

# 3D Crystal Laser Engraving Machine

-----HSGP-Series



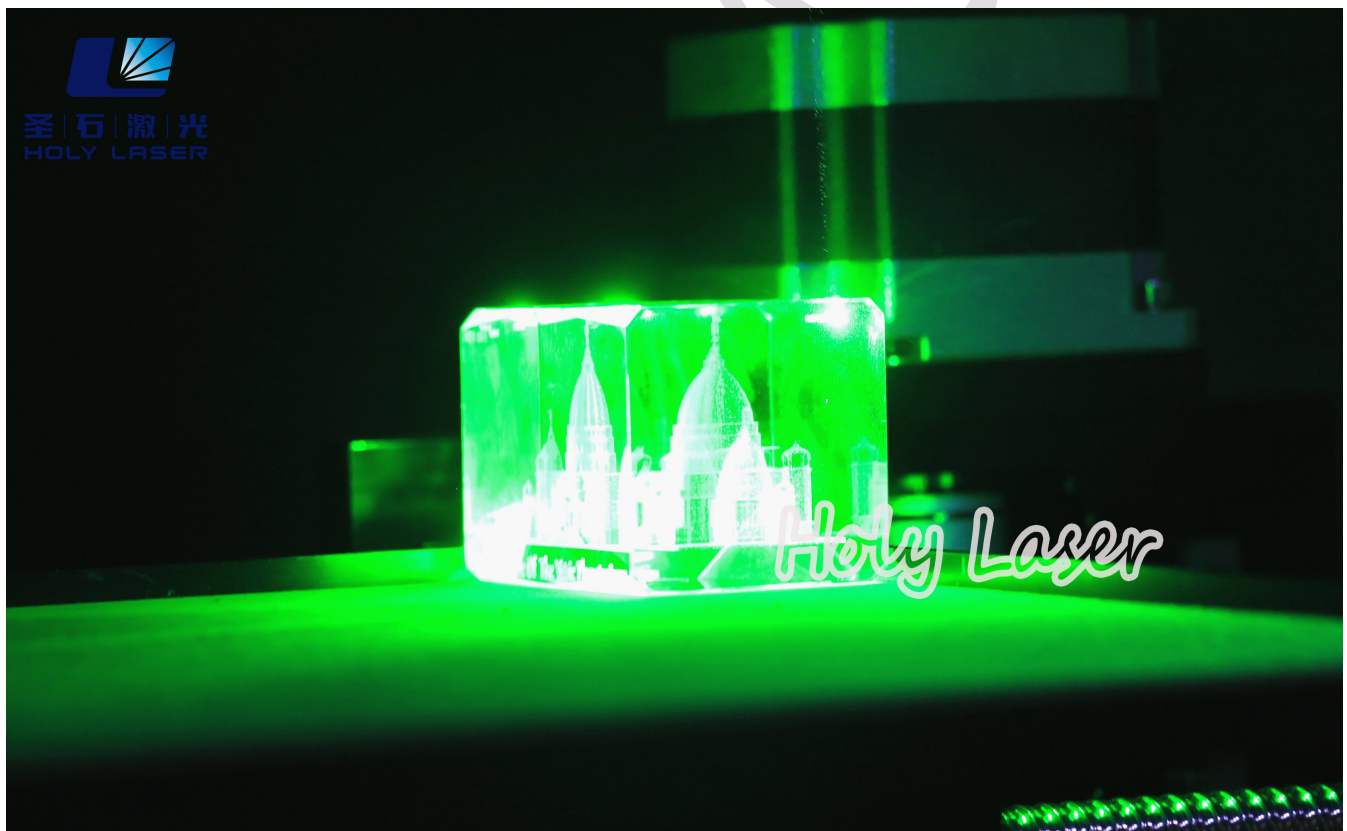
## Product Description

Our 3d laser crystal inside engrave machine is to engrave 2d or 3d photo or design inside the cube, glass or crystal, acrylic, some plastic and so on.



It is very beautiful, novel, attractive, the photo, design, text, anything you engraved inside the crystal or glass will exist forever, very good for customized gift shops, photograph shop, tourism place, shop in schools / malls / walk street / park / amusement place, craft shops, and so on.

### Very easy for operate:

Open the 2D or 3D photo / picture which you want to engrave from our software, then the software will control our machine to engraving your photo inside the crystal with 2D or 3D result.



