ABpower®

ABP-F20 Delicate . Durable . Power-saving

ND-YAG Fiber-optical laser engraving machine

- All-new imported laser source and scanner head. Extremely fast engraving speed. Low maintenance cost.
- Air-cooling design. Small in size. Easy to match and set up auto production line.
- Friendly operating windows interface(Support for multiple languages),easy to master.
- Support text and professional image files editing (DXF, PLT, JPG, BMP...)
- Compatible with various kinds of barcodes (1D ,2D, QR code , ECC code, etc.)
- With the function of adding serial number and auto date information,etc.
- Support Marking-on-the-fly function

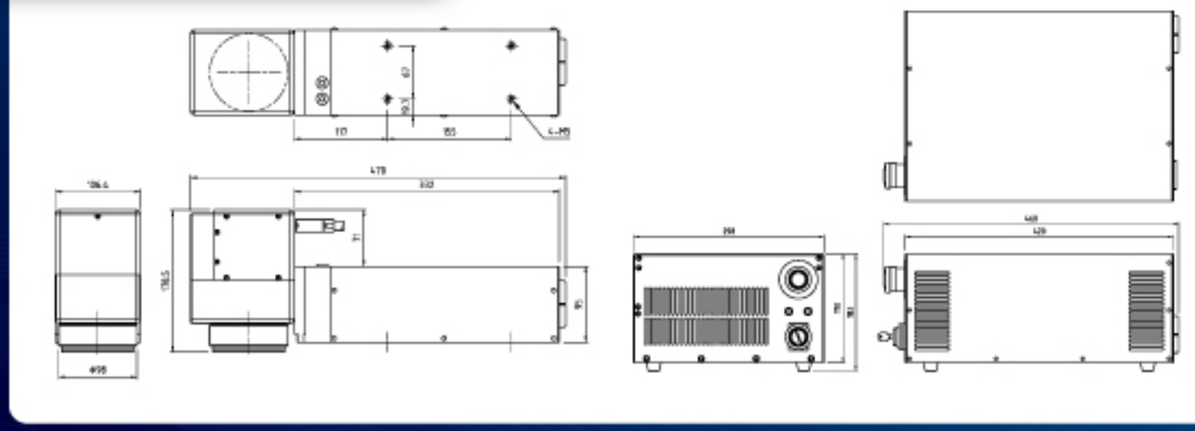
Application field

- All kinds of metal materials (chrome, iron, steel, brass, compound metal)
- Special surface dealing (anodizing, electroplating, blooming, coating)
- Precision component, plastic, potter, keyboard, IC, etc.

Technical specifications

Laser source	Type	ABP F20		ABP F40
	Laser type	fiber-optical laser		
	Average power (W)	20		40
	Laser wavelength (nm)	1062+-3		
	Output mode	Pulsed		Pulsed and CW
	Pulse frequency full power(KHz)	25~200		30~1000
	Derated power (KHz)	1~25		1~30
	Beam quality M2	<2		2.6~3.7
	Cooling	pure air-cooling		
	Optical isolator (ILLK)	bulit-in standard equipment		
	Fiber-optical length (M)	2		3
	Previewing positioning red beam	bulit-in standard equipment		
Focus lens	Focus lens	F-Theta100	F-Theta160	F-Theta254
	engraving field size(mm)	60X60	100X100	160X160
	Size of the focused light spot(um)*	12	18	22
Power need	power	single phase,AC100~240V(AUTO Switch),50~60HZ		
	consumed power (W)	<500		
Environment	environment temperature (C)	0~45		
	Environment humidity (%)	5~95		
Size	control box (mm)	460X298X183		
	laser head (mm)	470X106.4X95(178.5)		
Weight	control box (kg)	24		
	laser head (kg)	8		

Dimension chart



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ABP-V10 Delicate . Durable . Power-saving

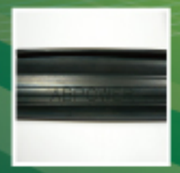
CO2 Laser engraving machine

- Ultra-fast engraving speed, low maintenance cost
- Air-cooling, all-in-one and split design. Easy to match and set up auto production line.
- Friendly operating windows interface(Support for multiple languages), easy to master.
- Support text and professional image files editing (DXF, PLT, JPG, BMP...)
- Compatible with various kinds of barcodes (1D ,2D, QR code , ECC code, etc.) , adding running number and auto date information.
- Support marking-on-the-fly function

Application field

- Plastic, paper, wood, leather,glass, anodic aluminum,electroplated metal, precision component, epoxy, etc.

