





CONTENTS

01 ABOUT AGILEBOT

Our Values
Our Business

- 03 CORE COMPETENCE
- **04 PATENTS & CERTIFICATES**
- **05 PRODUCT APPLICATIONS**

Industries Applications

06 SERVICE

07 PRODUCTS SERIES

Complete Portfolio

Product Selection

SCARA Series

PUMA Series

Cobot Series

Controllers & Software

- **37 SUCCESS CASES**
- **39** Appx:Products Overview

ABOUT AGILEBOT



Agilebot Robotics Co., Ltd. is a professional provider of Industrial Robotics (IR) and intelligent Magnetic Transport System (MTS). With a vision of driving the factories of the future, and a mission to build an infrastructure ecosystem for intelligent manufacturing, we are dedicated to pushing the boundaries through the seamless integration of cutting-edge technologies. Our expertise spans motion control, motor control, communication systems, sensor technology, and intelligent algorithms, all meticulously fused into our line of IR and MTS products. We focus on the deep-rooted industry application of these technologies, progressively diversifying, specializing, and nurturing an ecosystem of technological platforms and end products that deliver multifaceted values to our clients.

At Agilebot, we have built a comprehensive infrastructure for manufacturing, testing, and traceability. This commitment to excellence, driven by continuous process innovation and elevated management standards, ensures the prime quality of our products. Beyond developing a wide range of robot categories, MTS and functional software, we extend our commitment to clients through services like training, maintenance, technical support, and solution consulting.

Backed by our advanced Integrated Motion Control technology, Agilebot places independent R&D and control of key technology at the core of our growth approach, with a dedication to fundamentally satisfying market demands as our guiding principle. Our unwavering goal is to consistently provide clients with high performance, top-quality, cost-effective, and user-friendly products that empower their industrial operations.

VISION:

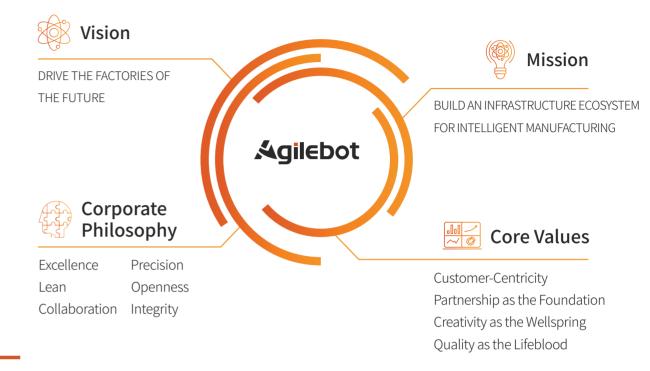
DRIVE THE FACTORIES OF THE FUTURE!

MISSION:

BUILD AN INFRASTRUCTURE ECOSYSTEM

FOR INTELLIGENT MANUFACTURING!

Our Values



Our Business



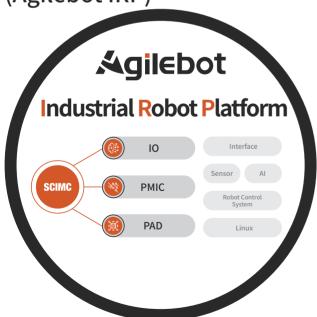
CORE COMPETENCE



Single Chip Multiaxis Integrated Motion Controller(SCIMC)

Leveraging the world's first single-chip Integrated multi-axis motion controller, SCIMC, with full intellectual property rights and advanced motion control technology, Agilebot has developed a precision motion control platform specifically tailored for the industrial robotics industry.

Agilebot Industrial Robot Platform (Agilebot IRP)



An Open, General-Purpose, and Efficient Platform

- Our in-house developed heterogeneous control system architecture based on ARM cores ensures high real-time and synchronization capabilities.
- Open-source Linux system guarantees platform openness.
- FPGA supports freely defining external interfaces.

Support for Multiple Robot Configurations

 Based on parametric modeling, our platform supports multiple all-purpose industrial robot configurations and their product lines

Substantial Capabilities for Application

- Our independent system architecture and underlying algorithms support the development of various application coffusion.
- Easy to integrate vision and force sensors for functions such as welding, cutting, gluing, polishing, and visual tracking.

Efficient Motion Planning Algorithms

 Efficient motion trajectory planning algorithms enable rapid and smooth robot movements with exceptionally high trajectory precision.

Advanced Dynamics Algorithms

 Dynamics algorithms ensure that robots operate at high speeds, achieve precise positioning, and exhibit excellent control performance.

Optimized Servo Motor Control Algorithms

 We have optimized servo motor control algorithms, improving three-loop control performance and enabling precise positioning, speed, and torque control.

User-Friendly Human-Machine Interface

 Our web-based cross-platform UI design offers a user-friendly human-machine interaction experience.

PATENTS & CERTIFICATES

Currently, Agilebot has accumulated 65 domestic and international patent applications, including 34 invention patents, 22 utility model patents, 4 design patents, and 5 software copyrights. Additionally, Agilebot has successfully obtained various product certifications, such as Robot CR Certification, CE Certification, IP67 Protection Certification, and ISO Class 4 Cleanroom Certification, through rigorous standards and testing processes.

SCIMC Core Patents



Single Chip Multiaxis Integrated Motion Controller Patent Certification (China)



Single Chip Multiaxis Integrated Motion Controller Patent Certification (United States)



Single Chip Multiaxis Integrated Motion Controller Patent Certification (Japan)



Single Chip Multiaxis Integrated Motion Controller Patent Certification (Europe)

Invention patents



Control Unit for a Robot System, Robot System, and Control Method for a Robot System



Method and Apparatus for Identifying the Dynamic Parameters of a Multi-Link Robot



Visual Classification Method, System, Apparatus, and Computer-Readable Medium



Method for Electronic Device and Operating an Electronic Device

Product Certification



IP67 Protection Certification



CE Certification



MTBF 50,000 Hours Certification



ISO Class 4 Cleanroom Certification

PRODUCT APPLICATIONS

Industry Applications







Automotive Components



Consumer Electronics



Pharmaceuticals



Components



Semiconductors & Photovoltaics



FMCG

·Cleaning



Cosmetics

Application Scenarios

·Visual Inspection ·Logistics Packaging ·Loading and Unloading ·Cutting

· Visual Sorting ·Polishing and Buffing ·Assembly







rehensiv



Service Hotline

- Technical Support Hotline
- ► Exclusive Service Window for VIP Clients*1

4 Training Services

- ▶ Basic Operation Training
- ▶ Electrical and Programming Training
- Process Technology Training

and Design

- Application Consultation Solution Consultation
- and Design

- ▶ Standard Maintenance
- ▶ Electrical and Mechanical Repairs
- ▶ Response within 12 hours*

and Service

- ▶ On-site arrival within 24 hours after response
- ▶ Inspection and Service available

5 Robot Maintenance

Solution Consultation

- Commissioning
 - ▶ Robot Delivery and Installation ▶ On-Site Robot Commissioning

Installation and

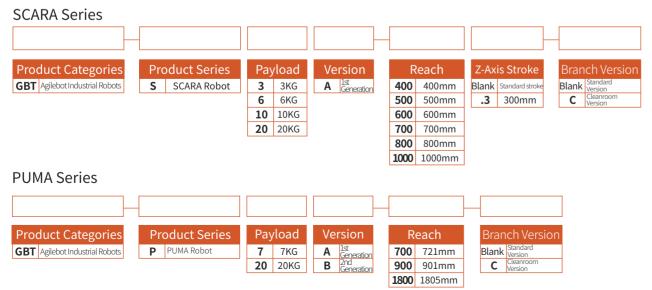
Robot Spare Parts or Retrofits

- ▶ Robot Spare Parts
- ▶ Robot Peripheral Product Spare Parts
- Retrofit or Upgrade Services for Sold Robots
- $^{\star}1\,\text{We provide VIP clients with dedicated FAE (Field Application Engineer) services, offering faster response times and personalized}$
- *2 "Response" refers to service personnel confirming service requirements with clients and providing solutions.
- *3 The 24-hour on-site arrival is applicable during working hours and is limited to the Yangtze River Delta region, except in cases affected by force majeure factors.

COMPLETE PORTFOLIO



Model Naming Rules of Agilebot Industrial Robots & Controllers Series



Cobot Series

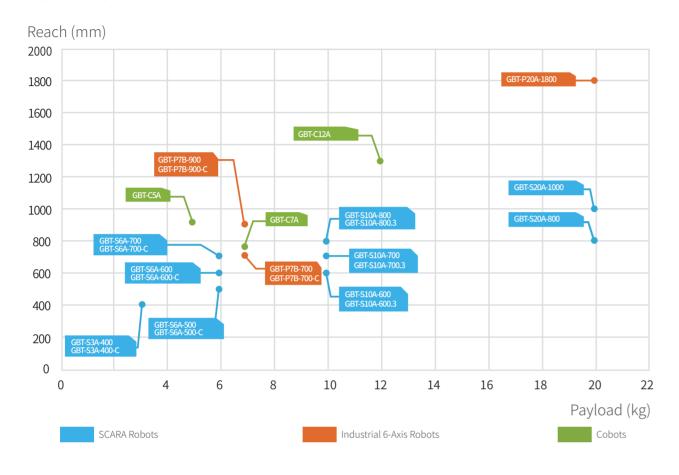


Robot Controller Naming Rules

Product Categories	Tech	inical Features	Stand	dard Axis	Ve	ersion	Cont	roller Type
IRC Industrial Robot Controller	I	Integrated All-in-One Solution	4	4 Axes	Α	1st Generation	Blank	Standard
	D	Drive Distributed	6	6 Axes	В	2nd Generation	S	Small Type
			8	8 Axes			С	Compact Type

Product Selection

Robot Models Chart



Controller Selection

	IRC-I4A-C	IRC-I6A-C	IRC-I6A	IRC-D6A	IRC-D6B	IRC-D6B-S
			Agazar IIII	Agliebot	Agliebot necon	Agilebot
Applicable Robot Models	GBT-S3A Series GBT-S6A Series GBT-S10A Series GBT-S20A Series	GBT-P7B Series	GBT-P20A Series	GBT-C5A GBT-C7A	GBT-C12A	GBT-C12A
Size	380mmx350mmx182mm	400x380x182mm	650mmx483mmx810mm	410mmx260mmx235mm	500mmx330mmx210mm	410mm x 161mm x 150mm
Weight	8kg	12 kg	85.5kg	14.5kg	12kg	7kg
Supported Devices	TP, PC	TP, PC	TP, PC	Mobile, Tablet, PC	Mobile, Tablet, PC	Mobile, Tablet, PC
Communication	Supports I/O (24 input, 16 output) as well as communication protocols such as TCP/IP, ModBus TCP.	Supports I/O (48 input, 48 output) as well as communication protocols like TCP/IP and ModBus TCP.	Supports I/O (25 input, 25 output) as well as communication protocols like TCP/IP and ModBus TCP.	Supports I/O (16 digital input, 16 digital output) as well as communication protocols including TCP/IP, ModBus TCP, RS485.	Supports I/O (16 digital input, 16 digital output, 2 analog input, 2 analog output) as well as communication protocols including TCP/IP, ModBus TCP, RS485.	Supports I/O (16 digital input, 16 digital output, 2 analog input, 2 analog output) as well as communication protocols including TCP/IP, ModBus TCP, RS485.

