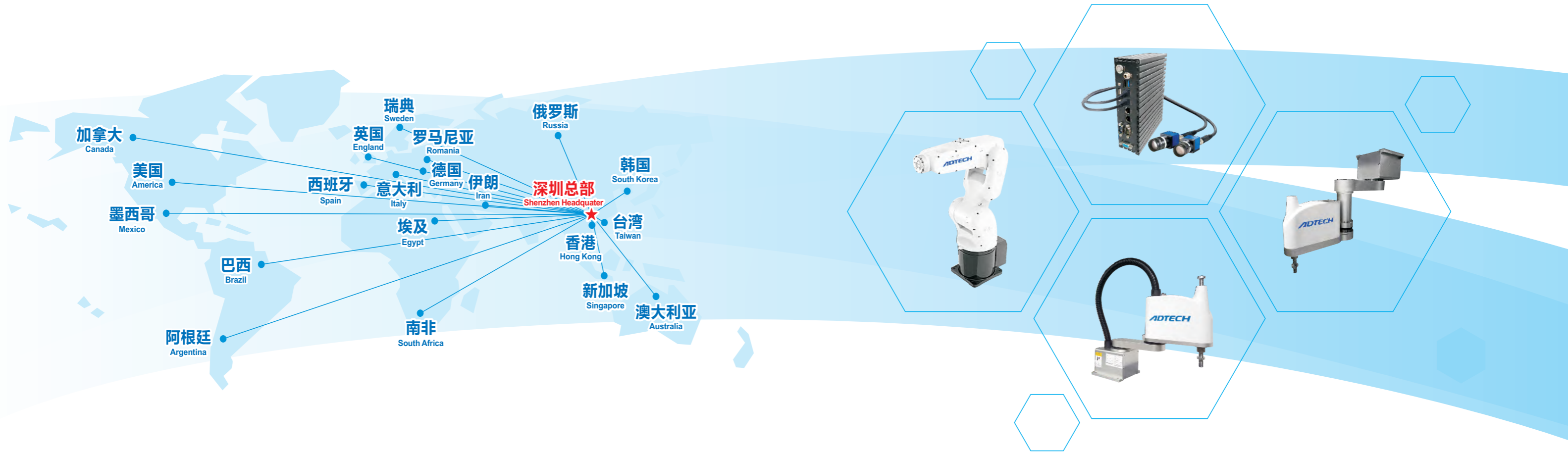


The leader of domestic motion control solution provider



SCARA ROBOT

- SCARA ROBOT
- SIX-AXIS ROBOT
- ROBOT VISION SYSTEM

ADTECH (SHENZHEN) TECHNOLOGY CO., LTD.

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As China's leading motion control solution supplier, ADTECH establishes 2 product systems : motion control system (motion controller, stepper & servo driver, motor and industry application software); Industrial robot, widely used in machines, plastic industry, aerospace, medical instrument, electronic assemble, metal cutting, daily use chemical industry and so on, ADTECH is becoming a typical brand in motion control application area.

ADTECH has set up liaison office in 10 major cities in China, service center in more than 30 cities, building up global sales & service network, ADTECH products have been sold to 103 countries including Europe & America, the middle east, southeast Asia, Hongkong, Taiwan and so on.



ShenZhen Headquarter



Marketing Center



R&D department





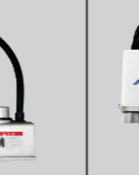







Training centre

Catalog

- AR series SCARA Robot**
P05
- FR series SCARA Robot**
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- TR series SCARA Robot**
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AR SERIES - four axis SCARA robot






