

INDUSTRIAL ROBOT



SUZHOU GUDWAY CNC EQUIPMENT CO.,LTD

Add : No. 21 Xiexin Road, New District, Suzhou City, Jiangsu Province, China.

Tel : +86-0512-65580060

Email : info@gudwaycnc.com

Web : http://www.gudwaycnc.com

► Conveyor belt tracking

To realize the dynamic tracking of the workpiece on the conveyor belt and synchronous movement

- ◉ Inspect workpieces and perform robotic work with vision/sensors
- ◉ Supports a single robot to track multiple conveyor belts
- ◉ Supports multiple robots tracking a single conveyor belt
- ◉ Workpiece on conveyor belt can be dispensed, arranged and assembled
- ◉ Support visual calibration, accuracy up to 0.3mm, maximum CT up to 0.7s/pcs



► Visual calibration

Work with the visual system to fulfill the job requirements

- ◉ With advanced visual calibration algorithms, the camera can be fixed or mounted on the J2 and J4 of the SCARA robot, and the J5 and J6 of the 6-axis robot
- ◉ Support manual, semi-automatic, automatic three calibration methods
- ◉ Support multi-brand visual software, support software, hardware two trigger ways, can easily obtain visual software data



Cooperative robot

- ◉ The six-axis manipulator has top-of-the-line force sensitivity and collision detection capabilities
- ◉ 6 joint torque sensors, safe and reliable, accurate operation
- ◉ Best-in-class collaborative robot solutions with diverse workload capabilities and product lineup
- ◉ A wide range of products can provide you with the best solution

MODEL	M SERIES	A SERIES	H SERIES
Payload	6Kg 10Kg 15Kg	5Kg 9Kg	20Kg 25Kg
Operating radius	900mm 1300mm 1700mm	900mm 1200mm	1700mm 1500mm
Application	The highest performance of high-end series, for optimal safety, to meet the needs of ultra-precision or high torque operations	The universal series has superior performance and cost performance, so that all operations can be automated	High-load cooperative robot series, the largest load in the industry, provides a comprehensive safety system

Robotics Institute

ROBOTICS INSTITUTE

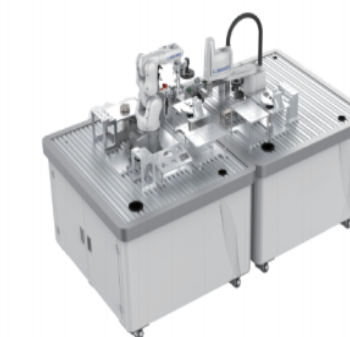
- ◉ Focusing on the research and development of robot education equipment and teaching system construction, a series of functional modules close to industrial practical applications have been developed to meet the dual needs of application and scientific research. The School of Robotics has independent teaching resources (teaching videos, teaching websites, teaching materials and courseware) and hardware teaching platform to build a perfect robot teaching and training system.

It adopts the combination of PC+ teaching device + training platform, integrates AR/VR technology, and modular software design to meet the switch of different experiments, providing good conditions for skill assessment and flexible teaching.

Hardware platform (with vision system)

Industrial robot operation and maintenance training platform

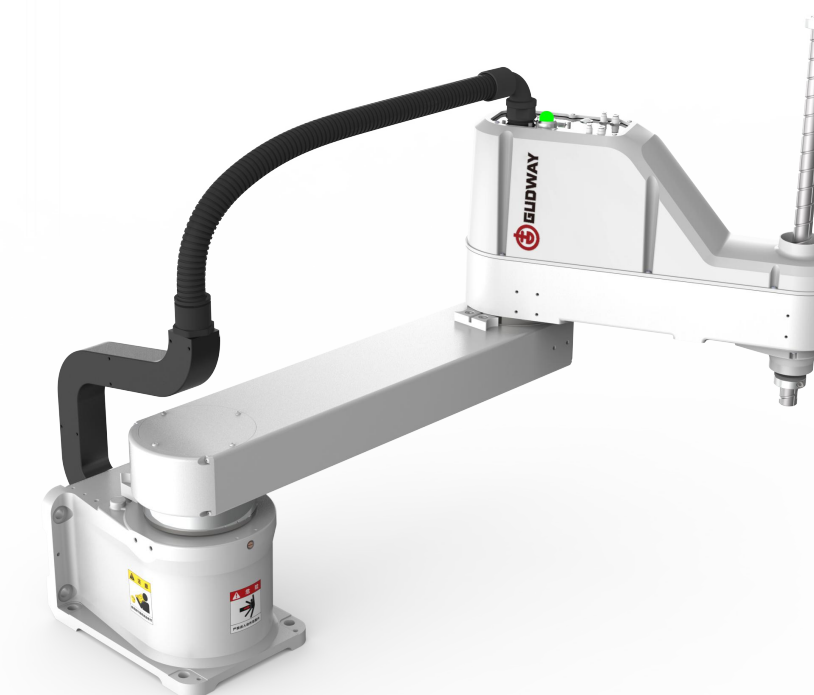
- ◉ The industrial robot operation and operation and maintenance training platform is designed in mod form, and can be combined to carry out three levels of project training: primary, intermediate and se. The single platform is applied to the basic training assessment, and the two-platform splicing can be collaborative training assessment of the two robots.
- ◉ The system integrates industrial robot technology, intelligent sensor technology, programmable con technology, robot vision technology, communication technology, mechanical transmission technolo electronic and electrical technology and other advanced manufacturing technology, covering indust robot, mechanical design, electrical automation, hydraulic and pneumatic and other disciplines of professional knowledge. At the same time, the monitoring center is equipped with cameras and elec signage, identity verification equipment and other information teaching and assessment devices, to a modern and information examination room, and to build a demonstration of skills appraisal and assessment site.