Robot Selection

				T 22									
Model	GBT-S3A-400	GBT-S3A-400-C	GBT-S6A-500 GBT-S6A-600 GBT-S6A-700	GBT-S6A-500-C GBT-S6A-600-C GBT-S6A-700-C	GBT-S10A-600 GBT-S10A-700 GBT-S10A-800	GBT-S10A-600.3 GBT-S10A-700.3 GBT-S10A-800.3	GBT-S20A-800 GBT-S20A-1000	GBT-P7B-700 GBT-P7B-900	GBT-P7B-700-C GBT-P7B-900-C	GBT-P20A-1800	GBT-C5A	GBT-C7A	GBT-C12A
Payload	3kg	3kg	6kg	6kg	10kg	10kg	20kg	7kg	7kg	20kg	5kg	7kg	12kg
Reach (max)	400mm	400mm	500mm 600mm 700mm	500mm 600mm 700mm	600mm 700mm 800mm	600mm 700mm 800mm	800mm 1000mm	721mm 901mm	721mm 901mm	1805mm	933mm	785mm	1303mm
Z-Axis Stroke	150mm	120mm	200mm	170mm	200mm	300mm	390mm	-	-	-	-	-	-



GBT-S3A

Efficient The shortest cycle time for the standard Pick & Place operation is approximately 0.41 seconds.

The Compass platform supports PC-based teaching and programming for SCARA robots.

Technical Specifications:

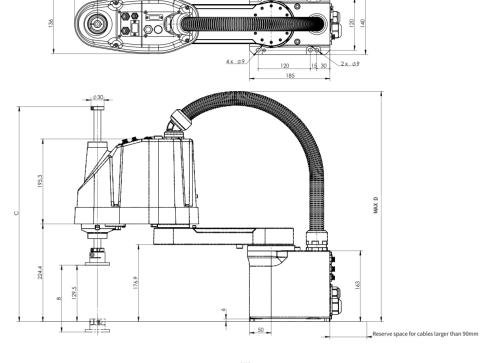
Model	GBT-S3A-400	
Basic Specification	ıs	
Axes		4
Reach (max)		400mm
Dayload	Rated	1kg
Payload	Maximum	3kg
Axis 4 Moment	Rated	0.005kg·m²
of Inertia	Maximum	0.05kg·m²
Axis 3 Down Force		100N
Mounting		Floor
Motion Parameters	5	
	J1	±132°
Avis Motion Dange	J2	±141°
Axis Motion Range	J3	150mm
	J4	±360°
	J1+J2	6650mm/s
Axis Maximum Speed	J3	1100mm/s
Speed	J4	2350°/s
	J1+J2	0.01mm
Position Repeatability ^{*1}	J3	0.01mm
Repeatability	J4	0.01°
Standard Cycle Tim	e*2	0.41s

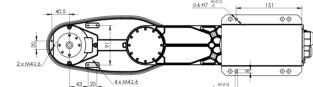
Customer Interface					
Air		ф4х1, ф6х2			
Communication		D-sub 15 pin RJ45(CAT 5e)8pin			
Physical Character	istics				
Weight		13kg			
Base Mounting Are	a	185mmx140mm			
Other Information					
Applicable Control	ler	IRC-I4A-C			
Power Requirements	Voltage	220V~ / 50Hz			
Operating	Temperature	5° C~40° C			
Environment	Humidity	Up to 80%RH (non-condensing)			
	Vibration	0.5G (≥ 50Hz)			

- *1. Numerical values obtained under constant environmental temperature
- *2. The cycle time of the robot, performing an oscillatory arched motion with a horizontal displacement of 300mm and a vertical displacement of 25mm under 2kg load conditions (maximum speed, optimal trajectory, coarse positioning).

Agilebot

(Unit: mm) Main Dimensions



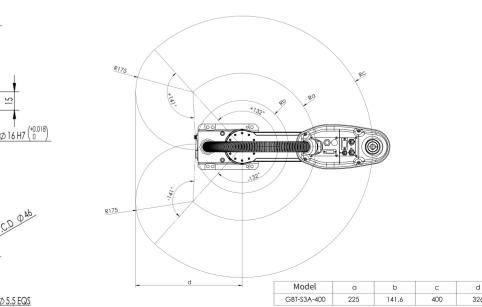


Model	Α	В	С	D
GRT-S3A-400	225	150	494.5	540

Tool Flange

2 x Ø 5 H7 (+0.012) EQS

Working Range



The specifications are subject to change without prior notice.



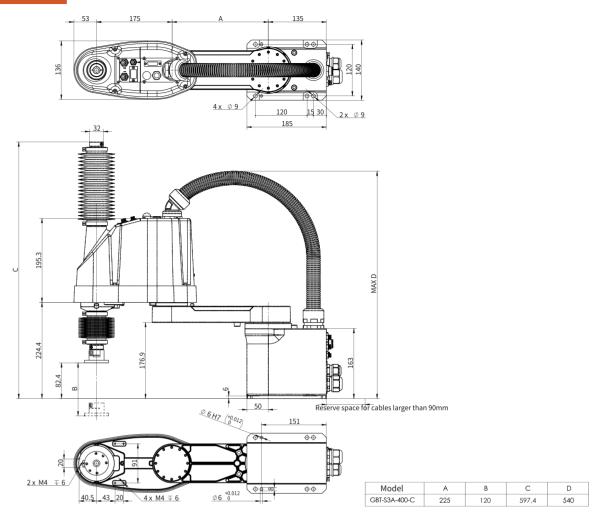
Model	GBT-S3A-400-	-C	
Basic Specification	ıs		
Axes		4	
Reach (max)		400mm	
Davidad	Rated	1kg	
Payload	Maximum	3kg	
Axis 4 Moment	Rated	0.005kg·m²	
of Inertia	Maximum	0.05kg·m²	
Axis 3 Down Force		100N	
Cleanroom version	(ISO 14644)	Class 4	
Mounting		Floor	
Motion Parameters	S		
	J1	±132°	
A.i. Matian Dana	J2	±141°	
Axis Motion Range	J3	120mm	
	J4	±360°	
	J1+J2	6650mm/s	
Axis Maximum Speed	J3	1100mm/s	
Speed	J4	2350°/s	
	J1+J2	0.01mm	
Position Repeatability ^{*1}	J3	0.01mm	
Repeatability	J4	0.01°	
Standard Cycle Tim	e*2	0.41s	

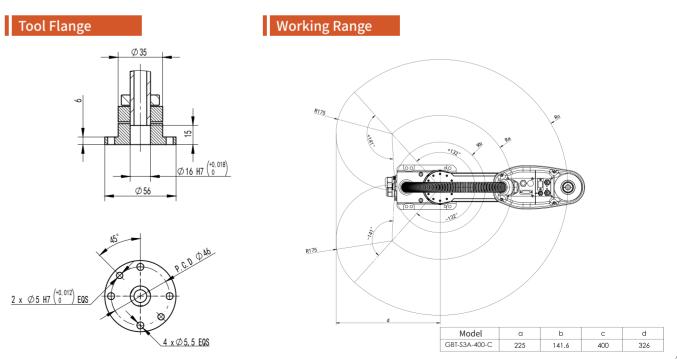
Customer Interface					
Air		ф4х1, ф6х2			
Communication		D-sub 15 pin RJ45(CAT 5e)8pin			
Physical Character	istics				
Weight		13kg			
Base Mounting Are	а	185mmx140mm			
Other Information					
Applicable Control	ler	IRC-I4A-C			
Power Requirements	Voltage	220V~ / 50Hz			
Operating	Temperature	5° C~40° C			
Environment	Humidity	Up to 80%RH (non-condensing)			
	Vibration	0.5G (≥ 50Hz)			

- $^{\star} 1.$ Numerical values obtained under constant environmental temperature of 20° C.
- *2. The cycle time of the robot, performing an oscillatory arched motion with a horizontal displacement of 300mm and a vertical displacement of 25mm under 2kg load conditions (maximum speed, optimal trajectory, coarse positioning).

