

P3 + 6kW MAX

1500x3000 mm (5'x10')

Hi-Performance fiber laser cutting machine



Standard Configuration

- 21" touchscreen control
- Wireless remote control pendant
- Automatic collision avoidance
- Precitec auto-focus cutting head
- Shuttle tables (10 seconds)
- Cast iron bed
- Automatic gas adjustment
- Automatic nozzle change

Features

- 5x10' Shuttle table
- 6kW Max fiber laser
- 460'/min 2.5 G acceleration
- Cuts 1/4" mild or 5/8" stainless with just air!
- Cuts up to 1" mild or stainless
- Low cost per foot

The fiber laser cutting systems known **P Series**, feature a complete enclosure of the cutting envelope, which isolates laser radiation and pollution offering higher safety levels. Smoke and dust produced during cutting is automatically collected to ensure a clean operating area.

These machines also feature an intelligent anti-collision system. This 360° radar system can detect any obstacles in advance and Z axis high-speed motion will be activated to immediately avoid obstacles, avoiding collisions. This function reduces the damage rate of the laser head, and accordingly reduces maintenance cost and prolongs the service life of the machine.

Specifications

Working Area	1500x1500 mm (5x10')
Laser Power	6kW
Base Construction	Cast Iron
Positioning Accuracy	0.03 mm (0.001")
Repeatability	0.02 mm (0.0008")
Indexing Speed	140m/min (460'/min)
Max Acceleration	2.5 G
Z-Axis Travel	315 mm (12.4")
Table Load Capacity	1400 kg (3080 lbs)
Shuttle Table Exchange	10 s
Laser Head	Precitec
Dimensions	9950x3050x2300 mm (392x120x91")
Weight	8300 kg (18,260 lbs)

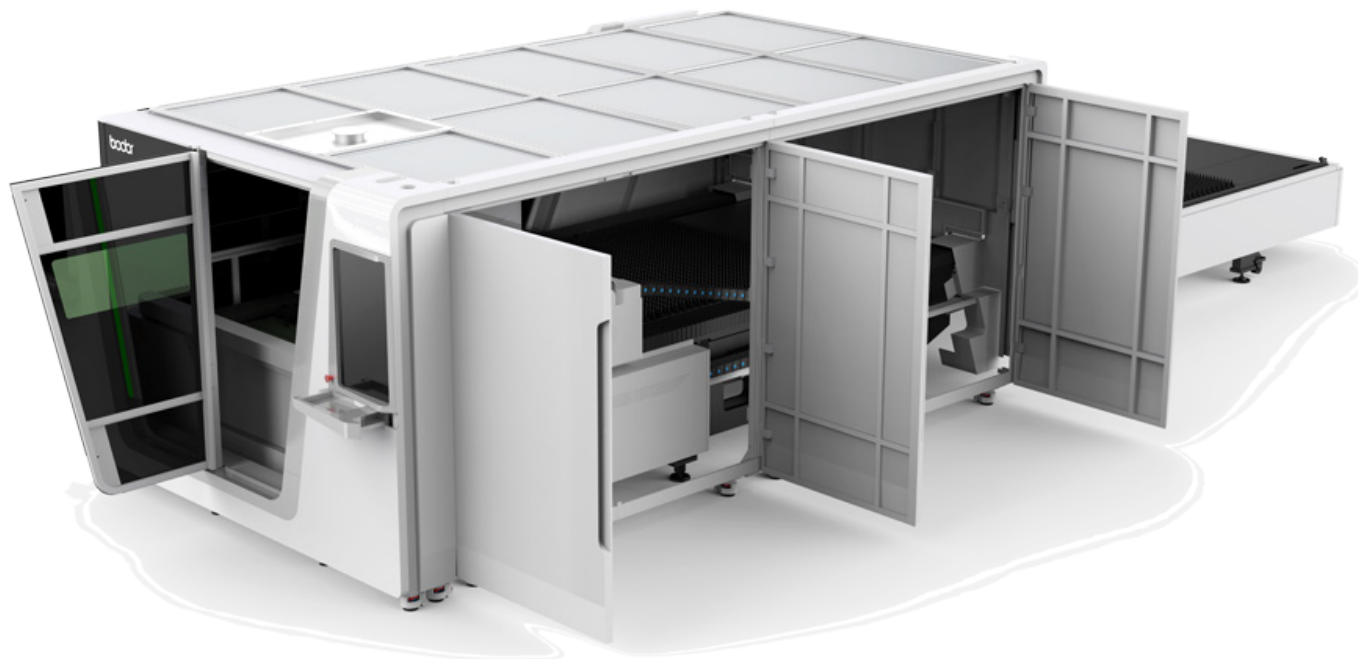
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P3 + 6 kW MAX Cutting Speeds

Thickness		20 Ga	14 Ga	11 Ga	3/16"	1/4"	3/8"	1/2"	5/8"	3/4"	1"
Speed Feet per Minute	Carbon Steel	140 - 170	65 - 80	30 - 50	16 - 26	8 - 14	5 - 8	4 - 7	2 - 5	1 - 4	0.5 - 1.5
	Stainless Steel	140 - 170	70 - 125	50 - 70	25 - 40	15 - 30	4 - 8	2.5 - 5	1.5 - 3.25	1 - 2	
	Aluminum	140 - 180	65 - 130	50 - 80	15 - 25	12 - 16	3 - 5	2.5 - 4	1.5-2.5		
	Brass	115 - 150	65 - 100	40 - 60	15 - 20	5 - 7	2.5 - 4	0.5 - 1.25			

P3 + 6kW MAX Cost per Foot

Thickness	20 Ga	14 Ga	11 Ga	3/16"	1/4"	1/2"	3/4"
Carbon steel Q235A	\$0.004	\$0.008	\$0.011	\$0.021	\$0.039	\$0.094	\$0.165
Stainless steel 304	\$0.004	\$0.005	\$0.09	\$0.017	\$0.022	\$0.083	\$0.33
Aluminum	\$0.004	\$0.005	\$0.008	\$0.026	\$0.041	\$0.33	



KAAST Machine Tools Inc.

www.KAAST-USA.com

610-441-7317

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Hi-Performance fiber laser cutting machine



- **Full Protective Cover**

Isolates and protects from laser energy radiation



- **Automatic Nozzle Replace, Clean, Calibrate**

Matched to materials and thicknesses



- **Cast Iron Bed**

Flake graphite with a tensile strength of 200MPa provides strong shock absorption and wear resistance



- **Cast Aluminum Crossbeam**

Aviation level material with enhanced rigidity, greatly reduces beam deformation during high speed operations and improves directional sensitivity and processing efficiency



- **Schneider Electrical Components**

- **Yaskawa Driver and Motor**

Well known, reliable, readily available



- **Fast Exchange Table**

Rack and gearwheel transmission system has better rigidity and higher accuracy, saving feeding time and increasing efficiency.



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