Self-developed software -RobotTrain (supporting AR/VR technology)

- ◉ In addition to the flexible and convenient hardware facilities, the industrial robot teaching platform also independently developed a software — RobotTrain, which supports AR/VR technology.

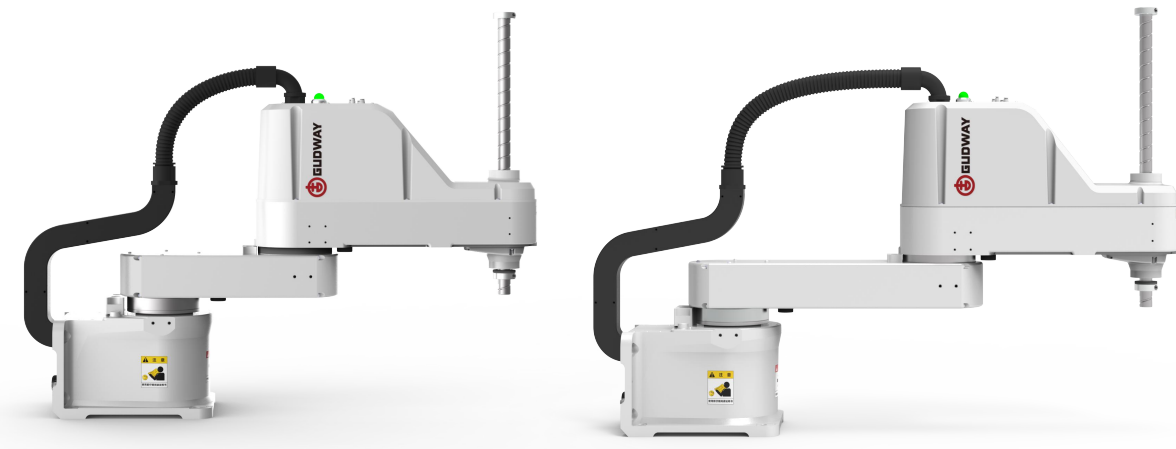
- ◉ Simulate the real operating environment, learn the industrial robot construction at a deeper level: During the initial training, the operation of nine modules can be simulated on the RobotTrain, and the programming Windows of the upper computer and the instructor are also set up for online programming. Whether the operation is reasonable in the simulation environment, the correct program can be transplanted to the actual machine in the end, reducing the possible risks in the teaching process.



工业机器人
INDUSTRIAL
ROBOT

Industrial robot products

INDUSTRIAL ROBOT



SCARA robot

The SCARA robotic system is designed to meet the various needs of assembly and industrial process automation. There is always a robot to meet your requirements for shaft length and load

- High precision assembly
- High speed processing performance
- Manual operation is fully automated



Six axis robot

The design and development of the six-axis robot is designed to increase speed and motion efficiency, greatly increasing productivity. High rigidity and advanced internal control technology optimize acceleration and deceleration performance to ensure continuous handling under high loads and high repeatability under all load conditions.

- Angular/internal assembly and packaging operations
- Multi-dimensional sealing application processes
- Strong production layout flexibility in small Spaces



Robot control cabinet

RC Series control cabinet is a highly integrated control cabinet, used with SCARA robots and 6-axis robots, compact structure, easy installation, rich software features, easy to expand. Widely used in 3C, new energy and other industries.

