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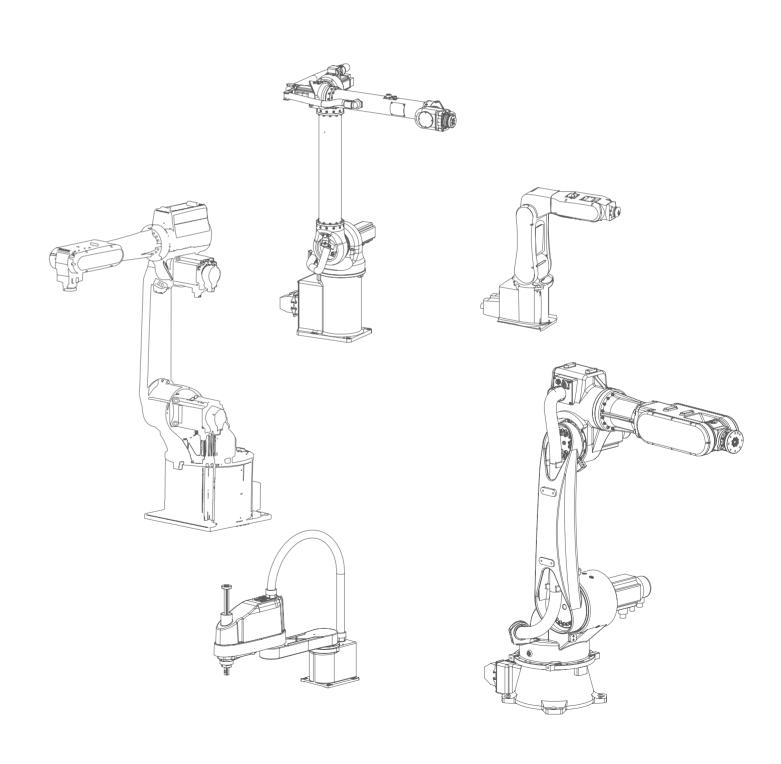
Wuhan Huazhong Numerical Control Co.,Ltd.

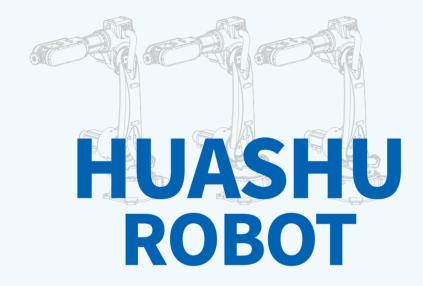
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Equip 'Advance Industrial Robots' with 'Chinese Intelligence Manufacture'.

Our Strategies

Aligned to the market's need

Bind innovation to our soul

Take quality as matter of life

Values the talents





OUR GOAL IS TO RESEARCH
AND DEVELOP DOMESTIC
INDUSTRIAL ROBOTS.



Production base



Production base

Huashu Robot, as a subsidiary of Wuhan Huazhong Numerical Control Co., Ltd. (stock code: 300161), has companies in Foshan, Chongqing, Shenzhen, Dongguan, Ningbo, Suzhou, Quanzhou, and Nanning, covering South China, East China, Central China, and Southwest China, at the same time, exploring actively the international market. It is a national high-tech enterprise integrating product research and development, manufacturing and application, a leading brand in industrial robots in China, and an expert in intelligent manufacturing and smart factory overall solutions. The annual production capacity of industrial robots is 10,000 sets.

Huashu Robot takes independent innovation and the build of national brand of industrial robots as its mission, and fully implements the "PCLC" industrial robot development strategy: that is, to focus on general multi-joint industrial robot products (P) and take the development and industrialization of domestic robot core basic components (C) as the breakthrough, take the application of industrial robot automation line (L) as the goal, take the intelligent cloud platform (C) as the weapon of surprise for the industry's success, focusing on the research and development of the robot body and the performance and reliability of the whole machine, explore actively on the automation, intelligence, application such

as smart factories. At present, it has mastered six series of more than 40 kinds of complete robot products, realized independently safety and controllability in industrial robot controller, servo drive, servo motor and robot body, and formed more than 300 independent intellectual property rights. Our products are widely used in 3C, home appliances, hardware, automobiles, CNC, food, shoemaking, logistics and other fields.

Huashu Robot is deeply integrated into the construction of the National Robot Integration Innovation Center, forming a coordinated development pattern of the entire industry chain, integrating independent core technologies, core components, and industry 4.0 overall solutions. In the face of new round of scientific and technological revolution and industrial transformation opportunities, Huashu Robot assists the transformation of intelligent manufacturing with innovative technologies of "higher, faster, and smarter", and realizes its large-scale promotion and application with the robot technology as the core, injects strong power for the high-quality development of the equipment industry, and continues to create value for global customers with leading products and services. Huashu Robot, let the intelligent equipment technology company with the world!

Quality is the unshakable foundation. It is also our dedication to perfection.

To inherited and promote the legacy of national brand Huashu has been persisting in the philosophy of revolution and innovation. As the unforgettable glory brought by, it has been firmly marked and remember in our history.



2015 May

Quanzhou Huashu Robot Co., Ltd. and Quanzhou Intelligent Research Institute

were established.

2013

Huazhong CNC entered the field of industrial robots and registered the "Huashu Robot" brand. Chongqing Huashu Robot Co., Ltd. was established. In April Shenzhen Huazhong CNC Co., of the same year, Dongguan Ltd was established and later huashu Robot Co., Ltd. was renamed as Shenzhen Huashu

80s Huazhong University of Science And Technology started research on robotic control technology

2006

Robot Co., Ltd in 2013.

2014 June The first Huashu robot successfully launched. At the same time, the first Huashu product testing production line started running.

2015 September

controller.

2015 August

Foshan muas...

Co., Ltd established. Foshan Huashu Robot

technology.

It started production

promptly in the same

year October base on

the existing Huashu

The Huashu control system

mark II was released. This is the great leap forward as the

development of indigenous

Ningbo Huashang Robot Co., Ltd. was established. Changzhou Huashang Robot Co., Ltd. was established.

2018 June

A new generation of Intelligent robots released.

Huashu granted two international patents to invention based on the structural and algorithmic innovation on BR bi-rotation series robot. Which is another great leap forward of the indigenous design brand.

2019

The release of new generation highly protected bi-rotation six-axis robot and small four axis robot.

2017

Huashu Robot completed the national layout in those areas in North China, East China, South China and West China. In the same year, our BR series robot, the unique innovation in China, firstly provided the bi-rotation model and structure and won the "Oscar" in the field of Chinese design-2017 China Good Design Silver Award

2015 october Huazhong CNC acquired

Jiangsu Jinming Industrial Robot Automation Co., Ltd., which specializes in robot system integration, to further expand the application industry.

1998

2013 October Suzhou Huashang Robot Huazhong CNC industrial Co., Ltd. was established.

2009 robots began to be used in processing automotive parts, precision machining and other fields.

The self-developed 3 series of produced and sold, and the localization rate has reached more than 80%, making it the largest robot manufacturing enterprise in the Midwest.

2016 March

Huashu independently developed 5 series of more than 30 complete robot products and realized mass production and application.

Base on the technology from ■ Huazhong University Of Science And Technology and National CNC system Engineering Technology Research Center. Wuhan Huazhong Numerical Control co, ltd delivered its first collaborative robot product. The Huazhong Mark I.

2015

■ 11 robots have been mass-

院士工作站

中国工程院 中国科学院 教育部 科技部 工信部 广东北人民政府 产学研核合协调领导小组办公室







Intellectual Property

Through independen design, Huashu now has more than 300 proprietary technology covering control, drives, design, application, automation etc. Fills multiple technological blanks in our country.







High technology / Innovation products awards.









Robot technology patent



m often 🍅

Served Huazhong CNC DIVY CNC machine control software Software copyright





- ♦ Rotor of AC permanent magnet servo

- Debugging platform of Control Assistant system for Huashu III Controller

 Huashu Robotic control system V1.0 for stamping line

WWW.HSROBOTICS.CN

Service Network

No matter when and where the service is always consistent.



system. This system allows our engineer around the country provide solid operation training and on-time sales services to our customers.

Aftersales service

We value our clients' experience. It is considered as the essential quality for Huashu's promotion and development. We want every product user to enjoy the same high-quality service all the time.

