

CO2 Laser Cutting and Engraving Machine

1600*1200mm, 1400*1000mm, 1300*900mm, 1000*600mm, 600*400mm worktable
60watt 80watt 100watt 120watt 130watt 150watt Optional



Red dot Pointer

| | | |
|---|--|--|
| Aluminum Knife & Honey Comb table optional | Air compressor | Water Chiller |
|  |  |  |
|  |  |  Rotary Device |

Components

- * 1.Motor: Stepper Motor(standard)
- 2.Linear Rail: Taiwan HIWIN Linear Rail
- 3.Transmission: Belt transmission
- 4.Cooling mode: Water Cooling (Water Chiller)
- *5.Software: Laser cut software
- 6. Position system: Red dot Pointer(optional)
- *7.Interface: USB online/offline supported
- 8.Control System: RDCAM DSP Control system
- *9.Focus Lens: USA II - VI ZnSe
- 10.Power Supply: 220V/50HZ/1ph or 220V/60HZ/1ph 110V/60HZ/1Ph

1. Laser Cutting Machine Function

*Use to cut or hollow out and engrave on many nonmetal material with intricate graphic in high precise fast speed.

Intricate graphic: trademark, logo, images, graphs, characters etc.

2. CO2 Laser cutting machine can cut or engrave the following material:

| Material | Cut | Engrave |
|--|-----|---------|
| Acrylic Plexiglass Pmma Perspex | ◆ | ◆ |
| Organic board Double color plate | ◆ | ◆ |
| Wood Bamboo Veneer MDF | ◆ | ◆ |
| Leather Pig leather Cow Leather sheep leather | ◆ | ◆ |
| Fabric Cloth Textile | ◆ | ◆ |
| Wool Felt | ◆ | ◆ |
| Paper Cardboard Chipboard Press Board | ◆ | ◆ |
| Ceramic Tile Marble | | ◆ |
| Fiberglass | | ◆ |
| Plastic | ◆ | ◆ |

If your material is not on the above list, please kindly contact us to confirm. **Lizzy** is always to be at your Service.

3. Applicate industry:

Apparel, leather, Advertising, decoration, furniture, model, craft industry

4 Technical Parameter

| Model: | KQG-1612 KQG-1410 KQG-1390 KQG-1060 KQG-6040 |
|--------------------------|---|
| Laser | CO2 glass sealed laser tube |
| Laser power | 60W/80W/100W/120W/130W/150W |
| Work platform size(MM) | 1600*200 1400*1000 1300*900 1000*600 600*400 |
| *Engraving speed | ≤1000mm/s |
| Cutting speed | ≤500mm/s |
| Worktable | honey-comb or aluminum knife optional |
| Precision of positioning | ≤±0.025mm |
| Working temperature: | 5-30 °C degree |
| Control System | RDCAM DSP Control system |
| Soft Ware | Laser Cut software/ PLT,BMP,DXF,DST,TIF format supported CorelDraw, AutoCAD Software Compatible |
| Motor | stepper motor(standard) Or servo motor optional for extra cost |
| Transmission | Belt transmission (Standard) Or bal screw transmission optional for extra cost |
| Linear Rail | Taiwan HIWIN linear rail |
| Water Cooling: | Water chiler CW 3000 (60w 80W laser power) Water chiler CW 5000 (100w/130w/150w laser power) Water chiler CW 5200(dual laser tube) |
| The Whole Set | 1PCS CO2 laser cutting machine 1PCS Water chiller 1PCS Air pump 1PCS Exhaust Fan 1PCS USB cable 1PCS Exhaust Smoking Pipe 1PCS CD Disk with laser cut software |
| | Laser tube, Focal lens, <u>Reflection Mirror 3 PCS</u> |
| Power supply | 220V/50hz/1kva 220V/60HZ/1PH 110V/60HZ/1ph optional |
| Machine dimension(mm) | 2200*1360*1150 1900*1360*1150 1600*1100*1150 1700*900*1150 1700*800*1050 |
| G.W | 550KGS 470KGS 350KGS 300KGS /250KGS |
| Optional for extra cost | 1. Red Dot Pointer 2. Up & Down Worktable 3. Rotary Device to engrave round workpiece 4. Servo motor and bal screw transmission. 5. RF metal sealed laser tube optional |