- RTOS(real-time operating system)
- EtherCAT bus communication technology
- It supports TCP/IP, RS232, Modbus, EIP, and CC-Link
- Simple installation
- High performance, easy to expand

SCARA TOBOT

MODEL	GTM4-R400	GTM5A-R250	GTM5A-R300	GTM5A-R400	GTM7-R500	GTM7-R600	GTM7-R700	GTM10A-R600	GTM10A-R700	GTM10A-R800	GTM12-R600	GTM12-R700	GTM12-R800	GTM20-R650	GTM20-R800	GTM20-R1000	GST4-R350	GST5-R450	GST5-R550	GST5-R650
Maximum arm span	400mm	250mm	300mm	400mm	500mm	600mm	700mm	600mm	700mm	800mm	600mm	700mm	800mm	650mm	800mm	1000mm	350mm	450mm	550mm	650mm
Weight (excluding cable)	11Kg	13Kg	14Kg	14Kg	16Kg	16.5Kg	17Kg	31.5Kg	33.5Kg	35.5Kg	25Kg	25.5Kg	26.5Kg	39Kg	41Kg	44Kg	18Kg	19Kg	20Kg	21Kg
Max load	4Kg	5Kg	5Kg	5Kg	7Kg	7Kg	7Kg	10Kg	10Kg	12Kg	12Kg	12Kg	12Kg	20Kg	20Kg	20Kg	4Kg	5Kg	5Kg	5Kg
Repositioning resolution	1st + 2nd joint	±0.01mm	±0.01mm	±0.01mm	±0.01mm	±0.02mm	±0.02mm	±0.02mm	±0.02mm	±0.025mm	±0.02mm	±0.02mm	±0.02mm	±0.025mm	±0.025mm	±0.025mm	±0.01mm	±0.015mm	±0.015mm	±0.02mm
	Joint 3/ 4	±0.01mm/±0.01°	±0.01mm/±0.005°	±0.01mm/±0.005°	±0.01mm/±0.005°	±0.01mm/±0.01°	±0.01mm/±0.01°	±0.01mm/±0.01°	±0.01mm/±0.01°	±0.01mm/±0.01°	±0.01mm/±0.01°	±0.01mm/±0.01°	±0.01mm/±0.01°	±0.01mm/±0.01°	±0.01mm/±0.01°	±0.01mm/±0.01°	±0.01mm/±0.01°	±0.01mm/±0.01°	±0.01mm/±0.01°	±0.01mm/±0.01°
Normal cycle time	0.343s	0.37s	0.36s	0.36s	0.32s	0.32s	0.327s	0.36s	0.36s	0.368s	0.336s	0.352s	0.360s	0.37s	0.38s	0.43s	0.326s	0.40s	0.343s	0.36s
4th joint allows rated inertia moment	0.005Kg.m ²	0.005Kg.m ²	0.005Kg.m ²	0.005Kg.m ²	0.01Kg.m ²	0.01Kg.m ²	0.01Kg.m ²	0.02kg·m ²	0.02kg·m ²	0.02kg·m ²	0.02kg·m ²	0.02kg·m ²	0.02kg·m ²	0.05kg·m ²	0.05kg·m ²	0.05kg·m ²	0.005Kg.m ²	0.005Kg.m ²	0.005Kg.m ²	0.005Kg.m ²
4th joint allows max inertia moment	0.05Kg.m ²	0.05Kg.m ²	0.05Kg.m ²	0.05Kg.m ²	0.12Kg.m ²	0.12Kg.m ²	0.12Kg.m ²	0.3Kg.m ²	0.3Kg.m ²	0.3Kg.m ²	0.45kg·m ²	0.45kg·m ²	0.45kg·m ²	0.45kg·m ²	0.45kg·m ²	0.45kg·m ²	0.05Kg.m ²	0.05Kg.m ²	0.05Kg.m ²	0.05Kg.m ²
User circuit	15 pins (D-Sub interface)	15 pins (D-Sub interface)	15 pins (D-Sub interface)	15 pins (D-Sub interface)	15 pins (D-Sub interface)	15 pins (D-Sub interface)	15 pins (D-Sub interface)	15 pins (D-Sub interface)	15 pins (D-Sub interface)	15 pins (D-Sub interface)	15 pins (D-Sub interface)	15 pins (D-Sub interface)	15 pins (D-Sub interface)	15 pins (D-Sub interface)	15 pins (D-Sub interface)	15 pins (D-Sub interface)	15 pins (D-Sub interface)	15 pins (D-Sub interface)	15 pins (D-Sub interface)	15 pins (D-Sub interface)
User gas circuit	φ4mm×1, φ6mm×2	φ4mm×1, φ6mm×2	φ4mm×1, φ6mm×2	φ4mm×1, φ6mm×2	φ4mm×2, φ6mm×2	φ4mm×2, φ6mm×2	φ4mm×2, φ6mm×2	φ4mm×2, φ6mm×2	φ4mm×2, φ6mm×2	φ4mm×2, φ6mm×2	φ4mm×2, φ6mm×2	φ4mm×2, φ6mm×2	φ4mm×2, φ6mm×2	φ4mm×2, φ6mm×2	φ4mm×2, φ6mm×2	φ4mm×2, φ6mm×2	φ4mm×2, φ6mm×2	φ4mm×2, φ6mm×2	φ4mm×2, φ6mm×2	φ4mm×2, φ6mm×2
Ambient temperature	5~40°C (no major changes)																			
Installation method	Countertop mounting																	Mounting upside down		