HSR-BR/JR Series 6 axis joints robot performance parameters































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Product r	nodel	HSR-BR610	HSR-BR616	HSR-BR625	HSR-BR5110	HSR-JR603	HSR-JR605	HSR-JR607	HSR-JH605	HSR-JM612	HSR-JR612	HSR-JR620	HSR-JR630	HSR-JR650 680	HSR-JR6150
Degree of fr	eedom	6	6	6	5	6	6	6	6	6	6	6	6	6	6
Payloa	ıd	10kg	16kg	25kg	110kg	3kg	5kg	7kg	5kg	12Kg	12kg	20kg	30kg	50kg 80kg	150kg
Maximum oper	ate radius	1310mm	1600mm	1849.5mm	2400mm	571.5mm	746mm	910mm	1441mm	1555mm	1555mm	1848mm	1701mm	2400mm 2200.4mm	2765.8mm
Repeat positioning	ng accuracy	±0.05mm	±0.05mm	±0.05mm	±0.2mm	±0.02mm	±0.02mm	±0.02mm	±0.06mm	±0.06mm	±0.06mm	±0.06mm	±0.05mm	±0.08mm ±0.07mm	±0.1mm
	J1	±155°	±154°	±160°	±180°	±180°	±200°	±155°	±150°	±168°	±168°	±160°	±160°	±180°	±180°
	J2	-178°~-2°	-178°~-2°	-178°~-2°	-180°~ 0°	-155°~+5°	-180°~0°	-180°~0°	-145°~+60°	-170°~+75°	-170°~+75°	-175°~+75°	-175°~+75°	-160°~+70°	-5°~-150°
Range of	J3	+120°~+420°	+103°~+437°	+128°~+412°	+20°~+330°	-20°~+240°	+80°~+240°	+80°~+340°	+30°~+270°	+40°~+265°	+40°~+265°	+40°~+265°	+40°~+265°	+10°~+265°	+10°~+265°
motion	J4	±190°	±360°	±360°	±120°	±180°	±180°	±360°	±120°	±180°	±180°	±180°	±180°	±360°	±180°
	J5	±150°	±161°	±131°	±360°	±95°	±115°	±120°	-110°~+140°	±118°	±108°	±125°	±125°	±110°	±110°
	J6	±360°	±360°	±360°	-	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°
	J1	180°/s, 3.14rad/s	157°/s, 2.73rad/s	140°/s, 2.44rad/s	85°/s, 1.48rad/s	262.5°/s, 4.58rad/s	222°/s, 3.87rad/s	225°/s, 3.92rad/s	148°/s, 2.58rad/s	148°/s, 2.58rad/s	148°/s, 2.58rad/s	88°/s, 1.53rad/s	88°/s, 1.53rad/s	85°/s, 1.48rad/s	65°/s, 1.14rad/s
	J2	250°/s, 4.36rad/s	145°/s, 2.52rad/s	141°/s, 2.46rad/s	78°/s, 1.35rad/s	262.5°/s, 4.58rad/s	180°/s, 3.14rad/s	180°/s, 3.14rad/s	148°/s, 2.58rad/s	148°/s, 2.58rad/s	148°/s, 2.58rad/s	66°/s, 1.15rad/s	66°/s, 1.15rad/s	85°/s, 1.48rad/s	69°/s,1.22rad/s
5	J3	180°/s, 3.14rad/s	178°/s, 3.10rad/s	171°/s, 2.98rad/s	70°/s, 1.22rad/s	262.5°/s, 4.58rad/s	225°/s, 3.93rad/s	180°/s, 3.14rad/s	148°/s, 2.58rad/s	148°/s, 2.58rad/s	148°/s, 2.58rad/s	120°/s, 2.09rad/s	120°/s, 2.09rad/s	104°/s, 1.81rad/s	93°/s, 1.22rad/s
Rated speed	J4	235°/s, 4.11rad/s	221°/s, 3.85rad/s	225°/s, 3.92rad/s	187°/s, 3.27rad/s	262.5°/s, 4.58rad/s	235°/s, 4.10rad/s	225°/s, 3.92rad/s	225°/s, 3.93rad/s	360°/s, 6.28rad/s	360°/s, 6.28rad/s	178°/s, 3.11rad/s	178°/s, 3.11rad/s	177°/s, 3.08rad/s	116°/s, 2.03rad/s
	J5	180°/s, 3.14rad/s	180°/s, 3.14rad/s	225°/s, 3.92rad/s	225°/s, 3.93rad/s	262.5°/s, 4.58rad/s	222°/s, 3.87rad/s	225°/s, 3.92rad/s	225°/s, 3.93rad/s	225°/s, 3.93rad/s	225°/s, 3.93rad/s	178°/s, 3.11rad/s	178°/s, 3.11rad/s	155°/s, 2.70rad/s	148°/s, 2.40rad/s
	J6	360°/s, 6.28rad/s	225°/s, 3.92rad/s	225°/s, 3.92rad/s	-	420°/s, 7.33rad/s	360°/s, 6.28rad/s	225°/s, 3.92rad/s	225°/s, 3.93rad/s	225°/s, 3.93rad/s	360°/s, 6.28rad/s	225°/s, 3.93rad/s	225°/s, 3.93rad/s	187°/s, 3.26rad/s	222°/s, 3.88rad/s
	J1	240°/s, 4.19rad/s	236°/s, 4.12rad/s	233°/s, 4.06rad/s	128°/s, 2.23rad/s	375°/s, 6.54rad/s	370°/s, 6.46rad/s	450°/s, 7.85rad/s	222°/s, 3.87rad/s	197°/s, 3.44rad/s	197°/s, 3.44rad/s	96°/s, 1.68rad/s	96°/s, 1.68rad/s	127°/s, 2.21rad/s	97°/s, 1.70rad/s
	J2	250°/s, 4.36rad/s	217°/s, 3.78rad/s	235°/s, 4.10rad/s	116°/s, 2.03rad/s	375°/s, 6.54rad/s	300°/s, 5.24rad/s	360°/s, 6.28rad/s	222°/s, 3.87rad/s	197°/s, 3.44rad/s	197°/s, 3.44rad/s	88°/s, 1.53rad/s	88°/s, 1.53rad/s	127°/s, 2.21rad/s	105°/s, 1.84rad/s
Maximum	J3	300°/s, 5.24rad/s	357°/s, 6.23rad/s	285°/s, 4.97rad/s	105°/s, 1.84rad/s	375°/s, 6.54rad/s	375°/s, 6.54rad/s	390°/s, 6.81rad/s	222°/s, 3.87rad/s	197°/s, 3.44rad/s	197°/s, 3.44rad/s	192°/s, 3.35rad/s	192°/s, 3.35rad/s	104°/s, 1.81rad/s	105°/s, 1.84rad/s
speed	J4	392°/s, 6.84rad/s	443°/s, 7.72rad/s	487°/s, 8.49rad/s	225°/s, 3.93rad/s	375°/s, 6.54rad/s	392°/s, 6.84rad/s	487.5°/s, 8.51rad/s	337.5°/s, 5.89rad/s	600°/s, 10.47rad/s	600°/s, 10.47rad/s	297°/s, 5.18rad/s	297°/s, 5.18rad/s	177°/s, 3.08rad/s	174°/s, 3.09rad/s
	J5	300°/s, 5.24rad/s	360°/s, 6.28rad/s	487°/s, 8.49rad/s	300°/s, 5.23rad/s	375°/s, 6.54rad/s	370°/s, 6.46rad/s	487.5°/s, 8.51rad/s	337.5°/s, 5.89rad/s	375°/s, 6.54rad/s	375°/s, 6.54rad/s	297°/s, 5.18rad/s	297°/s, 5.18rad/s	155°/s, 2.70rad/s	173°/s, 3.03rad/s
	J6	600°/s, 10.46rad/s	450°/s, 7.85rad/s	487°/s, 8.49rad/s	-	600°/s, 10.46rad/s	600°/s, 10.47rad/s	487.5°/s, 8.51rad/s	337.5°/s, 5.89rad/s	375°/s, 6.54rad/s	600°/s, 10.47rad/s	375°/s, 6.54rad/s	375°/s, 6.54rad/s	187°/s, 3.26rad/s	296°/s, 5.17rad/s
Allowable	J4	0.42kgm²	0.99kgm²	3.7kgm²	26.4kgm²	0.05kgm²	0.5kgm²	0.87kgm²	0.3kgm²	1.2kgm²	1.2kgm²	8.7kgm²	8.7kgm²	32.7kgm²	55kgm²
moment of	J5	0.42kgm²	0.85kgm²	3.7kgm²	5.3kgm²	0.05kgm²	0.36kgm²	0.52kgm²	0.3kgm²	1.2kgm²	1.2kgm²	3.3kgm²	3.3kgm²	32.7kgm²	55kgm²
inertia	J6	0.15kgm²	0.52kgm²	2.0kgm²	-	0.04kgm²	0.1kgm²	0.17kgm²	0.035kgm²	0.17kgm²	0.17kgm²	0.8kgm²	0.8kgm²	25kgm²	25kgm²
	J4	20.4Nm	34.0Nm	76.5Nm	707Nm	12.7Nm	18Nm	21.5Nm	35Nm	35Nm	35Nm	140.4Nm	140.4Nm	400Nm	600Nm
Allowable torque	J5	20.4Nm	28.0Nm	79.8Nm	327Nm	6.4Nm	16Nm	18.1Nm	35Nm	35Nm	35Nm	73.4Nm	73.4Nm	340Nm	600Nm
torque	J6	12.7Nm	20.3Nm	40.9Nm	-	6.4Nm	8Nm	13.4Nm	15Nm	15Nm	15Nm	30.7Nm	30.7Nm	330Nm	320Nm
	Temperature	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C
Applicable environment	Humidity	20%~80%	20%~80%	20%-80%	20%~80%	20%~80%	20%~80%	20%~80%	20%~80%	20%~80%	20%~80%	20%~80%	20%~80%	20%~80%	20%~80%
environment	Other	Avoid contact with inflamn	mable or corrosive gas and liqui noise(plasma)	id, Stay away from electronic	Avoid contact with inflamm	nable or corrosive gas and liquionoise(plasma)	d, Stay away from electronic	Avoid contact with inflam	mable or corrosive gas and electronic noise(plasma)	liquid, Stay away from	Avoid contact with infla	mmable or corrosive gas ar electronic noise(plasma)	nd liquid, Stay away from	Avoid contact with inflammat liquid, Stay away from elec	ble or corrosive gas and tronic noise(plasma)
Teach pendant o	able length	8m	8m	8m	8m	8m	8m	8m	8m	8m	8m	8m	8m	8m	8m
Machine- Po connect cabl		3m	6m	6m	8m	3m	3m	3m	5m	6m	6m	6m	6m	8m	8m
I/O param		Pins: 32 pins ii	nput(NPN, PNP available), 31 pi	ins output(NPN)	Pins: 32 pins in	put(NPN, PNP available), 31 pi	ns output(NPN)	Pins: 32 pins input	(NPN, PNP available), 31 pir	ns output(NPN)	Pins: 32 pins inp	ut(NPN, PNP available), 31	pins output(NPN)	Pins: 32 pins input(NPN, PNP avai	lable), 31 pins output(NPN)
Body Reserved	Signal Line	12 pins (aviation plug)	24pins (aviation plug)	24pins (aviation plug)	26pin (solder connnected avaition plug)	12pin(avaition plug, prefabricated cable length 0.55m)	12pins (aviation plug)	12pins (aviation plug)	-	26pin (solder connnected avaition plug)	12pin (solder connnected avaition plug)	24pins (aviation plug)	24pins (aviation plug)	26pin (solder connnected avaition plug)	-
Pneumatio	tube	1*Ф6	2*Ф8	2*Ф8	2*Φ8	1*Φ6	1*Ф6	2*Ф6	-	-	1*Ф8	2*Ф8	2*Ф8	3*Ф10	-
Battery ca	pacity	2.55kVA	3.68kVA	5.6kVA	17kVA	0.8kVA	1.56kVA	1.56kVA	2.5kVA	3.8kVA	3.8kVA	5.62kVA	5.62kVA	7.5kVA	18.5kVA
Rated power/Volt	age/Current	2.04kW/Single Phase AC220V 50HZ/9.3A	2.95kW/Single Phase AC220V 50HZ/13.4A	4.3kW/3Phases 380V/8.1A	14kW/3Phases 5lines AC380V 50HZ/23A	0.6kW/Single Phase AC220V 50HZ/3.2A	1.25kW/Single Phase AC220V 50HZ/5.7A	1.25kW/Single Phase AC220V 50HZ/6.5A	2kW/Single Phase AC220V 50HZ/10.8A	3kW/3Phases AC380V 50HZ/5.4A	3kW/3Phases AC380V 50HZ/5.4A	4.5kW/33Phases AC380V/9A	4.5kW/33Phases AC380V/9A	5.5kW/3Phases AC380V 50HZ/10.8A	15kW/3Phases AC380V/25A
Body/Electric Protection	Cabinet	IP54 (robot arm IP67) /IP53	IP67/IP54	IP54/IP53	IP50/IP53	IP54/IP53	IP54/IP53	IP67/IP54	IP50/IP50		arm IP65) /IP53	IP54/IP53	IP54/IP53	IP54 (robot arm IP65) /IP53	IP54/IP53
Installation		Ground/Upside down/Side mount/Install in any direction	Ground	Ground/Upside down/Side mount/Install in any direction	Ground	Ground/Upside down/Side	mount/Install in any direction	Ground/Upside down/Side m	ount/Install in any direction	Ground	Ground/Upside down/ Side mount	Ground/Upside down	Ground/Upside down	Ground	Ground
Machine/power	box weight	61kg/38kg	124.5kg/47kg	210kg/91kg	980kg/180kg	27kg/20kg	55.5kg/38kg	40kg/38kg	196kg/50kg	215kg/130kg	196kg/130kg	303.5kg/91kg	302kg/91kg	750kg/180kg 720kg/180kg	1320kg/about 160kg
07 I HUA	ASHU ROBOT													HUASHL	J ROBOT 08