Agilebot

Main Dimensions (Unit: mm)







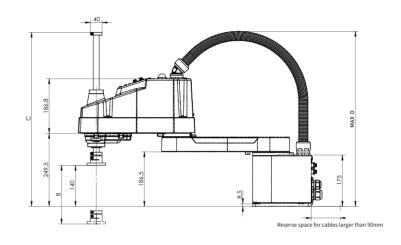
Model		GBT-S6A-500	GBT-S6A-600	GBT-S6A-700			
Basic Specific	cations						
Axes Reach (max)		4	4				
		500mm	600mm	700mm			
Payload	Rated	2kg	2kg	2kg			
Taytoad	Maximum	6kg	6kg	6kg			
Axis 4 Moment	Rated	0.01kg·m²	0.01kg·m²	0.01kg·m²			
of Inertia	Maximum	0.12kg⋅m²	0.12kg·m²	0.12kg·m²			
Axis 3 Down I	orce	100N					
Mounting		Floor					
Motion Paran	neters						
	J1	±132°	±132°	±132°			
A : A4 ::	J2	±150°	±150°	±150°			
Axis Motion Range	J3	200mm	200mm	200mm			
	J4	±360°	±360°	±360°			
A. d. M. d. d	J1+J2	6180mm/s	6800mm/s	7100mm/s			
Axis Maximum Speed	J3	1100mm/s	1100mm/s	1100mm/s			
opoou	J4	2000°/s	2000°/s	2000°/s			
Position	J1+J2	0.015mm	0.015mm	0.015mm			
Repeatability*1	J3	0.01mm	0.015mm	0.015mm			
	J4	0.01°	0.01°	0.01°			
Standard Cycl	e Time ^{*2}	0.41s	0.41s	0.41s			

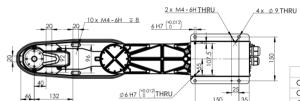
Model		GBT-S6A-500	GBT-S6A-600	GBT-S6A-700	
Customer In	terface				
Air		ф4х1, ф6х2	ф4х1, ф6х2	ф4х1, ф6х2	
Communica	tion	D-sub15pin RJ45(CAT 5e)8 pin	D-sub15pin RJ45(CAT 5e)8 pin	D-sub15pin RJ45(CAT 5e)8 pin	
Physical Cha	aracteristi	CS			
Weight		16.5kg	17.3kg	18kg	
Base Mount	ing Area	200mmx170mm	200mmx170mm	200mmx170mm	
Other Inform	nation				
Applicable Co	ontroller	IRC-I4A-C	IRC-I4A-C	IRC-I4A-C	
Power Requirements	Voltage	220V~ / 50Hz	220V~ / 50Hz	220V~ / 50Hz	
	Temperature	5° C~40° C	5° C~40° C	5° C~40° C	
Operating Environment	Humidity	Up to 80%RH (non-condensing)	Up to 80%RH (non-condensing)	Up to 80%RH (non-condensing)	
	Vibration	0.5G (≥ 50Hz)	0.5G (≥ 50Hz)	0.5G (≥ 50Hz)	

Agilebot

(Unit: mm)

Main Dimensions



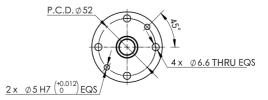


Working Range

Model	Α	В	С	D
GBT-S6A-500	225	200	595	580
GBT-S6A-600	325	200	595	590
GBT-S6A-700	425	200	595	600

Tool Flange

Ø 20 H7 (+0.021)



D00: R275

GBT-S6A-500 GBT-S6A-600 GBT-S6A-700 500 600 700 225 138.1 425.5 162.6 325 425 492.5 559.4 232.0

^{*1.} Numerical values obtained under constant environmental temperature of 20° C.
*2. The cycle time of the robot, performing an oscillatory arched motion with a horizontal displacement of 300mm and a vertical displacement of 25mm under 2kg load conditions (maximum speed, optimal trajectory, coarse positioning).

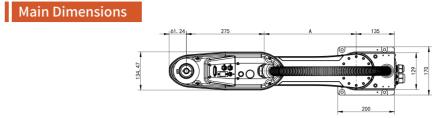


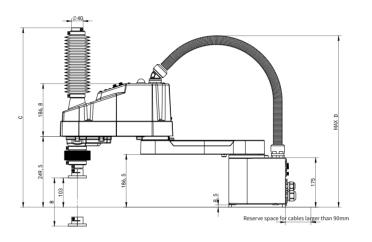
Model		GBT-S6A-500-C	GBT-S6A-600-C	GBT-S6A-700-0	
Basic Specific	cations				
Axes		4			
Reach (max)		500mm	600mm	700mm	
Payload	Rated	2kg	2kg	2kg	
rayloau	Maximum	6kg	6kg	6kg	
Axis 4 Moment	Rated	0.01kg·m²	0.01kg·m²	0.01kg·m²	
of Inertia	Maximum	0.12kg·m²	0.12kg·m²	0.12kg·m²	
Axis 3 Down I	orce	100N			
Cleanroom v (ISO 14644)	ersion	Class 4			
Mounting		Floor			
Motion Parar	neters				
	J1	±132°	±132°	±132°	
	J2	±150°	±150°	±150°	
Axis Motion Range	J3	170mm	170mm	170mm	
nange	J4	±360°	±360°	±360°	
	J1+J2	6180mm/s	6800mm/s	7100mm/s	
Axis Maximum Speed	J3	1100mm/s	1100mm/s	1100mm/s	
opecu	J4	2000°/s	2000°/s	2000°/s	
Position	J1+J2	0.015mm	0.015mm	0.015mm	
Repeatability*	J3	0.01mm	0.015mm	0.015mm	
repeatability	J4	0.01°	0.01°	0.01°	
Standard Cycl	e Time*2	0.41s	0.41s	0.41s	

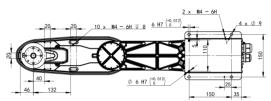
Model		GBT-S6A-500-C	GBT-S6A-600-C	GBT-S6A-700-C	
Customer In	terface				
Air		ф4х1, ф6х2	ф4х1, ф6х2	ф4х1, ф6х2	
Communication		D-sub15pin RJ45(CAT 5e)8 pin	D-sub15pin RJ45(CAT 5e)8 pin	D-sub15pin RJ45(CAT 5e)8 pin	
Physical Characteristics					
Weight		16.5kg	17.3kg	18kg	
Base Mount	ing Area	200mmx170mm	200mmx170mm		
Other Inform	nation				
Applicable Co	ontroller	IRC-I4A-C	IRC-I4A-C	IRC-I4A-C	
Power Requirements	Voltage	220V~ / 50Hz	220V~ / 50Hz	220V~ / 50Hz	
Operating		5° C~40° C	5° C~40° C	5° C~40° C	
		Up to 80%RH (non-condensing)	Up to 80%RH (non-condensing)	Up to 80%RH (non-condensing)	
	Vibration	0.5G (≥ 50Hz)	0.5G (≥ 50Hz)	0.5G (≥ 50Hz)	

Agilebot

(Unit: mm)



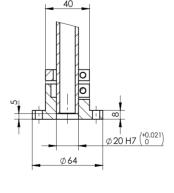


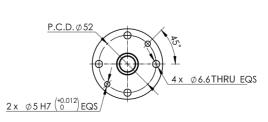


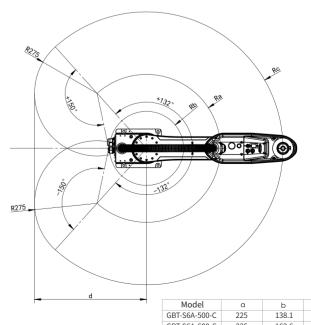
Model	Α	В	С	D
GBT-S6A-500-C	225	170	633.5	580
GBT-S6A-600-C	325	170	633.5	590
GRT-S6A-700-C	425	170	633.5	600

Tool Flange

Working Range







 Model
 a

 GBT-S6A-500-C
 225

 GBT-S6A-600-C
 325

 GBT-S6A-700-C
 425
 500 600 700 425.5 162.6 232 492.5

^{*1.} Numerical values obtained under constant environmental temperature of 20° C.
*2. The cycle time of the robot, performing an oscillatory arched motion with a horizontal displacement of 300mm and a vertical displacement of 25mm under 2kg load conditions (maximum speed, optimal trajectory, coarse positioning).



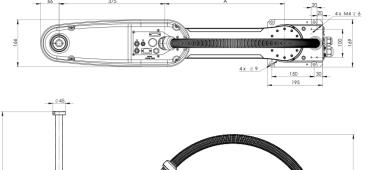
Model		GBT-S10A-600	GBT-S10A-600.3	GBT-S10A-700	GBT-S10A-700.3	GBT-S10A-800	GBT-S10A-800.3	
Basic Specificat	ions							
Axes		4						
Reach (max)		600mm	600mm	700mm	700mm	800mm	800mm	
Doulood	Rated	5kg	5kg	5kg	5kg	5kg	5kg	
Payload Avis 4 Mamont	Maximum	10kg	10kg	10kg	10kg	10kg	10kg	
Axis 4 Moment	Rated	0.02kg·m ²	0.02kg·m²	0.02kg · m ²	0.02kg · m ²	0.02kg·m²	0.02kg·m ²	
of Inertia	Maximum	0.3kg·m²	0.3kg·m²	0.3kg·m²	0.3kg·m²	0.3kg·m²	0.3kg·m²	
Axis 3 Down For	ce	200N						
Mounting		Floor						
Motion Paramet	ers							
	J1	±132°	±132°	±132°	±132°	±132°	±132°	
Axis Motion	J2	±150°	±150°	±150°	±150°	±150°	±150°	
Range	J3	200mm	300mm	200mm	300mm	200mm	300mm	
	J4	±360°	±360°	±360°	±360°	±360°	±360°	
Axis Maximum	J1+J2	9100mm/s	9100mm/s	9800mm/s	9800mm/s	10600mm/s	10600mm/s	
Speed	J3	1100mm/s	1100mm/s	1100mm/s	1100mm/s	1100mm/s	1100mm/s	
	J4	2700°/s	2700° /s	2700°/s	2700°/s	2700°/s	2700°/s	
Position	J1+J2	0.015mm	0.015mm	0.015mm	0.015mm	0.015mm	0.015mm	
Repeatability*1	J3	0.015mm	0.015mm	0.015mm	0.015mm	0.015mm	0.015mm	
	J4	0.01°	0.01°	0.01°	0.01°	0.01°	0.01°	
Standard Cycle Time*2		0.40s	0.40s	0.42s	0.42s	0.42s	0.42s	
Physical Character	istics							
Weight		22.5kg	22.5kg	23kg	23kg	23.5kg	23.5kg	
Base Mounting Are	ea	195mmx16	i9mm					

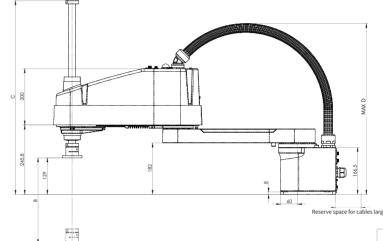
Customer	Interface	
Air		ф4х1, ф6х2
Communi	cation	D-sub15 pin RJ45(CAT 5e)8 pin
Other Info	rmation	
Applicable	Controller	IRC-I4A-C
Power Requirements	Voltage	220V~ / 50Hz
	Temperature	5° C~40° C
Operating Environment	Humidity	Up to 80%RH (non-condensing)
	Vibration	0.5G (≥ 50Hz)

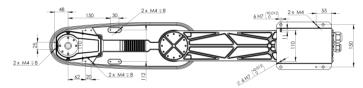
- *1. Numerical values obtained under constant environmental temperature of 20° C.
- *2. The cycle time of the robot, performing an oscillatory arched motion with a horizontal displacement of 300mm and a vertical displacement of 25mm under 2kg load conditions (maximum speed, optimal trajectory, coarse positioning).

