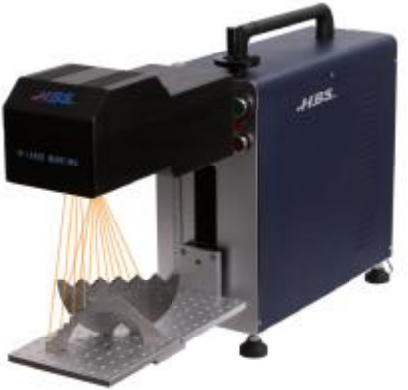
# HBS-GQ-3D-30

## 3D FIBER LASER MARKING MACHINE

| Technical Parameter | |
|---|---|
| System Response Time | Side slope signal less than 1ms |
| Position Output Impedance | 1K±1%Ω |
| Position Signal Input Ratio | 0.5V/° |
| Position Signal Input Range | XY2-100 |
| Electronic Circuit Stability | 20PPM |
| Input Voltage | ±24V--±30V |
| Average Working Current | 2.8A |
| Max Input Current | 10A |
| Operating Temperature | 40℃ |
| Marking Area | 300mm x 300mm |



### Packing

| | |
|---|---|
| Size(mm) | 1000X250X550(machine: 970X210X510) |
| N.W.(kg) | 34 (machine: 34) |
| G.W.(kg) | 40 |

### Product Features and Functions

#### 1.Product Features

● The principle of laser marking is to use the focused tiny laser beam to generate high energy and then carry out marking process.

● The laser marking is non-contact process, without mechanical compression and stress.

● Solved the problems for irregular marking, can mark on curved surface, slanted surface, stepped surface and other irregular surfaces.

● Reasonable size design, perfect heat dispersion.

● Easy-operated software and diversified marking patterns ensures profound results of 3D surface marking.

#### 2. Products Function

● Small heat-affected zone, high-precision processing, low cost, easy-operated, non-polluting, can realize the special marking technique that conventional method can not achieve.

● With the assistance of special Z axis optical system, can use the software to control the focus without any mechanical movement within the distance of 200mm during marking.

● Marking area can reach to 1000mm x 1000mm, realize the large-size marking.

● Marking head is compatible with several of optical or non-optical devices, such as rotary axis.

● With the combination of auto-focus by software control and manual mechanical-focus, this marking head can be used in a wider varieties of applications and products.

● During marking process, the 3D controlling system can adjust laser position according to the change of product surfaces and shape, achieve perfect marking effect.