**Technical Parameter**

Model	HSGP-3K	HSGP-4K	HSGP-5K
Picture			
Max. Working area	300*400*130mm	300*400*130mm	300*400*130mm
Laser Frequency	3KHZ	4KHZ	5KHZ
Average Working speed	≤180000dots/min.	≤240000dot/min.	≤300000dot/min.
Machine frame	Split Type		All-in-one Type
Laser wavelength	532NM		
Max. Pulse energy	1. 2mj		
Laser power	3W		
Q mode	Acousto-optic Q		
Pluse width	7ns		
Beam quality	M2<1.5		
Resolution	800DPI-1200DPI		
Cocal length	≥100mm		
Focus diameter	0.02mm		
Colling	Air cooling		
Temperature	15-30℃		
Power supply	AC220V or AC110V+/-10%		
Application materials	Crystal / glass / some pure plastic or acrylic(not recommend), etc.		
Software Languge	English, Portuguese, Spanish, Russian, Japanese, Korean, etc.,		
Package	Flight cases with lock wheels, Machine with waterproof film, sponge inside for protection,		

Delivery Terms: FOB NINGBO

Delivery Time: 5-7 working days



## Machine details:

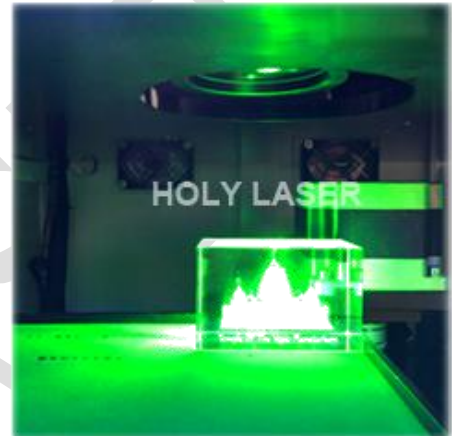


Laser transport fiber cable wire:

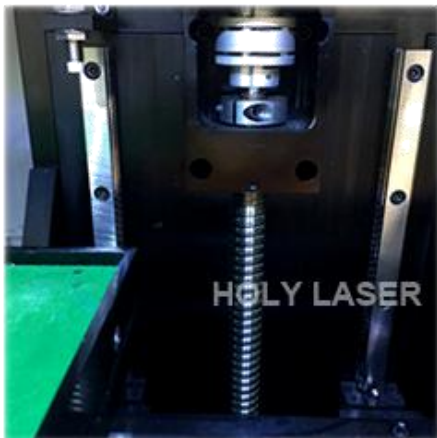
It's function is to transport the laser from laser source:  
if no laser machine will not work, in order to make sure the  
good quality we import from the most professional supplier.



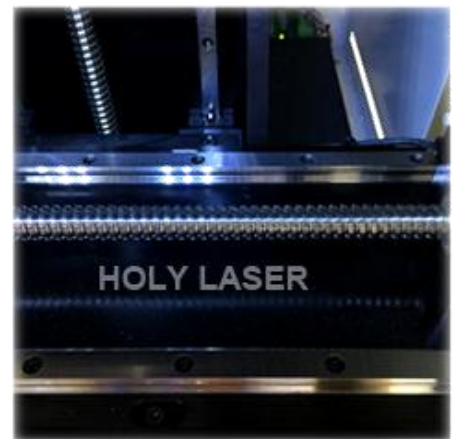
Green laser come from the lens to work on the crystal, glass,  
metal or plastic to make the beautiful designs in 2d or 3D.

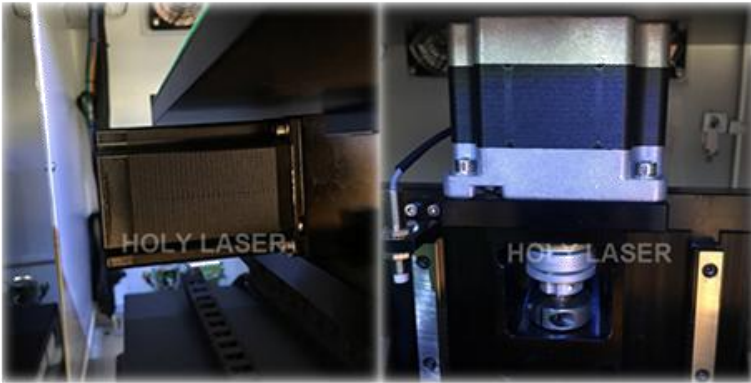


The screw road, guide rail and rotary  
for Z axis with high precision.



The screw road, guide rail and rotary for  
X and Y axis with high precision.



