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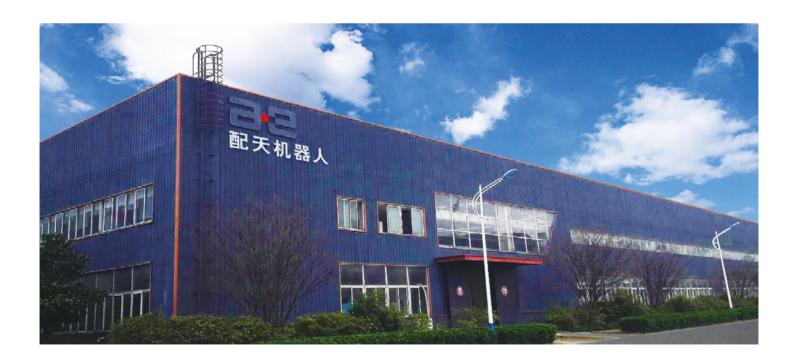
ABOUT US



COMPANY PROFILE

Peitian Robotics Co., Ltd. (Peitian Robotics), based in the high-tech zone of Bengbu, Anhui Province, is a provider of robots, associated components and enterprise level automatic and flexible manufacturing solutions. Peitian Robotics is part of the TATFOOK A&E Group. Responsible for sales, maintenance, tech support, training and production of industrial robots and their core parts (servo drives, motors etc.), Peitian Robotics also provides robot control systems and solutions, robot application solutions, complete sets of automatic equipment, automated production lines and flexible manufacturing devices and systems. With a total investment of 50 million yuan RMB and a plant construction area of 18400 square meters, the annual output of Peitian Robotics can reach 5000 robots.

Peitian Robotics has three R&D centers in Beijing, Anhui and Shenzhen, over 200 research experts and more than 700 patents. 75% of the experts hold postgraduate degrees, and 5% have PhDs. These experts also make up 16% graduated from Tsinghua University, 5% from Peking University and 3% from prestigious universities abroad.



GROUP INTRODUCTION

TATFOOK A&E Group is a large group corporation involved in various industries such as high-end manufacturing, intelligent equipment, health preservation and so on. The Group has 12 manufacturing bases and 6 R&D centers in Beijing, Shanghai, Guangdong, Anhui, Inner Mongolia, Sichuan and Guizhou, with plant area of about 1.2 million square meters. TATFOOK A&E Group possesses several listed companies like SHENZHEN TATFOOK TECHNOLOGY CO., LTD. and SHENZHEN A&E INTELLIGENT EQUIPMENTS CO., LTD.. TATFOOK A&E Group endeavors to be a leading design, manufacturing and total solution provider in precision electro-mechanical components and products, industrial machine tools, end-to-end network industrial technologies. While exploring

the advances in manufacture world, the Group are also an element of sustainable development and an environment-friendly enterprise on the Chinese principle of nature-human balance.





R&D CENTER

Beijing R&D Center

Beijing R&D Center was established in 2010, awarded by the government as "National High-Tech Enterprise". It mainly engages in the design and development of industrial robots, CNC systems, servo control systems and the core technologies of electric vehicles. Beijing R&D Center has strong technological development force and professional R&D team, most of which graduated from the prestigious universities and 90% of which with postgraduate degrees.

Shenzhen R&D Center

Established in 2011, Shenzhen R&D Center aims at making the better intelligent products. It provides industrial robots, high-end CNC machine tools, servo systems and other intelligent equipment and solutions.

Bengbu R&D Center

Bengbu R&D Center concentrates its business on customized precision equipment and automated production lines. It targets at high-end products, providing clients with continuous technical service and support.

KUNSHAN OFFICE

The Kunshan Office, located in Tsinghua University Science Park of Kunshan, Jiangsu Province, is committed to the sales ,maintenance, tech support and training of industrial robots and their core parts, at any time to provide quality services to customers.

INDUSTRIAL PARK

Located in the high-tech zone of Bengbu, Anhui Province, Anhui TATFOOK heavy industrial park has neat gardenstyle plant buildings and standard large-span production workshops. To meet the customers' high demand, it continuous imports world-class equipment to expand production

capacity and enhance products quality. To ensure the quality of each product and be responsible for the clients, Peitian Robotics drew up a set of strict procedures of manufacturing with test standards corresponding to each step, which could ensure every process before the product leaving the factory meets high standards and strict requirements, thus customer satisfaction is assured.