Agilebot

Main Dimensions (Unit: mm)







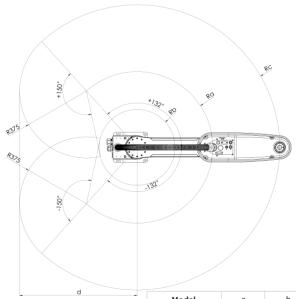
Model	Α	В	С	D
GBT-S10A-600	225	200	587	565
GBT-S10A-600.3	225	300	687	565
GBT-S10A-700	325	200	587	575
GBT-S10A-700.3	325	300	687	575
GBT-S10A-800	425	200	587	580
GBT-S10A-800.3	425	300	687	580

Tool Flange

Ø 45 Ø 25 H7 (*0.021)



Working Range



Model	а	D	С	a	
GBT-S10A-600	225	212.4	600	542.1	
GBT-S10A-600.3	225	212.4	600	542.1	
GBT-S10A-700	325	187.5	700	609	
GBT-S10A-700.3	325	187.5	700	609	
GBT-S10A-800	425	212.6	800	659.4	1
GBT-S10A-800.3	425	212.6	800	659.4]`

The specifications are subject to change without prior notice.



Model		GBT-S20A-800	GBT-S20A-1000
Basic Specification	ons		
Axes		4	4
Reach (max)		800mm	1000mm
5 1 1	Rated	10kg	10kg
Payload	Maximum	20kg	20kg
Axis 4 Moment	Rated	0.05kg · m ²	0.05kg · m ²
of Inertia	Maximum	1kg·m²	1kg·m²
Axis 3 Down Ford	е	250N	250N
Mounting		Floor	Floor
Motion Paramete	ers		
	J1	±132°	±132°
Axis Motion	J2	±152°	±152°
Range	J3	390mm	390mm
	J4	±360°	±360°
A	J1+J2	10250mm/s	11750mm/s
Axis Maximum Speed	J3	1800mm/s	1800mm/s
	J4	1400°/s	1400°/s
Position	J1+J2	0.015mm	0.015mm
Repeatability ^{*1}	J3	0.015mm	0.015mm
.,	J4	0.01°	0.01°
Standard Cycle T	ime ^{*2}	0.41s	0.44s

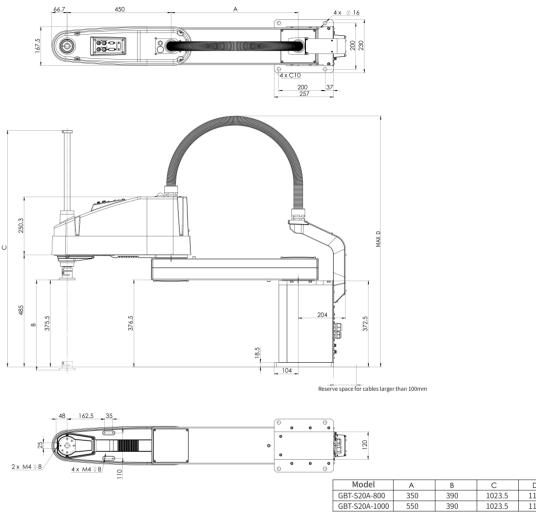
Model		GBT-S20A-800	GBT-S20A-1000	
Customer Int	erface			
Air		ф8х2, ф6х2		
Communication		D-sub15pin、D-sub 9pin RJ45 (CAT 5e) 8pin		
Physical Cha	racteristics			
Weight		47kg	50kg	
Base Mounting Area		257mmx230mm		
Other Inform	ation			
Applicable Co	ontroller	IRC-I4A-C		
Power Requirements	Voltage	220V~ / 50Hz		
Operating Environment Temperature Humidity		5° C~40° C		
		Up to 80%RH (non-condensing)		
	Vibration	0.5G (≥ 50Hz)		

- *1. Numerical values obtained under constant environmental temperature
- *2. The cycle time of the robot, performing an oscillatory arched motion with a horizontal displacement of 300mm and a vertical displacement of 25mm under 2kg load conditions (maximum speed, optimal trajectory, coarse positioning).

Agilebot

(Unit: mm)

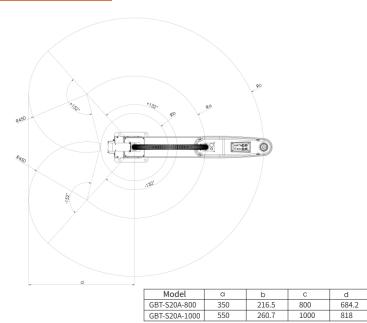
Main Dimensions



Model	Α	В	С	D
GBT-S20A-800	350	390	1023.5	1100
GBT-S20A-1000	550	390	1023.5	1100

Tool Flange

Working Range



The specifications are subject to change without prior notice.

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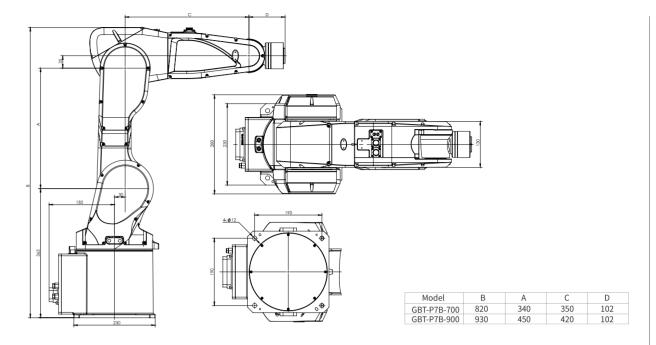
Main Dimensions (Unit: mm)



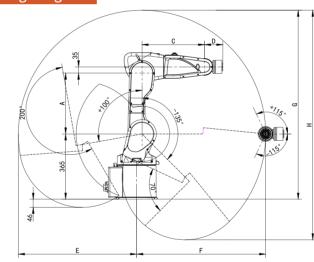
Technical Specifications:

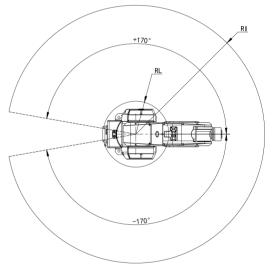
		GBT-P7B-700	GBT-P7B-900			
Basic Specifications						
Axes		6	6			
Reach (m	nax)	721mm	901mm			
Payload	Rated	3.5kg	3.5kg			
	Maximum	7kg	7kg			
Degree of	Protection	IP67	IP67			
Mounting		Ground Ceiling mounted Wall mounted	Ground Ceiling mounted Wall mounted			
Motion P	arameters	;				
J1		340° (- 170° /+170°)	340° (- 170° /+170°)			
	J2	235° (- 135° /+100°)	235° (- 135° /+100°)			
Axis Moti	on J3	270° (- 70° /+200°)	270° (- 70° /+200°)			
Range	J4	380° (- 190° /+190°)	380° (- 190° /+190°)			
	J5	230° (- 115° /+115°)	230° (- 115° /+115°)			
	J6	720° (- 360° /+360°)	720° (- 360° /+360°)			
	J1	333° /s	333° /s			
	J2	267° /s	267° /s			
Axis Maxim	num J3	333° /s	333° /s			
Speed	J4	450°/s	450°/s			
	J5	405° /s	405°/s			
	J6	605° /s	605°/s			
Position R	epeatability	0.02mm	0.02 mm			

Model		GBT-P7B-700	GBT-P7B-900		
Customer Inte	erface				
Standard configuration		ϕ 4×2, 6RI/6RO, 24V×2, 0V×2			
Optional conf	iguration	6RI/6RO, 24V×1, 0V×1 4 Port Solenoid Valve × 2			
Physical Char	acteristics				
Weight		51kg	54.5kg		
Base Mountin	ig Area	230mmx230mm	230mmx230mm		
Other Informa	ation				
Applicable Co	ontroller	IRC-I6A-C			
Power Requirements	Voltage	220V~ / 50Hz			
Temperature		0° C~45° C			
Operating Environment	Humidity	Up to 90%RH (non-condensing)			
Liiviioiiiileiit	Vibration	0.5G(≥ 100Hz)			

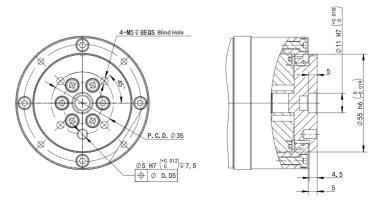


Working Range





Model	Е	F	G	Н	RL	RI
GBT-P7B-700	662	721	1056	1284	184	721
GBT-P7B-900	842	901	1236	1611	219	901



The specifications are subject to change without prior notice.

