

Laser Systems



We think Laser



For Material Processing

Fiber Laser Cutting machine for Metal mainly

Our Models:

Model No.	area		Power
	mm	feet	Watt
BATEC FIB 0640-500	600/400	3/2	500
BATEC FIB 0640-750	600/400	3/2	750
BATEC FIB 1390-500	1300/900	4/3	500
BATEC FIB 1390-750	1300/900	4/3	750

- *Switzerland Raytools laser head*
- *Japan Panasonic servo motor*
- *Taiwan TBI ball screw drive*
- *Japan SMC /Airtac pneumatic parts*
- *French Schneider electronic parts*
- *Laser head automatically adjust system*
- *Cypcut operation system*
- *Smoke exhaust system*
- *Water cooling machine*
- *One year warranty*



Fiber Laser Cutting machine for Metal mainly

Our Models:

Model No.	area		Power
	mm	feet	Watt
BATEC FIB 3015E-500	3000/1500	10/5	500
BATEC FIB 3015E-750	3000/1500	10/5	750
BATEC FIB 3015E-1000	3000/1500	10/5	1000

Model No.	area		Power
	mm	feet	Watt
BATEC FIB 3015LN-500	3000/1500	10/5	500
BATEC FIB 3015LN-750	3000/1500	10/5	750
BATEC FIB 3015LN-1000	3000/1500	10/5	1000
BATEC FIB 3015LN-1500	3000/1500	10/5	1500



- *Raycus or IPG laser source*
- *AU3TECH operation system*
- *AU3TECH laser head*
- *Taiwan APEX rack pinion*
- *Taiwan HIWIN square rail*
- *Laser head automatically adjust system.*
- *Smoke purify system*
- *Water cooling machine*
- *Taiwan DELTA servo motor and driver*



Fiber Laser Cutting machine for Metal mainly

Our Models:

Model No.	area		Power Watt
	mm	feet	
BATEC FIB 3015CN-500	3000/1500	10/5	500
BATEC FIB 3015CN-750	3000/1500	10/5	750
BATEC FIB 3015CN-1000	3000/1500	10/5	1000
BATEC FIB 3015CN-1500	3000/1500	10/5	1500
BATEC FIB 3015CN-2000	3000/1500	10/5	2000
BATEC FIB 3015CN-3000	3000/1500	10/5	3000

Switzerland Raytools laser head

**France Motovario motor reducer*

**Japan YASKAWA servo motor 850w*

**Taiwan APEX gear rack*

**Japan SMC/Airtac pneumatic parts*

**French Schneider electronic parts*

**Automatic lubrication system.*

**Integrated cast aluminum beam*

**Taiwan HIWIN square rail*

**Laser head automatically adjust system.*

**Cypcut operation system*

**Smoke purify system*

**Water cooling machine*

**One year warranty*



Fiber Laser Tube Cutting machine for Metal mainly

Our Models:

Model No.	area		Power
	mm	feet	
BATEC FIB 60M-500	3000/1500	10/5	500
BATEC FIB 60M-750	3000/1501	10/5	750
BATEC FIB 60M-1000	3000/1502	10/5	1000

- *Switzerland Raytools laser head*
- *6m full automatically chuck*
- *cutting diameter 20mm-220mm*
- *Japan YASKAWA servo motor*
- *German ATALANTA gear rack*
- *Japan SMC/Taiwan Airtac pneumatic parts*
- *French Schneider electronic parts*
- *Automatic lubrication system*
- *Integrated cast aluminum beam*
- *Taiwan HIWIN square rail*
- *Laser head automatically adjust system.*
- *Cypcut operation system*
- *Smoke purify system*
- *Water cooling machine*
- *One year warranty*



Fiber Laser Cutting machine



Technical Parameter	
Machine model	BATEC FIB 6025-2000
Laser source	2KW Raycus fiber laser source
Control system	Shanghai Cypcut system
Working size	X,Y 2500x6000mm
Cutting head	Worthing laser head
Driver and motor XX	X axis 1800W motor and driver
Driver and motor YY	Y axis double sets 850W Yaskawa servo driver and motor
Driver and motor for Z Z	for Z Z axis 400W Panasonic driver and motor
Reducer	France MOTOVARIO
Reducer ratio	5:1
Rack and pinion	German Atlanta
X,Y,Z guide rail	Taiwan Hiwin guide rail
Water cooling system	TONGFEI water chiller (double temperature control)
Electricals	Schneider
Support software	DXF , PLT ,AI , LXD , Gerber ,NC , G. code
Repeat positioning	accuracy $\pm 0.02\text{mm}$
Maximum speed	120m/min
Maximum Acceleration	1.5G
Focus lens	125mm
Power supply	380V 50HZ /60HZ 3PH
Total power	20.1kw
Application material	Stainless steel , carbon steel ,galvanized sheet ,brass ,aluminum , silver ,mild steel , silicon steel , titanium alloy etc .