HSR-HC/SR/DT series 4 axis joints robot performance parameters

























Product r	nodel	HSR-HC403	HSR-SR3400	HSR-SR6600	HSR-SR5700	HSR-DT401	HSR-DT803	HSR-DT1208	HSR-HC410	HSR-HC415	HSR-HC420
Degree of fr	eedom	4	4	4	4	4	3+1	3+1	4	4	4
Payloa	ıd	3kg	3kg	6kg	5kg	1kg	3kg	8kg	10kg	15kg	20kg
Maximum oper	ate radius	585mm	400mm	600mm	700mm	200mm	400mm	600mm	1402mm	1402mm	2000mm
Repeat positioning	ng accuracy	±0.02mm	±0.01mm	±0.02mm	±0.02mm	±0.1mm	±0.1mm	±0.1mm	±0.05mm	±0.05mm	±0.08mm
	J1	±140°	±132°	±132°	±132°		Travel Range		±145°	±145°	±145°
	J2	±180°	±135°	±150°	±150°	Maximum movement radius: 200mm	Maximum movement radius: 400mm	Maximum movement radius: 600mm	±135°	±135°	±135°
Range of	J3	0mm~145mm	0~-150mm	0~-200mm	0~-200mm	Maximum pickup and place height: 135mm	Maximum pickup and place height: 300mm	Maximum pickup and place height: 335mm	±250mm	±250mm	0mm~480mm
motion	J4	±360°	±360°	±360°	±360°	The fourth axis rotation angle	The fourth axis rotation angle	The fourth axis rotation angle	±180°	±180°	±360°
	J5	-	-	-	-	±360°	±360°	±360°	-	-	-
	J6	-	-	-	-	Operation	beats per minute (25mm-305mm-25r	mm),0.1KG	-	-	-
	J1	225°/s, 3.95rad/s	360°/s, 6.28rad/s	225°/s, 3.92rad/s	225°/s, 3.92rad/s	200	180	180	225°/s, 3.93rad/s	225°/s, 3.93rad/s	108°/s, 1.88rad/s
	J2	225°/s, 3.95rad/s	470°/s, 8.19rad/s	360°/s, 6.28rad/s	420°/s, 7.32rad/s	-	÷	-	225°/s, 3.93rad/s	225°/s, 3.93rad/s	148.76°/s, 2.60rad/s
D-+	J3	500mm/s	710mm/s	666mm/s	666mm/s	-	-	-	500mm/s	500mm/s	500mm/s
Rated speed	J4	360°/s, 6.28rad/s	1500°/s, 26.16rad/s	1200°/s, 20.93rad/s	1400°/s, 24.42rad/s		-	-	180°/s, 3.14rad/s	180°/s, 3.14rad/s	225°/s, 3.93rad/s
	J5	-	-	-	-	-	-	-	-	-	-
	J6	-	-	-	-	-	-	-	-	-	-
	J1	375°/s, 6.54rad/s	530°/s, 9.24rad/s	375°/s, 6.54rad/s	335°/s, 5.84rad/s	-	-	-	300°/s, 5.23rad/s	300°/s, 5.23rad/s	216°/s, 3.77rad/s
	J2	375°/s, 6.54rad/s	700°/s, 12.21rad/s	600°/s, 10.46rad/s	600°/s, 10.46rad/s	-	-	-	375°/s, 6.54rad/s	375°/s, 6.54rad/s	198°/s, 3.54rad/s
Maximum	J3	1000mm/s	1065mm/s	1111mm/s	1111mm/s	-	-	-	830mm/s	830mm/s	667mm/s
speed	J4	588°/s, 10.26rad/s	2600°/s, 43.35rad/s	2000°/s, 34.88rad/s	2000°/s, 34.88rad/s	-	-	-	360°/s, 6.28rad/s	360°/s, 6.28rad/s	375°/s, 6.54rad/s
	J5				-	-	-	-	-		-
	J6	-	-	-	-	-	-	-	-	-	-
Allowable	J4	0.03kgm²	0.05/0.005kgm²	0.12/0.01kgm²	0.12/0.01kgm²	-	-	-	2kgm²	3kgm²	6.5kgm²
moment of	J5	-	-	-	-	-	-	-	-	-	-
inertia	J6	-	-	-	-	-	-	-	-	-	-
	J4	6.4Nm	3.29Nm	4.23Nm	4.23Nm	-	-	-	40Nm	50Nm	90Nm
Allowable torque	J5	-	-	-	-	-	-	-	-	-	-
torque	J6	-	-	-	-	-	+	-	-	-	-
	Temperature	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C	0~45°C
Applicable environment	Humidity	20%~80%	20%~80%	20%~80%	20%~80%	20%~85%	20%~85%	20%~85%	20%~80%	20%~80%	20%~80%
CHVIIOTITICITE	Other	Avoid contact with inflammable or corrosiv noise(p		Avoid contact with inflammable or corrosiv noise(p	e gas and liquid, Stay away from electronic lasma)	Avoid contact with inflammable	or corrosive gas and liquid, Stay awa	ay from electronic noise(plasma)	Avoid contact with inflammable	e or corrosive gas and liquid, Stay awa	y from electronic noise(plasma)
Teach pendant o		8m	8m	8m	8m	No Handheld	No Handheld	No Handheld	8m	8m	8m
Machine- Po connect cabl	wer box e length	5m	3m	3m	3m	5m	5m	5m	6m	6m	6m
I/O param		Pins: 32 pins input(NPN, PNP a	vailable), 31 pins output(NPN)	Pins: 32 pins input(NPN, PNP a	vailable), 31 pins output(NPN)	Pins: 24 pins input 16 pins output	Pins: 24 pins input 16 pins output	Pins: 24 pins input 16 pins output	Pins: 32 pins	s input(NPN, PNP available), 31 pins o	utput(NPN)
Body Reserved	Signal Line	-	12 pins (aviation plug)	12 pins (aviation plug)	12 pins (aviation plug)	10pins (Terminals connection)	10pins (Terminals connection)	10pins (Terminals connection)	12 cores default cable length: 0.5m	12 cores default cable length: 0.5m	12 cores default cable length: 0.5m
Pneumatio	tube	-	3*Ф6	3*Ф6	3*Ф6	-	-	-	1*Ф8	1*Ф8	1*Ф6
Battery ca	pacity	0.6kVA	0.75kVA	0.8kVA	0.8kVA	-	-	-	2.3kVA	2.8kVA	5.6kVA
Rated power/Volt		0.5kW/Single Phase AC220V 50HZ/2.5A	0.55kW/Single Phase AC220V 50HZ/3A	0.62kW/Single Phase AC220V 50HZ/3.2A	0.62kW/Single Phase AC220V 50HZ/3.2A	1.8kW/3Phases AC380V	3.3kW/380V	6.3kW/380V	1.8kW/3Phases AC380V 50HZ/3.2A	2.2kW/3Phases AC380V 50HZ/4A	4.5kW/3Phases AC380V 50HZ/8.1A
Body/Electric Protection	Cabinet Level	IP64 (Optional IP67) /IP53	IP54/IP20	IP54/IP20	IP54/IP20	IP54/IP53	IP54/IP53	IP54/IP53	IP54/IP53	IP54/IP53	IP54/IP53
Installation r		Ground/Upside down/Side mount	Ground/Desktop	Ground/Desktop	Ground/Desktop	Desktop	Upside down	Upside down	Ground	Ground	Ground
Machine/power	box weight	25kg/38kg	17.5kg/10.65kg	21.5kg/10.65kg	22.5kg/10.65kg	85kg/30kg	124kg/40kg	145kg/45kg	230kg/50kg	250kg/50kg	280kg/50kg
											1.40

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HSR-BR610

Six-axis bi-rotation Robot series

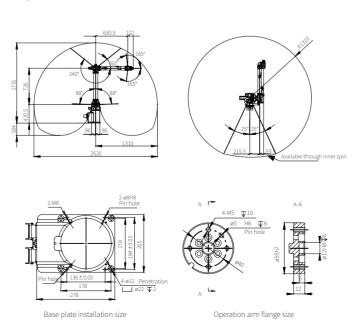
Introduction

Based on the BR series, the brand-new generation of HSR-BR610 that was designed for glass grinding, flat grinding, engraving and milling and other machines now has upgraded the protection level of its leading arm(tooling arm). This upgrade now allows the leading arm to be spraied or even immerse in water with IP 67 waterproof rating. Ultimately, it works faster, loads heavier, and the protection gets better.

Product mod	el	HSR-BR610
Degree of freedo	m	6
Payload		10kg
Maximum moving r	adius	1310mm
Repeat positioning ad	ccuracy	±0.05mm
	J1	±155°
	J2	-178°~-2°
	J3	+120°~+420°
Range of motion	J4	±190°
	J5	±150°
	J6	±360°
	J1	180°/s, 3.14 rad/s
	J2	250°/s, 4.36 rad/s
2.1	J3	180°/s, 3.14 rad/s
Rated speed	J4	235°/s, 4.11 rad/s
	J5	180°/s, 3.14 rad/s
	J6	360°/s, 6.28rad/s
	J1	240°/s, 4.19 rad/s
	J2	250°/s, 4.36rad/s
	J3	300°/s, 5.24rad/s
Rated speed	J4	392°/s, 6.84 rad/s
	J5	300°/s, 5.24 rad/s
	J6	600°/s, 10.46rad/s
	J4	0.42kgm²
Allowable moment	J5	0.42kgm²
of inertia	J6	0.15kgm²
	J4	20.4Nm
Allowable torque	J5	20.4Nm
	J6	12.7Nm
	Temperature	0~45°C
Applicable environment	Humidity	20%~80%
	Other	Avoid contact with inflammable or corrosive gas and liquid, Stay away from electronic noise(plasma)
Teach pendant cable		8m
Machine- Power box o cable length.	connect	3m
I/O parameters	5	Pins: 32 pins input(NPN, PNP available), 31 pins output(NPN)
Body Reserved Signa	l Line	12 pins (aviation plug)
Pneumatic tube	9	1*Φ6
Battery capacity	/	2.55kVA
Rated power / voltage	/current	2.04kW/Single Phase AC220V 50HZ/9.3A
Body/Electric Cab Protection Leve		IP54 (robot arm IP67) /IP53
Installation meth		Ground/Upside down/Side mount/Install in any direction
Machine/power box	weight	61kg/38kg



Operation Parameter



HSR-BR616

Six-axis bi-rotation Robot series

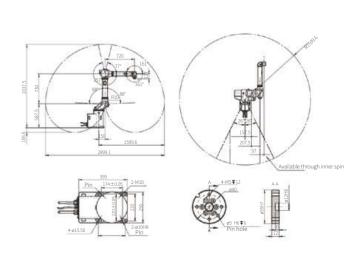
Introduction

Bases on the BR series, the brand-new generation of HSR-BR616 now has further upgraded. This machine now can undertake heavier load, higher protection rating, faster working pace. The whole designs now comply with IP 67 rating, which makes particularly suitable for: painting, dusting, loading and unloading on machine tools, assembly, palletizing and mold injection.

