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Workstation Product Brochure



Turin Robotics a subsidiary of Shanghai Baosight Software Co., Ltd., is a leading provider of industrial intelligence and information technology centered around intelligent robots. The company is a leading provider of intelligent automation solutions, established in 2007 with a registered capital of 443 million RMB and backed by Shanghai Jiao Tong University. The company specializes in advanced industrial robots, SCARA robots, collaborative robots, robot control systems, and software solutions for ecosystem.

Turin Robotics has served over 100 industry-leading enterprises worldwide, including BYD, Tongda Group, Panasonic, BOE, LS, and more. The company has independently developed intelligent

robot series products and software platforms that have successfully provided over 30,000 robots and over 2,200 industrial applications worldwide. Their products have helped to promote efficient, flexible, and advanced intelligent manufacturing development across various industries.

Turin Robotics has established a global presence and is committed to providing complete automation solutions worldwide with technology R&D and business centers located in Shanghai, Shenzhen, and Nantong, as well as representative offices and partner networks across Europe, America, Southeast Asia and other regions.

- Leading global robotics business group in the future.

- In 2023, a new round of financing was completed to finalize the construction of a production base for the annual production of 20,000 intelligent robots.

- In 2021: Selected as the only industrial robotics company in Shanghai to join the third batch of "Little Giant" companies by the Ministry of Industry and Information Technology.

- In 2018: Recognized by the Shanghai government as a "Little Giant" enterprise and commenced operations at our production base in Jiangsu.

- In 2016: Acquired a controlling interest in Italian company RRRobotica, allowing us to develop and produce heavy-duty robots with a 500 kg payload.

- In 2015: Conducted a small-scale trial of human-robot collaboration as a "high-tech achievement transformation project."

- In 2013: Launched our self-owned brand Turin Robot with support from the National Innovation Fund.

- In 2011: Entered the field of robot machine R&D by leveraging our experience in motion control cards and software.

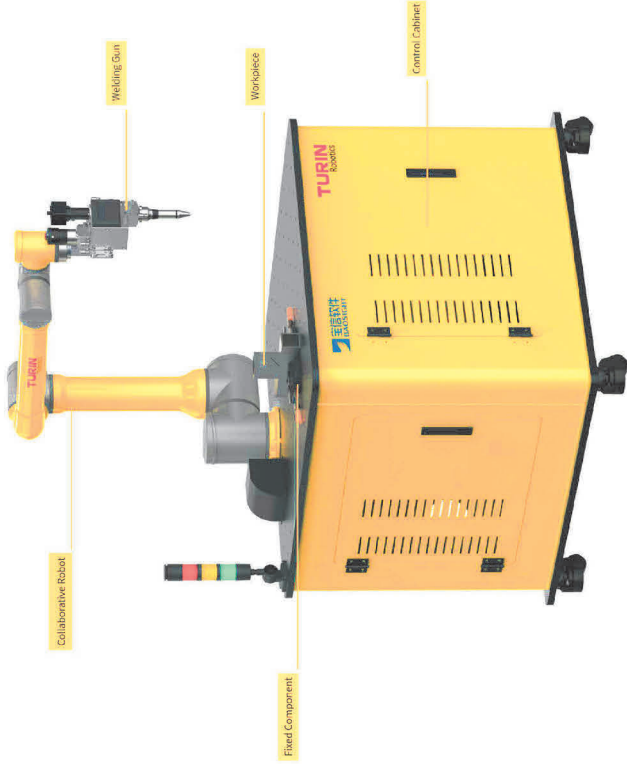
- In 2009: Launched our intelligent motion control card and became recognized as a high-tech enterprise.

- In 2007: Founded with investment from Shanghai Jiao Tong University.



Turin Laser Welding Robot Workstation

Primarily designed for laser welding, the workstation features an integrated design with a small foot print. Equipped with retractable wheels that offers easy maneuverability, the station can be repositioned conveniently at any time according to the site requirements. With a complete set of welding processes, it can be applied to welding of sheet metal, such as stainless steel, carbon steel, and aluminum alloy, in various scenarios including sheet metal fabrication, furniture, kitchenware, lamps, water tanks, billboards, door and window frames, and auto parts.



Advantages

High Welding Efficiency

- Reduced production cycle, increased production efficiency
- Reduced production costs, saved manpower resources

Perfect Weld without Grinding or Polishing

- Enhancing product appearance quality to strengthen market competitiveness
- Reducing manual post-processing steps to lower production costs

Single-pass Welding For Less Consumables

- Reducing material waste to lower production costs

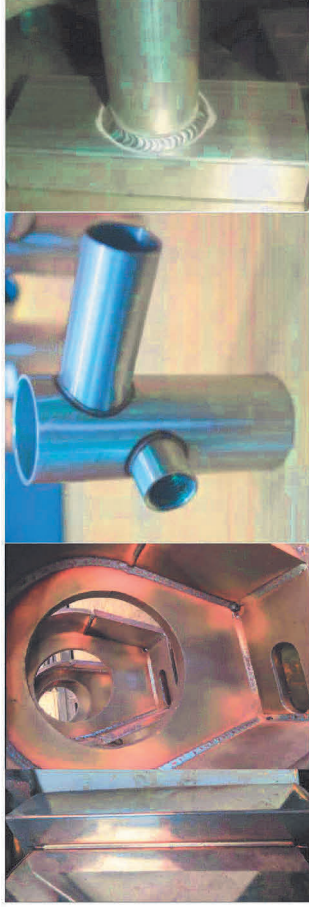
Simple operation & versatile applications

