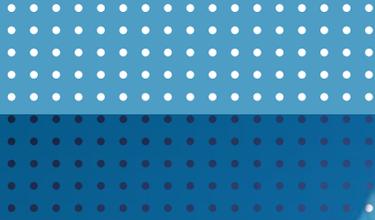


*Fiber laser
cutting
machines*



PHOENIX FL 4020, 6020

VERSATILE, HIGH-DYNAMIC PROCESSING

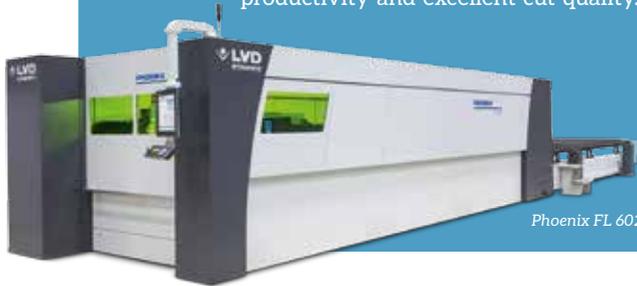


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STRIPPIT

Key features

Phoenix FL 4020 and 6020 machines expand the Phoenix fiber laser series, offering fast, economical all-round performance even in 160" x 80" and 240" x 80" 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.



Phoenix FL 6020

- High-dynamic processing in 160" x 80" and 240" x 80" 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 touchscreen control
- Choice of 4, 6 or 8 kW laser source
- Optional 10-station automatic nozzle changer
- Optional CADMAN-L programming software

MACHINE SPECIFICATIONS	Phoenix FL 4020	Phoenix FL 6020
Maximum sheet size	160" x 80" (4065 x 2035 mm)	240" x 80" (6100 x 2035 mm)
X-axis travel	165" (4200 mm)	245" (6235 mm)
Y-axis travel	81" (2070 mm)	81" (2070 mm)
Z-axis travel	5.11" (130 mm)	5.11" (130 mm)
Maximum sheet weight on table	3527 lbs. (1600 kg)	5291 lbs. (2400 kg)
Table changeover time	42 sec.	52 sec.
Maximum positioning speed X - Y	5,511"/min (140 m/min.)	5,511"/min (140 m/min.)
Maximum positioning speed Z	30 m/min.	30 m/min.
Repetitive accuracy	± 0.001" (0.025 mm)	± 0.001" (0.025 mm)
Positioning accuracy*	± 0.002" (0.050 mm)	± 0.002" (0.050 mm)
Nozzle changer	optional	optional

MACHINE DIMENSIONS (including light guards but excluding filter and chiller)	Phoenix FL 4020	Phoenix FL 6020
Length	42 ft (13000 mm)	56 ft (17200 mm)
Width	20 ft (6300 mm)	20 ft (6300 mm)
Height (access door closed)	8.3 ft (2550 mm)	8.3 ft (2550 mm)
Approximate weight	Approximately 39,700 lbs (18000 kg)	Approximately 46,300 lbs (21000 kg)

LASER SPECIFICATIONS	Phoenix FL 4020	Phoenix FL 6020
Type	IPG YLS	IPG YLS
Laser power	4 kW - 6 kW - 8 kW	4 kW - 6 kW - 8 kW
Power stability	± 2 %	± 2 %
Wave length	1 µm	1 µm

MATERIAL CAPACITIES	4 kW	6 kW	8 kW
Mild steel	3/4" (20 mm)	1.0" (25 mm)	1.0" (25 mm)
Stainless steel	5/8" (15 mm)	1.0" (25 mm)	1.0" (25 mm)
Aluminum	1/2" (12 mm)	1.25" (30 mm)	1.25" (30 mm)
Brass	1/4" (6 mm)	5/16" (8 mm)	1/2" (12 mm)
Copper	1/4" (6 mm)	5/16" (8 mm)	1/2" (12 mm)

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