Model		AR3215	AR4215	AR5215	AR6215/6220	AR7225	AR9225	AR6520	AR7520	AR8520	AR61030	AR81030	AR101030	
Diagram														
Species		SCARA	SCARA	SCARA	SCARA	SCARA	SCARA	SCARA	SCARA	SCARA	SCARA	SCARA	SCARA	
Number of axes		4	4	4	4	4	4	4	4	4	4	4	4	
Arm length		300mm	400mm	500mm	600mm	700mm	900mm	600mm	700mm	800mm	600mm	800mm	1000mm	
Axis specification	X axis	Arm length	100mm	200mm	300mm	300mm	400mm	600mm	300mm	400mm	500mm	200mm	400mm	600mm
		Rotation range	±127°	±127°	±127°	±130°	±130°	±130°	±130°	±130°	±130°	±145°	±145°	±145°
	Y axis	Arm length	200mm	200mm	200mm	300mm	300mm	300mm	300mm	300mm	300mm	400mm	400mm	400mm
		Rotation range	±142°	±142°	±142°	±140°	±140°	±140°	±140°	±140°	±140°	±150°	±150°	±150°
	Z axis	Route	150mm	150mm	150mm	150mm/200mm	250mm	250mm	200mm	200mm	200mm	300mm	300mm	300mm
R axis	Rotation range	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	
Highest speed	X axis	600°/s	600°/s	600°/s	375°/s	375°/s	375°/s	375°/s	300°/s	250°/s	300°/s	300°/s	250°/s	
	Y axis	600°/s	600°/s	600°/s	600°/s	600°/s	600°/s	600°/s	600°/s	600°/s	375°/s	375°/s	375°/s	
	X, Y-axis synthesis	5.2m/s	6.3m/s	7.3m/s	7.1m/s	7.7m/s	9.0m/s	7.1m/s	6.8m/s	6.6m/s	6.5m/s	6.8m/s	7.0m/s	
	Z axis	1.3m/s	1.3m/s	1.3m/s	1.21m/s	1.21m/s	1.2m/s	1.1m/s	1.1m/s	1.1m/s	1.4m/s	1.4m/s	1.4m/s	
	R axis	1667°/s	1667°/s	1667°/s	1666.7°/s	1500°/s	1666.7°/s	1500°/s	1500°/s	1500°/s	1000°/s	1000°/s	1000°/s	
Standard Cycle Time		0.35s	0.35s	0.36s	0.37s	0.37s	0.38s	0.39s	0.38s	0.38s	0.4s	0.38s	0.38s	
Repeat positioning accuracy	X, Y-axis	±0.01mm	±0.01mm	±0.01mm	±0.015mm	±0.015mm	±0.015mm	±0.015mm	±0.015mm	±0.015mm	±0.03mm	±0.03mm	±0.03mm	
	Z axis	±0.01mm	±0.01mm	±0.01mm	±0.015mm	±0.01mm	±0.01mm	±0.01mm	±0.01mm	±0.01mm	±0.02mm	±0.02mm	±0.02mm	
	R axis	±0.005°	±0.005°	±0.005°	±0.005°	±0.005°	±0.005°	±0.005°	±0.005°	±0.005°	±0.01°	±0.01°	±0.01°	
Rated / max load		2kg/5kg	2kg/5kg	2kg/5kg	2kg/5kg	2kg/5kg	2kg/5kg	5kg/10kg	5kg/10kg	5kg/10kg	10kg/20kg	10kg/20kg	10kg/20kg	
R axis allows load moment of inertia (Rated / max)		0.005 kg·m ²	0.005 kg·m ²	0.005 kg·m ²	0.005 kg·m ²	0.005 kg·m ²	0.005 kg·m ²	0.05 kg·m ²	0.05 kg·m ²	0.05 kg·m ²	0.1kg·m ²	0.1kg·m ²	0.1kg·m ²	
		0.035kg·m ²	0.035 kg·m ²	0.035 kg·m ²	0.035 kg·m ²	0.035 kg·m ²	0.035 kg·m ²	0.2 kg·m ²	0.2 kg·m ²	0.2 kg·m ²	0.5 kg·m ²	0.5kg·m ²	0.5 kg·m ²	
User signal line		0.2sq × 16 lines, 8 output, 6 input	0.2sq × 16 lines, 8 output, 6 input	0.2sq × 16 lines, 8 output, 6 input	0.2sq × 16 lines, 8 output, 6 input	0.2sq × 16 lines, 8 output, 6 input	0.2sq × 16 lines, 8 output, 6 input	0.2sq × 16 lines, 8 output, 6 input	0.2sq × 16 lines, 8 output, 6 input	0.2sq × 16 lines, 8 output, 6 input	0.2sq × 16 lines, 8 output, 6 input	0.2sq × 16 lines, 8 output, 6 input	0.2sq × 16 lines, 8 output, 6 input	
Users pipe		Φ6×2 root	Φ6×2 root	Φ6×2 root	Φ6×2 root	Φ6×2 root	Φ6×2 root	Φ6×2 root	Φ6×2 root	Φ6×2 root	Φ6×2 root	Φ6×2 root	Φ6×2 root	
Limit protection		1. Software limit 2. Mechanical limit (X, Y, Z axis)	1. Software limit 2. Mechanical limit (X, Y, Z axis)	1. Software limit 2. Mechanical limit (X, Y, Z axis)	1. Software limit 2. Mechanical limit (X, Y, Z axis)	1. Software limit 2. Mechanical limit (X, Y, Z axis)	1. Software limit 2. Mechanical limit (X, Y, Z axis)	1. Software limit 2. Mechanical limit (X, Y, Z axis)	1. Software limit 2. Mechanical limit (X, Y, Z axis)	1. Software limit 2. Mechanical limit (X, Y, Z axis)	1. Software limit 2. Mechanical limit (X, Y, Z axis)	1. Software limit 2. Mechanical limit (X, Y, Z axis)	1. Software limit 2. Mechanical limit (X, Y, Z axis)	
Weight		13.1kg	13.3kg	13.6kg	20kg	20.7kg	22.3kg	24.3kg	25kg	26.5kg	43.5kg	44.8kg	46.3kg	