- Lowering personnel training costs to improve production efficiency
- Adapting to various product requirements to enhance production line flexibility

Technical Parameters

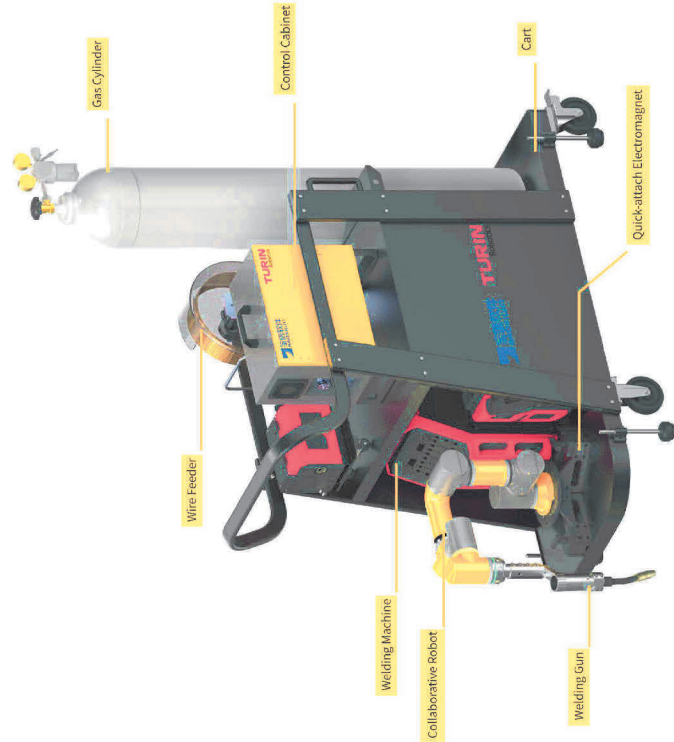
Model	TR10-1310C	
Payload	10kg	
Arm Reach	1310mm	
Body Weight	43kg	
Rated Power	3.5kw	
Max Speed	J1	120°/s
	J2	120°/s
	J3	120°/s
	J4	180°/s
	J5	180°/s
	J6	180°/s
Max Operation Area	J1	±175°
	J2	±175°
	J3	-245°~+65°
	J4	±175°
	J5	±175°
	J6	±360°
IP Rating	IP54/IP67	
Position Repeatability	±0.05mm	
Working Temperature	0~45°C	
※This precision applies to the Turin Intelligence series.		

Welding Samples



Turin MIG/MAG Welding Robot Workstation

This set is primarily used for MIG/MAG welding. With its integrated design, it occupies a small footprint and is equipped with mobile casters for quick magnetic attachment, allowing for easy and flexible adjustment of workstations as per site requirements. It comes with a comprehensive welding process package, suitable for welding scenes such as ships, steel structures, and narrow spaces in large products.



Application Scenario



Technical Parameters

Model	TR03-580C	TR05-900C
Payload	3kg	5kg
Arm Reach	585mm	900mm
Body Weight	16kg	26kg
Rated Power	0.9kw	2.55kw
Max Speed	J1 180°/s	J1 180°/s
	J2 180°/s	J2 180°/s
	J3 180°/s	J3 180°/s
	J4 180°/s	J4 180°/s
	J5 180°/s	J5 180°/s
	J6 180°/s	J6 180°/s
Max Operation Area	J1 ±175°	J1 ±175°
	J2 ±175°	J2 ±175°
	J3 -240°~60°	J3 -245°~65°
	J4 ±175°	J4 ±175°
	J5 ±175°	J5 ±175°
	J6 ±360°	J6 ±360°
IP Rating	IP54/IP67	IP54/IP67
Position Repeatability	±0.03mm	±0.03mm
Working Temperature	0~45℃	0~45℃

※ This precision applies to the Turin Intelligence series.

Advantages

- Simple operation: teach programming or drag-and-drop options make it easy for ordinary operators to learn on the fly after minimal training.
- Fully Chinese interface makes setup and operation easy.
- Rich welding process package meets various application needs.
- Recommend corresponding processes based on material and thickness, greatly reducing the learning curve.
- Capable of welding multiple varieties, small batches, and products with inconsistent consistency.
- One operator can handle multiple machines for aesthetically pleasing weld seams.
- Expandable functionalities include: positioning, arc tracking, multi-layer and multi-pass welding, laser tracking, and teaching-free operation.

Turin Palletizing Robot Workstation

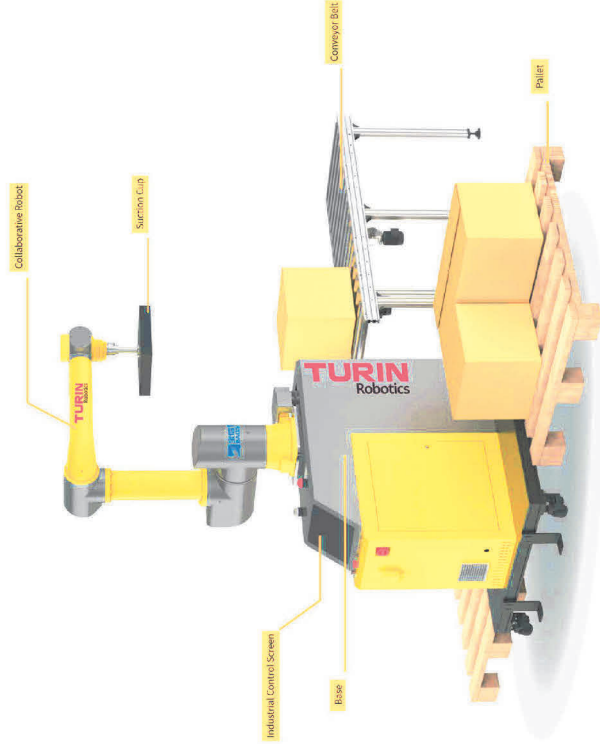
One-stop palletizing workstation with collaborative robots (TCR200, TCR300). Simple programming, plug and play; modular joints are adopted for out-of-the-box operation, no integration or wiring required.

