





Company's Official Website



Douyin



AITRON ROBOTICS PRODUCTMANUAL



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YANTAI EDDIE AITRON ROBOTIC TECHNOLOGY CO.,LTD.

COMPANY INTRODUCTION

Yantai EDDIE AITRON Robot Technology Co., Ltd. is a wholly-owned subsidiary of Yantai EDDIE Precision Machinery Co., LTD. (Stock code:603638). The headquarters conducted robot project incubation in June 2015, and EDDIE AITRON Technology officially operated independently in October 2020. Focus on industrial robots and RV reduction Independent research and development, production and sales of fast machine products, is committed to providing customers with complete sets of industrial robots and integrated applications and other automation solutions.

The company headquarters and R & D base are set up in Yantai Free Trade Zone EDDIE intelligent manufacturing Industrial Park (provincial and municipal key construction projects). EDDIE AITRON technology robot project total investment of 1.09 billion yuan, a total land area of 87573m, construction area of 68233.19m, the main construction of RV deceleration mechanism manufacturing line, robot body manufacturing line, technology research and development and experiment center, mobile robot manufacturing line, robot electrical control system key parts of the production line.

Stock Code

603638

More than

20.000 robots

are produced

annually

Annualoutput

of RV reducer

more than

600,000 units

CULTURE

ENTERPRISE

ENTERPRISE VISION

Become a leading domestic and internationally renowned high-tech company

COWE VALUES

Integrity Innovation Win-win

PRODUCT CONCEPT

2024.08

2017.01

We are committed to providing customers with complete sets of industrial robots and integrated applications and other automation solutions

DEVELOPMENT COURSE

2025.06 EDDIE AITRON was awarded the honorary titles of "Green Factory" at the municipal level and "Morning Star Factory" at the provincial level

EDDIE AITRON participated in the World Robot Conference with a four-machine integrated white-body spot welding service and was featured on CCTV

2023.12 AITRON Technology was selected as "High-tech Enterprise in Shandong Province.

2023.11 AITRON Technology industrial robot and Sumeida appeared in Shanghai CIIE.

Altron Technology signed a strategic cooperation agreement with Demagisen.

Altron Technology and Zhichang Group held a strategic cooperation signing

ceremony, and the mass delivery ceremony of 150 210Kg large-load robots was held.

AITRON technology industrial robot for the first time out of the country, sent to South Korea.

2020.10 Established Yantai AITRON Robot Technology Co., LTD.

The robot has successfully achieved mass production, and independently developed and manufactured core components, which have been used in the production lines of many domestic enterprises such as Sany, Doosan, and Jungles.

2017.12 After more than 13,000 hours of performance testing, the robot has reached the quality standards of similar foreign products.

Parent company EDDIE Precision is listed on the Main Board of Shanghai Stock Exchange (stock code: 603638).

2015.06 • EDDIE Robot Business Division was established.



> Controller independent research and development



> Driver independent research and development



- ► Support a variety of model vibration suppression functions;
- Use a common DC bus book form, savingEnergy consumption and space saving;
- ► Work safety technology based on international standards, built-in such as STO, SS1, SS2, SBC, etc.

> Motor independent research and development



> RV reducer independent development





TECHNICAL STRENGTH







Technology platform

- Provincial: Enterprise Technology Center of Shandong Province, High-tech Enterprise of Shandong Province
- Municipal: Innovative development private enterprise of Yantai
- CityJoint development platform: EDDIEPrecision/Tsinghua University/Shandong University/Yantai University joint development platform casting, heat treatment laboratory, quality testing room and simulation test platform

R&D team

- Has a high-quality, highly capable R & D team, there are doctor, master and professor-level senior engineers and other senior technical experts;
- In cooperation with Tsinghua University, Shandong University and other universities, industry experts and technical backbone formed the top R & D team in China;
- Industry-leading simulation R & D tools are used for forward development, and product development strength is
- The core component RV reducer is independently developed and manufactured by Aichuang Technology
- Relying on leading technology such as robot controller, drive, system software platform, to provide customers with the best integrated system solutions.

Process planning

- · High-end, intelligent automated production line to ensure high quality and efficient delivery of products;
- EOL test system, 100% test;
- Highly automated production to ensure product consistency;
- Leading manufacturing process to ensure product quality.

Service guarantee

- Pre-sales, integrated solutions;
- After-sales, professional after-sales service team;
- In sale, technical guidance and structural design;
- 24-hour fast response and convenient service.

PROCESS CHARACTERISTICS



Spot welding process

- Graphical interface design, simple operation;
- Support a variety of brands of servo welding pliers, Pneumatic welding pliers, flexible configuration;
- High-performance dynamic control and t rajectory planning algorithm to improve accuracy and tempo.



Stamping technology

- The interface is simple to use, and the process configuration is flexible;
- Based on industrial fieldbus, realize multiple machines Human communication;
- Safety detection mechanism to ensure safe communication between robots and equipment;
- High-performance dynamic control and trajectory planning algorithm to improve accuracy and tempo.



Arc welding process

- Support CAN, EtherCAT, Modbus RTU/TCPAnd other communication methods;
- Support collision detection, welding monitoring, a variety of swing welding, discontinuityWelding, intersecting line, multi-station reservation and other advanced functions;
- Support laser and position finding functions, which can realize the robot's accurate positioning and real-time tracking of welds.



Spraying technology

- Graphical interface design, simple operation.
- Plan the spray path to ensure uniform and efficient coating and reduce production time.
- ◆ It allows users to conduct offline simulation on the computer before actual production, saving production line downtime and improving production efficiency.
- The integrated vision system is able to detect the shape and features of the workpiece surface to ensure that the robot can accurately track and spray the target area.