5. Product Features:

1). CO2 Glass sealed laser tube

China Made Best Brand, Good beam mode stability, service time over 6000 hours



2). Red Dot Pointer Optional for extra cost

Red light indicate the cutting or engraving position before laser cutting



2). Imported USA II-VI ZnSe focus lens (High transmittance, good focusing effect and stability)



Focus lens



reflector mirrors

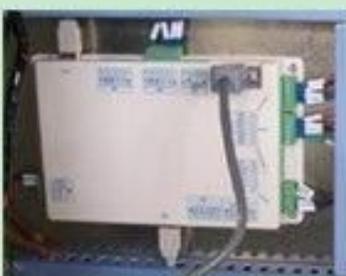


lase head

3). RDCAM DSP control system

USB interface, support online/offline work, English language system

Adjustable cutting speed and power



RDCAM control card



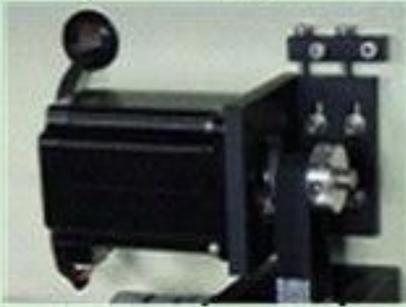
RDCAM control Panel



USB port

4). Motor & Transmission

- *1 Stepper motor drive and belt transmission (Standard Components)



- *2 Servo motor drive with Ballscrew transmission optional for extra cost

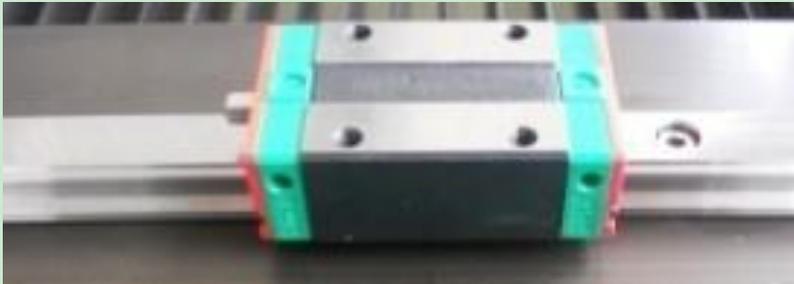


Servo Motor



Ballscrew Transmission

5). Linear double guide rails: famous brand Taiwan HIWIN



6). Industrial Cooling System

60w 80w laser cutting machine wil instal CW 3000 water chiler

100w/130w/150w laser cutting machine wil instal CW 5000 water chiler

dual laser tube laser cutting machine wil instal CW 5200 water chiler

the constant water temperature,ensure laser tube a longer service time and high stability

CW 5000/5200 water chiler with compressor, having alarm and protect system.



7) Exhaust dust and smoke device



Exhaust smoke connect



Exhaust Fan



Pipe

8) •The huff protection--Electrical Air compressor

55W Electrical magnetic air compressor with the output capacity of 60L/min

huff the smoke when cutting or engraving, protect the laser head, focus lens long service time.



9) . Aluminum Blade worktable(Standard) and honeycomb

worktable Aluminum knife worktable for cutting acrylic etc hard material Honeycomb worktable for cutting the fabric leather etc soft material



Aluminum knife table



honeycomb table

10). Routeway feeding: allow users of rol material with unlimited length



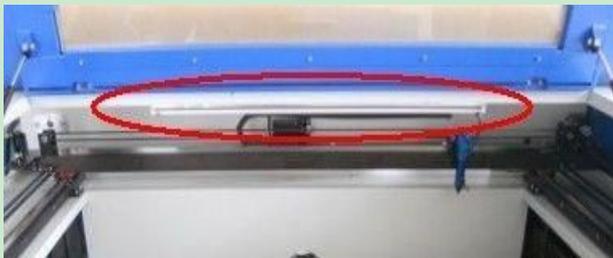
11).up & down adjustable worktable **Optional** for extra cost :

12)engrave & cut different height materials



12)•Portable laser cutting machine: with wheels, easy to move and fixed

13)Machine instal Light, make sure clear cutting and engraving

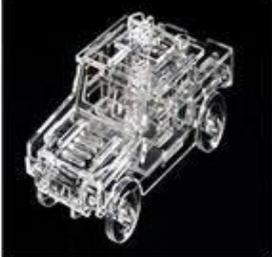


14). New style outlooks laser cutting machine with draw to col ect the cutting smal piece