- ✔ Quick Deployment

🔑 Easy to Use

🏭 High Efficiency

💰 High Return On Investment



Technical Parameters

Model	TPW20	TPW30
Payload	20kg	30kg
Working radius	1650mm	1800mm
Maximum tray size	1200*1200	1200*1200
Stacking height	2100mm	2200mm
Palletizing speed	8-10box/min	8-10box/min
Rated voltage	Single-phase 220V	Single-phase 220V
Working air pressure	>0.5Mpa	>0.5Mpa
IP rating	IP54	IP54

Advantages

Flexible Deployment

- Quick installation, convenient mobility
- Integrated design, small footprint

Simple Operation

- Visual programming, master programming in 1 hour
- Standardized palletizing program, new program setup completed in just four steps

High Compatibility

- Large arm reach, covering multiple tray sizes
- Just create one program to accommodate multiple product stacking types

Widely Used

- Widely used in FMCG (Fast Moving Consumer Goods), food, pharmaceuticals, 3C (Computer, Communication, and Consumer electronics) industries, and more

Value Investing

- Fast return on investment cycle, convenient for versatile applications across multiple scenarios
- Adaptable to multiple product categories

Operability

- Four easy steps to complete palletizing layout

In modern industries, automated palletizing using robotic systems has become commonplace due to the inefficiency of manual handling. Collaborative robots facilitate round-the-clock palletizing tasks, swiftly transporting goods to their destinations, saving time and energy. This liberates employees from tedious work, allowing them to focus on more purposeful tasks. With six-axis collaborative robots, palletizing tasks are easily deployed and quickly utilized, enabling true plug-and-play functionality without the need for safety barriers.

Application Scenario



Turin Force-Control Polishing Robot Workstation

This equipment is designed for flexible product polishing. Its compact design optimizes space utilization. Equipped with an intelligent flexible polishing and buffing system, it automates polishing processes for improved consistency and uniformity, enhancing yield and efficiency. With a comprehensive polishing process package, it finds applications across various industrial sectors including 3C electronics, automotive accessories, hardware, and composite materials.



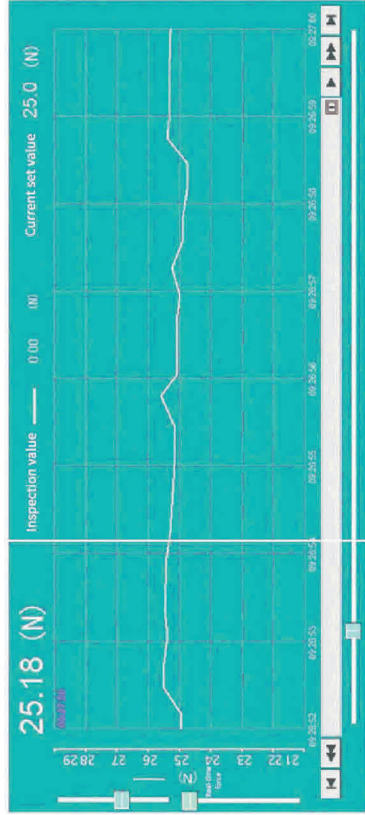
Advantages

- Robotic automatic polishing system.
- Compatible with various specifications and types of products.
- Force control system ensures flexible control during the polishing process.
- Flexible force control, segmented force control, strong compatibility.

Technical Parameters

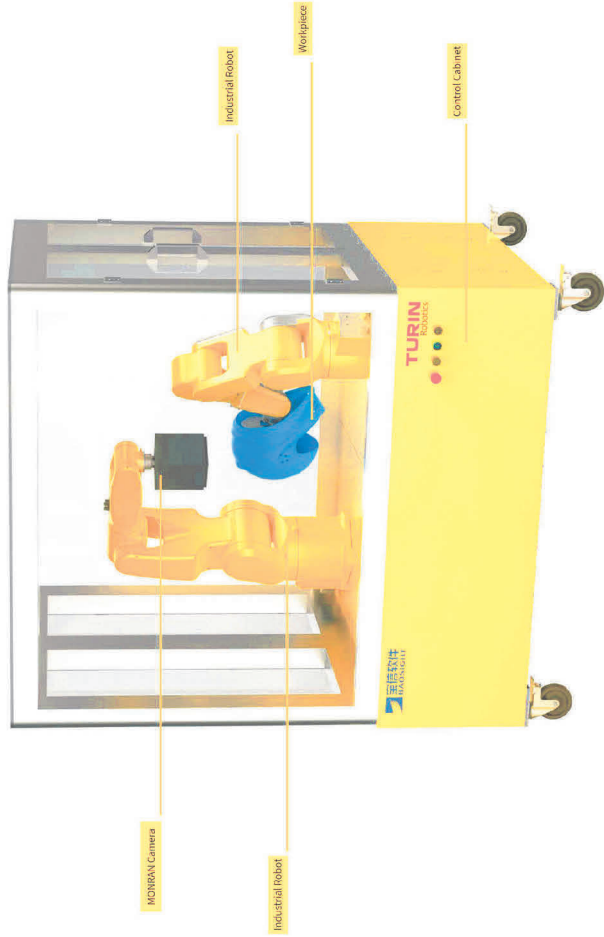
Model	TR10-1110B	
Payload	10kg	
Arm Reach	1110mm	
Body Weight	55kg	
Rated Power	2.5kw	
Max Speed	J1	360°/s
	J2	300°/s
	J3	300°/s
	J4	520°/s
	J5	360°/s
	J6	450°/s
Max Operation Area	J1	±170°
	J2	-75°~110°
	J3	-120°~50°
	J4	±160°
	J5	±120°
	J6	±360°
IP Rating	IP54	
Position Repeatability	±0.03mm	
Working Temperature	0-45°C	
※ This precision applies to the Turin Intelligence series.		

