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ATK LASERS

Indian Laser & CNC Machines Manufacturer



HIGH POWER FIBER LASER CUTTING MACHINE



Features

1. Type: ATK-300W to 6 KW, Fiber Laser Metal Cutting System
2. Structure: gantry, double drive
3. Light alloy beam (Y axis) to provide High dynamic performance. The optical path changes while the sheet remains still, thus the processing efficiency is high.
4. X Y axis adopts High Quality gear and rack, reduction gear, ensuring life and precision for a long time.
5. The system is equipped with section dust collector to improve the working environment. The area beneath the cutting table is divided into several sections. During the cutting process, only the ducts directly beneath the cutting head are open for fume extraction. The ducts in the other sections remain closed to improve dust collection.
6. Made In Germany Controller, Servo Motor. All motors are with Absolute Encoder.
7. Equipped with 1000 Watt Fiber Laser. Wall-plug efficiency is 30% or higher and no need of gas. The efficiency of cutting within 3 mm thickness is 80% higher than that of CO2 Laser. The comprehensive cost is much lower. The transmission of the laser beam depends on the fiber without any mirror. The Laser structure is small and compact with high reliability.

Indian Laser & CNC Machines Manufacturer

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LASER ENGRAVING & CUTTING MACHINE



CCD vision
recognized
system

Features & Technical Specifications

- 1.Type: CO₂ Laser Engraving & Cutting System
- 2.Structure: Precision belt drive system.
- 3.X-Y optical path system ensures consistency in cutting.
- 4.Aluminum strips working table has wide applicable working options and field can engrave all kinds of non-metallic materials within working area. (optional honeycomb available on demand)
- 5.Smart curve controller with USB2.0 high speed interface, safer and faster data transmission

Model No	ATK - 1590	ATK - 1212	ATK - 1290	ATK - 6090	ATK- 6040
Laser Type				Co2 DC Glass laser Tube	
Laser Power				60/80/100/130 Watt	
Wave Length				10.6 um	
Supply Voltage				AC 220v ± 10%	
Reposition Accuracy				± 0.05mm	
Cutting Speed				0 ~ 30000mm/min	
Engraving Speed				0~64000mm/min	
Cooling Method				Water Cooled	
Work Environment				Temp:0 c ~ 45 c. Humidity:5% ~ 95%	
Acceleration Speed				1 G	
Working Area	1500 x 900mm	1200 x 1200mm	1200 x 900mm	600 x 900mm	600 x 400mm
Graphic File Support	PLT, CDR, AI, DWG, DXF, DST, BMP, JPEG, TIFF, GIF, PCX, etc.				



ATK LASERS

CNC ROUTER

MODEL: ATK-1325

Features

- 1) Excellent speed, efficiency, high precision CNC engraver router machine built in X, Y Axis drive system rack and pinion with square linear rails achieving high positioning, motion accuracy & longer life.
- 2) Working Table with aluminum T-slot and PVC sheet for protection of worktable which ensures for longer life.
- 3) Optional 1.5 KW / 2.2 KW / 3.5 KW / 4.5 KW / 5.5 KW / 7 KW / 9 KW / 12 KW spindles of various power.
- 4) Handheld DSP controller to set job parameter, and download from computer via USB cable and USB key also.
- 5) Original Indian spindle longer life and guaranteed performance.
- 6) High precision planetary servo gearbox.
- 7) High torque step easy servo motors.
- 8) The **ATK Lasers** make wide range of CNC router having the longer durability due to strongly welded steel structure and the rapid and high quality working capability that is the cause for the improvement in the productivity.
- 9) Industrial Chiller with easy maintenance
- 10) Offers customized service and economical cuttings