CULTURE

MISSION

In collaboration with our customers and partners, the company integrates its unique capabilities and advantages for the better service to our customers to ensure the maximization of the company value. The company grows with China's equipment manufacture industrial and builds a solid foundation from made-in China to created-in-China.

CORE VALUES

We continue to ensure our strategies and actions following the objective laws, and dedicate our efforts on scientific innovation. The company aims to be the industry leader and seek long-lasting sustainable development with our core competence, sincere collaboration and strong teamwork.

VISION

Aim to be a world leading provider on industrial machine tools, intelligent precision electromechanical products, so as to provide end-to-end network industrial technology and solutions.



HONOR



AWARD

Since its establishment, Peitian Robotics has won more than 30 awards with its high standards and strict requirements for products



Application Innovation Award AIR6L-A



Technical Innovation Award



Best Popularity Product Award



Best Industrial Design Award AIR6-A



Excellent Robotic Brand Award



Technology Innovation Award



Intelligent Integration Award



Most Innovative Product Award AIR6L-A



2015 Golden Globes Award



2016 Golden Globes Award



2017 Golden Globes Award



2018 Golden Globes Award





Peitian Robotics holds over 700 patents [about 300 PCT international patents] and over 40 software copyrights



























PARTICIPATE IN ESTABLISHING NATIONAL STANDARDS

Peitian Robotics has been involved in the development of more than 30 national standards

- · Life-cycle risk assessment method for industrial robots.
- · Performance evaluation and testing methods for industrial robot control program.
- · Reliability requirements and test methods for mechanical environment of industrial robots.
- · Test method and limit of robot noise.
- · Electromagnetic compatibility design specification for industrial robots.
- · XML standard for industrial robot software development platform.
- · Date exchange specification for industrial robot cloud service platform.
- · General technical requirements for flexible control of industrial robots.
- · Integration technical conditions for machine vision of industrial robots.
- · Universal driver module interface standard for industrial robots.