Droduct med		LICD BDC1C
Product mod		HSR-BR616
Degree of freedo	om	6
Payload		16kg
Maximum moving r		1600mm
Repeat positioning a		±0.05mm
	J1	±154°
	J2	-178°~-2°
Range of motion	J3	+103°~+437°
3	J4	±360°
	J5	±161°
	J6	±360°
	J1	157°/s, 2.73 rad/s
	J2	145°/s, 2.52 rad/s
Rated speed	J3	178°/s, 3.10 rad/s
Nateu specu	J4	221°/s, 3.85 rad/s
	J5	180°/s, 3.14 rad/s
	J6	225°/s, 3.92rad/s
	J1	236°/s, 4.12 rad/s
	J2	217°/s, 3.78rad/s
Databased	J3	357°/s, 6.23rad/s
Rated speed	J4	443°/s, 7.72rad/s
	J5	360°/s, 6.28 rad/s
	J6	450°/s, 7.85rad/s
	J4	0.99kgm²
Allowable moment	J5	0.85kgm²
of inertia	J6	0.52kgm²
	Ј4	34.0Nm
Allowable torque	J5	28.0Nm
	J6	20.3Nm
	Temperature	0~45°C
Applicable environment	Humidity	2096~8096
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Other	Avoid contact with inflammable or corrosive gas and liquid,
Teach pendant cable		Stay away from electronic noise(plasma) 8m
Machine- Power box		6m
cable length. I/O parameter:	S	Pins: 32 pins input(NPN, PNP available), 31 pins output(NPN)
Body Reserved Signa		
Pneumatic tube		24 pins (aviation plug)
Battery capacit		2*Φ8
		3.68kVA
Rated power / voltage Body/Electric Cab		2.95kW/Single Phase AC220V 50HZ/13.4A
Protection Leve	el	IP67/IP54
Installation met		Ground
Machine/power box	weight	124.5kg/47kg



Operation Parameter



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HSR-BR625

Six-axis bi-rotation Robot series

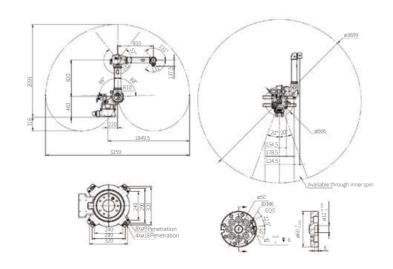
Introduction

Based on the BR series robots, after optimization and upgrade, HSR-BR625 was born with strong power, fast speed and load of 25KG. This robot with bi-spin structure occupies very small installation space. The 4th, 5th, and 6th axises are hollow arms with built-in cables. It is high cost-effective which can meet different needs of customers, especially suitable for assembly, loading and unloading, handling, stamping, densely arranged drill centers etc.

Product mod	el	HSR-BR625
Degree of freedo	om	6
Payload		25kg
Maximum moving r	adius	1849.5mm
Repeat positioning a	ccuracy	±0.05mm
	J1	±160°
	J2	-178°~-2°
Danca of matica	J3	+128°~+412°
Range of motion	J4	±360°
	J5	±131°
	J6	±360°
	J1	140°/s, 2.44rad/s
	J2	141°/s, 2.46rad/s
Rated speed	J3	171°/s, 2.98rad/s
Rateu speeu	J4	225°/s, 3.92rad/s
	J5	225°/s, 3.92rad/s
	J6	225°/s, 3.92rad/s
	J1	233°/s, 4.06rad/s
	J2	235°/s, 4.10rad/s
Rated speed	J3	285°/s, 4.97rad/s
Rateu speeu	J4	487°/s, 8.49rad/s
	J5	487°/s, 8.49rad/s
	J6	487°/s, 8.49rad/s
	J4	3.7kgm²
Allowable moment of inertia	J5	3.7kgm²
Orinertia	J6	2.0kgm²
	J4	76.5Nm
Allowable torque	J5	79.8Nm
	J6	40.9Nm
	Temperature	0~45°C
Applicable environment	Humidity	20%-80%
	Other	Avoid contact with inflammable or corrosive gas and liquid, Stay away from electronic noise(plasma)
Teach pendant cable	~	8m
Machine- Power box o cable length.	connect	6m
I/O parameter	S	Pins: 32 pins input(NPN, PNP available), 31 pins output(NPN)
Body Reserved Signa	al Line	24 pins (aviation plug)
Pneumatic tube	9	2*Ф8
Battery capacity	/	5.6kVA
Rated power / voltage		4.3kW/3Phases 380V/8.1A
Body/Electric Cab Protection Leve	inet el	IP54/IP53
Installation met		Ground/Upside down/Side mount/Install in any direction
Machine/power box	weight	210kg/91kg



Operation Parameter



HSR-BR5110

Five-axis pelletizing robot series

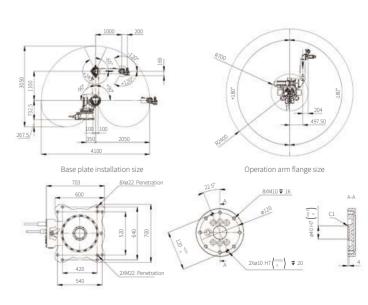
Introduction

This palletizing series are developed for the clients who has specific demand in working in narrow space under fast pace, especially the palletizing work that needs wide range of joint movement. As a domestic product, its maximum joints' speed has reached the same level of KUKA's counterpart product (KR120 R32200PA), which has high cost performance and competitiveness in the market.

Product mod	del	HSR-BR5110
Degree of freedo		5
Payload		110kg
Maximum moving r	adius	2400mm
Repeat positioning a	ccuracy	±0.2mm
	J1	±180°
	J2	-180°~ 0°
Range of motion	J3	+20°~+330°
	J4	±120°
	J5	±360°
	J1	85°/s, 1.48rad/s
	J2	78°/s, 1.35rad/s
Rated speed	J3	70°/s, 1.22rad/s
	J4	187°/s, 3.27rad/s
	J5	225°/s, 3.93rad/s
	J1	128°/s, 2.23rad/s
	J2	116°/s, 2.03rad/s
Rated speed	J3	105°/s, 1.84rad/s
	J4	225°/s, 3.93rad/s
	J5	300°/s, 5.23rad/s
Allowable moment	J5	26.4kgm²
of inertia	J4	5.3kgm²
Allowable torque	J5	707Nm
Allowable torque	J4	327Nm
	Temperature	0~45°C
Applicable environment	Humidity	20%~80%
	Other	Avoid contact with inflammable or corrosive gas and liquid, Stay away from electronic noise(plasma)
Teach pendant cable		8m
Machine- Power box o cable length.	connect	8m
I/O parameters	5	Pins: 32 pins input(NPN, PNP available), 31 pins output(NPN)
Body Reserved Signa	l Line	26pin (solder connnected avaition plug)
Pneumatic tube	2	2*Ф8
Battery capacity		17kVA
Rated power / voltage Body/Electric Cab		14kW/3Phases 5lines AC380V 50HZ/23A
Protection Leve	el	IP50/IP53
Installation met	nod	Ground
Machine/power box	weight	980kg/180kg



Operation Parameter





HSR-JR603/JR605

Six axis joint Robot series

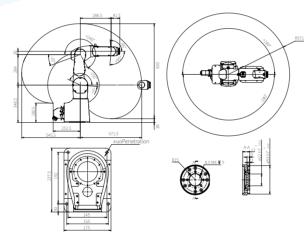
Introduction

HSR-JR603/JR605 is a small multi-purpose robot of Huashu, which meets the high requirements of "high precision, light weight, and high speed" of 3C production. The whole machine adopts lightweight design, small size, flexible installation method, and adopts independent research and development of core components. It has high performance and big cost advantages. It is widely used in fields such as glue coating, handling, sorting, and assembly.

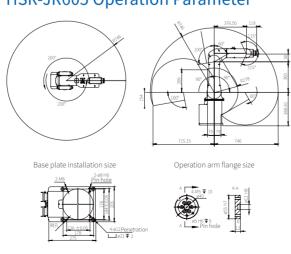


Product mod	el	HSR-JR603	HSR-JR605
Degree of freedo		6	6
Payload		3kg	5kg
Maximum moving ra	adiue	571.5mm	746mm
Repeat positioning ac		±0.02mm	±0.02mm
Repeat positioning at		±180°	±200°
	J1	_155°~+5°	±200 -180°~0°
	J2		
Range of motion	J3	-20°~+240°	+80°~+240°
	J4	±180°	±180°
	J5	±95°	±115°
	J6	±360°	±360°
	J1	262.5°/s, 4.58rad/s	222°/s, 3.87rad/s
	J2	262.5°/s, 4.58rad/s	180°/s, 3.14rad/s
Rated speed	J3	262.5°/s, 4.58rad/s	225°/s, 3.93rad/s
	J4	262.5°/s, 4.58rad/s	235°/s, 4.10rad/s
	J5	262.5°/s, 4.58rad/s	222°/s, 3.87rad/s
	J6	420°/s, 7.33rad/s	360°/s, 6.28rad/s
	J1	375°/s, 6.54rad/s	370°/s, 6.46rad/s
	J2	375°/s, 6.54rad/s	300°/s, 5.24rad/s
B	J3	375°/s, 6.54rad/s	375°/s, 6.54rad/s
Rated speed	J4	375°/s, 6.54rad/s	392°/s, 6.84rad/s
	J5	375°/s, 6.54rad/s	370°/s, 6.46rad/s
	J6	600°/s, 10.46rad/s	600°/s, 10.47rad/s
	J4	0.05kgm ²	0.5kgm²
Allowable moment	J5	0.05kgm²	0.36kgm²
of inertia	J6	0.04kgm²	0.1kgm²
	J4	12.7Nm	18Nm
Allowable torque	J5	6.4Nm	16Nm
	J6	6.4Nm	8Nm
	Temperature	0~45°C	0~45°C
Applicable environment	Humidity	20%~80%	20%~80%
Applicable environment	Other	Avoid contact with inflammable or con	rosive gas and liquid,
Touch pondant cable		Stay away from electronic no	ise(plašma) 8m
Teach pendant cable Machine- Power box c		8m	
cable length.		3m	3m
I/O parameters		Pins: 32 pins input(NPN, PNP a	
Body Reserved Signa		12pins (aviation plug, 0.5m default cable length)	12 pins (aviation plug)
Pneumatic tube		1*Ф6	1*Φ6
Battery capacity		0.8kVA	1.56kVA
Rated power / voltage Body/Electric Cabi		0.6kW/Single Phase AC220V 50HZ/3.2A	
Protection Leve		IP54/IP53	IP54/IP53
Installation meth	od	Ground/Upside down/Side mount	Ground/Upside down/Side mount
Machine/power box	weight	27kg/20kg	55.5kg/38kg

HSR-JR603 Operation Parameter



HSR-JR605 Operation Parameter



HSR-JR607

Six axis joint Robot series

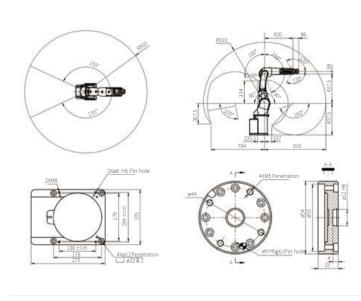
Introduction

HSR-JR607 will be designed as another small multipurpose six-joint robot of Huashu Robot. It has compact structure, small size, light weight, high joint speed, fast dynamic response, higher protection level, and can easily deal with various environments with water. This six-axis robot is mainly aimed at the assembly of new energy and consumer electronic components, and is positioned as a high-speed and high-precision assembly robot in the 3C industry.



±360° 180°/s, 3.14rad/s 180°/s, 3.14rad/s 225°/s, 3.92rad/s 225°/s, 3.92rad/s 225°/s, 3.92rad/s 450°/s, 7.85rad/s 0.52kgm² 18.1Nm 0~45°C Teach pendant cable length Pins: 32 pins input(NPN, PNP available), 31 pins output(NP Pneumatic tube Battery capacity 1.56kVA Rated power / voltage / current 1.25kW/Single Phase AC220V 50HZ/6.5A IP67/IP54

Operation Parameter



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HSR-JH605

Six axis joint Robot series

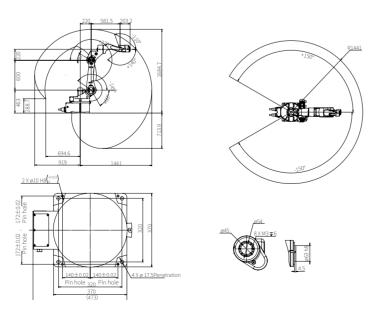
Introduction

Based on years of design experience, the brand-new HSR-JH605E is made for multiple types of welding situation. After scientifically rearranging the internal structure, all cables and components now are well protected from all sorts of external device interference, which makes it stable and reliable when it works in narrow space. It has also integrated rapid welding process deployment, welding after current interruption, intelligent weaving welding, positioner linkage and collision prevention and other functions.