Palletizing process

- ◆ Graphical interface design, simple and efficient operation.
- Support simple and complex two modes, more open function, higher flexibility.
- New speed planning, greatly improve the running time, improve production capacity.
- Drag and drop Settings, users can manually drag the workpiece on the screen, saving programming time and improving efficiency.

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AT700R2832

APPLICATION SCEARIOS

Handling, welding, riveting, palletizing

PRODUCT CHARACTERISTICS

Peculiarity

- 01. Strong load capacity: It can carry up to 700kg of heavy objects, with enhanced wrist load capacity, effectively handling, stacking, loading or unloading large and heavy components
- 02. Wide range of motion: With a large working space and a long arm span of up to 2832mm, it can easily handle large structural components or car bodies, etc., meeting the operational requirements of various large workpieces
- High precision and rigidity: It features outstanding precision and rigidity. Even under maximum load and maxim-um extension conditions, the robot can still maintain excellent repeat positioning accuracy

PRODUCT PARAMETERS

Project	Parameter	
Wrist load rating(Kg)		700
Maximum working radius	(mm)	2832
Freedom of motion		6
	J1	80
	J2	80
	J3	80
Rated load speed (°/s)	J4	100
	J5	100
	J6	160
	J1	±180
	J2	- 90~+64
	J3	-130~+30
Joint range of motion (°)	J4	± 360
	J5	±122
	J6	±360
Allowable load	J4	3400
torque(N·m)	J5	3400
	16	1725

Project		Parameter
Allo w negative	J4	1098
mom ent of inertia	J5	1098
(Kg·m²)	J6	444
IP level	noumenon	IP54
II level	wrist	IP65
Body weight(Kg) Repeat positioning accuracy(mm) Installation method		2800 ±0.1 ground, ceiling
	Ring wall temperature /humidity (Dew free)	0~45°C/20-85%RH (Dew free)
Installation	Vibration value	Less than 0.5g
environment	Lessthan 0.5g Other	Keep away from corrosive gases or liquids or explosive gases; Keep away from water, oil and dust; Keep away from electrical interference sources.

FRC3.1 CONTROL CABINET

Ompact structure, light weight, flexible installation, the use of separate module design, easy to disassemble structure, easy maintenance.



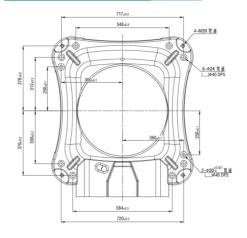


PRODUCT PARAMETERS

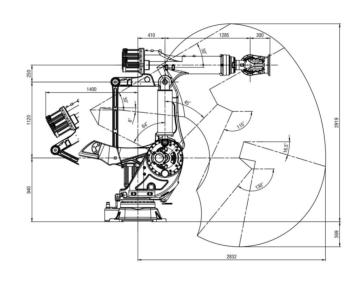
Overall dimensions (width * depth * height)	800mm*550mm*970mm
Weight	170Kg
Class of protection	IP54
Number of axes	6

PRODUCT PARAMETERS		
Heavy-duty cable length	7m	
Input power supply	380V 3AC (+10%, -15%)	
Power capacity(Max.)	41KVA	
Ambient temperature/humidity	0~45°C/20~85%RH(Dewfree)	
Vibration	0.5G (4.9m/s²)以下	
Standard communication interface	Modbus、ModbusTCP、EtherCAT	
Extended communication interface	Profinet、EtherNet/IP	
IO modules	Digit quantity 15 in and 16 out	
	Digit quantity 16 in and 16 out	
	Analoginput2channels,0~10V	
Expansion IO module	Analogoutput2channels,0~10V	
	Encoder AB phase counting (differential signal interface	
	Extended CAN interface &485 interface	

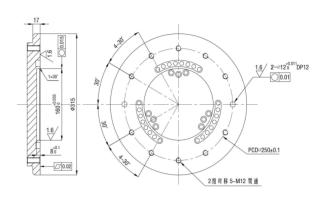
Base installation drawing



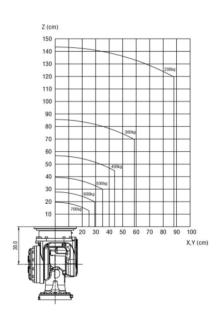




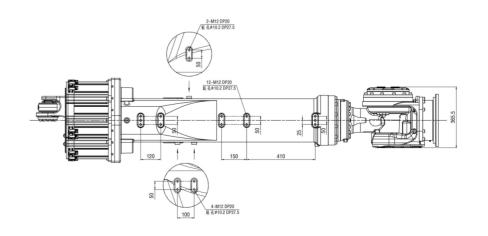
End mounting drawing



Load curve



External mounting hole position and the widest dimension of the forearm



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AT360R2655

APPLICATION SCEARIOS

Handling, assembling, FDS, loading and unloading

PRODUCT CHARACTERISTICS

Peculiarity

- 01. The 4-axis, 5-axis, 6-axis adopts the three-coaxial transmission structure, which makes the forearm structure more compact and reduces the mechanical jitter during high-speed operation.
- 02. The robot adopts a two-axis coupled wrist structure, which has a compact wrist and high-speed motion performance.
- 33. The robot has a strong load capacity and a wide range of work, which can be used for large load handling work and spot welding applications.