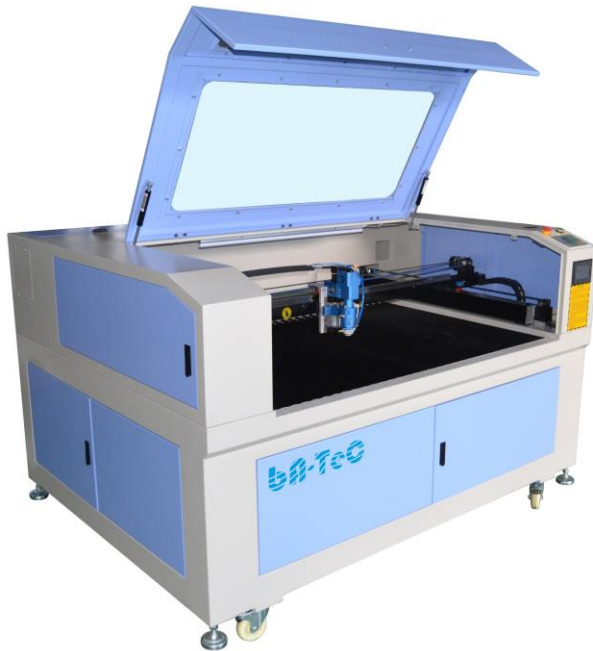
Fiber Laser Cutting machine

Cutting Speed for different Material								
	Thickness	500 W	750 W	1000 W	1200 W	1500 W	2000 W	3000 W
	mm	Cutting speed m/min						
Carbon Steel (CO ₂)	1	10	12	15	18	20	25	30
	2	5	6	7	8	10	12	18
	3	2	3	3.5	4	4.5	5	6
	4	1.5	1.8	2	2.5	3	3.5	4
	5	1	1.5	1.8	2	2.5	3	3.5
	6	0.6	1	1.5	1.5	2	2.5	3
	8		0.6	1	1.2	1.5	1.8	2
	10			0.6	0.8	1	1.2	1.5
	12				0.6	0.8	1	1.2
	16					0.6	0.8	1
	20						0.6	0.8
	22							
	24							
Stanless steel	1	10	12	15	18	20	25	30
	2	3	5	6	8	10	15	20
	3	1	1.5	2.5	3.5	4	5.5	11
	4		0.6	1	1.5	3	3.5	8
	5				0.6	1.5	2.5	5
	6					1	1.3	3
	8						1	2
	10							1
	12							0.6
	14							
	16							
Galvanized Sheet	1	8	10	12	15	18	20	25
	2	2	4	6	8	10	12	16
	3	0.6	1	1.5	3	3.5	5	10
Titanium	1	8	10	12	15	18	20	25
	2	2	4	6	8	10	12	16
Alumium	1	4	6	8	10	18	20	24
	2	1	2.5	4	5	6	8	14
	3			1	1.2	2	5	8.5
	4					1	3	5
	5						1.5	3.5
Copper	1	3	3.5	10	15	18	25	28
	2	0.6	1	3	5	6	8	12
	3			0.6	1.5	2	2.5	3.5
	4					0.6	1	1.5
	5						0.8	3
	6						0.6	2

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CO2 Laser Cutting and Engraving machines



Technical Parameter	
Engraving speed 0-60000mm/min	0-60000mm/min
Cutting speed 0-40000mm/min	0-40000mm/min
Resetting positioning accuracy	≤±0.01mm
Resolution ratio	≤0.0125
Laser output	1-100% software setting
Min. shaping character English	1.0mm x 1.0mm
Warranty	12 months
Configuration	Available Models
Blade working table	A-SHARK 9060
Beijing Reci laser tube W1 80W	A-SHARK 1290
Ruida control system	A-SHARK 1390
Stepper motor and driver	A-SHARK 1610
Water chiller for laser tube cooling	
Hiwin square guide rails	
Exhaust fan	
Air pump	
Options	
90 W / 100 W / 150 W	