Real-time graph for force control system



Turin AI Inspection Robot System

This equipment is designed for AI inspection, edge computing, 3D vision, and appearance inspection. It features a compact six-axis robot with dual collaborative operation and high integration. Equipped with MONRAN cameras and a visual management interface, it is suitable for various industrial applications including MARK point positioning, object edge positioning, silk screen inspection, gloss surface defect detection, metal and plastic surface crack detection, printing text and barcode recognition, component inspection, and dimension measurement.



Advantages

- Simple operation: Simply have the robot pick up the object to be inspected, and the robot automatically performs a comprehensive inspection.
- Wide applicability: Applicable to products from various industries, ranging from electronic devices to various metal and plastic products in the industrial sector.
- High accuracy: Equipped with various visual lenses and lighting sources, ensuring thorough inspection of all parameters.

Technical Parameters

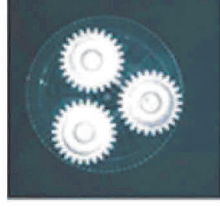
Model	TR03-610B		TR07-910B	
Payload	3kg		7kg	
Arm Reach	616mm		910mm	
Body Weight	35kg		50kg	
Rated Power	1.05kw		2.4kw	
Max Speed	J1	450°/s	J1	450°/s
	J2	450°/s	J2	450°/s
	J3	720°/s	J3	450°/s
	J4	720°/s	J4	458°/s
	J5	720°/s	J5	720°/s
	J6	720°/s	J6	720°/s
Max Operation Area	J1	±170°	J1	±170°
	J2	-80°~120°	J2	-75°~110°
	J3	-75°~75°	J3	-120°~50°
	J4	±120°	J4	±160°
	J5	±120°	J5	±120°
	J6	±360°	J6	±360°
IP Rating	IP54		IP54/IP67	
Position Repeatability	±0.02mm		±0.02mm	
Working Temperature	0~45°C		0~45°C	

※This precision applies to the Turin Intelligence series.

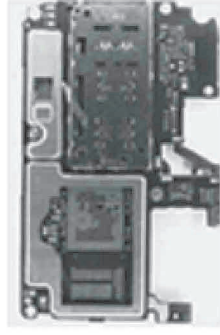
Applications



Surface Defect Detection



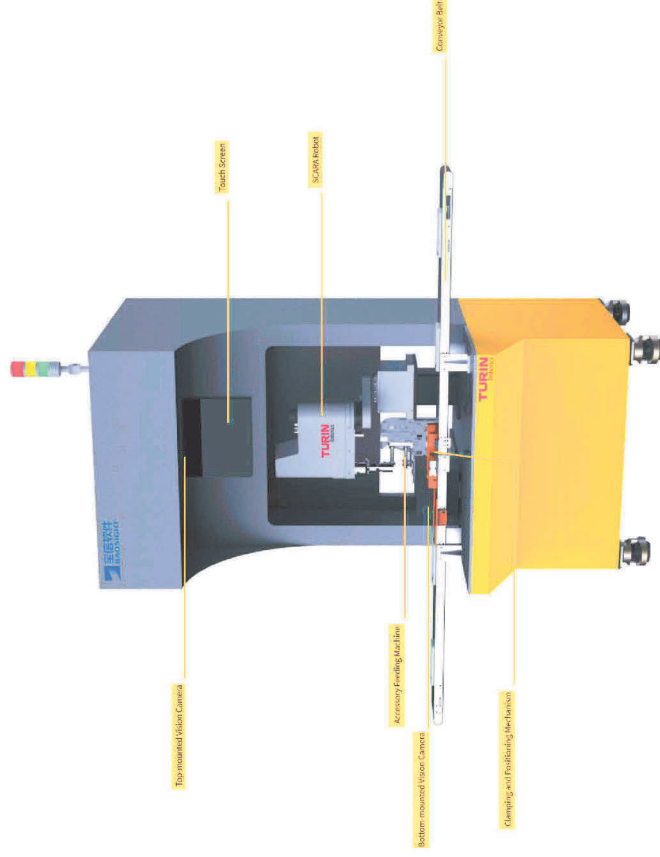
Gear Count Detection



PCB Board Inspection

Turin Labelling Robot workstation

This equipment is designed for accessory application in the 3C industry, specifically for laptops, smartphones, and similar electronic devices. It employs a conveyor belt to transport products to designated positions where a mechanical clamping mechanism ensures precise alignment. With a dual-vision system, it accurately locates and inspects accessories for defects. A SCARA robot then applies them to the specified positions in a repetitive cycle.



Advantages

- **Simple operation:** The robot grasps the object to be inspected, automatically conducts comprehensive inspection, positioning, and application.
- **Widely applicable:** Suitable for various types of 3C electronic product manufacturing.
- **High accuracy:** Equipped with various visual lenses and lighting sources, ensuring thorough inspection of all parameters and precise positioning.
- **Efficiency improvement:** Replaces manual batch operations, resulting in faster work speed and higher productivity.