Product mod	el _	HSR-JH605
Degree of freedo		6
Payload	111	5 5kg
Maximum moving r	adius	1441mm
		±0.06mm
Repeat positioning accuracy J1		±150°
	J2	-145°~+60°
	J3	+30°~+270°
Range of motion	J4	±120°
	J4 J5	-110°~+140°
	J6	±360°
	J1	
		148°/s, 2.58rad/s
	J2	148°/s, 2.58rad/s
Rated speed	J3	148°/s, 2.58rad/s
	J4	225°/s, 3.93rad/s
	J5	225°/s, 3.93rad/s
	J6	225°/s, 3.93rad/s
	J1	222°/s, 3.87rad/s
	J2	222°/s, 3.87rad/s
Rated speed	J3	222°/s, 3.87rad/s
	J4	337.5°/s, 5.89rad/s
	J5	337.5°/s, 5.89rad/s
	J6	337.5°/s, 5.89rad/s
Allowable moment	J4	0.3kgm²
of inertia	J5	0.3kgm²
	J6	0.035kgm²
	J4	35Nm
Allowable torque	J5	35Nm
	J6	15Nm
	Temperature	0~45°C
Applicable environment	Humidity	20%~80% Avoid contact with inflammable or corrosive gas and liquid,
	Other	Stay away from electronic noise(plasma)
Teach pendant cable Machine- Power box of		8m
cable length.	.ormect	5m
I/O parameters		Pins: 32 pins input(NPN, PNP available), 31 pins output(NPN)
Body Reserved Signa		-
Pneumatic tube	2	-
Battery capacity	/	2.5kVA
Rated power / voltage		2kW/Single Phase AC220V 50HZ/11A
Body/Electric Cab Protection Leve		IP50/IP50
Installation meth	nod	Ground/Upside down/Side mount
Machine/power box	weight	196kg/50kg



Operation Parameter



HSR-JM612

Six axis joint Robot series

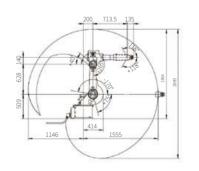
Introduction

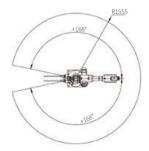
In order to solve the problem in 3C device (electronic device) polishing that the conventional robots can't adapt to the repeated impact with big load, dusty (dry grinding) and humid (water grinding) environment, and create continuous and stable production capacity for customers, Huashu HSR-JM612 was born. This model is specifically optimized for the grinding process, bringing the perfect 3C grinding solution for you.

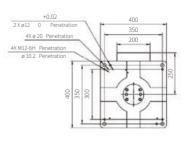
Product mod	el	HSR-JM612
Degree of freedo	m	6
Payload		12kg
Maximum moving ra	adius	1555mm
Repeat positioning ac	ccuracy	±0.06mm
	J1	±168°
	J2	-170°~+75°
	J3	+40°~+265°
Range of motion	J4	±180°
	J5	±118°
	J6	±360°
	J1	148°/s, 2.58rad/s
	J2	148°/s, 2.58rad/s
Dated	J3	148°/s, 2.58rad/s
Rated speed	J4	360°/s, 6.28rad/s
	J5	225°/s, 3.93rad/s
	J6	225°/s, 3.93rad/s
	J1	197°/s, 3.44rad/s
	J2	197°/s, 3.44rad/s
Databased	J3	197°/s, 3.44rad/s
Rated speed	J4	600°/s, 10.47rad/s
	J5	375°/s, 6.54rad/s
	J6	375°/s, 6.54rad/s
	J4	1.2kgm²
Allowable moment of inertia	J5	1.2 kgm²
Of ITIET U.S.	J6	0.17kgm²
	J4	35Nm
Allowable torque	J5	35Nm
	J6	15Nm
	Temperature	0~45°C
Applicable environment	Humidity	20%~80%
	Other	Avoid contact with inflammable or corrosive gas and liquid Stay away from electronic noise(plasma)
Teach pendant cable		8m
Machine- Power box c cable length.	connect	6m
I/O parameters	5	Pins: 32 pins input(NPN, PNP available), 31 pins output(NPN
Body Reserved Signa		
body rieserved orgina	l Line	26pin (solder connnected avaition plug)
Pneumatic tube		26pin (solder connnected avaition plug) -
	2	26pin (solder connnected avaition plug) - 3.8kVA
Pneumatic tube	: /	-
Pneumatic tube Battery capacity Rated power / voltage Body/Electric Cabi	/ / current	3.8kVA
Pneumatic tube Battery capacity Rated power / voltage	c / current inet	3.8kVA 3.kW/3phases AC380V 50HZ/5.4A

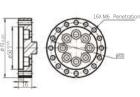


Operation Parameter









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HSR-JR612

Six axis joint Robot series

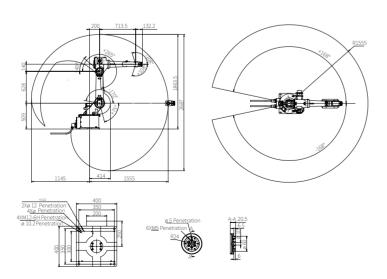
Introduction

The HSR-JR612 is a high performance universal small load joint robot. Thanks to the high rigid arm, independently developed high performance servo motor and control technology, it can realize the bigger arm stretching and bigger load compared to other robots of the same level. It has features such as high movement speed, high repeated positioning accuracy, which is especially suitable for polishing, handling and welding etc.

Donales de la lace		LICE IEC12
Product mod		HSR-JR612
Degree of freedo	m	6
Payload		12kg
Maximum moving r		1555mm
Repeat positioning ac		±0.06mm
	J1	±168°
	J2	-170°~+75°
Range of motion	J3	+40°~+265°
· ·	J4	±180°
	J5	±108°
	J6	±360°
	J1	148°/s, 2.58rad/s
	J2	148°/s, 2.58rad/s
Rated speed	J3	148°/s, 2.58rad/s
	J4	360°/s, 6.28rad/s
	J5	225°/s, 3.93rad/s
	J6	360°/s, 6.28rad/s
	J1	197°/s, 3.44rad/s
	J2	197°/s, 3.44rad/s
Rated speed	J3	197°/s, 3.44rad/s
Nateu speeu	J4	600°/s, 10.47rad/s
	J5	375°/s, 6.54rad/s
	J6	600°/s, 10.47rad/s
	J4	1.2kgm²
Allowable moment of inertia	J5	1.2 kgm²
OI ITIETUA	J6	0.17kgm²
	J4	35Nm
Allowable torque	J5	35Nm
	J6	15Nm
	Temperature	0~45°C
Applicable environment	Humidity	20%~80%
	Other	Avoid contact with inflammable or corrosive gas and liquid, Stay away from electronic noise(plasma)
Teach pendant cable	length	8m
Machine- Power box o cable length.	connect	6m
I/O parameters	5	Pins: 32 pins input(NPN, PNP available), 31 pins output(NPN)
Body Reserved Signa	l Line	12pin (solder connnected avaition plug)
Pneumatic tube	2	1*Φ8
Battery capacity	/	3.8kVA
Rated power / voltage	/ current	3kW/3phases AC380V 50HZ/5.4A
Body/Electric Cab Protection Leve	inet	IP54 (robot arm IP65) /IP53
Installation meth		Ground/Upside down/Side mount
Machine/power box		196kg/130kg



Operation Parameter



HSR-JR620

Six axis joint Robot series

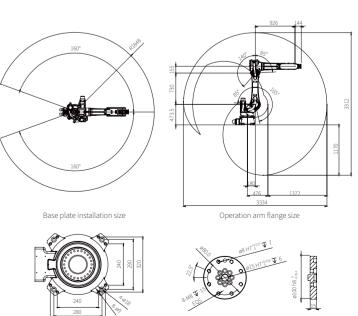
Introduction

The HSR-JR620 is designed with high precision. Through structural optimization, it adopts advanced control system and servo drive, features with high accuracy, good acceleration, large movement range and high rigid, which makes it easily handle with the manufacture processing, assembly and welding etc.

Product mod	el	HSR-JR620
Degree of freedo	m	6
Payload		20kg
Maximum moving r	adius	1848mm
Repeat positioning a	ccuracy	±0.06mm
	J1	±160°
	J2	-175°~+75°
	J3	+40°~+265°
Range of motion	J4	±180°
	J5	±125°
	J6	±360°
	J1	88°/s, 1.53 rad/s
	J2	66°/s, 1.15 rad/s
0.1	J3	120°/s, 2.09 rad/s
Rated speed	J4	178°/s, 3.11 rad/s
	J5	178°/s, 3.11 rad/s
	J6	225°/s, 3.93 rad/s
	J1	96°/s, 1.68 rad/s
	J2	88°/s, 1.53rad/s
	J3	192°/s, 3.35 rad/s
Rated speed	J4	297°/s, 5.18 rad/s
	J5	297°/s, 5.18 rad/s
	J6	375°/s, 6.54rad/s
	J4	8.7kgm²
Allowable moment	J5	3.3kgm²
of inertia	J6	0.8kgm²
	.14	140.4Nm
Allowable torque	J5	73.4Nm
	J6	30.7Nm
	Temperature	0~45°C
Applicable environment	Humidity	20%~80%
Applicable civiloriment	Other	Avoid contact with inflammable or corrosive gas and liquid,
Teach pendant cable		Stay away from electronic noise(plasma)
Machine- Power box o		8m
cable length. I/O parameters		6m
		Pins: 32 pins input(NPN, PNP available), 31 pins output(NPN)
Body Reserved Signa Pneumatic tube		24 pins (aviation plug)
Battery capacity		2*Φ8
		5.62kVA
Rated power / voltage Body/Electric Cab		4.5kW/3Phases AC380V/9A
Protection Leve		IP54/IP53
Installation met		Ground/Upside down
Machine/power box	weight	303.5kg/91kg



Operation Parameter





HSR-JR630

Six axis joint Robot series

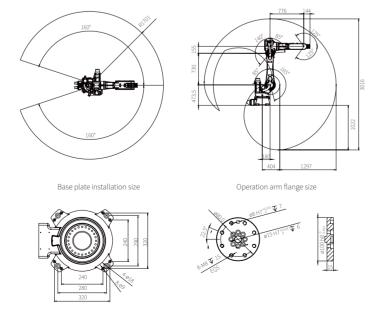
Introduction

As the tip of the spear in Huashu's product line up. The HSR-JR630 has further structural optimization and advance interpolation algorithm for the control system. Featuring with the highest precision, strong acceleration, outstandingly robust among Huashu's models, which makes it easily handle the palletizing, assembly, polishing

Product mod	el	HSR-JR630
Degree of freedo	m	6
Payload		30kg
Maximum moving ra	adius	1701mm
Repeat positioning ac	ccuracy	±0.05mm
	J1	±160°
	J2	-175°~+75°
Deans of mation	J3	+40°~+265°
Range of motion	J4	±180°
	J5	±125°
	J6	±360°
	J1	88°/s, 1.53 rad/s
	J2	66°/s, 1.15 rad/s
Rated speed	J3	120°/s, 2.09 rad/s
Rateu speeu	J4	178°/s, 3.11 rad/s
	J5	178°/s, 3.11 rad/s
	J6	225°/s, 3.93 rad/s
	J1	96°/s, 1.68 rad/s
	J2	88°/s, 1.53rad/s
Rated speed	J3	192°/s, 3.35 rad/s
Rateu speeu	J4	297°/s, 5.18 rad/s
	J5	297°/s, 5.18 rad/s
	J6	375°/s, 6.54rad/s
	J4	8.7kgm²
Allowable moment of inertia	J5	3.3kgm²
Of Intertia	J6	0.8kgm²
	J4	140.4Nm
Allowable torque	J5	73.4Nm
	J6	30.7Nm
	Temperature	0~45°C
Applicable environment	Humidity	20%~80%
	Other	Avoid contact with inflammable or corrosive gas and liquid, Stay away from electronic noise(plasma)
Teach pendant cable		8m
Machine- Power box c cable length.	onnect	6m
I/O parameters		Pins: 32 pins input(NPN, PNP available), 31 pins output(NPN)
Body Reserved Signa	l Line	24 pins (aviation plug)
Pneumatic tube		2*Ф8
Battery capacity		5.62kVA
Rated power / voltage		4.5kW/3phases AC380V/9A
Body/Electric Cabi Protection Leve		IP54/IP53
Installation meth	nod	Ground/Upside down
Machine/power box	weight	302kg/91kg



Operation Parameter



HSR-JR650/JR680

Six axis joint Robot series

Introduction

The HSR-JR650/JR680 are designed to match against the same type of product internationally. Its performance is in the lead comparing with the counterparts. At the meantime it also considered the process requirement in handling, welding etc, which is particularly suitable for crucial working environment.