PRODUCT
PARAMETERS

Project	Parameter	
Wrist load rating(Kg)		360
Maximum working radius	(mm)	2655
Freedom of motion		6
	J1 J2	110 88
Rated load speed (°/s)	J3 J4	100 110
	J5 J6	110 143
	J1 J2	±180 -70~+71
1-:	J3	-66.5~+64.5
Joint range of motion (°)	J4	±360
	J5	±117.5
	J6	±360
Allowable load torque(N·m)	J4 J5 J6	1960 1960 1050

Project		Parameter
Allow negative	J4	260
moment of inertia	J5	260
(Kg⋅m²)	J6	160
IP level	noumenon	IP54
ii tevet	wrist	IP65
Body weight(Kg) Repeat positioning accuracy(mm) Installation method		1600 ±0.1 ground, ceiling
	Ring wall temperature /humidity	0~45°C/75%以下 (Dew free)
Installation	Vibration value	Less than 0.5g
environment	Other	Keep away from corrosive gases or liquids or explosive gases; Keep away from water, oil and dust; Keep away from electrical interference sources.

FRC3.0 CONTROL CABINET

Ompact structure, light weight, flexible installation, the use of separate module design, easy to disassemble structure, easy maintenance.



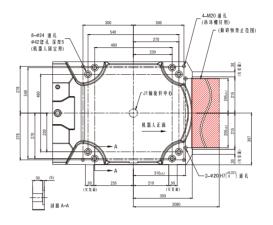


PRODUCT PARAMETERS

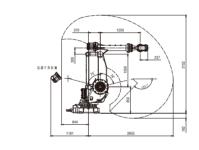
Overall dimensions (width * depth * height)	800mm*550mm*970mm
Weight	170Kg
Class of protection	IP54
Number of axes	6

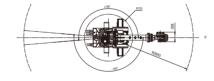
PRODUCT	PARAMETERS
Heavy-duty cable length	7m
Input power supply	380V 3AC (+10%, -15%)
Power capacity (Max.)	26KVA
Ambient temperature/humidity	0~45°C/20~85%RH(Dewfree)
Vibration	0.5G (4.9m/s²)以下
Standard communication interface	Modbus、ModbusTCP、EtherCAT
Extended communication interface	Profinet、EtherNet/IP
IO modules	Digit quantity 15 in and 16 out
	Digit quantity 16 in and 16 out
	Analoginput2channels,0~10V
Expansion IO module	Analogoutput2channels,0~10V
	Encoder AB phase counting (differential signal interface
	Extended CAN interface &485 interface

Base installation drawing

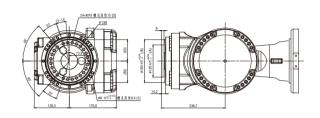


Range of motion diagram

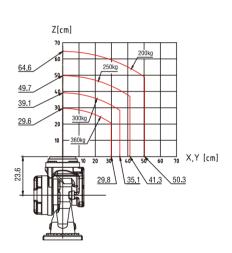




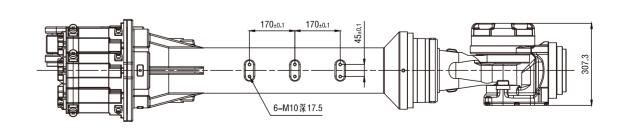
End mounting drawing



Load curve



External mounting hole position and the widest dimension of the forearm



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AT210R3100

APPLICATION SCEARIOS



palletizing, assembling, spot welding, cutting, loading and unloading

PRODUCT OO CHARACTERISTICS

- 01. Less space, long wrist, improve accessibility in the application process, diversified application scenarios, suitable for a variety of market segments.
- 02. It can still work reliably under high loads, with good flexibility and high efficiency.
- 03. Low operation and maintenance cost, high average failure interval, and very easy to maintain, good economy

PRODUCT PARAMETERS

			_		
Project		Parameter	Project		Parameter
Wrist load rating(Kg)		210		J4	149
Maximum working radius (n	nm)	3100	 Allow negative moment of inertia 	J5	149
Freedom of motion		6	(Kg·m²)	J6	105
Rated load speed (°/s)	J1 J2 J3	105 94 100	IP level	noumenon wrist	IP54 IP65
	J4 J5 J6	136 129 206	Body weight(Kg) Repeat positioning accuracy(mm) Installation method		1200 ±0.06 ground
Joint range of motion (°)	J1 J2 J3	±182.5 -82.5~+47.5 -68.5~+207.5		Ring wall temperature /humidity	0~45°C/20~85%
	J4 J5 J6	±350 ±122.5 ±350	Installation environment	Vibration value	Less than 0.5g Keep away from corrosive gases or liquids or explosive
Allowable load torque (N-m)	J4 J5 J6	1100 1100 700	_	Other	gases; Keep away from water, oil and dust; Keep away from electrical interference sources.

FRC3.0 CONTROL **CABINET**

Ompact structure, light weight, flexible installation, the use of separate module design, easy to disassemble structure, easy maintenance.





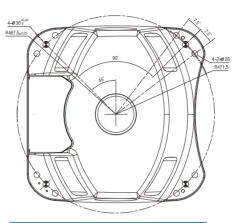
PRODU	CT PAR	AMETERS

Overall dimensions (width * depth * height)	800mm*550mm*970mm
Weight	140Kg
Class of protection	IP54
Number of axes	6

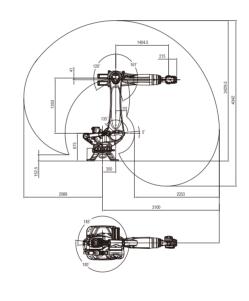
Heavy-duty cable length	7m
Input powersupply	380V 3AC (+10%, -15%)
Power capacity (Max.)	26KVA
Ambient temperature/humidity	0~45°C/20~85%RH (Dewfree)
Vibration	Less than 0.5g(4.9m/s²)
Standard communication interface	Modbus、ModbusTCP、EtherCAT
Extended communication interface	Profinet、EtherNet/IP
IO modules	Digit quantity 15 in and 16 out
	Digit quantity 16 in and 16 out
5 10 11	Analoginput2channels,0~10V
Expansion IO module	Analogoutput2channels,0~10V
	Encoder AB phase counting (differential signal interface
	Extended CAN interface & 485 interface