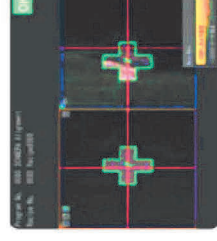
Technical Parameters

Model	Workstation
Payload	3kg
Working radius	400mm
Work cycle	4s
Applicable product sizes	Max200*100mm
Position repeatability	±0.01mm
Rated voltage	Single-phase 220V
Working air pressure	≥0.5Mpa
Body weight	≥300kg

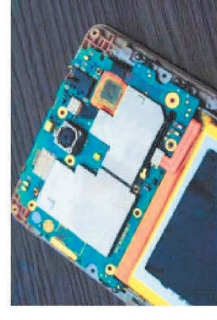
Applications



Surface Defect Detection



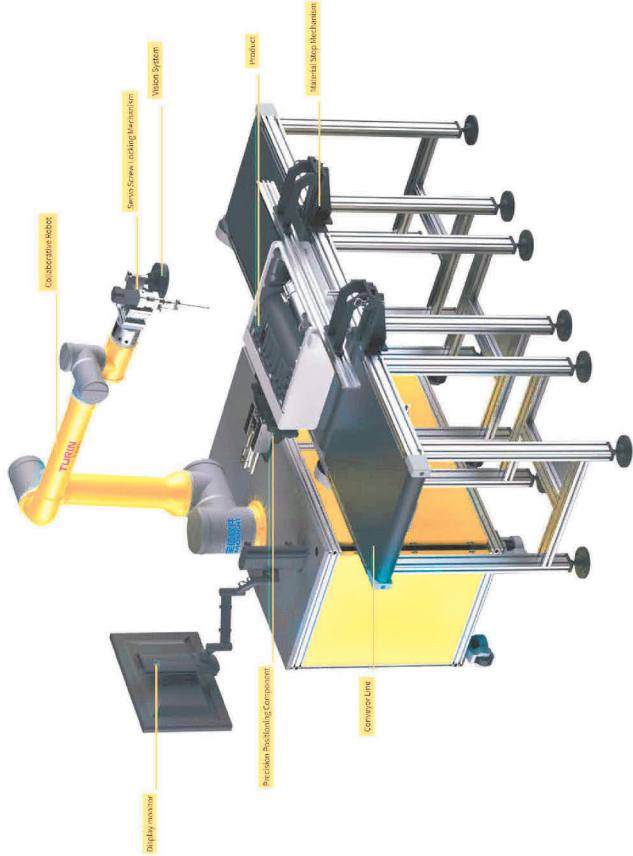
Vision-Guided Positioning



Finished Product Diagram

Turin Screw Locking Robot Workstation

This equipment is designed for screw locking of products. Equipped with a 2D vision system and electric servo screw locking module, it automatically identifies the product model and performs precise automatic screw tightening and removal from any angle. Suitable for various industries including 3C electronics and automotive accessories.



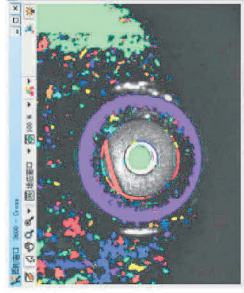
Advantages

- Compatible with various types, lengths, and specifications of screws.
- Accurate control of downward pressure.
- Efficient tightening controlled by servo motor.
- Real-time monitoring of abnormal tightening conditions such as floating pins, stripped threads, and missed fastenings.

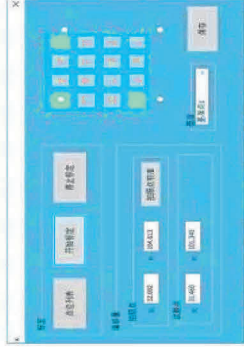
Technical Parameters

Model	TR10-1310C	
Payload	10kg	
Arm Reach	1310mm	
Body Weight	43kg	
Rated Power	3.5kw	
Max Speed	J1	120°/s
	J2	120°/s
	J3	120°/s
	J4	180°/s
	J5	180°/s
	J6	180°/s
Max Operation Area	J1	±175°
	J2	±175°
	J3	-245°~+65°
	J4	±175°
	J5	±175°
	J6	±360°
IP Rating	IP54/IP67	
Position Repeatability	±0.05mm	
Working Temperature	0~45°C	
※ This precision applies to the Turin Intelligence series.		