Product model		HSR-JR650	HSR-JR680
Degree of freedom		6	6
Payload		50kg	80kg
Maximum moving radius		2400mm	2200.4mm
Repeat positioning a	ccuracy	±0.08mm	±0.07mm
	J1	±180°	±180°
	J2	-160°~+70°	-160°~+70°
Range of motion	J3	+10°~+265°	+10°~+265°
Range of motion	J4	±360°	±360°
	J5	±110°	±110°
	J6	±360°	±360°
	J1	85°/s, 1.48rad/s	85°/s, 1.48rad/s
	J2	85°/s, 1.48rad/s	85°/s, 1.48rad/s
Rated speed	J3	104°/s, 1.81rad/s	104°/s, 1.81rad/s
Nateu speeu	J4	177°/s, 3.08rad/s	177°/s, 3.08rad/s
	J5	155°/s, 2.70rad/s	155°/s, 2.70rad/s
	J6	187°/s, 3.26rad/s	187°/s, 3.26rad/s
	J1	127°/s, 2.21rad/s	127°/s, 2.21rad/s
	J2	127°/s, 2.21rad/s	127°/s, 2.21rad/s
Rated speed	J3	104°/s, 1.81rad/s	104°/s, 1.81rad/s
Rateu speeu	J4	177°/s, 3.08rad/s	177°/s, 3.08rad/s
	J5	155°/s, 2.70rad/s	155°/s, 2.70rad/s
	J6	187°/s, 3.26rad/s	187°/s, 3.26rad/s
	J4	32.7kgm²	32.7kgm²
Allowable moment of inertia	J5	32.7kgm²	32.7kgm²
Officerda	J6	25kgm²	25kgm²
	J4	400Nm	400Nm
Allowable torque	J5	340Nm	340Nm
	J6	330Nm	330Nm
	Temperature	0~45°C	0~45°C
Applicable environment	Humidity	20%~80%	20%~80%
	Other	Avoid contact with inflammab Stay away from elect	le or corrosive gas and liquid,
Teach pendant cable	~	8m	8m
Machine- Power box o cable length.	connect	8m	8m
I/O parameters	5	Pins: 32 pins input(NPN, PNP available), 31 pins output(NPN)	
Body Reserved Signa	l Line	26pin (solder connn	ected avaition plug)
Pneumatic tube	2	3*Ф10	3*Ф10
Battery capacity	/	7.5kVA	7.5kVA
Rated power / voltage		5.5kW/3phases A0	2380V 50HZ/10.8A
Body/Electric Cab Protection Leve		IP54 (robot arm IP65) /IP53	IP54 (robot arm IP65) /IP53
Installation met		Ground	Ground
Machine/power box weight		750kg/180kg	720kg/180kg

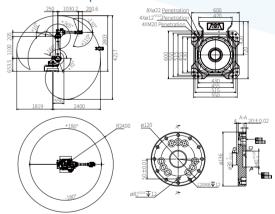




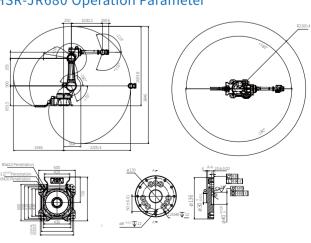
HSR-JR650

HSR-JR680

HSR-JR650 Operation Parameter



HSR-JR680 Operation Parameter



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HSR-JR6150

Six axis joint Robot series

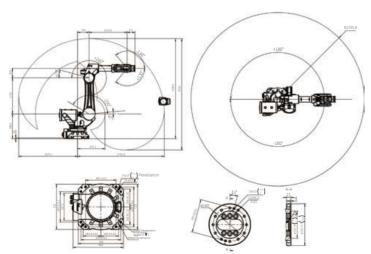
Introduction

Excellent stability, strict control of parts and components, the ultimate pursuit for every step of the assembly process, more stable performance and higher reliability, at the same time, with simple design which makes maintenance easier. with a load of 150kg and a working range of up to 2.7m, it can grasp objects in a larger range, standing close and grasping far. Excellent control, using Huashu's third-generation controller, excellent motion control makes the operation more stable and faster.

Product model		HSR-JR6150	
Degree of freedom		6	
Payload		150kg	
Maximum moving r	adius	2765.8mm	
Repeat positioning a	ccuracy	±0.1mm	
	J1	±180°	
	J2	-5°~-150°	
D f d	J3	+10°~+265°	
Range of motion	J4	±180°	
	J5	±110°	
	J6	±360°	
	J1	65°/s, 1.14rad/s	
	J2	69°/s,1.22rad/s	
Rated speed	J3	93°/s, 1.22rad/s	
Rateu speeu	J4	116°/s, 2.03rad/s	
	J5	148°/s, 2.40rad/s	
	J6	222°/s, 3.88rad/s	
	J1	97°/s, 1.70rad/s	
	J2	105°/s, 1.84rad/s	
Databased	J3	105°/s, 1.84rad/s	
Rated speed	J4	174°/s, 3.09rad/s	
	J5	173°/s, 3.03rad/s	
	J6	296°/s, 5.17rad/s	
	J4	55kgm²	
Allowable moment of inertia	J5	55kgm²	
OI Mertia	J6	25kgm²	
	J4	600Nm	
Allowable torque	J5	600Nm	
	J6	320Nm	
	Temperature	0~45°C	
Applicable environment	Humidity	20%~80%	
	Other	Avoid contact with inflammable or corrosive gas and liquid, Stay away from electronic noise(plasma)	
Teach pendant cable	length	8m	
Machine- Power box o cable length.	connect	8m	
I/O parameters	5	Pins: 32 pins input(NPN, PNP available), 31 pins output(NPN)	
Body Reserved Signal Line		18.5kVA	
Pneumatic tube		15kW/3phases AC380V/25A	
Battery capacity		IP54/IP53	
Rated power / voltage	/ current	Ground	
Body/Electric Cab Protection Leve		1320kg	
Installation meth		747X515X1280mm	
Machine/power box	weight	about 160kg	
,,			



Operation Parameter



HSR-HC410/HC415

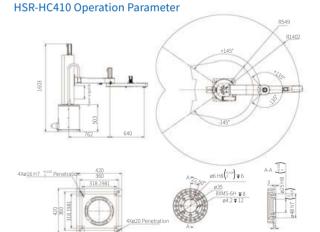
Four axis joint Robot series

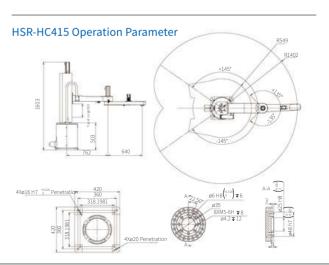
Introduction

The HSR-HC410/HC415 is a new generation of high rigidity 4 axis robot. It has a relatively lower price and higher performance, becoming the best choice for stamping and handling industry. With the independently developed control system and the optimized teach pendant, it delivers high reliability, fast movement, high relocate accuracy and high cost performance. Totally satisfies the high requirement in pressing and handling situation.



Product model		HSR-HC410	HSR-HC415
Degree of freedom		4	4
Payload		10kg	15kg
Maximum moving	radius	1402mm	1402mm
Repeat positioning a	accuracy	±0.05mm	±0.05mm
	J1	±145°	±145°
December 1	J2	±135°	±135°
Range of motion	J3	±250mm	±250mm
	J4	±180°	±180°
	J1	225°/s, 3.93rad/s	225°/s, 3.93rad/s
	J2	225°/s, 3.93rad/s	225°/s, 3.93rad/s
Rated speed	J3	500mm/s	500mm/s
	J4	180°/s, 3.14rad/s	180°/s, 3.14rad/s
	J1	300°/s, 5.23rad/s	300°/s, 5.23rad/s
	J2	375°/s, 6.54rad/s	375°/s, 6.54rad/s
Rated speed	J3	830mm/s	830mm/s
	J4	360°/s, 6.28rad/s	360°/s, 6.28rad/s
Allowable moment of inertia	J4	2kgm²	3kgm²
Allowable torque	J4	40Nm	50Nm
	Temperature	0~45°C	0~45°C
Applicable environment	Humidity	20%~80%	20%~80%
	Other	Avoid contact with inflammab Stay away from elect	le or corrosive gas and liquid, ronic noise(plasma)
Teach pendant cable		8m	8m
Machine- Power box o cable length.	onnect	6m	6m
I/O parameters	S	Pins: 32 pins input(NPN, PNP available), 31 pins output(NPN)	
Body Reserved Sign	nal Line	12 cores default cable length: 0.5m	
Pneumatic tube	2	1*Ф8	1*Ф8
Battery capacity	У	2.3kVA	2.8kVA
Rated power/voltage/o		1.8kW/3Phases AC380V 50HZ/3.2A	2.2kW/3Phases AC380V 50HZ/4A
Body/Electric Cabinet Protection Level		IP54/IP53	IP54/IP53
Installation method		Ground	Ground
Machine/power box weight		230kg/50kg	250kg/50kg





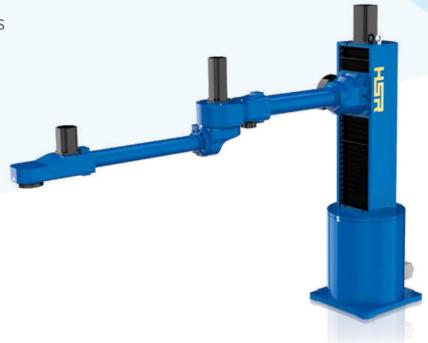


HSR-HC420

Four axis joint Robot series

Introduction

With the advantage that born with HSR-HC420, It is totally capable to replace the role of 50kg class six axis robot in stamping and handling industry, Features with highly efficient and high cost performance, the variable arm design allows it to adapt different tonnage pressing machine. It mainly focuses on heavy pressing industry, especially for automobile or household electrical appliance industry, which achieves low investment and high return.