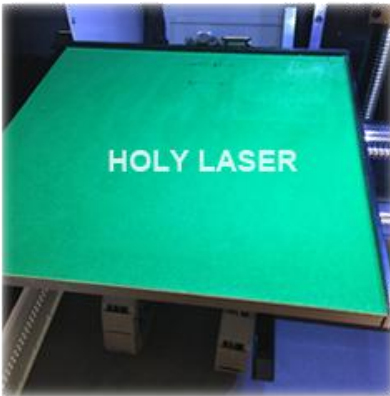
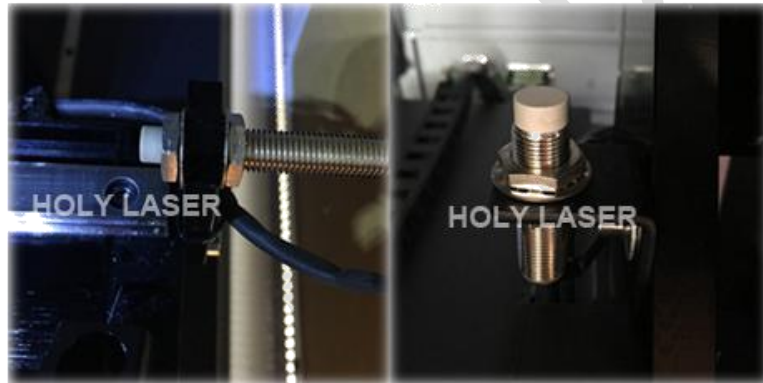


5

The imported Japan Motor for X,Y, Z  
Axis to make sure smoothly moving

6

The X,Y, Z sensor is strong  
to protect high precision  
moving and engraving



7

Adopt imported stable aluminum material worktable specially  
used for engraving heavy loading.  
And with special material on surface to make sure no scrap  
will on the surface of crystal or glass.

## Installation and Training

1.1 Installation at HOLY LASER Factory site.

1.2 For training:

- The best way is customers can training in our factory, then engineer can training you face by face, after training you also can take a practice, any questions can ask our engineer directly.
- If couldn't training in our factory, we have menu and video, and also will training on line.

- 2-3 days basic training by Internet or in Factory for 1-2 person (Agent will according Agent Contract).

### 1.3 training Include:

Technical data

- Safety instructions
- Basics in theory
- Machine structure
- HolyLaser software
- Machine handling
- Trouble shooting

## **2. Warranty & After sale service:**

2.1 Two years warranty for whole machine.

2.2 After sales service:

- When you have any questions, no matter machine or operate, you can contact us directly.
- If any parts broken, we will replace a new one for you in free.
- After warranty we will still supply lifetime maintenance in free. Just if parts broken, we will replace with charge.

## **3. Delivery & package:**

3.1 Delivery:

- Machine will be finished within 7 working days. (after we get advanced payment)

3.2 Package:

- Aluminum cases with sponge fill inside to protect machine.
- The aluminum case is fumigation free. Suitable both by sea and by air.
- The cases wheels with lock, easy for move and fixed.





## 5. Samples:

- Can engraved in any size, any shape of crystal with different photo:



- Detailed :



## Company Profile

Zhejiang HOLY LASER Technology CO., LTD.



Established: June, 2006

Registered capital: 21 million RMB

Number of employees: More than 130 people, over 100 people with college education

Service Content: Full set of industrial laser application solutions!

We have sold our machine to more than 50 countries all over the world, like, USA, UK, France, Italy, Germany, Brazil, Russia, Korea, Japan, Mexico, Spain, Canada, Finland, Estonia, India, Indonesia, Egypt, Singapore, Laos, Myanmar, Vietnam, Mongolia, Mexico, Brunei, Thailand, Pakistan, Vietnam, Singapore, Iran, Turkey, Bahrain, France, Denmark, Sweden,



Netherlands, Poland, Norway, Kuwait, Malaysia, Saudi Arabia, UAE, Palestine, Iran, Iraq, Israel, Syria, Romania, Bulgaria, Portugal, Morocco, Algeria, Malaysia, etc.

Products: 3D laser inside engraving, Laser welding, laser cutting, laser marking, automation, robotics, series of equipment.

Offices around the country: Set up offices and distributors in many key cities across the country, serving radiation throughout the country.

## **Honor / Certificates Wall:**

**We have CE, FCC, FDA, ISO certificates to make sure our quality.**



**Factory Corner:**



**3D Crystal laser subsurface engraving machine' workshop**



Laser Lab to produce and test the laser source!

**If you want know more about our machines and our  
factory,please contact us!!!**

**Thank you !**