PRODUCT PARAMETERS

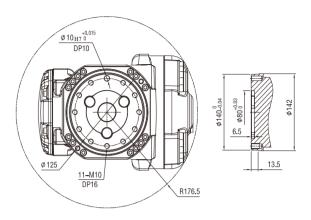
Base installation drawing



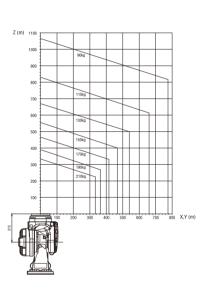
Range of motion diagram



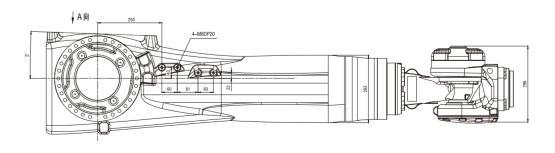
End mounting drawing

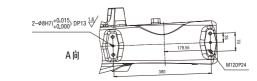


Load curve



External mounting hole position and the widest dimension of the forearm





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AT210R2700

APPLICATION SCEARIOS



Handling, palletizing, assembling, spot welding, cutting, loading and unloading

PRODUCT CHARACTERISTICS

- 01. With two-axis coupling wrist structure, compact structure, large motion range, small volume, easy to adjust.
- The 6-axis motor is installed inside the forearm, does not need the 6-axis drive shaft, compact structure,
- 03. Good rigidity, stable operation under extreme load and arm span.

PRODUCT PARAMETERS

Project	Parameter	
Wrist load rating(Kg)	210	
Maximum working radius (m	ım)	2700
Freedom of motion		6
	J1	123
	J2	115
Rated load speed (°/s)	J3	112
Nated toda speed (75)	J4	179
	J5	172
	J6	219
	J1	±182.5
	J2	-82.5~+47.5
Joint range of motion (°)	J3	- 62.5~+207.5
Joint range of modor ()	J4	±350
	J5	±120
	J6	±350
All 11 1	J4	1100
Allowable load torque (N·m)	J5	1100
1 2 2	16	700

Project		Parameter
Allow negative	J4	149
moment of inertia	J5	149
(Kg·m²)	J6	105
IP level	noumenon	IP54
ir level	wrist	IP65
Body weight(Kg) Repeat positioning accuracy(mm) Installation method		1140 ±0.06 ground
	Ring wall temperature /humidity	0~45°C/20~85%RH (Dew free)
Installation environment	Vibration value	Less than 0.5g
	Other	Keep away from corrosive gases or liquids or explosive gases; Keep away from water, oil and dust; Keep away from electrical interference sources.

FRC3.0 CONTROL

Ompact structure, light weight, flexible installation, the use of separate module design, easy to disassemble structure, easy maintenance.

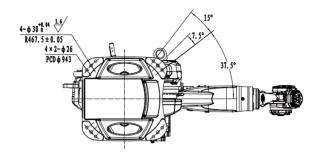




PRODUCT PARAMETERS		
Overall dimensions (width * depth * height)	800mm*550mm*970mm	
Weight	140Kg	
Class of protection	IP54	
Number of axes	6	

Heavy-duty cable length	7m
Input power supply	380V 3AC (+10%, -15%)
Power capacity(Max.)	26KVA
Ambient temperature/humidity	0~45°C/20~85%RH (Dewfree)
Vibration	Less than 0.5g (4.9m/s ²)
Standard communication interface	Modbus、ModbusTCP、EtherCAT
Extended communication interface	Profinet EtherNet/IP
IO modules	Digit quantity 15 in and 16 out
Expansion IO module	Digit quantity 16 in and 16 out
	Analoginput2channels,0~10V
	Analogoutput2channels,0~10V
	Encoder AB phase counting (differential signal interface)
	Extended CAN interface & 485 interface

Base installation drawing

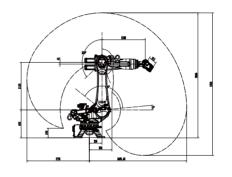


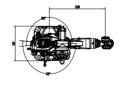
φ 10 H7 0 DP10 V PCD φ 125

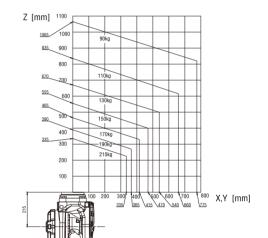
End mounting drawing

Load curve

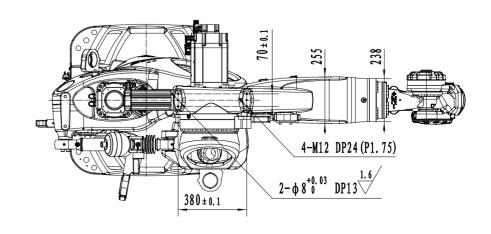
Range of motion diagram







External mounting holes



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AT180R3150

APPLICATION SCEARIOS



○○ PRODUCT
○○ CHARACTERISTICS

Peculiarity

- The robot is designed as a four-axis robot with simple body structure, low cost, long arm span and wide working range.
- 02. The double parallelogram mechanism is used as the transmission mechanism to realize the wrist pitching action of the robot, which is convenient to manufacture.
- 03. The robot has 2 axes and 3 axes in parallel, stable structure, strong bearing capacity, large overall rigidity and light weight.

