

## Gibbon Robot Calibration System



Gibbon Robot Quick Calibration System consists of dedicated measuring sensor and calibration software. It amends the parameters of robot's joint zero position, arm length, tool center point by simple and quick data collection process, increasing the absolute precision of robot effectively when working.

Gibbon Robot Calibration System is mainly applied in scenarios like robot welding, cutting, engraving, visual tracking and gripping, which needs higher absolute positioning precision and trajectory precision.

### Features:

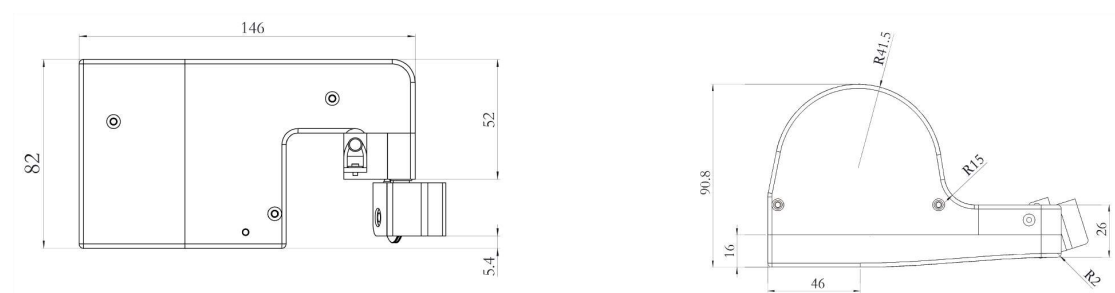
- Support Multi-Model
- Support standard space in series with 6-joint robot, SCARA robot;
- D-H model parameters can be set by customers for any system-supported robot configuration.
- Multi-Parameter Compensation: Can amend parameters like robot's joint zero position, arm length, tool center point and reduction ratio.
- Accurate measuring precision < 0.1mm, repeated measuring precision < 0.05mm, measuring resolution ratio reaches as high as 0.001mm, within a sphere space of radius 3000mm;
- Internal integrated dedicated processor can realize real-time high-speed sampling as high as 10kHz and data transmission easily.
- One-Key Calibration: Software can operate both on PC and in robot control system, realize full-automatic one-key quick calibration easily.
- Portable: Highly-integrated design concept, tiny space, convenient to take and fix.
- One Machine Multi-Function: In addition to robotic kinematic calibration, it also supports testing functions like trajectory precision detection and vibration analysis.



## Product Specifications

Function	Description
CPU	ARM Cortex-M4
Rated Power	AC100-240V
Maximum Current	0.75A
Resolution	0.001mm
Accuracy	0.1mm
Measuring Range	Spherical space with a radius of 3m
OS Support	Windows7、Windows8、Linux
Operating temperature	25±10°C
Relative humidity	5%-90%, non-condensing
Storage humidity	10%-95%, non-condensing
Vibration	Sinusoidal vibration: GB/T 2423.10 Random vibration: GB/T 2423.56
Shock	Mechanical shock: GB/T 2423.5 Impact: GB/T 2423.6
Drop	1.5 meters drop test
Certification	Industry standard level 3 (ESD: 6KV; EFT: Power Cable 2KV, Signal Cable 1KV)
Dimension	287 x 160 x 78mm
Installation	Horizontal mounting
Weight	2kg
IP protection	IP30

## System Dimension:



### Application Area:

- Carrying
- Spraying
- Pickup
- Welding
- Stacking



### System Diagram:



## Ordering Information

Model No.	Descriptions
GRCSG3001	Gibbon Robot Calibration System

## Optional Accessories

Model No.	Descriptions
GRCSG-Acc-Welding-01	Accessory for welding torch calibration
GRCSG-Acc-EnSpindle-02	Accessory for general robot arm calibration
GRCSG-PoE	PoE power module
GRCSG-EthernetCable	CAT6 Ethernet Cable
GRCSG-SW-01	Gibbon Robot Calibration System Software



GOOGOL TECHNOLOGY (HK) LIMITED  
Unit 1008-09, 10/F C-Bons International Center, 108  
Wai Yip Street, Kwun Tong, Kowloon, Hong Kong  
Tel.: +(852) 2358-1033  
Fax: +(852) 2719-8399  
E-mail: hkgoogol@gmail.com / sales@googoltech.com  
Web: <http://www.googoltech.com>

GOOGOL TECHNOLOGY (SZ) LIMITED  
Room W211, IER Building (PKU-HKUST High-  
tech Industrial Park, Nanshan District, Shenzhen,  
PRC (Postal Code: 518057)  
Tel.: +(86) 755-26970817, 755-26970824,  
Fax: +(86) 755- 26970821  
E-mail: googol@googoltech.com  
Web: [www.googoltech.com.cn](http://www.googoltech.com.cn)

GOOGOL TECHNOLOGY (TWN) LIMITED  
2F., No. 22, Ln. 10, Fuzhong 2nd St., Xitun  
Dist., Taichung City 407, Taiwan  
Tel.: +(886) 4-2358-8245  
E-mail: twinfo@googoltech.com  
Web: <http://www.googoltech.com>

[www.googoltech.com](http://www.googoltech.com)