Split-type



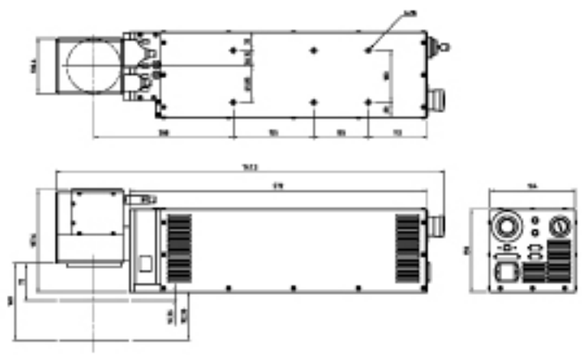
Technical specifications

Laser source	Model number	ABP V10 (All in one)		ABP V10 (split type)	
	Type	Co2 sealed metal tube			
	Average power (W)	10			
	Laser wavelength (um)	10.6			
	Beam quality M2	1.2±0.2			
	Stability of output power	±5%			
	Cooling	pure air-cooling type			
	Previewing positioning red beam	optional			
Focus lens	focus lens	TSL75	TSL100	TSL150	TSL200
	engraving field size	50X50	70X70	100X100	140X140
	Size of the focused light spot	80	100	120	150
Power	Power	Single phase,AC100~240V(AUTO Switch),50~60HZ			
	Consumed power	<450			
Environment	environment temperature (C)	10~35			
	Environment humidity (%)	<90			
Size	control box (mm)	747.5X164X159(197.6)		428X150X123	
	laser head (mm)			714X131X159(197.6)	
Weight	control box (kg)	18		5	
	laser head (kg)			12	

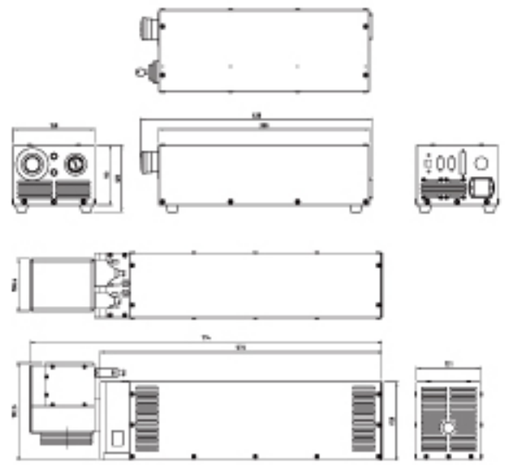
PS. Produced in customized specifications

Dimension chart

All in one



Split type



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ABpower®

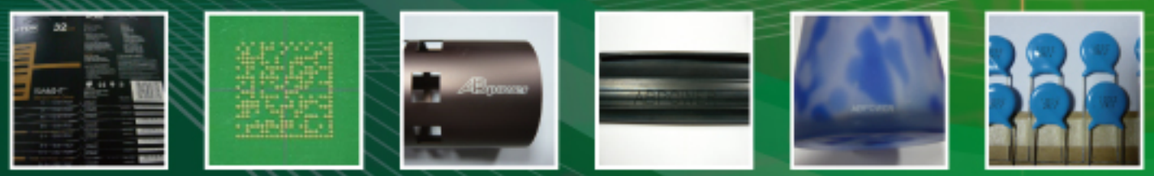
ABP-V30 Delicate . Durable . Power-saving

CO2 Laser engraving machine

- Ultra-fast engraving speed, low maintenance cost
- Air-cooling, split design. Easy to match and set up auto production line.
- Friendly operating windows interface(Support for multiple languages), easy to master.
- Support text and professional image files editing (EXF, PLT, JPG, BMP...)
- Compatible with various kinds of barcodes (1D ,2D, QR code , ECC code, etc.)
- adding serial number and auto date information.
- Support marking-on-the-fly functionn

Application field

- plastic, paper, wood, leather, glass, anodic aluminum, electroplated metal, precision component, epoxy, etc.