Applications



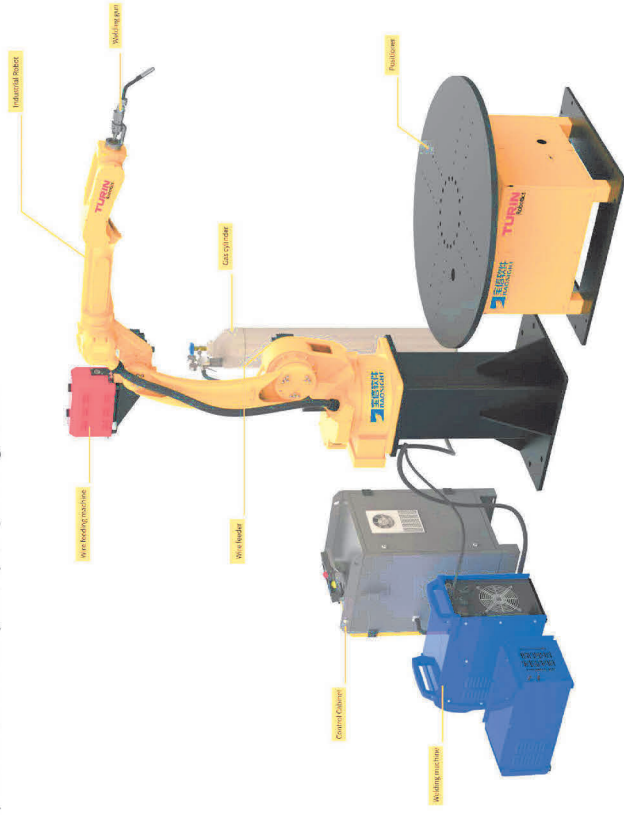
Camera for hole recognition



Calibration interface

Turin Welding Robot Workstation

The welding package is a system integrated with components such as robotic arms, welding guns, control systems, vision systems, and safety devices, aiming to achieve efficient operation of automated welding production lines. These robots perform welding operations with precise posture and speed, while the vision system detects the welding area to ensure welding quality. The control system provides precise control over robot motion and welding processes, while data recording and analysis functions help optimize production efficiency and quality management.



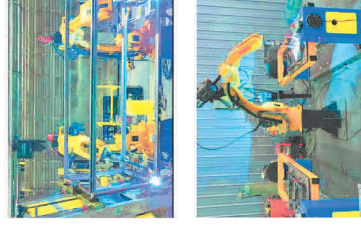
Advantages

- Fully Chinese interface, user-friendly for operation.
- The entire process from arc initiation to welding and arc termination can be precisely controlled.
- Offline simulation and programming.
- Contact positioning and laser positioning.
- Arc tracking and laser tracking.
- 2D visual guidance and 3D visual guidance.

Technical Parameters

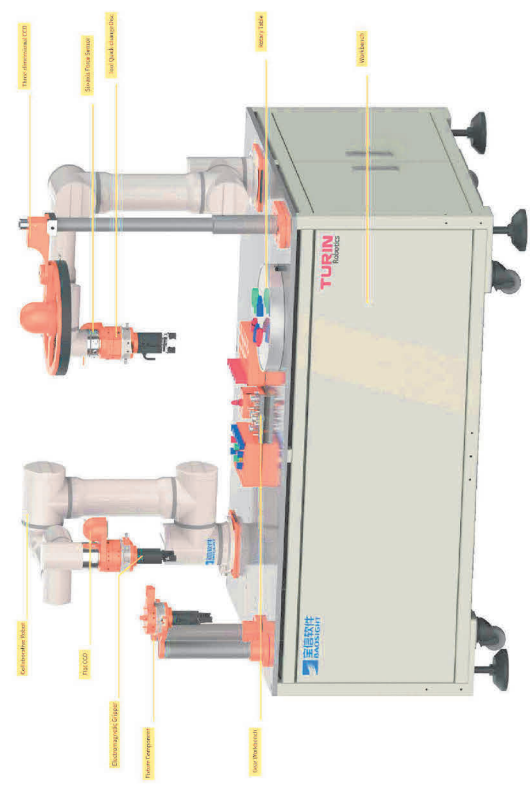
Model	TR06-2070B/ARC	
Payload	6kg	
Arm Reach	2078mm	
Body Weight	210kg	
Rated Power	4.3kw	
Max Speed	J1	168°/s
	J2	148°/s
	J3	160°/s
	J4	330°/s
	J5	450°/s
	J6	700°/s
Max Operation Area	J1	±160°
	J2	-90°~+150°
	J3	-100°~+80°
	J4	±190°
	J5	±130°
	J6	±360°
IP Rating	IP54	
Position Repeatability	±0.05mm	
Working Temperature	0~45℃	
※ This precision applies to the Turin Intelligence series.		

Application Scenario



Turin Assembly Robot Workstation

Mechanical arm force-controlled assembly is one of the applications of robotics. This technology can be applied to gear reducer assembly, insertion and extraction of electronic devices, deburring and polishing of mechanical components, and more. It can significantly reduce production costs, improve efficiency, and enhance production quality.



Demonstration Process

- Collaborative robots grasp gear A according to the gear information provided by the CCD;
- Place the first gear on the gear workstation, and repeat the process of grasping gear B;
- The collaborative robot first visually captures the tooth tip of the first gear, obtains its position information, and then places the second gear grabbed to the corresponding position of the first gear;
- During the placement process, the collision force is collected by force control sensors, and the angle of gear B is adjusted repeatedly to achieve precise gear assembly.

Technical Parameters

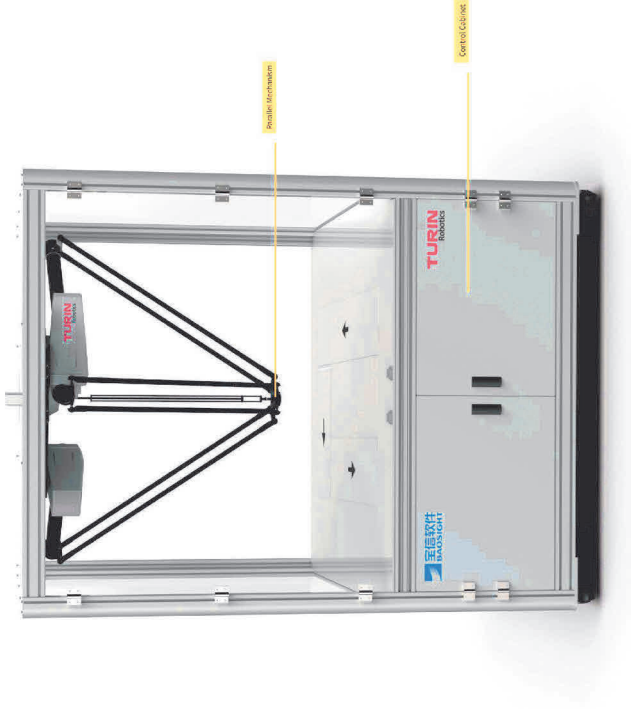
Model	TRI0-1310C	
Payload	10kg	
Arm Reach	1310mm	
Body Weight	43kg	
Rated Power	3.5kw	
Max Speed	J1	120°/s
	J2	120°/s
	J3	120°/s
	J4	180°/s
	J5	180°/s
	J6	180°/s
Max Operation Area	J1	±175°
	J2	±175°
	J3	-245°~+65°
	J4	±175°
	J5	±175°
	J6	±360°
IP Rating	IP54/IP67	
Position Repeatability	±0.05mm	
Working Temperature	0~45°C	
※ This precision applies to the Turin Intelligence series.		