6 laser cut engrave acrylic sample

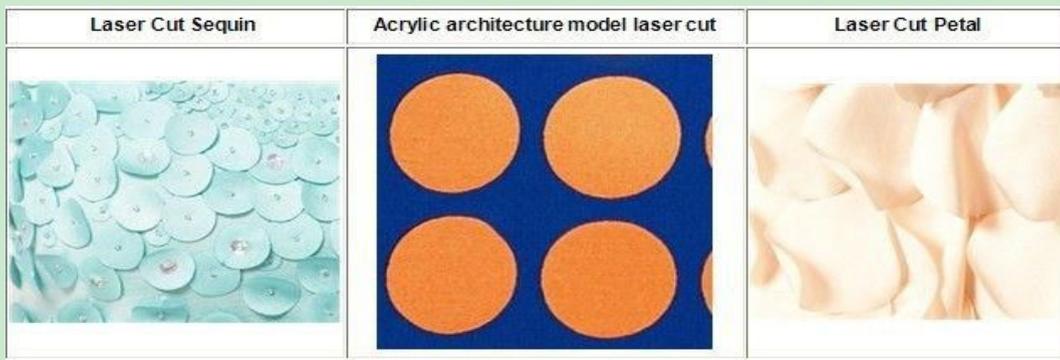
| | | |
|---|--|---|
| Acrylic letter | Acrylic letter | Acrylic letter |
|  |  |  |
| Acrylic shape laser cut | Acrylic lamp | Acrylic flower |
|  |  |  |

| | | |
|---|---|---|
| Acrylic model laser cut | Acrylic architecture model laser cut | Acrylic car model laser cut |
|  |  |  |
| Acrylic awards laser engrave | Acrylic laser engrave | Acrylic laser engrave |
|  |  |  |

Laser engrave photo on acrylic

| | | |
|---|---|---|
|  |  |  |
|---|---|---|

laser cut engrave fabric/leather/wood Application



7. Laser Cut & Engrave Advantage:

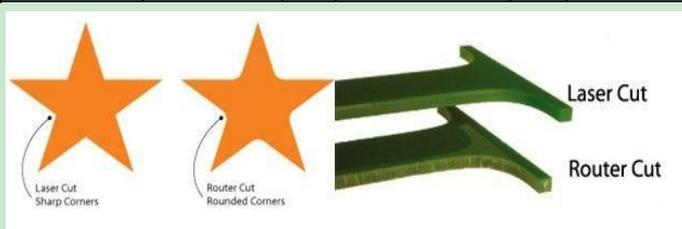
→ Laser cut Acrylic

For plexiglass, perspex, pmma

The edge is polished and smooth. Buffing and hand polishing are not required.

Unlike router cut letters which come with rough, jagged edges (returns) and rounded inside corners, laser cut letters have sharp, smooth and clean edge

| Laser Cut Acrylic Compare | | | | | | |
|---------------------------|--------|---|----------|------------|------------------------------------|--|
| *Laser | design | ⇒ | | processing | ⇒ finish product Clean & Smooth | |
| *Router | design | ⇒ | clamping | ⇒ | processing | ⇒ clean & polishing finish product Rough |
| Saw | design | ⇒ | clamping | ⇒ | processing | |



→ Laser Cut Fabric/Textile Advantage

for cotton, silk, felt, lace, synthetic & technical textiles, aramid, polyester, fleece

- 1.High Speed
- 2.High Precise; (every very intricate pattern can cut in high precision)
- 3.flexibility
- 4.Laser cutting seals the edges of most textiles virtual y eliminating the problem of fraying.

→ Laser Cut Engrave Leather Advantage

- 1.High Precise
- 2.Clean and sealed cutting edge. There wil be no fraying of the material.
- 3.Non contact processing, no need clamping or fixate the leather product
- 4.The laser produces constant results, without any wear or tear.

→ Laser cut Engrave Wood Advantage

- 1.high processing speed
- 2.Clean and accurate edges, even when working on highly complex object shapes and sizes.
3. Non-contact process
- 4.Clamping or any other type of fixation is therefore not required.

8. All Sides Photo & Package



Workshop



8.About US

[Jiangshu Keyland laser technology co.ltd](#) is a professional manufacture in laser equipment

for cutting, engraving, marking. We have the 22 years experienced R&D team workers and *col eague professors in [wuhan city,China](#).

We produce great quality laser cutting machine with reasonable price, you could check by the component parts we used in the machine.