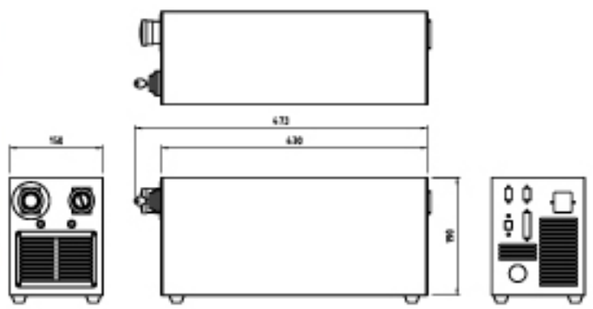


Technical specifications

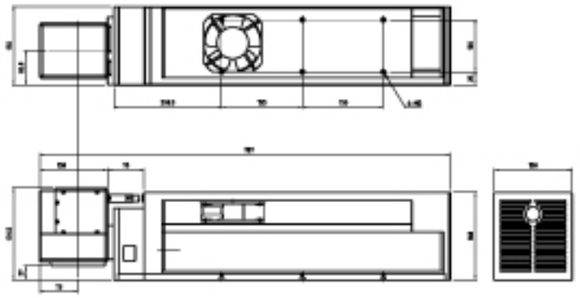
Laser source	Model number	ABP V30			
	Type	metal sealed tube,RF excited			
	Average power (W)	30			
	Laser wavelength (um)	10.6			
	Beam quality M2	1.2±0.2			
	Stability of output power	±5%			
	Cooling	pure air-cooling type			
	Previewing positioning red beam	Built-in standard specification			
Focus lens	focus lens	TSL75	TSL100	TSL150	TSL200
	engraving field size	50X50	70X70	100X100	140X140
	Size of the focused light spot	80	100	120	150
Power	Power	single phase,AC100~240V(AUTO Switch),50~60HZ			
	Consumed power	<800			
Environment	environment temperature (C)	10~35			
	Environment humidity (%)	<90			
Size	control box (mm)	443X150X202			
	laser head (mm)	753X165X164			
Weight	control box (kg)	9			
	laser head (kg)	20			

Dimension chart

V30 control box



V30 Laser head



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ABP-F20i Delicate . Durable . Power-saving

Fiber-optical laser engraving machine

- All-new imported laser source and scanner head. Extremely fast engraving speed. Low maintenance cost.
- Air-cooling design. Small in size. Easy to match and set up auto production line.
- Friendly operating windows interface(Support for multiple languages),easy to master.
- Support text and professional image files editing (DXF, PLT, JPG, BMP...)
- Compatible with various kinds of barcodes (1D ,2D, QR code , ECC code, etc.)
- With the function of adding serial number and auto date information,etc.
- Support Marking-on-the-fly function

Application field

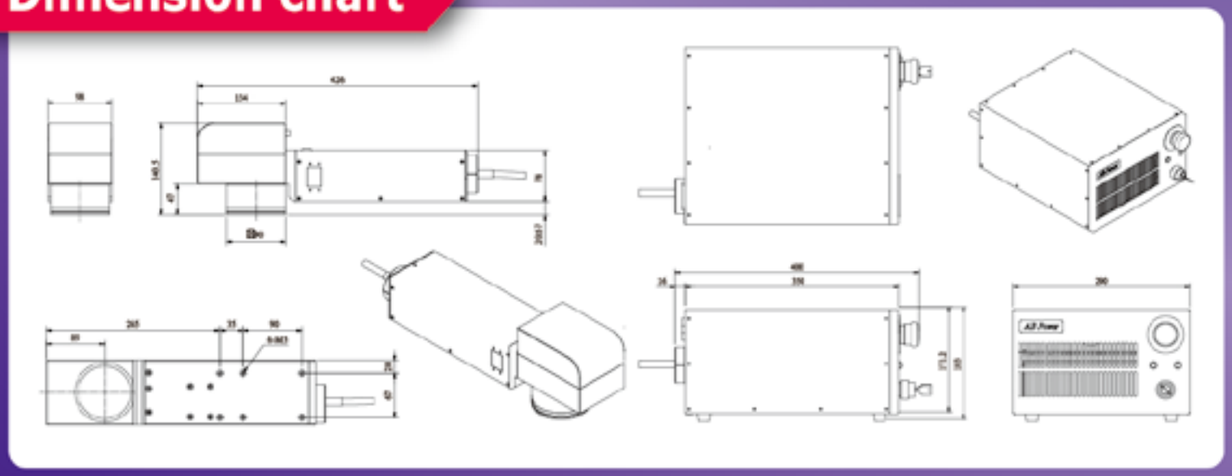
- All kinds of metal materials (chrome, iron, steel, brass, compound metal)
- Special surface dealing (anodizing, electroplating, blooming, coating)
- Precision component, plastic, potter, keyboard, IC, etc.

Technical specifications

Laser source	Type	ABP F20i		
	Laser type	fiber-optical laser		
	Average power (W)*	20		
	Laser wavelength (nm)	1064		
	Output mode	Pulsed		
	Pulse frequency full power(KHz)	20~200		
	Beam quality M2	<1.2		
	Cooling	pure air-cooling		
	Optical isolator	bulit-in standard equipment		
	Fiber-optical length (M)	3		
	Previewing positioning red beam	bulit-in standard equipment		
Focus lens	Focus lens	F-Theta100	F-Theta160	F-Theta254
	engraving field size(mm)	70X70	110X110	160X160
	Size of the focused light spot(um)*	12	18	22
Power need	power	single phase,AC100~240V(AUTO Switch),50~60HZ		
	consumed power (W)	<450		
Environment	environment temperature (C)	0~45		
	Environment humidity (%)	5~95		
Size	control box (mm)	400X290X183		
	laser head (mm)	426X98X140(78)		
Weight	control box (kg)	15		
	laser head (kg)	5		

*Need devices in other power? Please consult business personnel.

Dimension chart



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