PRODUCTS



INDUSTRIAL ROBOT

The more advanced, more precise and safer industrial robots



	Туре	AIR3SC400-A	AIR6SC600-A	AIR3-A	AIR6L-A	AIR7L-B	AIR8-A	AIR6ARC-A	AIR10-A	AIR20-A	AIR50-A	AIR165-A
Axes		4	4	6	6	6	6	6	6	6	6	6
Р	ayload	3Kg	6 Kg	3Kg	6Kg	7Kg	8Kg	6Kg	10Kg	20Kg	50Kg	165Kg
N / :	Weight	14.4Kg	20.1Kg	23Kg	47Kg	53Kg	45Kg	120Kg	160Kg	260Kg	550Kg	1200Kg
Manipulato	Reach	400mm	600mm	560mm	920mm	920mm	710mm	1450mm	1420mm	1702mm	2238 mm	2750mm
Positioning	Position	Axis 1 + ±0.01mm Axis 2	Axis 1 + ±0.015 mm Axis 2	±0.02mm	±0.02mm	±0.02mm	±0.02mm	± 0.06mm	± 0.02mm	±0.03mm	±0.06mm	±0.1mm
accuracy	repeatability	Axis 3 ±0.01mm	Axis 3 ±0.01mm	_0.02	_0.02	_0.02	_0.02	_ 0.00	_ 0.02	_0.00	_0.00	
		Axis 4 ±0.005°	Axis 4 ±0.005°									
Ingres	s Protection	IP20	IP20	IP65	IP65	IP67	IP65	IP54	IP54 (Wrist:IP67)	IP54 (Wrist:IP67)	IP54 (Wrist:IP67)	IP54
M	Mounting Floor		Floor	Floor Wall Ceiling	Floor Wall Ceiling	Floor Wall Ceiling	Floor Wall Ceiling	Floor	Floor Ceiling	Floor Ceiling	Floor	Floor
	*Axis 1 rotation	-136°/+136°	-136°/+136°	-170°/+170°	-170°/+170°	-170°/+170°	-170°/+170°	-170°/+170°	-170°/+170°	-170°/+170°	-185°/+185°	-170°/+170°
	Axis 2 arm	-141°/+141°	-150°/+150°	-110°/+120°	-100°/+135°	-100°/+135°	-100°/+135°	-95°/+155°	-85°/+150°	-95°/+155°	-35°/+145°	-60°/+85°
Working	Axis 3 arm	150mm	200mm	-108°/+152°	-120°/+156°	-120°/+156°	-120°/+156°	-120°/+180°	-95°/+170°	-95°/+170°	-120°/+170°	-120°/+155°
range	Axis 4 wrist	-360°/+360°	-360°/+360°	-200°/+200°	-200°/+200°	-200°/+200°	-200°/+200°	-155°/+155°	-195°/+195°	-185°/+185°	-350°/+350°	-360°/+360°
	Axis 5 bend			-118°/+118°	-135°/+135°	-135°/+135°	-135°/+135°	-120°/+120°	-135°/+135°	-135°/+135°	-120°/+120°	-125°/+125°
	Axis 6 turn			-350°/+350°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-400°/+400°	-360°/+360°	-360°/+360°
	Axis 1 rotation	600°/s	400°/s	450°/s	380°/s	380°/s	380°/s	230°/s	200°/s	175°/s	180°/s	125°/s
	Axis 2 arm	600°/s	650°/s	450°/s	325°/s	320°/s	350°/s	230°/s	200°/s	175°/s	180°/s	113°/s
Rotation	Axis 3 arm	1100mm/s	1100mm/s	525°/s	390°/s	390°/s	480°/s	230°/s	200°/s	170°/s	180°/s	125°/s
rate	Axis 4 wrist	2600°/s	2300°/s	600°/s	480°/s	490°/s	490°/s	430°/s	370°/s	360°/s	260°/s	180°/s
	Axis 5 bend			600°/s	550°/s	565°/s	565°/s	430°/s	370°/s	360°/s	255°/s	175°/s
	Axis 6 turn			800°/s	800°/s	815°/s	815°/s	630°/s	600°/s	600°/s	370°/s	280°/s
Co	ntrollers	inCube2S	inCube2S	inCube10/20/2	inCube10/21	inCube 20	inCube10/21	inCube20	inCube10/21	inCube12	ARC4-50	ARC4-165

If the mechanical limit is removed, the working range can reach -180° /+180° $\,$



ROBOT CONTROL SYSTEM



Equipped with the system software ARCS with independent propetry rights, the robot controller developed by Peitian, perfectly meets the demands for higher speed, higher precision and higher reliability of the robot, thus provides more accurate trajectory control and higher production efficiency for customers.

Туре	inCube2S	inCube10	inCube12	inCube20	inCube21	ARC4-50	ARC4-165
Robots Applicable	AIR3SC400/ 6SC600-A	AIR3/6L/8/10-A	AIR20-A	AIR3/7L/6ARC-A	AIR3/6L/8//10-A	AIR50-A	AIR165-A
Dimension (Width×Height×Depth)	364×135×283 (mm)	445×223×500 (mm)	445×223×500 (mm)	420×133×472 (mm)	420×133×472 (mm)	666×1002×553 (mm)	800×1170×593 (mm)
Weight	11kg	30kg	35kg	22kg	22kg	200kg	270kg
Protection	IP20	IP20	IP20	IP20	IP20	Front IP54 Rear IP23	Front IP54 Rear IP23
Temperature range	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~40°C	0~40°C
Power supply	Single-phase 220VAC -10%~+10% 49~ 61Hz	Single-phase 220VAC -10%~+10% 49~61Hz	Single-phase 220VAC -10%~+10% 49~ 61Hz	Single-phase 220VAC -10%~+10% 49~ 61Hz	Single-phase 220VAC -10%~+10% 49~61Hz	Three-phase 380VAC -10%~+10% 49~ 61Hz	Three-phase 380VAC -10%~+10% 49~ 61Hz
Max. input power	2.2KVA	2.2KVA	3.5KVA	2.2KVA	2.2KVA	7KVA	13KVA