CO2 Laser Flatbed Cutting Systems



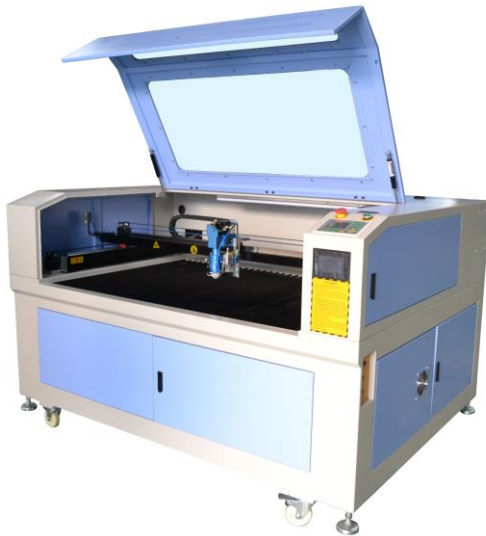
<i>Technical Parameter</i>	
Engraving speed 0-60000mm/min	0-60000mm/min
Cutting speed 0-40000mm/min	0-40000mm/min
Resetting positioning accuracy	$\leq \pm 0.01\text{mm}$
Resolution ratio	≤ 0.0125
Laser output	1-100% software setting
Min. shaping character English	1.0mm x 1.0mm
Warranty	12 months
Configuration	Available Models
Blade working table	A-SHARK 1318
Beijing Reci laser tube W2 90W	A-SHARK 1325
Ruida control system	A-SHARK 1530
Stepper motor and driver	
Water chiller for laser tube cooling	
Hiwin square guide rails	
Exhaust fan	
Air pump	
Options	
100 W / 150 W	

CO2 Laser Cutting with Autofeeding for Fabric and other s



Technical Parameter	
Engraving speed 0-60000mm/min	0-60000mm/min
Cutting speed 0-40000mm/min	0-40000mm/min
Resetting positioning accuracy	≤±0.01mm
Resolution ratio	≤0.0125
Laser output	1-100% software setting
Min. shaping character English	1.0mm x 1.0mm
Warranty	12 months
Configuration	Available Models
Auto-feeding working table	BA AF 1610 AUTO-FEEDING
Beijing Reci laser tube 90W (W2)	BA AF 1810 AUTO-FEEDING
Ruida control system	BA AF 1630 AUTO-FEEDING
Stepper motor and driver	
Water chiller for laser tube cooling	
Hiwin square guide rails	
Feeding bracket	
Exhaust fan	
Air pump	
Options	
100 W / 150 W	
Double Head available on request	

Hybrid CO2 Laser Cutting for Metal and Non Metal



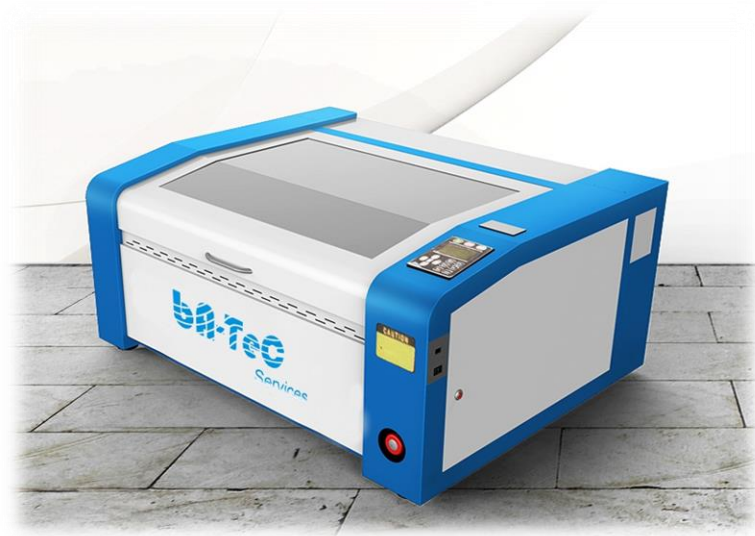
<i>Technical Parameter</i>	
Engraving speed 0-60000mm/min	0-60000mm/min
Cutting speed 0-40000mm/min	0-40000mm/min
Resetting positioning accuracy	$\leq \pm 0.01\text{mm}$
Resolution ratio	≤ 0.0125
Laser output	1-100% software setting
Min. shaping character English	1.0mm x 1.0mm
Warranty	12 months
Configuration	Available Models
Blade working table	BA HP 1390
CO2 laser tube 150W	BA HP 1325
Ruida control system	BA HP 2 1325
Stepper motor and driver	
Water chiller for laser tube cooling	
Belt and Hiwin square guide rails	
Auto focus cutting head	
Exhaust fan	
Air pump	
Options	
280 W / 300 W	
Double Head available on request	

