



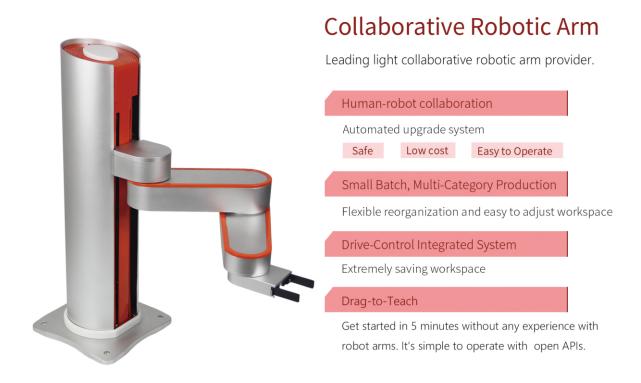
HitBot Collaborative Robotic Arm

Product Manual



Huiling-tech Robotic Co., Ltd

Industrial Robot



Can perform a wide array of dedicated tasks with a free range of motion.

/High precision/

0.03mm Positional Accuracy

/High speed/

1255.45mm/s

/Heavy payload/

3kg

/Large arm span/

J1 axis 200mm J2 axis 200mm

/Wide range of motion/

J1 axis ±90°

J2 axis ±164°

Z axis stroke 210mm

Unlimited rotation range of R axis

/Ultrahigh performance -to-cost ratio/

Industrial quality consumer affordable

/Collaboration/

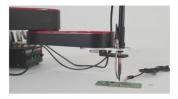
Multi-robot mode

Human-robot collaboration

/Communication mode/

Wi-fi Ethernet

/ Application scenarios









Circuit board welding

Dispensing

Pick and place

Screw driving







Laser engraving

3D Printing

Goods sorting

We can do more, just imagine...

The tool end of Z-Arm can be changed. This meets the requirements of many different applications and tasks. It can be your flexible and efficient assistant and collaborate with you on many projects: 3D printing, pick and place, soldering, laser engraving, object recognition, and so on. The only limit is your imagination.

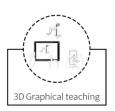
The SCARA class of robot is highly accurate, fast; has an excellent range of motion for its mid-range price, and is the best selling robot in the medical and 3C industries. The medical field has an extremely strict requirement for the working environment, precision, collaboration and flexibility. A typical industrial robotic arm cannot satisfy these requirements. 3C products are becoming thinner and more integrated, and human production cannot satisfy the progress of the these market verticals. However, the Snake released by Hitbot breaks free from this limitation, adopting a z-axis in its design creating the potential of working in a small cell. The cost of this new class of robotic arm dramatically reduces the cost while improving production efficiency.

Additionally, Hitbot's Z-Arm have high accuracy, are equipped with a collaboration capability, and a powerful electric gripper meeting a need in the medical, 3C, small to medium manufacturing and assembly industries.

/ Usage









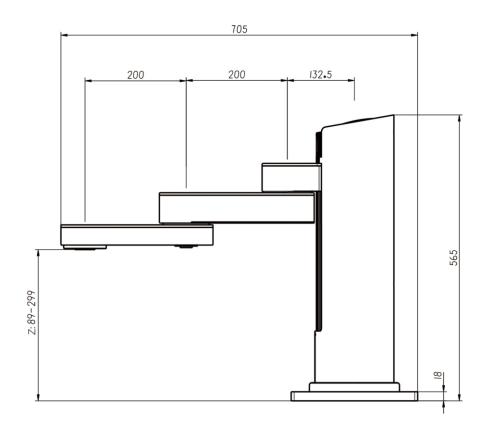


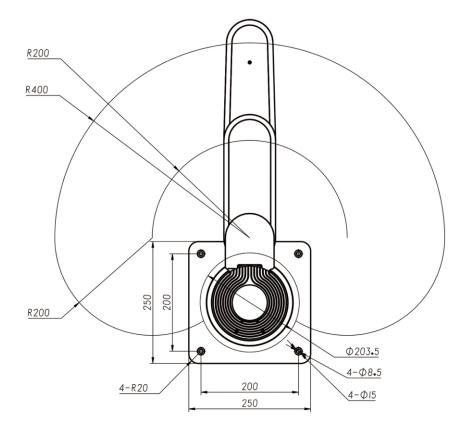


/ Specification table

			Model	
Parameter			Z-Arm 2140	Z-Arm 2140C
			non-collaborative	collaborative
Basic Information	J1-axis	Arm length	200mm	200mm
		Rotation angle	±90°	±90°
	J2-axis	Arm length	200mm	200mm
		Rotation angle	±164°	±164°
	Z-axis	Stroke	210mm	210mm
	R-axis	Rotation angle	±180°	±180°
linear velocity			1255.45mm/s (1.5kg payload)	1023.79mm/s (2kg payload)
Repeatability			±0.03mm	±0.03mm
Rated payload			1.5kg	2kg
Maximum payload			2.5kg	3kg
Degree of freedom			4	4
Power			220V/110V 50~60Hz	220V/110V 50~60Hz
			Adapter to 24V DC	Adapter to 24V DC
Communication			Wifi/Ethernet	Wifi/Ethernet
Extensibility			The built-in motion controller,	The built-in motion controller,
			provides 10 I/O	provides 10 I/O
1/0 П	Digital input (isolated)		5	5
	Digital output (isolated)		5	5
	Analog input(4-20mA)		/	/
	Analog output (4-20mA)		/	/
Height			565mm	565mm
Weight			19kg	19kg
Base	Overall siz	re e	250mm*250mm*10mm	250mm*250mm*10mm
installation	Mounting hole spacing		200mm*200mm	200mm*200mm
parameters			with 4 M8*25 screws	with 4 M8*25 screws
Collision detection			×	√
Handhold teaching			×	√

/ Range of motion and dimensional drawing







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