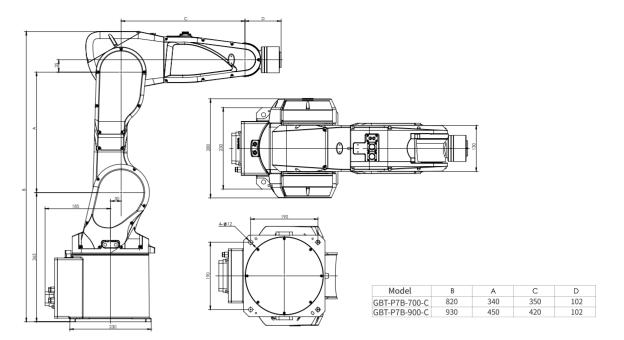


		GBT-P7B-700-C	GBT-P7B-900-C	
Basic Sp	ecifications	3		
Axes		6	6	
Reach (max)		721mm	901mm	
Payload	Rated	3.5kg	3.5kg	
Taytoau	Maximum	7kg	7kg	
Degree of	Protection	IP67	IP67	
Cleanroom (ISO 1464		Class 4	Class 4	
Mounting		Ground Ceiling mounted Wall mounted	Ground Ceiling mounted Wall mounted	
Motion P	arameters			
	J1	340° (- 170° /+170°)	340° (- 170° /+170°)	
	J2	235° (- 135° /+100°)	235° (- 135° /+100°)	
Axis Moti	on J3	270° (- 70° /+200°)	270° (- 70° /+200°)	
Range	J4	380° (- 190° /+190°)	380° (- 190° /+190°)	
	J5	230° (- 115° /+115°)	230° (- 115° /+115°)	
	J6	720° (- 360° /+360°)	720° (- 360° /+360°)	
	J1	333° /s	333° /s	
	J2	267° /s	267° /s	
Axis Maxim	J3	333° /s	333° /s	
Speed	J4	450°/s	450° /s	
	J5	405° /s	405° /s	
	J6	605° /s	605° /s	
Position Repeatability		0.02mm	0.02 mm	

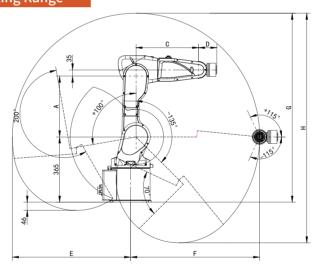
Model		GBT-P7B-700-C	GBT-P7B-900-C	
Customer Int	erface			
Standard configuration		φ4×2, 6RI/6RO, 24V×2, 0V×2		
Optional conf	iguration	6RI/6RO, 24V×1, 0V×1 4 Port Solenoid Valve × 2		
Physical Char	racteristics			
Weight		51kg	54.5kg	
Base Mountir	ng Area	230mmx230mm	230mmx230mm	
Other Inform	ation			
Applicable Co	ontroller	IRC-I6A-C		
Power Requirements Voltage		220V~ / 50Hz		
0	Temperature	0° C~45° C		
Operating Environment	Humidity	Up to 90%RH (non-condensing)		
	Vibration	0.5G(≥ 100Hz)		

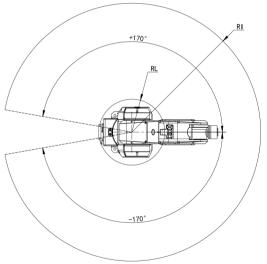
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Main Dimensions (Unit: mm)

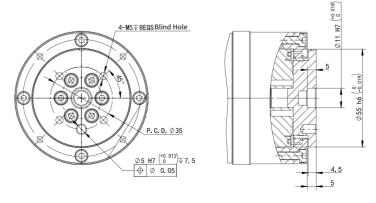


Working Range





Model	Е	F	G	Н	RL	RI
GBT-P7B-700-C	662	721	1056	1284	184	721
GBT-P7B-900-C	842	901	1236	1611	219	901



The specifications are subject to change without prior notice.

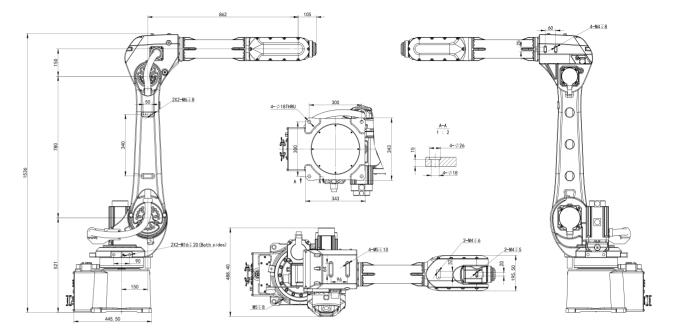


Models	GBT-P20A-1800		
Basic Specifications			
Axes		6	
Reach (max)		1805mm	
Davidand	Rated	20kg	
Payload	Maximum	20kg	
Degree of Protect	ion	Overall IP65, Wrist IP67	
Mounting		Ground	
Motion Parameter	'S		
	J1	370° (- 185° / +185°)	
	J2	260° (- 160° / +100°)	
Axis Motion	J3	243.5° (- 83.5° / +160°)	
Range	J4	400° (- 200° / +200°)	
0	J5	274° (- 137° / +137°)	
	J6	900° (- 450° / +450°)	
	J1	195°/s	
	J2	168°/s	
Axis Maximum	J3	180°/s	
Speed	J4	400°/s	
	J5	400°/s	
	J6	600°/s	
Position Repeatab	oility	0.04mm	

Customer Interface			
Standard configuration		ф8х1	
		8RI/8RO,24V×4,0V×4	
Physical Characteri	stics		
Weight		245kg	
Base Mounting Area	446mmx343mm		
Other Information			
Applicable Controll	er	IRC-I6A	
Power Requirements	Voltage	380V3~ / 50Hz	
	Temperature	0°C ~55°C	
Operating Environment	Humidity	Up to 90%RH (non-condensing)	
	Vibration	0.5G(≥ 100Hz)	

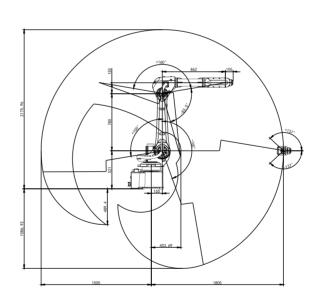
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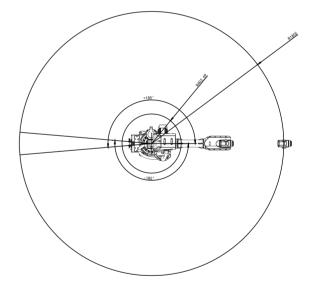
(Unit: mm)

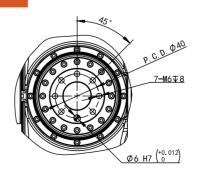


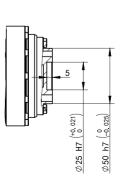
Working Range

Main Dimensions









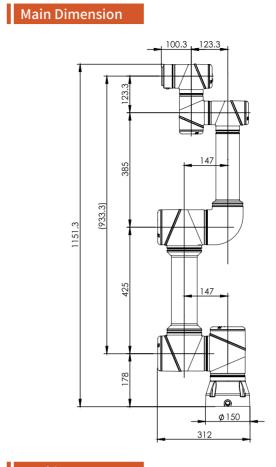


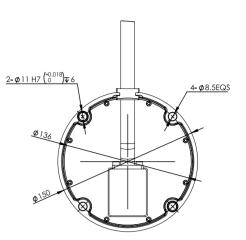
Model	GBT-C5A	
Basic Specification	ıs	
Axes		6
Reach		933mm
Payload		5kg
Degree of Protection	on	IP67
Cleanroom version	(ISO 14644)	Class 4
Mounting		Mounting at Any Angle
Teaching method		Mobile, Tablet, PC
Motion Parameters	5	
	J1	720° (- 360° / +360°)
	J2	720° (- 360° / +360°)
Axis Motion Range	J3	720° (- 360° / +360°)
Axis Motion Range	J4	720° (- 360° / +360°)
	J5	720° (- 360° / +360°)
	J6	720° (- 360° / +360°)
	J1	180°/s
	J2	180°/s
Axis Maximum	J3	180°/s
Speed	J4	180°/s
	J5	180°/s
	J6	180°/s
TCP Maximum Spe	ed	3m/s
Position Repeatab	ility	0.02mm

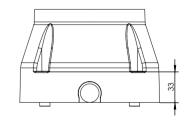
Customer Interface				
Tool I/O		Digital I/O: 2RI(NPN)、2RO(PNP) Analog input: 2AI		
Tool I/O power sup	ply	0/24VDC, 1A		
Tool Communication		RS485		
Physical Character				
Weight		23.5kg		
Base Mounting Area		φ150mm		
Other Information				
Applicable Control	ller	IRC-D6A		
Operating	Temperature	0° C~50° C		
Environment	Humidity	Up to 90%RH (non-condensing)		

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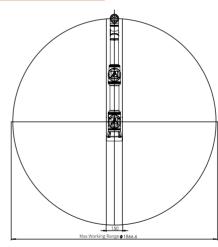
(Unit: mm)

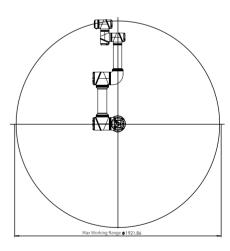


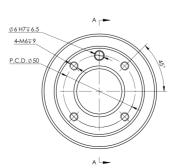


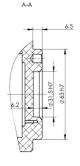


Working Range









The specifications are subject to change without prior notice.