Technical Specifications

Model No	ATK - 6090	ATK - 1212	ATK - 1325	ATK - 1530
X, Y Z Working Area	600 x 900 x 120 mm	1200 x 1200 x 120 mm	1300 x 1300 x 200 mm	1500 x 1300 x 200 mm
Table Structure	T - Slot Table / Water Bed / Vacuum Bed			
Transmission System	: X & Y Gear Racks, Z Ball Screw			
Lead Linear System	X,Y,Z : Linear square guide rails			
Spindle Power	1.5 KW / 2.2 KW / 3.5 KW / 4.5 KW / 5.5 KW / 7 KW / 9 KW / 12 KW			
Spindle Speed	0-18000 rpm		0-24000 rpm	
Cooling Type	Water Cooled / Air cooled / ATC			
Max. Consume Power	3.0 KW	4.0 KW	6.5 KW	
Drive System	Stepper / Servo			
Control System	DSP (USB), NC Studio, close loop CNC			
Max. Rapid	Up to 25 m / min			
Compatible Line Formats	G code, *.u00, *.mmg, *.plt			
Working Voltage	AC 230V 50 Hz 1 PH / AC 415V 50 Hz 3PH			
Optional	Rotary attachment / Automatic Tool Changer / Dust Collector			
X, Y Working Accuracy	0.05 mm			
Inverter	Delta / Dorna / snider / Yaskawa / L&T			
Packaging Size	1780x1180x1670mm	1920x1830x1680mm	3200x2200x1780mm	3700x2500x1850mm
Gross Weight	250 KG	800 KG	1000 KG	1500 KG



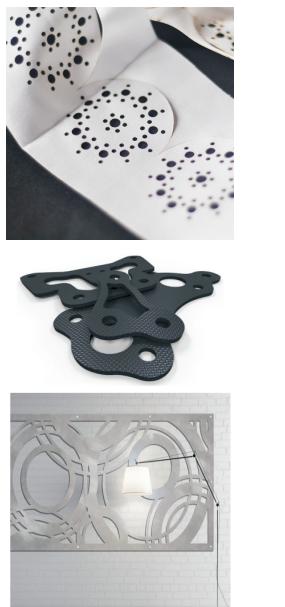
LASER
CUTTING MACHINE
MODEL: ATK-1325

Metal
&
Non Metal

Features & Technical Specifications

1. **Type:** CO₂ Laser engraving & Cutting
2. **Structure:** Gantry type structure
3. High precision rack pinion & servo system.
4. Hiwin / THK linear guide rail.
5. X-Y optical path system ensures consistency in cutting.
6. Aluminum strips working table has wide applicable working options and field can engrave all kinds of non-metallic materials within working area. (optional honeycomb available on demand & Spools)
7. Smart curve controller with USB2.0 high speed interface, safer and faster data transmission.
8. Offers customized service & economical cutting
9. Servo motor and servo drive system technology
10. Red beam pointer & Twin zone exhaust system

Model No	1313	1325	1530
Laser Type	CO ₂ DC Glass laser tube		
Laser Power	130Watt (150 / 180watt Laser Tube Optional)		
Laser Head	Double Head & Multi Head		
Working Table	Fixed Knife Steel Blades		
Working Speed	Adjustable		
Positioning Accuracy	± 0.1mm		
Moving System	Servo motor system		
Cooling System	Constant temperature water chiller		
Power Supply	AC220V+ 5% 50/60Hz		
Format Supported	.AI, .BMP, .PLT, .DXF, .DST etc.		
Standard Dust Collector	4 Sets of Bottom Exhaust Fans 10EC		
Optional	CO ₂ RF Metal laser tube (80w/100w/150w/200w), Honey Comb, Auto Feeding System for Textile Application and Conveyor Moving Table.		



FIBER LASER
MARKING MACHINE

- Laser Marking process is clean and safe process-chemical - proof , water proof, oil, grease and fuel proof
- No pre or post processing - Laser marking can be done on finished product
- Laser marking in international accepted as quality marking standard
- Visible 'pilot' Beam shows the laser marking location for fast accurate setup
- Laser marking helps significantly in cutting operating cost by reducing labor cost, tool cost consumables cost, set up time rejection cycle time
- one of the prime advantage of laser marking is that it can be automated and can be integrated with any online process

Technical Specifications @ Applications

Working Area	70 X 70 mm, 110 x 110 mm, 156 x 156 mm
Laser Power	10W to 70W
Laser Repetition Frequency	25 Khz - 400 KHz
Laser Wave Length	1064 +/- 10nm
Beam Quality M2	< 2
Marking Speed	< 8000 mm / s
Mini line width	0.01 mm
Mini Character	0.15 mm
Marking Depth	<0.4 mm
Repeat Precision	0.002 mm
Laser Module life	100000 h
Cooling Type	Air Cooling
Power Supply	AC 220V, 50-60 Hz
Gross Power	< 500 W
Working Temperature	0- 45°C
Working Humidity	5-75 %