6-AXIS TOBOT

MODEL	GLR4-R560	GLR8-R720	GLR8-R900	GLR8-R1300	GLR10-R900	GLR10-R1100	GLR12-R900	GLR12H-R1600	GLR15H-R1400	GLR15-R1400	GLR20-R1100	GLR12-R2100	GLR25-R1600	GLR25-R1800	GLR50-R2140	GLR70-R1900	GLR70-R2140	GLR130-R2800-4	GLR150-R3200	GLR180-R3150-4	GLR210A-R2670
Installation mode	Ground, suspension	Ground, suspension	Ground, suspension	Ground, top hanging, wall hanging	Ground, suspension	Ground, top hanging, wall hanging	Ground, top hanging, wall hanging	Ground, top hanging, wall hanging	Ground, top hanging, wall hanging	Ground, top hanging, wall hanging	Ground, top hanging, wall hanging	Ground, top hanging, wall hanging	Ground, top hanging, wall hanging	Ground, top hanging, wall hanging	Ground mounted	Ground mounted	Ground mounted	Floor and support	Floor and support	Floor and support	Floor and support
Freedom of motion	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	4	6	4	6
Maximum range of motion	560.7mm	720mm	900mm	1291mm	900mm	1142mm	944mm	1604mm	1479mm	1420mm	1143mm	2051mm	1660mm	1850mm	2146mm	1901mm	2146mm	2816mm	3192mm	3160mm	2674mm
Weight (excluding cable)	25Kg	35Kg	36Kg	80Kg	36Kg	78Kg	75Kg	169kg	165kg	150Kg	145Kg	165Kg	172Kg	175Kg	550kg	545kg	550kg	970Kg	1150Kg	1350Kg	1110Kg
Repeated positioning accuracy	±0.02mm	±0.02mm	±0.03mm	±0.03mm	±0.03mm	±0.025mm	±0.02mm	±0.03mm	±0.03mm	±0.05mm	±0.03mm	±0.05mm	±0.05mm	±0.05mm	±0.06mm	±0.06mm	±0.06mm	±0.1mm	±0.2mm	±0.1mm	±0.1mm
Maximum load	4Kg	8Kg	8Kg	8Kg	10Kg	10Kg	12Kg	12kg	15kg	15Kg	20Kg	12Kg	25Kg	25Kg	50Kg	70Kg	70Kg	130Kg	150Kg	180Kg	210Kg
Ambient temperature	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C
Body protection level	IP54/IP67 (OP)	IP54/IP68 (OP)	IP54/IP68 (OP)	IP65 / IP67 (wrist)	IP54/IP68 (OP)	IP65 / IP67 (wrist)	IP65/IP67(wrist)	IP54/IP67(wrist)	IP65/IP67(wrist)	IP54/IP67(wrist)	IP65/IP67(wrist)	IP54/IP67(wrist)	IP54/IP67(wrist)	IP54/IP67(wrist)	IP54/IP67(wrist)	IP54/IP67(wrist)	IP54/IP67(wrist)	IP54/IP65(OP)	IP65	IP54/IP65(OP)	IP65
Electrical cabinet protection level	IP30	IP30	IP30	IP20/IP54 (OP)	IP30	IP20/IP54 (OP)	IP20/IP54 (OP)	IP20/IP54 (OP)	IP20/IP54 (OP)	IP20/IP54 (OP)	IP20/IP54 (OP)	IP20 / IP54 (OP)	IP20 / IP54 (OP)	IP20 / IP54 (OP)	IP54	IP54	IP54	IP54	IP54	IP54	IP54
Function	Loading and unloading, handing, assembling	Loading/unloading, assembly and packing	Loading/unloading, assembly and packing	Assembly, handing, sorting, grinding, polishing	Loading/unloading, assembly and packing	Assembly, handing, sorting, grinding, polishing	Assembly, handing, sorting, grinding, polishing	Handling, sorting, grinding, polishing	Handling, sorting, grinding, polishing	Handling, assembling, grinding	Handling, assembling, grinding	Handling, assembling, grinding	Handling, assembling, grinding	Handling, assembling, grinding	Grinding, polishing, handing, palletizing	Grinding, polishing, handing, palletizing	Grinding, polishing, handing, palletizing	Handling, palletizing	Spot welding, grinding, handing, palletizing	Handling, palletizing	Spot welding, grinding, handing, palletizing