HSR-HC403

Four axis joint Robot series

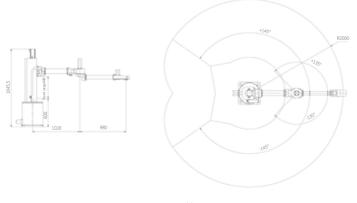
Introduction

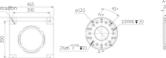
The HSR-HC403 high protection robot featuring with high protection rating design, allows it to operate under high humidity, or other harsh environment that contains oil, acid, alkaline cutting coolant. Its design isolates the contact of external air to the internal component. Tremendously reduce the chance of malfunction due to environmental factors. Particularly suitable for electronic device industry handling, sorting, assembly task etc.



Product model		HSR-HC420
Degree of freedom		4
Payload		20kg
Maximum moving	radius	2000mm
Repeat positioning a	iccuracy	±0.08mm
	J1	±145°
	J2	±135°
Range of motion	J3	0mm~480mm
	J4	±360°
	J1	108°/s, 1.88rad/s
	J2	148.76°/s, 2.60rad/s
Rated speed	J3	500mm/s
	J4	225°/s, 3.93rad/s
	J1	216°/s, 3.77rad/s
	J2	198°/s, 3.54rad/s
Rated speed	J3	667mm/s
	J4	375°/s, 6.54rad/s
Allowable moment of inertia	J4	6.5kgm²
Allowable torque	J4	90Nm
	Temperature	0~45°C
Applicable environment	Humidity	20%~80%
	Other	Avoid contact with inflammable or corrosive gas and liquid, Stay away from electronic noise(plasma)
Teach pendant cable	length	8m
Machine-Power box or cable length.	onnect	6m
I/O parameters	5	Pins: 32 pins input(NPN, PNP available), 31 pins output(NPN)
Body Reserved Sign	al Line	12pins (aviation plug, 0.5m default cable length)
Pneumatic tube	2	1* 0 6
Battery capacity	/	5.6kVA
Rated power / voltage / c	turrent	4.5kW/3Phases AC380V 50HZ/8.1A
Body/Electric Cat Protection Lev		IP54/IP53
Installation method		Ground

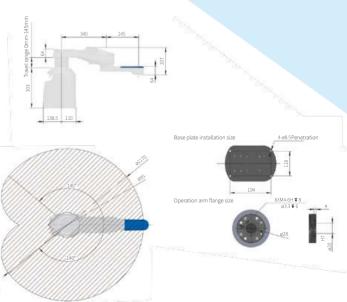
Operation Parameter





Product mo	del	HSR-HC403	
Degree of freedom		4	
Payload		3kg	
Maximum moving	radius	585mm	
Repeat positioning a	ccuracy	±0.02mm	
	J1	±140°	
D f f	J2	±180°	
Range of motion	J3	0mm~145mm	
	J4	±360°	
	J1	225°/s, 3.95rad/s	
	J2	225°/s, 3.95rad/s	
Rated speed	J3	500mm/s	
	J4	360°/s, 6.28rad/s	
	J1	375°/s, 6.54rad/s	
	J2	375°/s, 6.54rad/s	
Rated speed	J3	1000mm/s	
	J4	588°/s, 10.26rad/s	
Allowable moment of inertia	J4	0.03kgm²	
Allowable torque	J4	6.4Nm	
	Temperature	0~45°C	
Applicable environment	Humidity	20%~80%	
	Other	Avoid contact with inflammable or corrosive gas and liquid, Stay away from electronic noise(plasma)	
Teach pendant cable	~	8m	
Machine- Power box o cable length.	onnect	5m	
I/O parameters	5	Pins: 32 pins input(NPN, PNP available), 31 pins output(NPN)	
Body Reserved Sign	al Line	-	
Pneumatic tube	2	-	
Battery capacity	/	0.6kVA	
Rated power / voltage / c	current	0.5kW/Single Phase AC220V 50HZ/2.5A	
Body/Electric Cat Protection Lev	oinet el	IP64 (Optional IP67) /IP53	
Installation metho	od	Ground/Upside down/Side mount	
Machine/power box	weight	25kg/38kg	

Operation Parameter





HSR-SR3400/SR6600

Four axis joint Robot series

Introduction

The HSR-SR3400/SR6600 is specifically designed for desktop class pickup and install situation. Featuring high speed, high accuracy, different work load setting with range between 1-6kg, it can be widely applied in electronic, medication and food





HSR-SR6600

HSR-SR3400 Operation Parameter

duct mo	del	HSR-SR3400	HSR-SR6600
gree of freedo	om	4	4
Payload		3kg	6kg
num moving i	radius	400mm	600mm
positioning a	ccuracy	±0.01mm	±0.02mm
	J1	±132°	±132°
	J2	±135°	±150°
motion	J3	0~-150mm	0~-200mm
	J4	±360°	±360°
	J1	360°/s, 6.28rad/s	225°/s, 3.92rad/s
	J2	470°/s, 8.19rad/s	360°/s, 6.28rad/s
speed	J3	710mm/s	666mm/s
	J4	1500°/s, 26.16rad/s	1200°/s, 20.93rad/s
	J1	530°/s, 9.24rad/s	375°/s, 6.54rad/s

	J3	0~-150mm	0~-200mm
	J4	±360°	±360°
	J1	360°/s, 6.28rad/s	225°/s, 3.92rad/s
	J2	470°/s, 8.19rad/s	360°/s, 6.28rad/s
Rated speed	J3	710mm/s	666mm/s
	J4	1500°/s, 26.16rad/s	1200°/s, 20.93rad/s
	J1	530°/s, 9.24rad/s	375°/s, 6.54rad/s
D	J2	700°/s, 12.21rad/s	600°/s, 10.46rad/s
Rated speed	J3	1065mm/s	1111mm/s
	J4	2600°/s, 43.35rad/s	2000°/s, 34.88rad/s
Allowable moment of inertia	J4	0.05/0.005kgm²	0.12/0.01kgm²
Allowable torque	J4	3.29Nm	4.23Nm
	Temperature	0~45°C	0~45°C
Applicable environment	Humidity	20%~80%	20%~80%
	Other	Avoid contact with inflammab Stay away from elect	le or corrosive gas and liquid, ronic noise(plasma)
Teach pendant cable length		8m	8m
Machine- Power box connect cable length.		3m	3m
I/O parameters		Pins: 32 pins input(NPN, PNP	available), 31 pins output(NPN)

Body Reserved Signal Line 12 pins (aviation plug) 12 pins (aviation plug)

Rated power / voltage / current 0.55kW/Single Phase AC220V 50HZ/3A 0.62kW/Single Phase AC220V 50HZ/32A IP54/IP20

Ground/Desktop

Machine/power box weight 17.5kg/10.65kg 21.5kg/10.65kg

0.75kVA 0.8kVA

IP54/IP20

Ground/Desktop

Pneumatic tube

HSR-SR6600 Operation Parameter	
159 35.2/ 20 45.1/ 27.5 159 35.1/ 20 27.5 159	955
V 25 325 325 50 135	1507
nmPlane slots F Conical holeas LimmPlane slots ac20h75haft diameter a42Mechanical stop-bit diameter Future installation location details	245 492.5 551.5

HSR-SR5700

Four axis joint Robot series

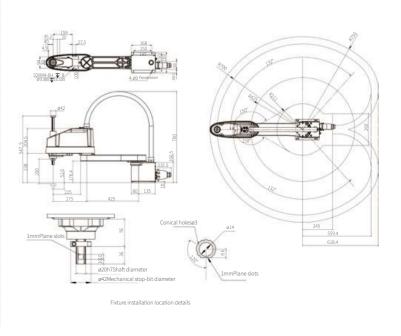
Introduction

Thanks to years of experience of accumulation on servo control, the HSR-SR5700 adopts independently developed control technology, cleverly uses the performance of servo motor performance, featuring with large travelling range, high accuracy, high performance, multiple levels of load from 2kg to 5kg. It can be widely used in the field of electronic, medication and food industry etc.



Product model		HSR-SR5700	
Degree of freedom		4	
Payload		5kg	
Maximum moving	radius	700mm	
Repeat positioning a	ccuracy	±0.02mm	
	J1	±132°	
Danca of mation	J2	±150°	
Range of motion	J3	0~-200mm	
	J4	±360°	
	J1	225°/s, 3.92 rad/s	
	J2	420°/s, 7.32 rad/s	
Rated speed	J3	666mm/s	
	J4	1400°/s, 24.42 rad/s	
	J1	335°/s, 5.84rad/s	
	J2	600°/s, 10.46rad/s	
Rated speed	J3	1111mm/s	
	J4	2000°/s, 34.88 rad/s	
Allowable moment of inertia	J4	0.12/0.01kgm²	
Allowable torque	J4	4.23Nm	
	Temperature	0~45°C	
Applicable environment	Humidity	20%~80%	
	Other	Avoid contact with inflammable or corrosive gas and liquid, Stay away from electronic noise(plasma)	
Teach pendant cable		8m	
Machine- Power box o cable length.	onnect	3m	
I/O parameters	5	Pins: 32 pins input(NPN, PNP available), 31 pins output(NPN)	
Body Reserved Sign	al Line	12 pins (aviation plug)	
Pneumatic tube		3*Ф6	
Battery capacity		0.8kVA	
Rated power / voltage / c	turrent	0.62kW/Single Phase AC220V 50HZ/3.2A	
Body/Electric Cab Protection Lev	oinet el	IP54/IP20	
Installation method		Ground/Desktop	
Machine/power box weight		22.5kg/10.65kg	

Operation Parameter



27 | HUASHU ROBOT HUASHU ROBOT | 28



HSR-DT401 / DT803

400mm

3200W

Pins:24pins input, 24pins output Network port:1 Ethercat Interface:1↑

TCP/IP、MODBUS TCP

Upside down

20%-85%

0~45°C

Delta robot series

Introduction

Maximum moving radius

Rated power

Telecommunications

Body Reserved Signal Line Pneumatic tube

Installation method

Power box weight Power box size. Machine- Power box connect cable length. Teach pendant cable length

Temperature

HSR-DT series robots are suitable for rapid sorting and packing in various industries. They integrate intelligent visual recognition functions and have good dynamic tracking functions, which can meet most of the scenes that require rapid sorting. DT_Catch software integrates vision setting, tool setting, trajectory setting, palletizing module, and calibration module into one module, which is easy for operation. Relying on the mature motion control technology of Huazhong CNC for many years, it ensures the precise positioning and stable operation of the robot. The key moving parts adopt imported mature brands to ensure service life.

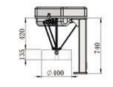
200mm

85kg

Desktop



HSR-DT401 Operation Parameter

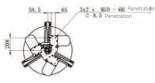




HSR-DT803	Operation	Parameter
-----------	-----------	-----------







Manakinglesse
Mounting flange
Alexander and a second
8 B
Ø 7.9 ▼ 8
1/8 Rc Threaded hole





HSR-DT1208

Delta robot series

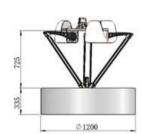
Introduction

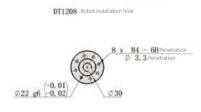
HSR-DT series robots are suitable for rapid sorting and packing in various industries. They integrate intelligent visual recognition functions and have good dynamic tracking functions, which can meet most of the scenes that require rapid sorting. DT_Catch software integrates vision setting, tool setting, trajectory setting, palletizing module, and calibration module into one module, which is easy for operation. Relying on the mature motion control technology of Huazhong CNC for many years, it ensures the precise positioning and stable operation of the robot. The key moving parts adopt imported mature brands to ensure service life.