SCARA ROBOT



AIR3SC400-A



AIR6SC600-A

T	AIR3SC400-A	AIR6SC600-A				
Д	4	4				
1	Rated load	1Kg	2Kg			
Load	Limiting load	3Kg	6Kg			
Allowable moment of inertia	Rated inertia	0.005 Kg·m²	0.01Kg·m²			
of J4	Limiting inertia	0.05 Kg·m²	0.12Kg·m²			
Maniaulatau	Weight	14.4Kg	20.1Kg			
Manipulator	Reach	400mm	600mm			
	Axis 1+Axis 2	±0.01mm	±0.015mm			
Position repeatability	Axis 3	±0.01mm	±0.01mm			
	Axis 4	±0.005°	±0.005°			
Ingress	Protection	IP20	IP20			
Mou	ınting	地装 Floor	地装 Floor			
	Axis 1	-136°/+136°	-136°/+136°			
AA7 1:	Axis 2	-141°/+141°	-150°/+150°			
Working range	Axis 3	150mm	200mm			
	Axis 4	-360°/+360°	-360°/+360°			
	Axis 1	600°/s	400°/s			
	Axis 2	600°/s	650°/s			
Rotation rate	Axis1+Axis2	6000mm/s	7300mm/s			
	Axis 4	1100mm/s	1100mm/s			
	Axis 5	2600°/s	2300°/s			
Small arm interface	Electrical interface	20x10	20x10			
Small arm interrace	Air plug interface	2хф6	2хф6			
Cont	inCube2S	inCube2S				
Mounting conditions	Ambient temperature: $0{\sim}40^{\circ}C$ Humidity: not more than 85% at constant temperature without condensation. Allowable altitude: not more than 1000m above sea level.					

ADVANCED FUNCTIONS



Hand guiding function



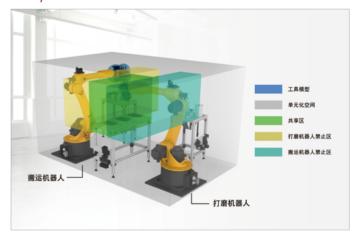
External axis linked control function



High absolute positioning accuracy



Safety zone control function



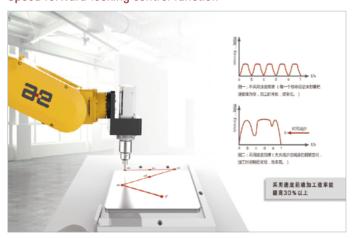
Collision detection function



Conveyor tracking function



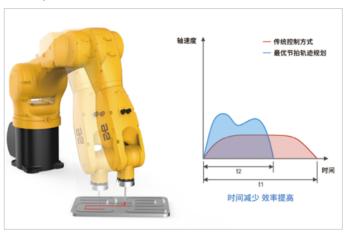
Speed forward-looking control function



Spiral interpolation function



Time-Optimal



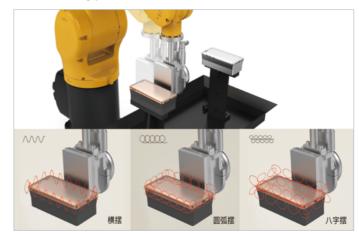
Path-Invariant



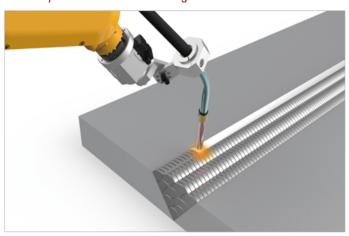
Singularity avoidance function



Various swing paths



Multi-layer multi-channel welding



Soft Move function



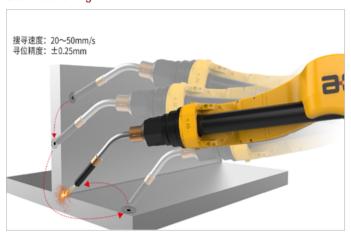
Bending follow function



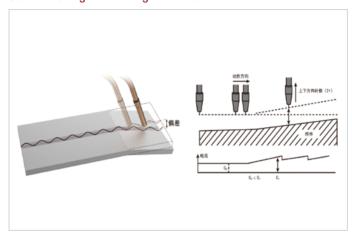
Palletizing function



Seam searching



Seam tracking with swing arc sensor



Path memory



Path transformation function



SE

SERVO SYSTEM



- ·High dynamic response
- ·High resolution, more precise position control
- ·High speed, high overload
- ·Multiple vibration suppression functions
- ·Multiple built-in observers
- ·Lower heat generation and longer service life
- ·Support EtherCAT bus control

SERVO DRIVE





The company grandly launches its high-performance industrial products, AE5000 series servo drives, adopting the SVPWM control technology and ARM+FPGA system architecture, with the characteristics of high reliability, high dynamic response and high control precision. The series of products are widely used in the industrial robots, CNC machine tools, automation plane equipment and other applications.

