

*Fiber laser  
cutting  
machines*

# PHOENIX FL 4020-6020

VERSATILE, HIGH-DYNAMIC PROCESSING



# Key features

- High-dynamic processing
- Advanced cutting head features  
automated adjustment of focus position and focus diameter (zoom focus)
- Integrated automatic shuttle table system
- Standard scrap conveyor
- Easy-to-use Touch-L touchscreen control
- Choice of 4, 6, 8 or 10 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	42 sec.	52 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

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

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 4020 and 6020

Type	IPG YLS			
Laser power	4 kW	6 kW	8 kW	10 kW
Maximum cutting performance				
Mild steel	20 mm	25 mm	25 mm	25 mm
Stainless steel	15 mm	25 mm	25 mm	25 mm
Aluminium	15 mm	30 mm	30 mm	30 mm
Copper	8 mm	12 mm	12 mm	12 mm
Brass	8 mm	12 mm	12 mm	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

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