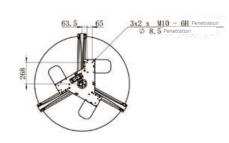
Operation Parameter

FIUUUCLIIIUUEL	ע-אכוו	11200	
Degree of freedom	3	3+1 (Motor direct connection type)	
Payload	8kg	8kg	
Maximum moving radius	600mm	600mm	
Maximum pickup and place height	335mm	335mm	
The fourth axis rotation angle	/	±360°	
Repeat positioning accuracy	±0.1mm	±0.1mm	
Operation beats perminute (25mm- 305mm-25mm) , 0.1KG	180	180	
Voltage	380V	380V	
Rated power	6200W	6300W	
I/O parameters	Pins:24pins input, 24pins output		
Communication interface	Network port:1 Ethercat Interface:1个		
Telecommunications	TCP/IP、MODBUS TCP		
Body Reserved Signal Line	10pins (Termin	als connection)	
Pneumatic tube	None	None	
Machine weight	135kg	145kg	
Installation method	Upside down	Upside down	
Power box weight	43kg	45kg	
Power box size.	575 (Wide) ×352 (Thickness) ×530 (High)	575 (Wide) ×352 (Thickness) ×530 (High)	
Machine-Power box connect cable length.	5m	5m	
Teach pendant cable length	No Handheld	No Handheld	
Humidity	20%-85%	20%-85%	





DT1208 Robot installation hole



29 | HUASHU ROBOT HUASHU ROBOT | 30

MAGOTECH Cases in Contouring

Quality is the unshakable foundation. It is also our dedication to perfection.



Professional Solution

Huashu Robot provide both product and manufacture solution to our customer, dedicating to win the market and satisfy its need.

Mature innovation system

Huashu Robot tightly follow the trend of the market. Through years of innovation in various field, we are now able to continuously release new products and expand the field of application while always meet the market need.



Mobile phone shell polishing

Laptop assembly



Mobile phone shell polishing



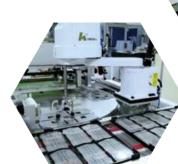
Laptop loading and unloading





Desktop assembly

Mobile phone plastic shell polishing



Laptop assembly

(old model)

Router production



Mobile phone silk screen printing



3C industry handling





3C industry handling



Microphone accessories automatic processing on machine



3C industry handling

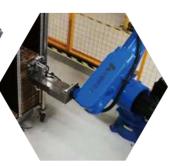


Laptop assembly

3C industry handling



Laptop intelligent production line



PCB loading and unloading



Wearable smart device



Large size touchable glass bottle palletizing



Processing of mobile phone casings



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Servo motor machining



Load and unload the machining center



Load and unload the machining center

33 | HUASHU ROBOT



Load and unload the machining center



Load and unload the machining center



Hub flange machining



Loading and unloading in the hydraulic industry



Machining in digital workshop



Disk parts machining

Loading and unloading for lathe machine



Loading and unloading

for lathe machine



Flange machining





Cooling fin machining



Metal bar machining

Load and unload the

machining center

Variable-speed drum machining

valve machining

Machining in digital workshop

Load and unload the

machining center

Load and unload the machining center





Aluminum rod sleeve machining



Valve element machinig



Shell machinig production line



Aluminum cooling fin machining



Quality is the unshakable foundation. It is also our dedication to perfection.

Application Cases in Kitchenware inclusion

Quality is the unshakable foundation. It is also our dedication to perfection.



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Sheet metal stamping





Grinding and stitching pot mouth and bottom



Loading and uploading of aluminum pot bottom





Hand washing tray stamping loading and unloading



Metal sheet stamping

Home appliance assemble







Production line of aluminum pot stretching mouth stitching and punching

Force control polishing li



Round pot polishing



Stretching stitching mouth and botton



Grinding and stitching pot mouth and bottom



Shredder parts loading and unloading



Load and unload the

machining center

Packing carton palletizing



Sheet metal stamping



Home appliance assembly



Grinding and stitching pot mouth and bottom



Loading and uploading of aluminum pot bottom

of aluminum pot bottom



Deburring and reclaiming for injection parts



Automatic loading and unloading for flange grinder



35 | HUASHU ROBOT HUASHU ROBOT | 36 Quality is the unshakable foundation. It is also our dedication to perfection.

Worther inclustries application case

Quality is the unshakable foundation. It is also our dedication to perfection.



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unloading of parts





in metal products industry



Unloading cooling fin in hardware industry



Injection molding machine loading and unloading

Welding steel structure parts of motorcycle



Rearview mirror glass

loading and unloading

Wheel spraying







Pharmaceutica preparationl industry application



Steel structure parts welding







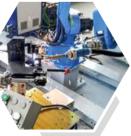
Automotive parts welding application







Copilot glove box spraying



Automotive parts welding application



Engine glue application

Injection molding machine

loading and unloading



High-speed rail communication signal room wiring



Ice cream scoop sorting in the food industry





Parts loading and unloading



Loading and unloading hydraulic valve for machine



Loading and unloading of parts flange



Automatic loading and unloading

Garbage palletizing in environmental protection industry



Champagne box loading and unloading in the beverage industry



3D visual reclaiming

Grouting loading and unloading of ceramic flowerpots

Nationalis and state and state and an experience of the state of the s

Quality is the unshakable foundation. It is also our dedication to perfection.

The pictures below shows one of our client's smart factory which has 10 automatic drilling and tapping production line. This factory now has 180 Huashu HNC-818AM high speed drilling and tapping machines, 120 Huashu robots, 30 RGV and 10 AGV transport vehicles, one automatic raw material examine system. At the meantime, all these devices are also equipped with fully domestic developed industrial software, including Huazhong Numerical Control new generation cloud control platform, CAP, APS advance planning system, MES manufacture management system, 3D analogue system etc. As a result, this factory became the demonstration site of Chinese Intelligent Manufacture chosen the Ministry of Industry and Information Technology and the Chinese Academy of Engineering.









"Domestication" "Tech-integration" "One core'

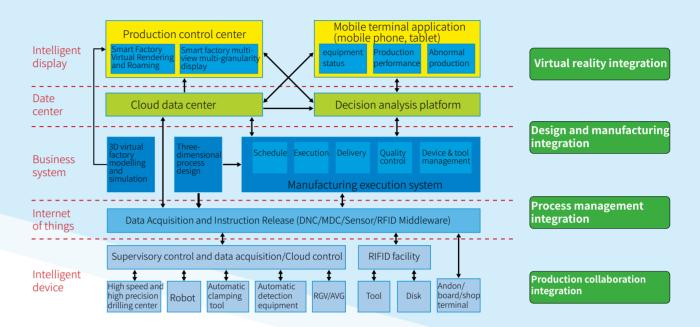




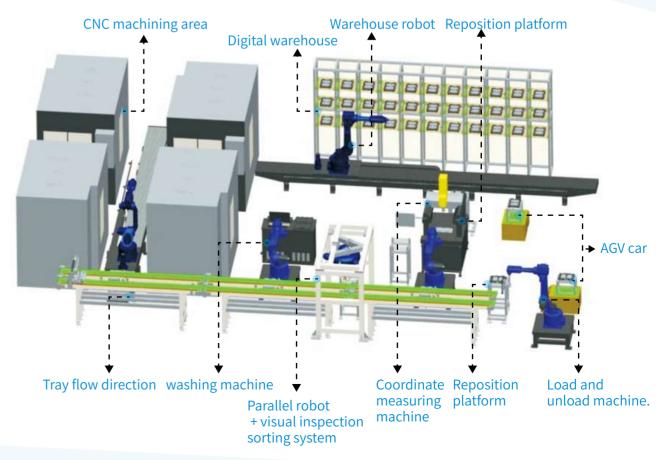


1. One core





2. Floor plan



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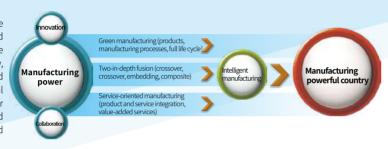
3. Overview

As the integrated automation solution for the unmanned automatic processing production line, Huashu combines the 612, 620 series robot and the AGV vehicle to realize the transportation between each processing step. The whole production line controlled by a Huashu developed terminal control system. At the meantime, the manufacture data can connect to the ERP management system, helping the factory to achieve the goal of digital management.



Project background

The application of intelligent manufacture for modern factory has become a trend worldwide. The 'Industry 4.0' integrates the technology of Internet, computational technology, communication technology, software and automation technology to transform traditional production technology and processes, in order to improve the intelligence of manufacture and establish the digital, Internet and smart unmanned (few workers) factory.



Project value

- Reduce management cost: Smart factory tightly follows the directive of 'Made in China 2025', carrying distinctive feature and advancedness. Smart factory can significantly reduce the management cost, making the corporation more flexible and competitive.
- Reduce manufacture cost: Smart factory can reduce 70% of need in labor force with more than 99% of pass, 20% lower cost on material. It also helps shorten the development period, resulting higher manufacture efficiency.
- ♦ Improve product quality: Smart factory has significant advantages in terms of productivity, quality stabilities and improving product competitive compared to the traditional factory.
- ◆ Improve factory competivity: Smart factory covers various fields including: CNC process, Robotic control, Electric, Statistic, Management etc. With the open source platform feature, scholars and professionals can conduct more deep-in research independently.

Project significance



Automated production can save more than 70% labor for manufacture process.





Workshop energy utilization increased by more than 15%, with energy consumption unchanged



Enterprise human resources quality

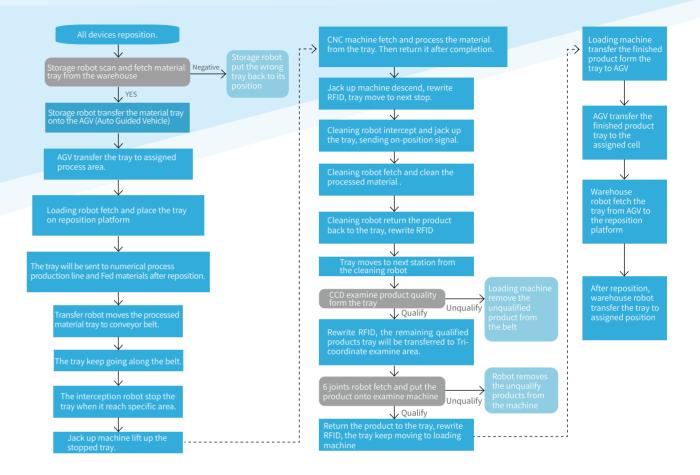
Promote enterprise upgrade and transformation: traditional manufacturing, service-oriented manufacturing, the company turned gorgeous.

Reduce product defect rate by more than 30%: online detection, product information tracking in real time, avoiding defective product circulation; intelligently optimize processing technology and procedures to improve product quality.

Improve device usage: APS smart planning, Application of MES system, utilize digital information system to help to improve theflexibility during manufacture.



4. Flow chart



5. Other projects

♦ This project is one of the 2016 demonstration project of 'Intelligence Manufacture' for the Ministry of Industry and Information Technology. This project integrates the use of big data, cloud platform, ERP, MES, WMS, PLM, 3D modelling, augmented reality simulation and indigenous CNC software. It tremendously improves the production quality of servo motor digitalized factory, and promotes the informatization, intelligence and collaboration of the company.





♦ The is the 2016 demonstration project of new manufacture standardization shown by the Ministry of industry and information technology. This project includes 200 sets of Huashu high speed drilling and tapping equipments, 106 Huashu robots, 10 AGV carts, 20 automatic conveyor belts and a series of smart industrial software application. Comparing with the traditional factory, this project can reduce 60% labor force and lower 20% of product reject ratio.

41 I HUASHU ROBOT HUASHU ROBOT | 42 | Product selection |



Memo	Memo