Mini CO2 Laser Cutting systems



Technical Parameter	
Laser - Type	Sealed CO2 laser tube
Laser Power	40W 60W 80W (optional)
Engraving Area	600mm x 400mm
Worktable	Motorized up down table
Whole Machine Size	1360*850*950mm
Engraving Speed	0-36,000mm/min
Resetting Positioning Accuracy	±0.05mm
Working Voltage	AC 110-220V±10%,50-60Hz
Gross Power	<1000W
Operating Temperature	0-45°C
Operating Humidity	5-95%
Minimum Shaping Character	English 1x1mm
Graphic Format Supported	BMP, PLT, DST, DXF, and AI
Driving System	stepper
Cooling Mode	Water-cooling and protection system
Auxiliary Equipments	Exhaust-fans, air-exhaust pipe
Controlling Software	DSP control system
Compatible Software	CorelDraw AutoCAD Photoshop
Configuration	Available Models
	BA WE 6040 60
	BA WE 6041 90

Mini CO2 Laser Cutting systems



Technical Parameter	
Laser - Type	Sealed CO2 laser tube
Laser Power	40w 60w
Engraving Area	600mm x 400mm
Worktable	Manual up-down table
Whole Machine Size	950mm x 740mm x 450mm
Engraving Speed	0-48,000mm/min
Resetting Positioning Accuracy	±0.05mm
Working Voltage	AC 110-220V ±10%, 50-60Hz
Gross Power	<1000w
Operating Temperature	0-45°C
Operating Humidity	5-95%
Minimum Shaping Character	English 1x1mm
Graphic Format Supported	BMP, PLT, DST, DXF, and AI
Driving System	stepper
Cooling Mode	Water-cooling and protection system
Auxiliary Equipments	Exhaust-fans, air-exhaust pipe
Controlling Software	DSP control system
Compatible Software	CorelDraw AutoCAD Photoshop
Configuration	Available Models
	BA WE 600

Applications for CO2 Lasers



BATEC CO2 Laser Compatible Materials

	Engraving	Cutting
Wood	yes	yes
Acrylic	yes	yes
Fabric	yes	yes
Glass	yes	
Coated Metals	yes	
Ceramic	yes	
Delrin	yes	yes
Cloth	yes	yes
Leather	yes	yes
Marble	yes	
Matte Board	yes	yes
Melamine	yes	yes
Paper	yes	yes
Mylar	yes	yes
Pressboard	yes	yes
Rubber	yes	yes
Wood Veneer	yes	yes
Fiberglass	yes	yes
Painted Metals	yes	
Tile	yes	
Plastic	yes	yes
Cork	yes	yes
Corian	yes	yes
Anodized Aluminum	yes	
Stainless Steel	*	
Brass	*	
Titanium	*	
Bare Metals	*	

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Optogon Fiber Laser Compatible Materials	
	Mark
17-4 PH Stainless Steel	yes
303 Stainless	yes
4043 Steel	yes
6061 Aluminum	yes
Bayer 2807 Makrolon polycarbonate	yes
Bayers Bayblend FR 110	yes
Black/White ABS	yes
Brass	yes
Brushed Aluminum	yes
Carbon Fiber	yes
Carbon Nanotube	yes
Clear Coat Anodized Aluminum	yes
Cobalt Chrome Steel	yes
Colored Delrin (Black/White)	yes
Compacted Powder Iron w/Iron Phosphate Coating	yes
Copper	yes
DAP - Diallyl Phthalate	yes
GE Plastics Polycarbonate Resin 121-R	yes
Glass Filled PEEK	yes
Glass Filled Telfon	yes
Hard Coat Anodized Aluminum	yes
Machine Tool Steel	yes
Magnesium	yes
Metal Plated Ceramics	yes
Molybdenum	yes
Nickel Plated 1215 Mild Steel	yes
Nylon	yes
Polybutylene Terephthalate	yes
Polysulphone	yes
Rynite PET	yes
Santoprene	yes
Silicon Carbide	yes
Silicon Steel	yes
Silicon Wafers	yes
Various Inconel Metals (Nickel-Chromium Super Alloys)	yes
White PEEK	yes
Yellow Chromate Aluminum	yes
Zinc Plated Mild Steel	yes

About Us



Dipl. Ing. Burkhard Baier
CEO

BATEC SERVICES PVT LTD is a Indo-German company, based in Mumbai, the headquarter of business in India.

We are mainly dealing with instruments based on laser technology and also with Lasers and Photonics.



Abhinav Paliwal
Director Sales

Our customers are from Pharmacy, Cement Industry, Food and Chemical Industry.

Our Products are High Technology from selected principals, mainly from Germany.



Ajay Bhutani
Director Technology

We can offer :

- Excellent products
- Excellant Service network
- Skilled people with many years of experience in the mentioned technologies.