Advantages

- Flexibility: The workstation is designed to be flexible, suitable for the assembly of gears of different sizes and types, utilizing adjustable fixtures and supports.
- Automation: The workstation is equipped with automation equipment, such as mechanical arms and sensors, to enhance production efficiency and assembly quality.
- Intelligent control: Integrated intelligent control systems monitor and automatically adjust the assembly process, ensuring stability and accuracy.
- Human-machine collaboration: Supporting human-machine collaboration, combining human operator skills with machine precision to achieve efficient gear assembly.

Turin Parallel Robot Workstation

This equipment features a parallel three-plus-one axis system that allows for movement and rotation in three-dimensional space, enabling quick picking, tracking, and placing of workpieces. It is suitable for use in the food, pharmaceutical, automotive, and chemical industries.



Advantages

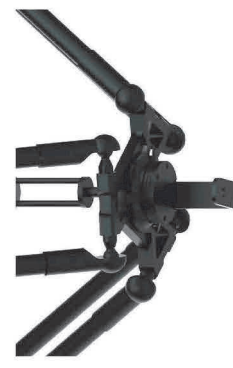
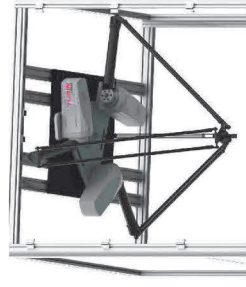
- **Simple Operation:** The parallel robot features flexible programming capabilities, enabling it to complete tasks quickly and accurately, significantly enhancing efficiency and accuracy compared to traditional manual operations.
- **High Adaptability:** With its high flexibility and adaptability, it can handle various complex environments and production tasks.
- **Broad Future Prospects:** This workstation is expected to be applied in more fields in the future, such as agriculture, industry, and environmental protection.

Technical Parameters

Model	DLT-4D-1600		
DOF	3+1		
Arm Reach	1600mm		
Maximum Pick Height	720mm		
Payload	5kg		
Maximum Load	8kg		
Position Repeatability	XYZ(mm) ± 0.1		
Position Repeatability	R $\pm 0.1^\circ$		
Rotational Axis	$\pm 360^\circ$		
Standard Cycle Time (cycles per minute)/25-305-25	185		
Active Arm Angle Range - Upward Swing	30°		
Active Arm Angle Range - Downward Swing	-85°		

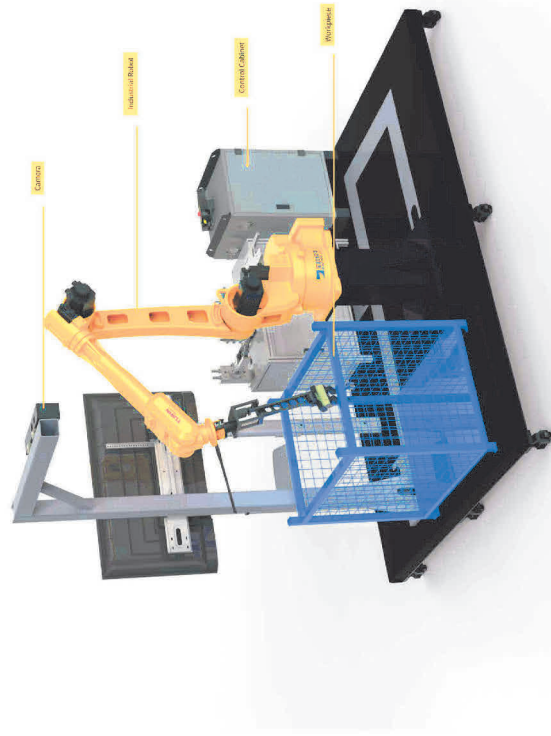
※ This precision applies to the Turin Intelligence series.

Equipment Introduction



Turin Track Link 3D Vision Grasping Workstation

This equipment is mainly used in processes such as double-sided milling of track link blanks, involving the use of industrial robots for unordered grasping and handling, loading under 3D vision guidance; accurately identifying randomly stacked track link segments in baskets, calculating grabbing sequence and angles in real-time, and achieving stable grasping from baskets.



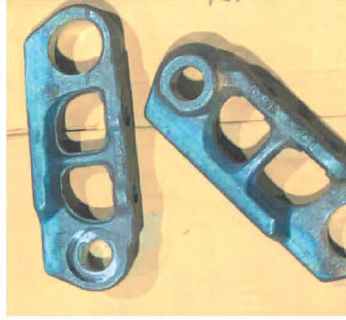
Advantages

- Can generate high-quality point clouds for track link segments with dark surfaces and complex structures;
- Intelligent AI algorithms effectively deal with complex situations such as random stacking and baskets;
- Professional engineering design effectively addresses typical issues such as corner jams and edge sticking, greatly improving the bin-clearing rate;
- Widely used in industries such as engineering machinery, automotive parts, household appliances, steel, and machine tools.