- AE5110 Series_Analog/Pulse
- AE5115 Series_EtherCAT

Model	R90A1B	2R8A1B	5R5A1B	7R6A1B	120A1B	150A1B	200A1B	330A1B			
Main circuit		AC Single/3-phase 220V, 50/60Hz									
Control circuit				AC Single phas	e 220V, 50/60Hz						
Rated power(kW)	0.1	0.4	0.75	1.0	1.5	2.0	3.0	5.0			
Single-phase input current(Arms)	1.2	3.6	6.5	11.9							
Three-phase input current(Arms)	0.7	2.1	3.4	4.8	7.3	10.5	14	24			
Rated output current(Arms)	0.91	2.8	5.5	7.6	11.6	15.4	19.6	32.9			
Maximum output current(Arms)	2.9	9.3	17	18	28	37	56	84			
Overload factor	350%	350%	350%	350%	300%	300%	300%	300%			
Built-in regenerative resistance valule (Ω)			50	50	30	30	20	12			
Built-in regenerative resistance power(W)			50	50	100	100	400	400			
Minimum value of external regenerative resistance (Ω)	40	40	40	40	20	20	10	10			
Wire diameter of external regenerative braking(mm²)			1		2			3			
Size H*W*D(mm)	42*160*148	42*160*148	50*160*170	90*160*180	90*160*180	90*160*180	100*180*187	110*250*210			
Weight(kg)	0.92	0.92	1.6	2.0	2.0	2.0	3.2	5.0			

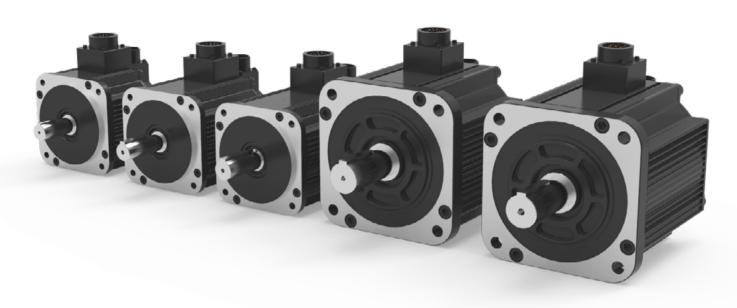




AE1000 series AC servo motors have the advantages in high power density performance and electromagnetic performance, which adopt unique motor structure design technology with independent intellectual property rights owned by the company,

and various performance indexes have reached the international advanced level. This series of motors are widely used in industrial robots, CNC machine tools, packaging machinery, printing machinery, and other automated production lines.

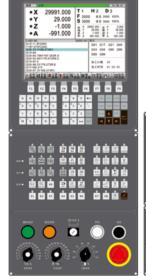
Servo mot (220		Rated power (W)	Rated torque (N·m)	Rated current (A)	Peak torque (N·m)	Maximum current (A)	Rated speed (RPM)	Maximum speed (RPM)	Rotor moment	Encoder	Weight (Kg)		
	0401	100	0.318	0.84	1.114	3.2			0.061 (0.063)		0.43 (0.62)		
Medium	0602	200	0.637	1.65	2.23	6.5	3000	0000	2000		0.252 (0.259)	20 bis ADC	0.78 (1.26)
inertia	0604	400	1.27	2.8	4.44	11.6				6500	0.461 (0.468)		1.26 (1.74)
Low- capacity	0606	600	1.91	4.2	6.68	15.5			0.655 (0.661)	20-bit ABS.	1.6 (2.08)		
(AE1L-)	8080	750	2.39	5	8.36	18						1.65 (1.73)	
	0810	1000	3.18	6.6	11.14	23.8		6000	2.16 (2.22)		3.04 (3.92)		