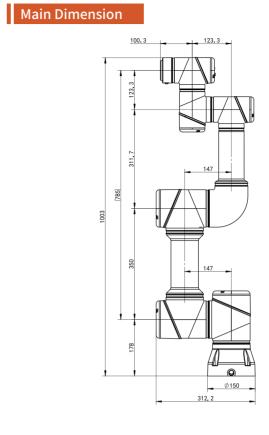


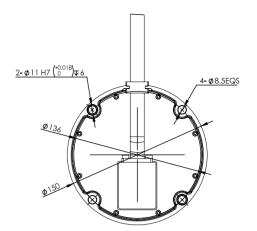
Model	GBT-C7A	
Basic Specification	ıs	
Axes		6
Reach		785mm
Payload		7kg
Degree of Protection	on	IP67
Cleanroom version ((ISO 14644)	Class 4
Mounting		Mounting at Any Angle
Teaching method		Mobile, Tablet, PC
Motion Parameters	5	
	J1	720° (- 360° / +360°)
	J2	720° (- 360° / +360°)
Axis Motion Range	J3	720° (- 360° / +360°)
Axis Motion Range	J4	720° (- 360° / +360°)
	J5	720° (- 360° / +360°)
	J6	720° (- 360° / +360°)
	J1	180°/s
	J2	180°/s
Axis Maximum	J3	180°/s
Speed	J4	180°/s
	J5	180°/s
	J6	180°/s
TCP Maximum Spe	ed	2.5m/s
Position Repeatab	ility	0.02mm

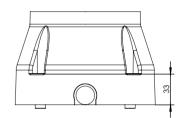
Customer Interface			
Tool I/O		Digital I/O: 2RI(NPN)、2RO(PNP) Analog input: 2AI	
Tool I/O power supply		0/24VDC, 1A	
Tool Communicati	on	RS485	
Physical Character	istics		
Weight		22.5kg	
Base Mounting Area		ф150mm	
Other Information			
Applicable Controller		IRC-D6A	
Operating	Temperature	0° C~50° C	
Environment	Humidity	Up to 90%RH (non-condensing)	

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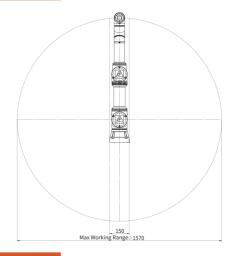
(Unit: mm)

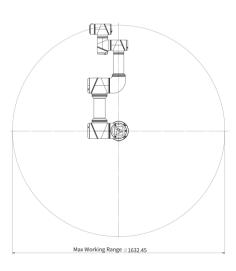


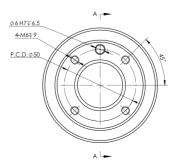


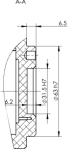


Working Range









(31)



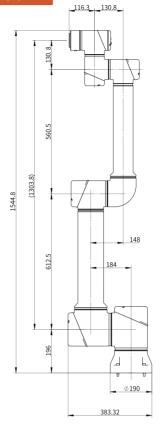
Model	GBT-C12A		
Basic Specification	ıs		
Axes		6	
Reach		1303mm	
Payload		12kg	
Degree of Protection	on	IP67	
Cleanroom version ((ISO 14644)	Class 4	
Mounting		Mounting at Any Angle	
Teaching method		Mobile, Tablet, PC	
Motion Parameters	3		
	J1	720° (- 360° / +360°)	
	J2	720° (- 360° / +360°)	
Axis Motion Range	J3	720° (- 360° / +360°)	
Axis Motion Range	J4	720° (- 360° / +360°)	
	J5	720° (- 360° / +360°)	
	J6	720° (- 360° / +360°)	
	J1	120°/s	
	J2	120°/s	
Axis Maximum	J3	150°/s	
Speed	J4	180°/s	
	J5	180°/s	
	J6	180°/s	
TCP Maximum Spe	ed	3m/s	
Position Repeatab	ility	0.02mm	

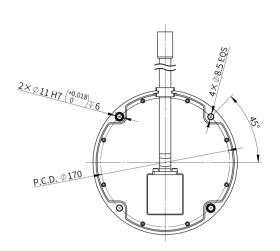
Customer Interface			
Tool I/O		Digital I/O: 4RIO(NPN/PNP) Analog input: 2AI	
Tool I/O power sup	ply	0/12/24VDC, 2A	
Tool Communication		RS485	
Physical Character	ristics		
Weight		37kg	
Base Mounting Area		ф190mm	
Other Information			
Applicable Controller		IRC-D6B、IRC-D6B-S	
Operating Environment	Temperature	0° C~50° C	
	Humidity	Up to 90%RH (non-condensing)	

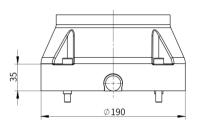
Agilebot

(Unit: mm)

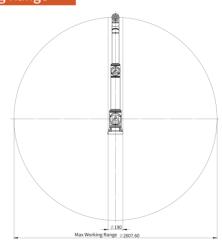
Main Dimension

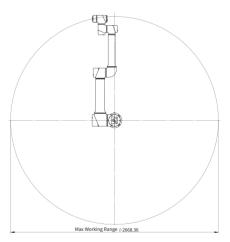


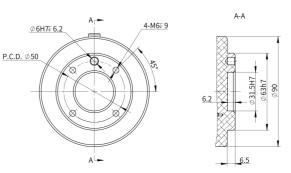




Working Range







The specifications are subject to change without prior notice.



Product Specifications:

Models		IRC-I4A-C	IRC-I6A-C	IRC-I6A	IRC-D6A	IRC-D6B	IRC-D6B-S
Size		380mmx350mmx182mm	400mmx380mmx182mm	650mm×483mm×810mm	410mm×260mm×235mm	500mmx330mmx210mm	410mmx161mmx150mm
Weight		8kg	12kg	85.5kg	14.5kg	12kg	7kg
Degree of Protection		IP20	IP20	IP54	IP54	IP54	IP20
Power Requirements	Voltage	220V~ / 50Hz	220V~ / 50Hz	380V3~ / 50Hz	100-240 VAC / 50-60 Hz	100-240V AC / 50-60 Hz	100-240V AC / 50-60 Hz or 30-56V DC
Standard Configuration	Configuration	Input: 24 Output: 16 (NPN or PNP)	Input: 48 Output: 48 (NPN or PNP)	Input: 25 Output: 25 (NPN)	Digital input (NPN or PNP):16 Digital output (NPN or PNP):16	Digital input (NPN or PNP):16 Digital output (NPN or PNP):16 Analog input (Voltage or Current):2 Analog output (Voltage or Current):2 ABZ encoder	Digital input (NPN or PNP):16 Digital output (NPN or PNP):16 Analog input (Voltage or Current):2 Analog output (Voltage or Current):2 ABZ encoder
	Standard Communication	TCP/IP、Modbus TCP	TCP/IP、Modbus TCP	TCP/IP 、 Modbus TCP	TCP/IP、ModbusTCP、 RS485	TCP/IP、ModbusTCP、 RS485	TCP/IP、ModbusTCP、 RS485
	Temperature	5° C~40° C	0° C~45° C	0° C~45° C	0° C~50° C	0° C~50° C	0° C~50° C
Operating Environment	Humidity	Up To 80%RH (non-condensing)	Up To 90%RH (non-condensing)	Up To 90%RH (non-condensing)	Up To 90%RH (non-condensing)	Up To 90%RH (non-condensing)	Up To 90%RH (non-condensing)
Applicable Robot Models		GBT-S3A Series GBT-S6A Series GBT-S10A Series GBT-S20A Series	GBT-P7B Series	GBT-P20A Series	GBT-C5A GBT-C7A	GBT-C12A	GBT-C12A

General Software and Instruction Set



Universal TP Software and Instruction Set

- User-friendly human-machine interface, menu-based programming for quick adaptation by new users
- Universal TP software and instruction set for industrial six-axis, SCARA, and cobots



Compass Universal Platform

Supports PC for robot teaching and programming



| Visionplus 2D visual software

- 2D vision software, specifically designed for industrial robotic applications, offers simple and flexible feature configuration along with intuitive flowchart programming.
- Enables fast implementation of visual positioning and multiworkpiece recognition functionalities.
- With internal integrated communication, there is no need for additional custom protocol parsing, reducing your learning effort.



Features of Agilebot TP:

- 8-inch screen
- User-friendly human-machine interface
- Quick physical buttons
- Menu-based programming
- Multiple cable length options: 5m /10m/20m
- Compact, sturdy, durable

 $\binom{36}{1}$

SUCCESS CASES

Application of Agilebot Robots in the Semiconductor Industry

Device Purpose:

This equipment utilizes multiple Agilebot robots, advanced laser sensors, CCD camera auto-detection system, and industry-innovative disk edge finders, all operated by an intelligent control system. It efficiently and precisely handles tasks such as automatic wafer loading and unloading, wafer edge detection, and automatic reading and verification of wafer IDs.

Wafer loading capacity: 288 wafer per hour Yield rate: >=99.5%

Advantages and Features of Agilebot Robots:

- High position repeatability to avoid wafer damage during uploading and unloading
- Jitter-free in high-speed handling to ensure high-speed wafer uploading and unloading
- High flexibility, compatibility, stability and ease of operation

Applied Project: Shanghai ForeSight PVD Wafer Automatic Loading & Unloading Machine

Models used: GBT-P7A-700 GBT-S3A-400 GBT-S6A-600



WeChat Video

Application of Agilebot Robots in the Electric Vehicle Industry

Device Purpose:

This equipment employs an Agilebot 6-axis industrial robot, integrating deep visual perception with key robot motion control technology. During high-speed operation, the robot utilizes the optical module lens at its end effector for precise image capture, ensuring clear imaging. This meets the visual defect inspection requirements for different materials, specifications, and sizes of automotive components.

High Precision: Detection rate exceeds 95%, with no misses for critical defects High Efficiency: terminal linear velocity of 1000mm/s, each point shooting: CT0.3s

Advantages and Features of Agilebot Robots:

- Independent and autonomous system architecture and underlying algorithms support various software development, particularly integration with visual systems.
- High precision and high-speed IO for precise image capture during high-speed motion (repeatability error less than 2 pixels).
- A self-developed heterogeneous control system based on ARM cores guarantees high realtime performance and high synchronization.

Applied Project: Micro-Intelligence Stator Inspection of Drive Motors in Electric Vehicle

Model used: GBT-P7A-900



WeChat Video

Application of Agilebot Robots in the Auto Parts Industry

Device Purpose:

This device employs one SCARA robot in conjunction with a servo glue gun to seal the car heater. Through precise trajectory movement speed control, the glue trajectory is uniformly and stably applied, ensuring even glue volume. The robot and adhesive system have achieved high-precision and uniform velocity trajectory planning in the coating process, greatly improving the efficiency and yield of glue coating.