Technical Parameters

Model	TR30-1920B	
Payload	30kg	
Arm Reach	1920mm	
Body Weight	220kg	
Rated Power	5.2kw	
Max Speed	J1	186°/s
	J2	170°/s
	J3	200°/s
	J4	452°/s
	J5	330°/s
	J6	450°/s
Max Operation Area	J1	±160°
	J2	-80°~150°
	J3	-100°~85°
	J4	±150°
	J5	±110°
	J6	±360°
IP Rating	IP54//IP67(5&6 axes optional)	
Position Repeatability	±0.05mm	
Working Temperature	0~45°C	
※ This precision applies to the Turin Intelligence series.		

Applications



Turin Robotics

No.1 in the steel industry

Turin Robotics is the first in China to extensively utilize bus-type industrial robot controllers. Its industrial robot servo drive and control technology are independently developed, stemming from 45 years of accumulated expertise in mechanical design for industrial robots and related equipment. We continuously enhance and expand our process software packages to suit various scenarios, while providing ongoing training and optimization for existing process software packages

100+

Available products

1000 +

Global Clients

40000+

Robot Sold

50000+

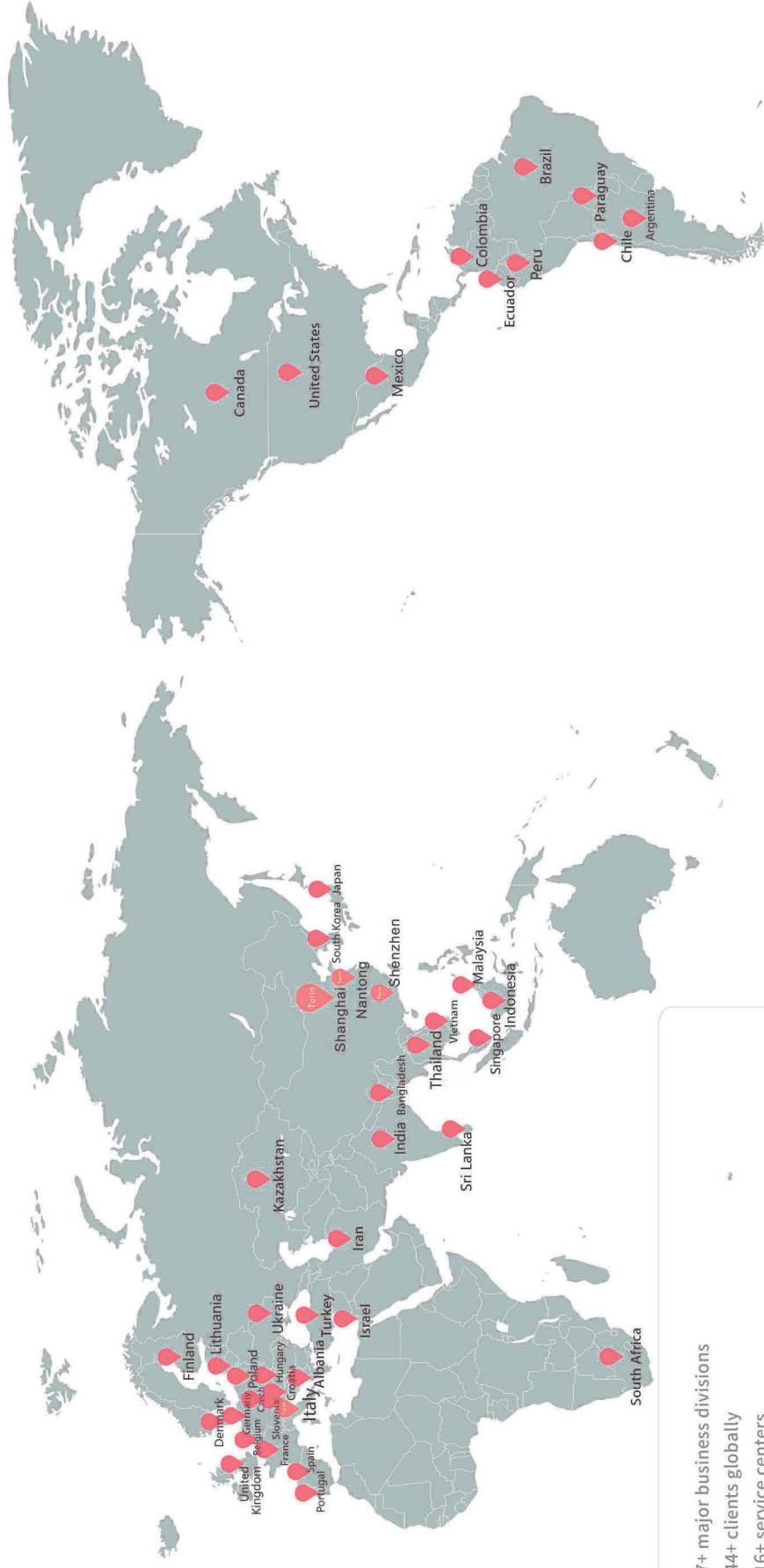
Annual Production Capacity

100+

Intellectual Property Rights

2200+

Applications Covered



7+ major business divisions
44+ clients globally
16+ service centers
Established R&D and production bases in Shanghai and Italy

Turin Global Business

Turin Offices