	otor model 20V)	Rated power (W)	Rated torque (N·m)	Rated current (A)	Peak torque (N·m)	Maximum current (A)	Rated speed (RPM)	Maximum speed (RPM)	Rotor moment	Encoder	Weight (Kg)			
	1309	850	5.39	7.1	14.2	17	1500		11.67 (12.11)		7.8 (9.1)			
	1313	1300	8.28	9.5	23.3	28	1500		17.2 (17.8)		9.08 (10.5)			
	1315	1500	7.16	8.21	20.1	24	2000		17.2 (17.8)		9.08 (10.5)			
Medium inertia	1318	1800	11.46	13.2	42	48	1500		25.32(25.72)	25.32(25.72)		10.5 (11.6)		
Medium-	1320	2000	9.55	14.5	28.7	44.2	2000		2000	2000	3000	17.2 (17.8)	17-bit ABS.	9.38 (10.5)
capacity (AE1M-)	1330	3000	14.3	16.5	43	50				25.32(25.72)		10.5 (11.6)		
, ,	1829	3000	19.1	24.5	45.1	56			1500		44.76 (51.49)		17.5 (19.5)	
	1844	4400	28.4	32.9	71.1	87	1500		66.58(73.26)		21.5 (23.5)			
	1850	5000	23.8	27.65	60.43	73.9	2000		66.58 (73.26)		21.5 (23.5)			
	045A	50	0.159	0.55	0.557	2.0			0.040[0.043]		0.30[0.52]			
High inertia Low-	065A	50	0.159	0.87	0.556	3.62		0500	0.094 (0.101)	20-bit ABS.	0.42(0.62)			
capacity	0601	100	0.318	0.98	1.113	4.78	3000	0 6500	0.146 (0.153)		0.5 (0.77)			
(AEIF-)	(AE1F-) 0804 400 1.27	2.8	4.44	11.6			0.96 (1.018)		1.94 (2.82)					

CNC SYSTEM











AE6100 AE8100

AE8100 has been strictly tested over a prolonged period of time in industrial field, the accuracy and stability of Peitian CNC systems have been proved. The applications of CNC system have covered full range of controllers for lathe, drilling, boring, engraving and milling machines, machining center and so on.

- AE6100 Series
- AE8100 Series

Model	AE6100				
The number of control channels	1				
The axis control method	Speed and position control				
Controlled Axis Number	8				
Compounding axis	Five-axis linkage, support RTCP				
Spindle control	Frequency spindle/Servo spindle control, Rigid tapping supported				
Minimum command unit/control unit	0.1µm 0.001µm				
Maximum programming size	±9999.999mm				
Interpolation period	125µs, 250µs, 500µs, 1000µs (Configurable)				
Max. feeding speed/ Feeding speed	128m/min 60m/min				
Feed rate/Manual feed ratio	0 130% Sixteen-level Real-time Adjustment				
Spindle override	50 120% Eight-level Real-time Adjustment				
Display interface	6.4/10.4"True color TFT LCD				
Tool magazine management	Turntable magazine, rotary disc magazine, insert the arm magazine, user-defined magazine				
Tool control	Hydraulic, electric, servo, row type				
PLC function	Open PLC				
Interpolation method	Straight line, arc, helix, spline				
Reference point	Automatic, manual				
Alarm function	Emergency stop, soft/hard limit detection, custom alarm				
Inch/metric conversion	Support				
Machine control	Feed hold, block skip, skip function, program protect				
Input/output	60/40				
Program edit	Absolute/relative programing, decimal point programming, diameter/radius programming				
Drive configuration	AC / DC servo				
Other functions	Constant surface speed control, torque compensation, adaptive prefetching, power-off data retention, fixed cycle / sub-program call, automatic centering				

型号 Model	AE8100AM	AE8100DM				
The number of control channels	1	6				
The axis control method	Position control (pulse command)	RTEX bus, EtherCAT bus				
Controlled Axis Number	4	64				
Compounding axis	There-axis linkage	Five-axis linkage, support RTCP				
Spindle control	Frequency spindle/Servo spindle	e control, Rigid tapping supported				
Minimum command unit/control unit	1µm	0.1µm				
Maximum programming size	±9999	.999mm				
Interpolation period	125µs, 250µs, 500µs,	, 1000µs (Configurable)				
Max. feeding speed/ Feeding speed	128m/mir	n 60m/min				
Feed rate/Manual feed ratio	0 150% Sixteen-leve	el Real-time Adjustment				
Spindle override	50 120% Thirteen-lev	vel Real-time Adjustment				
Display interface	6.4/10.4"True	color TFT LCD				
Tool magazine management	Turntable magazine, rotary disc magazine, insert the arm magazine, user-defined magazine					
Tool control	Hydraulic, electri	ic, servo, row type				
PLC function	Ope	n PLC				
Interpolation method	Straight line, a	arc, helix, spline				
Reference point	Automat	ic, manual				
Alarm function	Emergency stop, soft/hard l	limit detection, custom alarm				
Inch/metric conversion	Sup	pport				
Machine control	Feed hold, block skip, skip	o function, program protect				
Input/output	64/48	256/256				
Program edit	Absolute/relative programing, decimal point	t programming, diameter/radius programming				
Drive configuration	AC/D	C servo				
Other functions	Constant surface speed control, torque compensation, adaptive prefetching, power-off data retention, fix cycle / sub-program call, automatic centering					