Advantages and Features of Agilebot Robots:

- High precision, position repeatability: 0.015mm
- Smooth trajectory and uniform glue application

Applied Project: Applied Project: Hea

Applied Project: Heater Gluing

Model used: GBT-S6A-600



WoChat Vidoo

Application of Agilebot Robots in the Cosmetics Industry

Device Purpose:

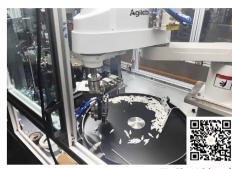
This device employs one Agilebot 4-axis industrial robot in combination with dual grippers for handling lipstick fuzzy heads. Using intelligent visual algorithms, it addresses issues such as near-distance or overlapping materials to enhance equipment stability. Additionally, it captures multiple material positions in a single photo, effectively reducing the production cycle. When combined with a robot and a circular material tray, it achieves a high-precision and high-speed flexible loading and unloading process.

Advantages and Features of Agilebot Robots:

- High position repeatability, minimizing downtime due to errors, and enhancing product yield.
- Efficiency at its peak with a production cycle of 2.3 seconds per 2 pieces, increasing output.

Applied Project: Lipbrush Flexible Loading & Unloading

Model used: GBT-S6A-600



WeChat Video

Application of Agilebot Robots in the Food Industry

Device Purpose:

The station employs six 6-axis robots and one 4-axis robot to complete the full process automation of plastic basket loading, fresh milk box inspection and packing through the collaboration of high-speed and high-precision packing systems, flexible loading systems, and visual AI detection systems. It also collaborates with palletizing systems, last-mile delivery of logistics systems, and other systems for overall intelligent logistics control, ensuring the continuity and safety of production.

High integration: 7 robots and other equipment are integrated in a narrow space High efficiency: Production CT as low as 20 seconds per workbin

Advantage and Features of Agilebot Robots:

- High cost-effectiveness
- High protection: IP67, no worry about bottle damage and splashing
- P7A position repeatability: 0.02mm, S6A position repeatability: 0.015mm

Applied Project: Pasteur Milk Visual Inspection & Packaging

Model used: GBT-P7A-700 GBT-S6A-600



WeChat Video

Application of Agilebot Robots in the Consumer Electronics Industry

Device Purpose:

This device utilizes one Agilebot six-axis industrial robot in conjunction with four screen printers for the loading and unloading of mobile phone midframes. It employs a visual system to automatically identify the material status within the tray, followed by a secondary positioning using visual feedback to correct any material misalignment before the screen printing process.

Advantages and Features of Agilebot Robots:

- High speed and high stability, ensuring stable production even at high speeds.
- High position repeatability, enabled by the visual system for precise loading and unloading
- High efficiency, with a production cycle of 10 seconds per rotation; one robot serves multiple workstations, enhancing productivity.

Applied Project: Mobile Frame Photocopying Machine Loading and Unloading

Model used: GBT-P7A-700



WeChat Video

Product Specifications Overview

																1	1
Models		GBT-S3A-400	GBT-S3A-400-C	GBT-S6A-500	GBT-S6A-500-C	GBT-S6A-600	GBT-S6A-600-C	GBT-S6A-700	GBT-S6A-700-C	GBT-S10A-600	GBT-S10A-600.3	GBT-S10A-700	GBT-S10A-700.3	GBT-S10A-800	GBT-S10A-800.3	GBT-S20A-800	GBT-S20A-1000
Basic Specific	ations																
Axes		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Reach (max)		400mm	400mm	500mm	500 mm	600mm	600 mm	700mm	700 mm	600mm	600	700mm	700mm	800mm	800mm	800mm	1000mm
Payload	Rated	1kg	1kg	2kg	2 kg	2kg	2 kg	2kg	2 kg	5kg	5 kg	5kg	5 kg	5kg	5kg	10 kg	10kg
	Maximum	3kg	3kg	6kg	6 kg	6kg	6 kg	6kg	6 kg	10kg	10 kg	10kg	10 kg	10kg	10kg	20 kg	20kg
Axis 4 Moment of Inertia	Rated	0.005kg·m²	0.005kg*m²	0.01kg · m ²	0.01 kg·m²	0.01kg·m²	0.01 kg·m²	0.01kg · m ²	0.01 kg·m²	0.02kg·m ²	0.02kg*m²	0.02kg·m²	0.02kg*m²	0.02kg·m²	0.02kg·m²	0.05kg*m²	0.05kg·m²
	Maximum		0.05kg*m²	0.12kg · m ²	0.12 kg·m²	0.12kg · m ²	0.12 kg·m²	0.12kg · m ²	0.12 kg·m²	0.3kg·m²	0.3kg*m²	0.3kg·m²	0.3kg*m²	0.3kg·m²	0.3kg·m²	1kg*m²	1kg·m²
Axis 3 Down F	orce	100N	100N	100N	100 N	100N	100 N	100N	100 N	200N	200 N	200N	200 N	200N	200N	250 N	250N
Mounting		Floor	Floor	Floor	Floor	Floor	Floor	Floor	Floor	Floor	Floor	Floor	Floor	Floor	Floor	Floor	Floor
Motion Param	eters																
modom raian	J1	±132°	±132°	±132°	±132°	±132°	±132°	±132°	±132°	±132°	±132°	±132°	±132°	±132°	±132°	±132°	±132°
Axis Motion Range	J2	±141°	±141°	±150°	±150°	±150°	±150°	±150°	±150°	±150°	±150°	±150°	±150°	±150°	±150°	±152°	±152°
	J3	150mm	120mm	200mm	170mm		170mm	200mm	170mm	200mm	300mm	200mm	300mm	200mm	300mm	390mm	390mm
	J4	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°
Axis Maximum Speed	J1+J2	6650mm/s	6650 mm/s	6180mm/s	6180 mm/s	6800mm/s	6800 mm/s	7100mm/s	7100mm/s	9100mm/s	9100 mm/s	9800mm/s	9800 mm/s	10600 mm/s	10600 mm/s	10250 mm/s	11750mm/s
		1100mm/s	1100 mm/s	1100mm/s	1100 mm/s	1100mm/s	1100 mm/s	1100mm/s	1100 mm/s	1100mm/s	1100 mm/s	1100mm/s	1100 mm/s	1100mm/s	1100mm/s	1800 mm/s	1800mm/s
	J4		2350 ° /s	2000° /s	2000 ° /s				2000 ° /s		· · · · · ·	-	· ·	· · · · · · · · · · · · · · · · · · ·	2700° /s		· ·
		2350°/s					2000°/s	2000°/s		2700°/s	2700°/s	2700°/s	2700°/s	2700° /s		1400°/s	1400°/s
B 111	J1+J2	0.01mm	0.01 mm	0.015mm	0.015mm	0.015mm	0.015 mm	0.015mm	0.015 mm	0.015mm	0.015mm	0.015mm	0.015mm	0.015mm	0.015mm	0.015mm	0.015mm
Position Repeatability ^{*1}	J3	0.01mm	0.01 mm	0.01mm	0.01mm		0.015mm	0.015mm	0.015mm	0.015mm	0.015 mm	0.015mm	0.015 mm	0.015mm	0.015mm	0.015 mm	0.015mm
	J4	0.01°		0.01°	0.01°		0.01°	0.01°	0.01 °	0.01°	0.01°	0.01°	0.01 °	0.01°	0.01°	0.01°	0.01°
Standard Cycle Time *2		0.41s	0.41s	0.41s	0.41s	0.41s	0.41s	0.41s	0.41s	0.40s	0.40s	0.42s	0.42s	0.42s	0.42s	0.41s	0.44s
Customer Inte	erface	T	 	T	T						T .	I					
Air		φ4x1, φ6x2	ф4×1, ф6×2	φ4x1, φ6x2	φ4×1, φ6×2			ф4х1, ф6х2	ф4×1, ф6×2	φ4x1, φ6x2	φ4×1, φ6×2	ф4х1, ф6х2	φ4×1, φ6×2 D-sub15 pin	ф4х1, ф6х2	ф4x1, ф6x2 D-sub15 pin	φ8×2, φ6×2	ф8x2, ф6x2 п D-sub15pin、D-sub9pin
Communication		D-sub15pin RJ45 (CAT5e) 8pin	D-sub15pin RJ45 (CAT5e) 8pin	D-sub15 pin RJ45(CAT 5e)8pii	D-sub15pin n RJ45 (CAT5e) 8pin	D-sub15 pin RJ45(CAT 5e)8 pin	D-sub15pin RJ45 (CAT5e) 8pin	D-sub15 pin RJ45(CAT 5e)8pin	D-sub15pin RJ45 (CAT5e) 8pin	D-sub15 pin RJ45 (CAT 5e) 8 pin	D-sub15 pin RJ45 (CAT 5e) 8 pin	D-sub15 pin RJ45 (CAT 5e) 8 pin	RJ45 (CAT 5e) 8 pin	D-sub15 pin RJ45 (CAT 5e) 8 pin	RJ45 (CAT 5e) 8 pin	D-sub15pin、D-sub9pir RJ45 (CAT5e) 8pin	RJ45 (CAT 5e) 8 pin
Physical Char	acteristics																
Weight		13kg	13kg	16.5kg	16.5kg	17.3kg	17.3kg	18kg	18kg	22.5kg	22.5kg	23kg	23kg	23.5kg	23.5kg	47kg	50kg
Base Mounting Area		185mmx140mm	185mmx140mm	200mmx170mm	200mmx170mm	200mmx170mm	200mmx170mm	200mmx170mm	200mmx170mm	195mmx169mm	195mmx169mm	195mmx169mm	195mmx169mm	195mm*169mm	195mmx169mm	257mmx230mm	257mmx230mm
Other Informa		T															
Applicable Co					IRC-I4A-C						IRC-I4A-C	IRC-I4A-C	IRC-I4A-C	IRC-I4A-C	IRC-I4A-C	IRC-I4A-C	IRC-I4A-C
Operating Environment			,	· ·	5°C ~40°C	,	-	· ·	220V~ / 50Hz		220V~ / 50Hz 5°C ~40°C	220V~ / 50Hz	220V~ / 50Hz 5°C ~40°C	220V~ / 50Hz	220V~ / 50Hz 5° C~40° C	220V~ / 50Hz 5°C ~40°C	220V~ / 50Hz 5° C~40° C
	emperature	Up to 80%RH (n		J C~40 C	J C -40 C	J C~40 C	J C -40 C	J C~40 C	J C -40 C	Up to 80%RH (no		5° C~40° C	J C -40 C	5° C~40° C	J C-40 C	J C -40 C	J C~40 C
	ibration																
Adapter Optio		1.00 (> 00112)								0.00 (> 00112)							
Cleanroom vers			100.01		100 01 1		100.01		ISO CL. 4								
(ISO 14644)		-	ISO Class 4	-	ISO Class 4	-	ISO Class 4	-	ISO Class 4	-	-	-	-	-	-	-	-

^{*1.} Numerical values obtained under constant environmental temperature of 20° C.

