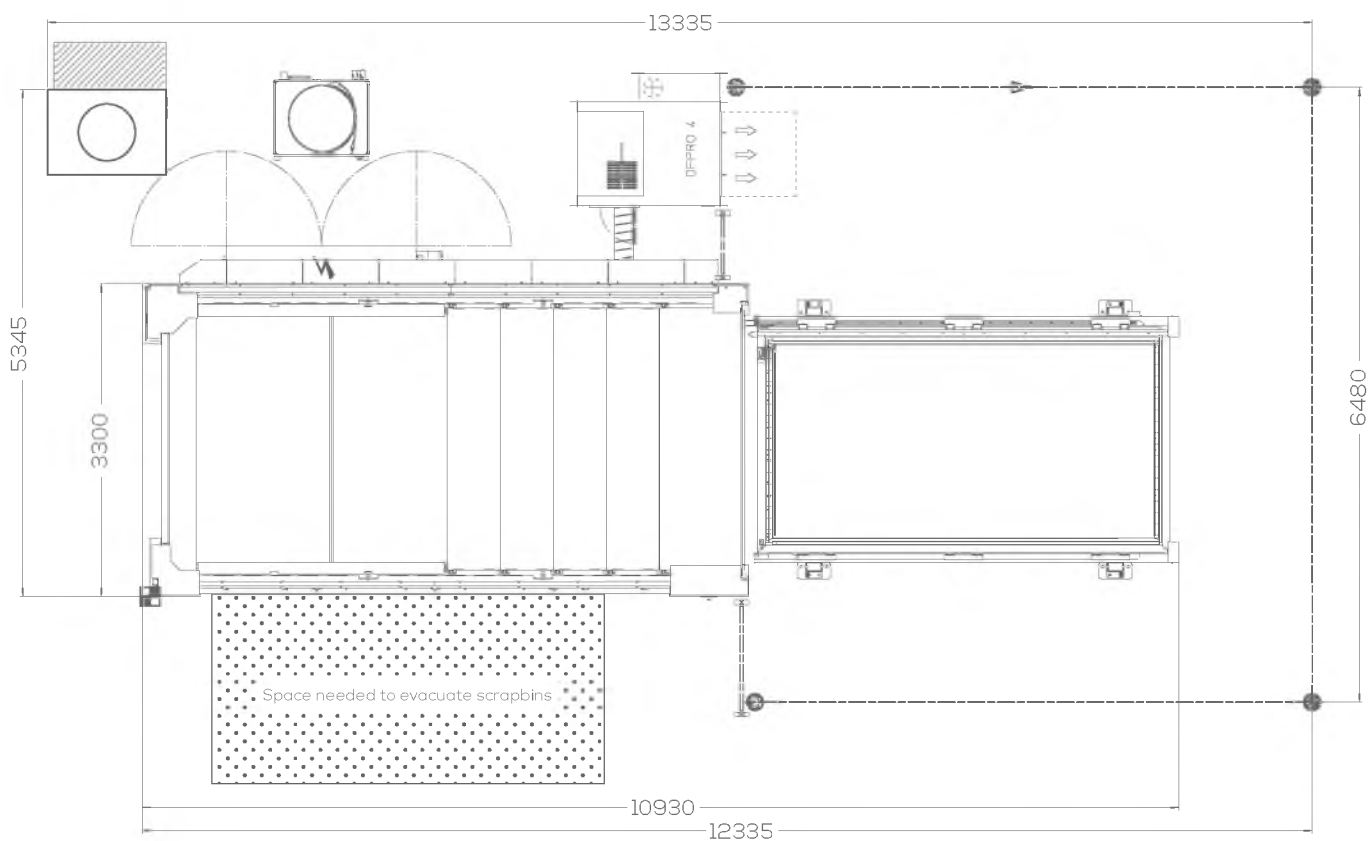
## INTUITIVE CONTROL

The 15" touch screen control Touch-L allows fast and uncomplicated setup and conveniently displays cutting technology and nestings. Drawings can be imported directly into the control.

## LYNX FL-3015



## LYNX FL-4020



# SPECIFICATIONS

## LYNX FL

MACHINE SPECIFICATIONS	LYNX FL-3015	LYNX FL-4020
Max. sheet size	3050 x 1525 mm	4065 x 2035 mm
X-axis travel	3070 mm	4085 mm
Y-axis travel	1560 mm	2055 mm
Z-axis travel upper table	80 mm	95 mm
lower table	240 mm	270 mm
Max. sheet weight on table	750 kg	950 kg
Table changeover time	26 sec.	35 sec.
Maximum positioning speed X-Y	120 m/min	120 m/min
Repetitive accuracy	+/- 0,025 mm	+/- 0,025 mm
Positioning accuracy*	+/- 0,050 mm	+/-0,050 mm

### MACHINE DIMENSIONS

Length x width	11015 x 5680 mm	13335 x 6480
Height	2500 mm	2500 mm
Approximate weight	11000 kg	16000 kg

### LASER SPECIFICATIONS

Type	IPG YLS		
Maximum cutting performance	2 kW	3 kW	4 kW
Mild steel	12 mm	15 mm	20 mm
Stainless steel	6 mm	12 mm	12 mm
Aluminium	8 mm	12 mm	15 mm
Copper	4 mm	6 mm	8 mm
Brass	4 mm	6 mm	8 mm
Cutting head	Precitec LightCutter	Precitec ProCutter	Precitec ProCutter



Stainless steel



Aluminium



Copper



Steel

Specifications subject to change without prior notice.

\* Achievable workpiece accuracy depends on the type of workpiece, pre-treatment and sheet size, as well as other variables. According to VDI/DGQ 3441.

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