

Product description of the 100w laser cutting module

Product Composition:

American Coherent 100w laser light source

Smoke and dust purification device

Laser water cooling device

Cable slide (large format optional)

Substrate protection steel mesh/belt

Product Parameters:

Cutting speed: 1-200cm/s

Cutting depth: ≤ 4 mm

Working Area: Customized according to customer's special requirements.

Spot diameter: 0.08mm

Scope of application: clothing textile fabrics, advertising fabrics, flag cloth within 2mm; Acrylic, fiberboard, plastic and other flat fabrics and plates within 4mm.

Advantage:

1. Using the original imported metal radio frequency laser imported from the United States, the spot quality is good (Gaussian beam $m^2 \leq 1.2$, Divergence angle 7.5mrd), stable output, long service life (air change about every 4 years, normal use of more than 12 years, daily cost of less than 20 yuan).
2. Optimizing the light path to obtain a smaller light spot, narrower slits, and achieve better cutting effects.
3. The laser output adopts precise pulse control, which is precisely matched with the movement speed of the machine to obtain a uniform power density, so that the cutting effect is consistent and stable.
4. The edge can be directly sealed by laser cutting, and the edge of the product is flat and smooth, which saves the process of edge sealing and locking.
5. Coaxial blowing design can prevent smoke and dust from polluting the optical lenses.
6. The height of the cutting head is accurately adjusted by lifting, adapting to different thickness materials, and achieving the best cutting effect.
7. One machine has multiple functions and can be used in combination with a variety of tools.

Cutting Data:

Material	Maximum power	Maximum speed	Minimum power	Remarks
Transparent plastic board	100%	15cm/s	3%	Engraving/Kiss cut
Transparent plastic board	100%	8cm/s	5%	Through cut
Fiberboard	100%	8cm/s	5%	3-4mm board material to adjust the focus and cut into focus
Waterproof fabric	100%	180-200 cm/s	3%	Large smoke and dust
Nature Leather	100%	40cm/s	5%	
Advertising fabric	80%	200cm/s	3%	
Artificial leather	100%	45cm/s	3%	
Denim	100%	40cm/s	3%	
Thick advertising fabric	100%	80cm/s	3%	
Printing paper	75%	200cm/s	4%-5%	
5 layers of printing paper	100%	53cm/s	5%	Slope (power) increased by 5 times