PARAMETERS

Project		Parameter	Project		Parameter
Wrist load rating		180	allowable load moment of inertia (Kg·m²)	J4	250
Maximum working radius		3150	Offinerua (Ng-111-)	J4	230
	J1	130	I p code	noumenon wrist	IP54 IP65
Rated load speed (°/s) J2 J3 J3 J4 300	Body weight (Kg) Repeat positioning accuracy(mm)		1800 ±0.1		
		Installation method		ground	
	J1	±177.5		Ring wall temperature /humidity	0~45°C/20~85%
Joint range of motion (°)	J2 J3 J4	-82.5~+39.5 -68~+66.5 ±300	Installation environment	Vibration value Other	Less than 0.5g Keep away from corrosive gases or liquids or explosive gases; Keep away from water, oil and dust; Keep away from electrical interference sources.



Ompact structure, light weight, flexible installation, the use of separate module design, easy to disassemble structure, easy maintenance.



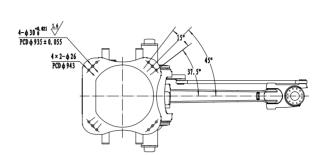


PRODUCT PARAMETERS		
Overall dimensions (width * depth * height)	800mm*550mm*970mm	
Weight	140Kg	
Class of protection	IP54	
Number of axes	4	

Heavy-duty cable length		7m
	Input power supply	380V 3AC (+10%, -15%)
F	Power capacity(Max.)	26KVA
Amb	ient temperature/humidity	0~45°C/20~85%RH(Dewfree)
	Vibration	Less than 0.5g (4.9m/s²)
Stand	ard communication interface	Modbus、ModbusTCP、EtherCAT
Extend	ded communication interface	Profinet EtherNet/IP
	IO modules	Digit quantity 15 in and 16 out
		Digit quantity 16 in and 16 out
Expansion IO module		Analoginput2channels,0~10V
	Analogoutput2channels,0~10V	
	Encoder AB phase counting (differential signal interface)	
		Extended CAN interface & 485 interface

PRODUCT PARAMETERS

Base installation drawing

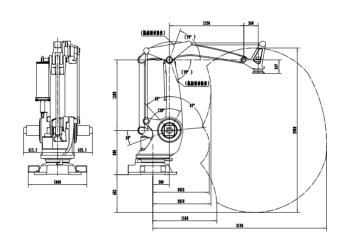


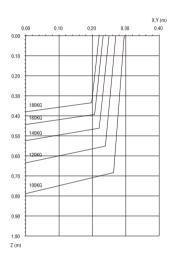
13 193 44 141 193 44 141 193 44

End mounting drawing

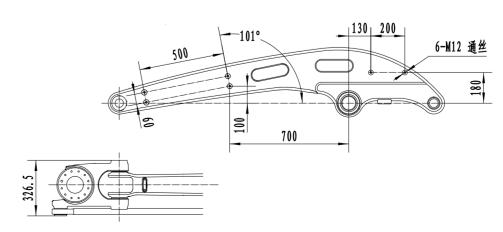
Range of motion diagram







External mounting hole position and the widest dimension of the forearm



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A-A





AT120R2230

APPLICATION SCEARIOS



Handling, palletizing, assembling, loading and unloading

PRODUCT CHARACTERISTICS

- The robot is widely used in machine tool loading and unloading, palletizing, handling, gluing and other application scenarios, especially in scenarios requiring high tempo, high trajectory accuracy and complex field processes (multi-variety workpiece transformation processing).
- Adopt a more optimized overallThe robot design scheme makes the medium-load robot reach 4m/s, thus realizing the high-speed operation of the medium-load robot. Its high-speed beat exceeds the same level of
- The robot can meet the requirements of ground installation, top lifting, tilt installation, and can be applied to a variety of working conditions.

PRODUCT PARAMETERS

Project		Parameter
Wrist load rating(Kg)		120
Maximum working radius	(mm)	2230
Freedom of motion		6
Rated load speed (°/s)	J1 J2 J3 J4 J5 J6	130 110 120 170 170 252
Joint range of motion (°)	J1 J2 J3 J4 J5 J6	±182.5 -151.5~+62.5 -77.5~+167.5 ±360 ±117.5 ±360
Allowable load torque (N·m)	J4 J5 J6	800 800 260

Project		Parameter
Allow negative	J4	88
moment of inertia	J5	58
(Kg·m²)	J6	54
IP level	noumenon	IP54
IP level	wrist	IP65
Body weight (Kg)		700
Repeat positioning	accuracy(mm)	±0.06
Installation method		ground, ceiling
	Ring wall temperature /humidity	0~45°C/20-85%RH (Dewfree)
Installation	Vibration value	Less than 0.5g
environment	Other	Keep away from corrosive gases or liquids or explosive gases; Keep away from water, oil and dust; Keep away from electrical interference sources.

FRC3.0 CONTROL J CABINET

Ompact structure, light weight, flexible installation, the use of separate module design, easy to disassemble structure, easy maintenance.



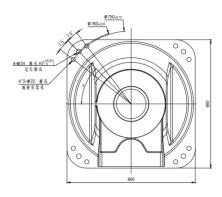


PRODUCT	PARA	METERS	
all dimensions			

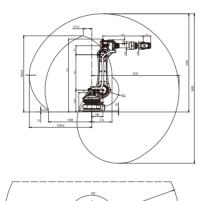
Overall dimensions (width * depth * height)	800mm*550mm*970mr
Weight	140Kg
Class of protection	IP54
Number of axes	6