MACHINE VISION

ARVS1000 is a generic visual processing software platform, with over 170 visual tools of high efficiency, high precision and high robustness, which could meet all the needs of the manufacturing lines, such as guidance, positioning, inspection and measurement. The software can be widely used in various aspects of industrial robots, vehicles, semiconductors, electronics, food and beverage, pharmacy, daily chemicals, packaging, logistics, printing, medical facilities, glass and metal.





01

Over 170 tools

02

Strong robustness against illumination, blur, noise, overlap and complex background

03

Sub-pixel accuracy 1/25

04

Processing speeds of key algorithms at millisecond level

05

Offline simulation supported

06

Dragging and dropping toolkits to configure your own visual task without programming

07

Multi-brands cameras supported (Basler, PointGrey etc.)

80

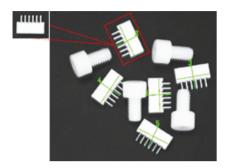
Multi projects management (monitoring, data transfer and switching between projects)

09

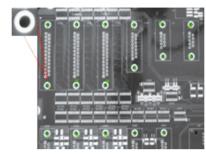
Multi Communication protocols supported (TCP/IP, TCP/IP Modbus, RS232/485 Modbus etc.). Communications between multi control equipment (robots, PLC, I/O etc.) available



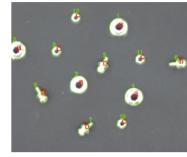




Geometric Matching



Gray-level Matching



Blob Extraction



Barcodes Recognition



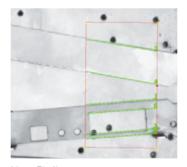
QR Codes Recognition



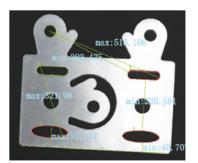
Flaw Detection



Circles Finding



Lines Finding

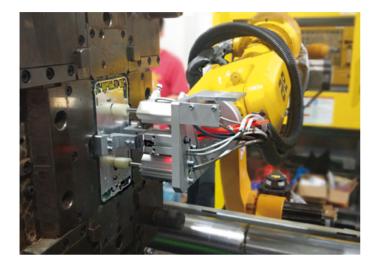


Measurement

SOLUTIONS

Handling / Palletizing / Loading & Unloading

Robot loading & unloading cell for injection molding machine



Robot loading & unloading cell for solder spray



Grinding & Polishing

Grinding and polishing of the phone shell



Grinding and deburring of the filter shell



Welding



Automobile exhaust pipe welding



Automobile parts welding



Assembly





Electronic components assembly





Machine Vision Application

Rapid sorting by vision guided robot



Filter assembly line, visual positioning



Education and Training

Robot technology training platform



2018 Industrial robot technology application competition of Anhui province



Typical Application Cases of Production Line

Passive filter automatic intelligent flexible assembly line



Automatic packaging production line



Press machine loading and unloading production line



Motor assembly automation line



SERVICE

SERVICE NETWORK

South China: Shenzhen, Guangzhou, Dongguan, Zhuhai,

Zhongshan, Foshan, Nanning

East China: Bengbu, Hefei, Nanjing, Suzhou, Shanghai,

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- After-sales Service
- Regular maintenance
- Lifelong maintenance

SERVICE COMMITMENT

Respond within 24 hours.





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Peitian Robotics Programming language primary training

Peitian Robotics Programming language advance training

Peitian Robotics Teaching-programming & operation training

Peitian Robotics Troubleshooting & maintenance training



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