^{*2.} The cycle time of the robot, performing an oscillatory arched motion with a horizontal displacement of 300mm and a vertical displacement of 25mm under 2kg load conditions (maximum speed, optimal trajectory, coarse positioning).

The specifications are subject to change without prior notice.

Product Specifications Overview

Modele		CDT D7D 700	GBT-P7B-700-C	GBT-P7B-900	GBT-P7B-900-C	GBT-P20A-1800	GBT-C5A	GBT-C7A	GBT-C12A	
Models Basic Specifications		GBT-P7B-700	GB1-P7B-700-C	GB1-P7B-900	GB1-P7B-900-C	GD1-P2UA-1600	GB1-C3A	GDI-CIA	GBT-C12A	
	ecifications	C		6		c	c	c		
Axes		6	6	6	6	6	6	6	6	
Reach (max)		721mm	721mm			1805mm 933mm		785mm	1303mm	
Payload	Rated	3.5kg	3.5kg	3.5kg	3.5kg	20kg	5kg	7kg	12kg	
	Maximum	7kg	7.0kg	7kg	7.0kg	20kg	5kg	7kg	12kg	
Degree of Protection		IP67	IP67	IP67	IP67	Overall IP65, Wrist IP67	IP67	IP67	IP67	
Mounting	5	Ground Ceiling mounted Wall mounted Ground Ceiling mounte Wall mounted		Ground Ceiling mounted Wall mounted	Ground Ceiling mounted Wall mounted	Ground	Mounting at Any Angle	Mounting at Any Angle	Mounting at Any Angle	
Motion Pa	arameters							ı	ı	
	J1	340° (- 170° /+170°)	340° (-170°/+170°)	340° (-170° /+170°) 340° (-170° /+170°		370° (-185° /+185°)	720°(-360°/+360°)	720° (-360°/+360°)	720° (-360°/+360°)	
	J2	235° (- 135° /+100°)	235° (-135° /+100°)	235° (-135° /+100°)	235° (-135° /+100°)	260° (-160° /+100°)	720° (-360°/+360°)	720° (-360°/+360°)	720° (-360° /+360°)	
	J3	270° (- 70° /+200°)	270° (-70° /+200°)	270° (-70° /+200°)	270° (-70° /+200°)	243.5°(-83.5°/+160°)	720°(-360°/+360°)	720° (-360° / +360°)	720° (- 360° / +360°)	
Axis Motion	J4	380° (- 190° /+190°)	380° (-190°/+190°)	380° (-190° /+190°)	380° (-190° /+190°)	400° (-200° /+200°)	720°(-360°/+360°)	720° (-360°/+360°)	720° (-360° /+360°)	
Range	J5	230° (- 115° /+115°)	230° (-115° /+115°)			274° (-137° /+137°)	° (-137° /+137°) 720° (-360° /+360°)		720° (-360°/+360°)	
	J6	720° (- 360° /+360°)	720° (-360°/+360°)	720° (-360° /+360°)		900° (-450° /+450°)	720°(-360°/+360°)	720° (-360° / +360°)	720° (-360° /+360°)	
	J1	333° /s	333° /s	333° /s	333° /s	195° /s	180°/s	180°/s	120° /s	
	J2	267° /s	267° /s	267° /s	267° /s	168° /s	180°/s	180° /s	120° /s	
	J3	333° /s	333° /s	333° /s	333° /s	180° /s	180°/s	180° /s	150° /s	
Axis Maximum	n J4	450° /s	450° /s	450° /s	450° /s	400° /s	180°/s	180° /s	180° /s	
Speed	J5	405° /s	405° /s	405° /s	405° /s	400° /s	180°/s	180° /s	180° /s	
	J6	605° /s	605° /s	605° /s	605° /s	600° /s	180°/s	180° /s	180° /s	
Position Repeatability		0.02mm	0.02mm	0.02mm	0.02mm	0.04mm	0.02mm	0.02mm	0.02mm	
Customer	rInterface									
Standard configura		φ4×2, 6RI/6RC 24V×2, 0V×2),			φ8x1, 8RI/8RO, 24V×4,0V×4	2RI/2RO/2AI, 0/24VDC, 1A, RS485	2RI/2RO2AI, 0/24VDC, 1A, RS485	4RIO(NPN/PNP)/2A 0/12/24VDC,2A, RS485	
Optional configura		6RI/6RO,24V× 4 Port Solenoid				-	-	-	-	
Physical C	Characterist	tics						1		
Weight		51kg	51kg	54.5kg	54.5kg	245kg	23.5kg	22.5kg	37kg	
Base Mou	ınting Area	230mm×230mm	230mmX230mm	230mm×230mm	230mmX230mm	446mm×343mm	ф150mm	ф150mm	ф190mm	
Other Info										
Applicable	e Controller	IRC-I6A-C	IRC-I6A-C	IRC-I6A-C	IRC-I6A-C	IRC-16A	IRC-D6A	IRC-D6A	IRC-D6B、IRC-D6B-S	
Power Requiremen	Voltage	220V~/50Hz	220V~/50Hz	220V~ / 50Hz	220V~ / 50Hz	380V3~ / 50Hz	100-240 VAC / 50-60 Hz	100-240 VAC / 50-60 Hz	100-240V AC / 50-60 Hz or 30-56V DC	
0	Temperature	0° C~45° C 0°C ~45°C		0°C ~45°C 0°C ~45°C		0°C ~45°C	0°C ~50°C	0°C ~50°C	0°C ~50°C	
Operating Environme	Humidity	Up to 90%RH (non-condensing)								
	Vibration	0.5G(≥ 100Hz)	0.5G(≥ 100Hz)	0.5G(≥ 100Hz)	0.5G(≥ 100Hz)	0.5G(≥ 100Hz)	-	-	-	
Adapter	Options							I		
Cleanroom version (ISO 14644)		-	ISO Class 4	-	ISO Class 4	-	ISO Class 4	ISO Class 4	ISO Class 4	

Models		IRC-I4A-C	IRC-I6A-C	IRC-I6A	IRC-D6A	IRC-D6B	IRC-D6B-S
Size		380mmx350mmx182mm	400mmx380mmx182mm	650mmx483mmx810mm	410mmx260mmx235mm	500mmx330mmx210mm	410mmx161mmx150mm
Weight		8kg	12 kg	85.5kg	14.5kg	12kg	7kg
Degree of Protec	tion	IP20	IP20	IP54	IP54	IP54	IP20
Power Requirements Voltage		220V~ / 50Hz	220V~ / 50Hz	380V3~ / 50Hz	100-240 VAC / 50-60 Hz 100-240 V AC / 50-60 Hz		100-240V AC / 50-60 Hz or 30-56V DC
Communication	Standard Configuration I/O	Input: 24 Output: 16 (NPN or PNP)	Input: 48 Output: 48 (NPN or PNP)	Input: 25 Output: 25 (NPN)	Digital input (NPN or PNP):16 Digital output (NPN or PNP):16	Digital input (NPN or PNP):16 Digital output (NPN or PNP):16 Analog input (Voltage or Current):2 Analog output (Voltage or Current):2 ABZ encoder	Digital input (NPN or PNP):16 Digital output (NPN or PNP):16 Analog input (Voltage or Current):2 Analog output (Voltage or Current):2 ABZ encoder
	Standard Communication	TCP/IP、Modbus TCP	TCP/IP、Modbus TCP	TCP/IP 、 Modbus TCP	TCP/IP、ModbusTCP、 RS485	TCP/IP、ModbusTCP、 RS485	TCP/IP、ModbusTCP、 RS485
	Temperature	5° C~40° C	0° C~45° C	0° C~45° C	0° C~50° C	0° C~50° C	0° C~50° C
Operating Environment	Humidity	Up To 80%RH (non-condensing)	Up To 90%RH (non-condensing)	Up To 90%RH (non-condensing)	Up To 90%RH (non-condensing)	Up To 90%RH (non-condensing)	Up To 90%RH (non-condensing)
Applicable Robo	t Models	GBT-S3A Series GBT-S6A Series GBT-S10A Series GBT-S20A Series	GBT-P7B Series	GBT-P20A Series	GBT-C5A GBT-C7A	GBT-C12A	GBT-C12A



The specifications are subject to change without prior notice.

BUILD AN INFRASTRUCTURE ECOSYSTEM FOR INTELLIGENT MANUFACTURING



Agilebot Robotics Co., Ltd. (Shanghai Headquarters):

8th Floor, Building 6, Zhongjian Jinxiu Plaza, No.50, Lane 308, Xumin Road, Qingpu District, Shanghai, China

Agilebot Manufacturing and Technical Service Center:

Building 1, No. 338 Jiuye Road, Qingpu District, Shanghai, China

Agilebot Dongguan Branch:

Room 801, Building 9, No. 14 Industrial South Road, Songshan Lake Park, Dongguan City, Guangdong Province, China

Service Hotline: +86-21-59860805

Website: www.sh-agilebot.com