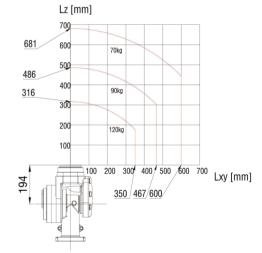
PRODUCT PARAMETERS		
Heavy-duty cable length	7m	
Input power supply	380V 3AC(+10%, -15%)	
Power capacity(Max.)	26KVA	
Ambient temperature/humidity	0~45°C/20~85%RH(Dewfree)	
Vibration	Less than 0.5g (4.9m/s²)	
Standard communication interface	Modbus、ModbusTCP、EtherCAT	
Extended communication interface	Profinet EtherNet/IP	
IO modules	Digit quantity 15 in and 16 out	
	Digit quantity 16 in and 16 out	
5	Analoginput2channels,0~10V	
Expansion IO module	Analogoutput2channels,0~10V	
	Encoder AB phase counting (differential signal interface)	
	Extended CAN interface & 485 interface	

Base installation drawing



Range of motion diagram



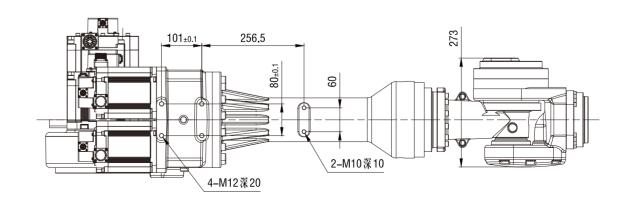


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11-M8√13

Load curve

External mounting hole position and the widest dimension of the forearm



End mounting drawing





AT120R2400

APPLICATION SCEARIOS



Handling, palletizing

PRODUCT CHARACTERISTICS

- Shorten the beat time by optimizing the motion trajectory and acceleration design, especially suitable for the intensive code operation at the end of the production line. 01.
- Short arm radius, slim wrist, small footprint, suitable for complex production line layout.
- 03. The structure is stable, the vibration is small during operation, and the long-term stability is maintained.
- 04. Process cable design, less wear, longer service life, long maintenance interval and low cost.

PRODUCT PARAMETERS

Project		Parameter	Project		Parameter
Wrist load rating(kg) Maximum working radius(mm)		120 2400	Allowable load moment of inertia (Kg·㎡)	J4	70
Rated load speed(°/s)	J1 J2 J3 J4	145 120 120 360	IP level Body weight(kg) Repeat positioning a	, ,	IP54 IP65 925 ±0.05
Joint range of motion (°)	J1 J2 J3 J4	±165 -85~+40 ±65.5 ±300	Installation method Installation environment	Ring wall temperature /humidity Vibrationvalue Other	0~45°C/20~85% Dew free Less than 0.5g Keep away from corrosive gases o liquids or explosive gases; Keep away from water, oil and dust; Keep away from electrical interference sources.



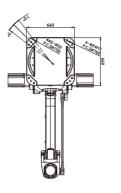
Ompact structure, light weight, flexible installation, the use of separate module design, easy to disassemble structure, easy maintenance.



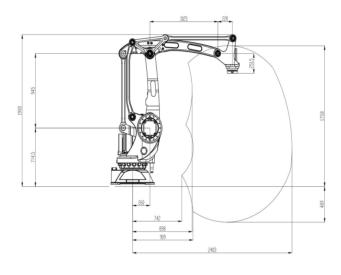
PRODUCT PARAMETERS				
Overall dimensions (width * depth * height)	800mm*550mm*970mm			
Weight	140Kg			
Class of protection	IP54			
Number of axes	6			

7m		
380V 3AC (+10%, -15%)		
26KVA		
0~45°C/20~85%RH (Dew free)		
Less than 0.5g (4.9m/s²)		
Modbus、ModbusTCP、EtherCAT		
Profinet EtherNet/IP		
Digit quantity 15 in and 16 out		
Digit quantity 16 in and 16 out		
Analoginput2channels,0~10V		
Analogoutput2channels,0~10V		
Encoder AB phase counting (differential signal interface)		
Extended CAN interface &485 interface		

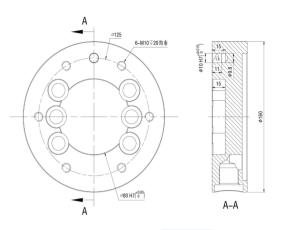
Base installation drawing



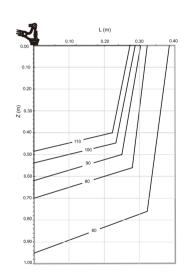
Range of motion diagram



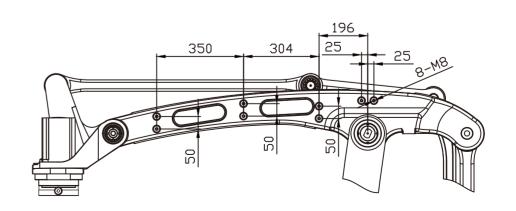
End mounting drawing



Load curve



External mounting holes



— 19 / 20 **—** YANTAI EDDIE AITRON ROBOTIC TECHNOLOGY CO.,LTD.





AT80R2050

APPLICATION SCEARIOS



Handling, assembling, loading and unloading

PRODUCT CHARACTERISTICS

- High-speed 6-axis loading and unloading, line speed 4m/s, from the actual use of the effect, lighter weight combined with advanced algorithms, so that the robot has reached the domestic leading beat level.
- The robot swivel arm half turn small, reduce the floor area.
- The movement range is large, the movement range of the upper arm is 220°, and the movement range of the lower arm is 275°. 03.
- The wrist adopts compact design, small and flexible, optimized wrist structure easily control the narrow 04.

