

*Fiber laser  
cutting  
machines*

# PHOENIX FL 4020, 6020

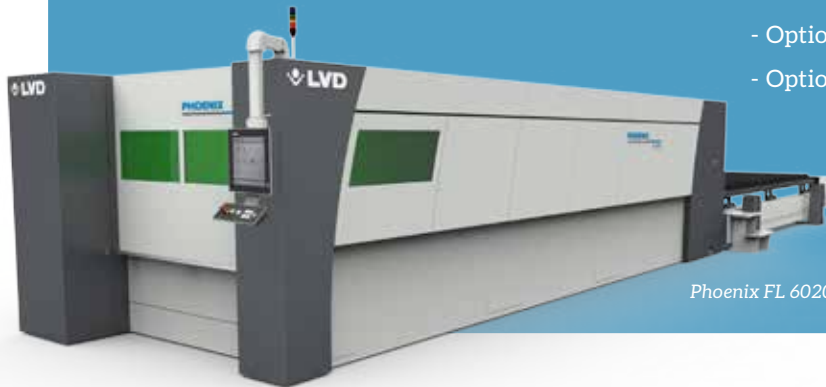
VERSATILE, HIGH-DYNAMIC PROCESSING



# Key features

Phoenix FL 4020 and 6020 machines expand the Phoenix fiber laser series, offering fast, economical all-round performance even in 4x2m and 6x2m sheets. The latest cutting head technology makes the Phoenix FL machines highly versatile - able to cut thin to thick sheets in standard steels and non-ferrous materials with high productivity and excellent cut quality.

- High-dynamic processing in 4000 x 2000 mm and 6000 x 2000 mm formats
- Advanced cutting head features automated adjustment of focus position and focus diameter (zoom focus)
- Integrated automatic shuttle table system allows one table to be loaded while the machine is cutting on the other table
- Standard scrap conveyor
- Intuitively easy-to-use TOUCH-L interface and touch-screen control
- Choice of 3, 4 or 6 kW laser source
- Optional 10-station automatic nozzle changer
- Optional CADMAN-L programming software



Phoenix FL 6020

## MACHINE SPECIFICATIONS

	Phoenix FL 4020	Phoenix FL 6020
Maximum sheet size	4065 x 2035 mm	6100 x 2035 mm
X-axis travel	4200 mm	6235 mm
Y-axis travel	2070 mm	2070 mm
Z-axis travel	130 mm	130 mm
Maximum sheet weight on table	1600 kg	2400 kg
Table changeover time	40 sec.	50 sec.
Maximum positioning speed X - Y	140 m/min.	140 m/min.
Maximum positioning speed Z	30 m/min.	30 m/min.
Repetitive accuracy	± 0.025 mm	± 0.025 mm
Positioning accuracy*	± 0.050 mm	± 0.050 mm
Nozzle changer	optional	optional

## MACHINE DIMENSIONS (including light guards but excluding filter and chiller)

	Phoenix FL 4020	Phoenix FL 6020
Length	13000 mm	17200 mm
Width	6300 mm	6300 mm
Height (access door closed)	2550 mm	2550 mm
Approximate weight	18000 kg	21000 kg

## LASER SPECIFICATIONS

	Phoenix FL 4020	Phoenix FL 6020
Type	IPG YLS	IPG YLS
Laser power	3 kW - 4 kW - 6 kW	3 kW - 4 kW - 6 kW
Power stability	± 2 %	± 2 %
Wave length	1 µm	1 µm

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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