PRODUCT PARAMETERS

Project		Parameter	Projec
Wrist load rating(Kg)		80	Allowne
Maximum working radius ((mm)	2050	moment
Freedom of motion		6	(Kg-
	J1 J2	160 120	IP level
Rated load speed (°/s)	J3 J4	120 225	Body wei
	J5	225	Repeat p
	J6	225	Installatio
	J1	±182.5	
	J2	-135~+80	
	J3	- 75~+200	
Joint range of motion (°)	J4	±360	
	J5	±120	Installati
	J6	±360	environn
	J4	440	
Allowable load	J5	300	
torque (N·m)	J6	180	

Project		Parameter
- Allow negative	J4	30
moment of inertia	J5	30
- (Kg·m²)	J6	15
- IP level	noumenon	IP54
ir level	wvist	IP65
Body weight (Kg)		530
Repeat positioning	accuracy(mm)	±0.06
_ Installation method	d	地面、吊装
	Ring wall temperature /humidity	0~45°C/20-85%RH (Dewfree)
Installation	Vibration value	Less than 0.5g
environment -	Other	Keep away from corrosive gases or liquids or explosive gases; Keep away from oil and dust; Keep away from electrical interference sources



Ompact structure, light weight, flexible installation, the use of separate module design, easy to disassemble structure, easy maintenance.

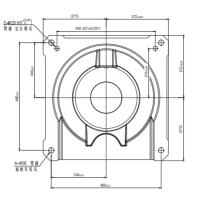




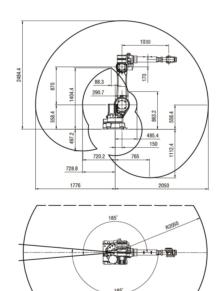
PRODUCT PARAMETERS				
Overall dimensions (width * depth * height)	800mm*550mm*970mm			
Weight	140Kg			
Class of protection	IP54			
Number of axes	6			

PROD	OUCT PARAMETERS		
Heavy-duty cable length	7m		
Input power supply	380V 3AC (+10%, -15%)		
Power capacity(Max.)	26KVA		
Ambient temperature/humidity	0~45°C/20~85%RH (Dewfree)		
Vibration	Less than 0.5g (4.9m/s²)		
Standard communication interface	Modbus、ModbusTCP、EtherCAT		
Extended communication interface	Profinet EtherNet/IP		
IO modules	Digit quantity 15 in and 16 out		
	Digit quantity 16 in and 16 out		
5 10 11	Analoginput2channels,0~10V		
Expansion IO module	Analogoutput2channels,0~10V		
	Encoder AB phase counting (differential signal interface)		
	Extended CAN interface &485 interface		

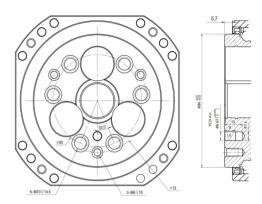
Base installation drawing



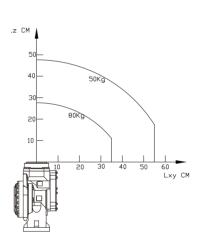
Range of motion diagram



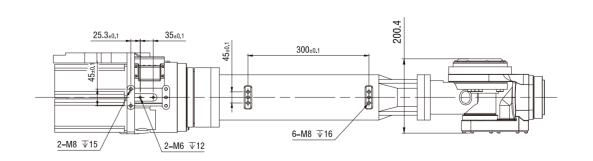
End mounting drawing



Payload diagram



External mounting hole position and the widest dimension of the forearm







AT30R1831

APPLICATION SCEARIOS



Handling, assembling, loading and unloading

PRODUCT CHARACTERISTICS

- 4 axis 5 axis 6 axis using hypoid gear transmission, accuracy to maintain better, stronger bearing capacity, in the use of the same time, simple structure, high efficiency, low cost.
- The lower arm adopts hollow structure to facilitate the welding line routing.
- The hollow structure of the wrist, on the one hand, is convenient for welding, on the other hand, it has the advantages of flexibility, small interference, smooth wire feeding and gas protection welding.

PRODUCT
PARAMETERS

Project		Parameter	Project		Parameter
Wrist load rating(Kg)		30	Allow negative	J4	3.1
Maximum working radiu	Maximum working radius (mm)		moment of inertia (Kg·m²)	J5	3.1
Freedom of motion	Ü			J6	1.3
	J1	210	IP level	noumenon	IP54
	J2	210	ir level	wrist	IP65
Rated load speed (°/s)	J3 J4	265 331	Body weight(Kg)		320
	J5	342	Repeat positioning accuracy(mm)		±0.08
	J6	572	Installation method	d	ground, ceiling
	J1	-185.5~+173.5			
	J2	-152.5~+94		Ring wall temperature	0~45°C/20-85%RH
Joint range of motion (°)	J3	- 85.5~+217.5		/humidity	(Dew free)
,	J4	±197.5	Installation	Vibration value	Less than 0.5g
	J5	±177.5	environment		Keep away from corrosive
	J6	±447.5			gases or liquids or explosive
Allowable load	J4	62		Other	gases; Keep away from water,
torque (N·m)	J5	62			oil and dust; Keep away from electrical interference sources.
1	J6	38.2			electrical interference sources.

FRC3.0 CONTROL **CABINET**

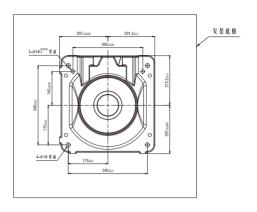
Ompact structure, light weight, flexible installation, the use of separate module design, easy to disassemble structure, easy maintenance.



PRODUCT PARAMETERS				
Overall dimensions (width * depth * height)	800mm*550mm*970mm			
Weight	140Kg			
Class of protection	IP54			
Number of axes	6			

PROI	DUCT PARAMETERS		
Heavy-duty cable length	7m		
Input power supply	380V 3AC (+10%, -15%)		
Power capacity(Max.)	26KVA		
Ambient temperature/humidity	0~45°C/20~85%RH (Dewfree)		
Vibration	Less than 0.5g(4.9m/s²)		
Standard communication interface	Modbus、ModbusTCP、EtherCAT		
Extended communication interface	Profinet EtherNet/IP		
IO modules	Digit quantity 15 in and 16 out		
	Digit quantity 16 in and 16 out		
	Analoginput2channels,0~10V		
Expansion IO module	Analogoutput2channels,0~10V		
	Encoder AB phase counting (differential signal interface)		
	Extended CAN interface &485 interface		
<u> </u>			

Base installation drawing

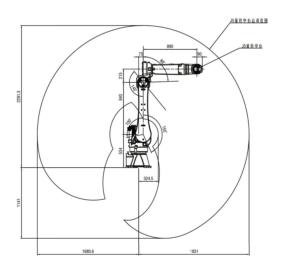


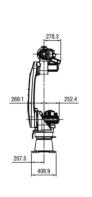
2-**Ø4H7** 0 DP10 均布

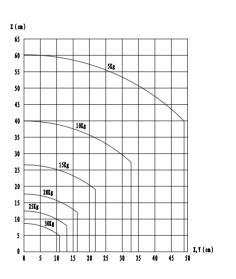
End mounting drawing

Range of motion diagram

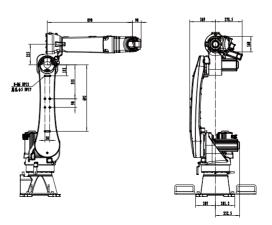


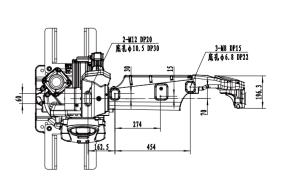






External mounting hole position and the widest dimension of the forearm









AT12R1450

APPLICATION SCEARIOS



Handling, welding, palletizing, loading and unloading

OO PRODUCT OO CHARACTERISTICS

- 5 axis 6 axis using belt rotation, simple structure, suitable for small robots, to meet the robot 5 axis 6 axis transmission chain long characteristics, low cost, light weight, smooth transmission. 01.
- 4 axis 5 axis harmonic reducer, high transmission efficiency, smooth operation, low noise.
- 03. 6-axis using belt + gear ring drive direct deceleration, no reducer, simple structure, low cost.
- The robot can meet the requirements of ground installation, top lifting, tilt installation, and can be applied to a variety of working conditions.
- 05. The robot has light weight, compact structure, high speed, high precision, high scalability and easy operation.

· ·		
Project		Parameter
Wrist load rating(Kg)		12
Maximum working radius (1450	
Freedom of motion		6
	J1	140
	J2	171
Rated load speed (°/s)	J3	170
	J4	183
	J5	170
	J6	718
	J1	±179
	J2	-172.5~+87.5
Joint range of motion (°)	J3	-80.5~+147.5
001110111111111111111111111111111111111	J4	±187.5
	J5	±147.5
	J6	±357.5
Allowable load	J4	22
torque (N·m)	J5	22
torque (TTT)	J6	9.8

Project		Parameter
Allow negative	J4	0.65
moment of inertia (Kg·m²)	J5 J6	0.65 0.17
ID.L. I	noumenon	IP54
IP level	wrist	IP65
Body weight(Kg)		195
Repeat positioning accuracy(mm) Installation method		\pm 0.06 ground, ceiling
	Ring wall temperature /humidity	0~45°C/20-85%RH (Dew free)
Installation	Vibration value	Less than 0.5g
environment	Other	Keep away from corrosive gases or liquids or explosive gases; Keep away from water, oil and dust; Keep away from electrical interference sources

ARCM1.0 CONTROL **CABINET**

PRODUCT
PARAMETERS

Ompact structure, light weight, flexible installation, the use of separate module design, easy to disassemble structure, easy maintenance.

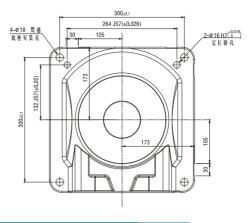




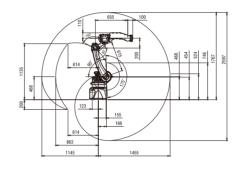
PRODUCT PARAMETERS	
Overall dimensions (width * depth * height)	600mm*507mm*815mm
Weight	105Kg
Class of protection	IP54
Number of axes	6

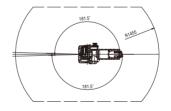
PRODUCT PARAMETERS	
Heavy-duty cable length	5m
Input power supply	380V 3AC (+10%, - 15%)
Power capacity(Max.)	16KVA
Ambient temperature/humidity	0~45°C/20~85%RH (Dewfree)
Vibration	Less than 0.5g(4.9m/s²)
Standard communication interface	Modbus、ModbusTCP、EtherCAT
Extended communication interface	Profinet EtherNet/IP
IO modules	Digit quantity 15 in and 16 out
Expansion IO module	Digit quantity 16 in and 16 out
	Analoginput2channels,0~10V
	Analogoutput2channels,0~10V
	Encoder AB phase counting (differential signal interface)
	Extended CAN interface &485 interface
	Extended CAN interface &485 interface

Base installation drawing

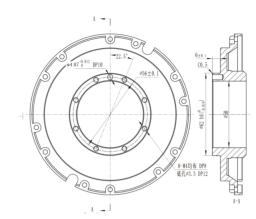


Range of motion diagram

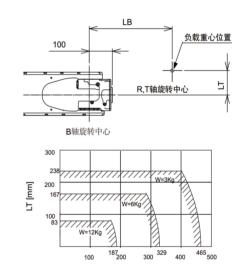




End mounting drawing



Load curve



LB [mm]

External mounting hole position and the widest dimension of the forearm