GR SERIES - four axis SCARA robot




FR SERIES - four axis hanging type SCARA robot

TR SERIES - three axis SCARA robot

SD series six axis robot

Model		GR4215	GR6520	FR5215	FR6115	FR8320	
Diagram							
Species		SCARA	SCARA	SCARA	SCARA	SCARA	
Number of axes		4	4	4	4	4	
Arm length		400mm	600mm	550mm	600mm	850mm	
Axis specification	X axis	Arm length	200mm	300mm	250mm	300mm	425mm
		Rotation range	±136°	±140°	±360°	±360°	±360°
	Y axis	Arm length	200mm	300mm	300mm	300mm	425mm
		Rotation range	±145°	±152°	±360°	±360°	±360°
Z axis	Route	150mm	200mm	150mm	150mm	200mm	
R axis	Rotation range	±360°	±360°	±360°	±360°	±360°	
Highest speed	X axis	600°/s	375°/s	517.6°/s	517.6°/s	297°/s	
	Y axis	600°/s	600°/s	374.3°/s	374.3°/s	297°/s	
	X, Y-axis synthesis	6.3m/s	7.7m/s	6.9m/s	7.4m/s	6.6m/s	
	Z axis	1.3m/s	1.13m/s	1.3m/s	1.3m/s	1.4m/s	
	R axis	1449°/s	1823°/s	1666.7°/s	1666.7°/s	1500°/s	
Standard Cycle Time		0.35s (2kg)	0.39s (5kg)	0.42s (2kg)	0.38s (1kg)	0.45s (3kg)	
Repeat positioning accuracy	X, Y-axis	±0.01mm	±0.015mm	±0.025mm	±0.025mm	±0.035mm	
	Z axis	±0.01mm	±0.01mm	±0.01mm	±0.01mm	±0.02mm	
	R axis	±0.005°	±0.005°	±0.005°	±0.005°	±0.01°	
Rated / max load		2kg/5kg	5kg/10kg	2kg/5kg	1kg/3kg	3kg/6kg	
R axis allows load moment of inertia (Rated / max)		0.006 kg·m ²	0.035 kg·m ²	0.005 kg·m ²	0.005 kg·m ²	0.05 kg·m ²	
		0.045 kg·m ²	0.138 kg·m ²	0.035 kg·m ²	0.035 kg·m ²	0.2 kg·m ²	
User signal line		0.2sq×26lines, User-defined Input and output	0.2sq×26lines, User-defined Input and output	0.2sq × 16 lines, 8 output, 6 input	0.2sq × 16 lines, 8 output, 6 input	0.2sq×26lines, User-defined Input and output	
Users pipe		Φ6×2 root Φ4×1 root	Φ6×2 root Φ4×1 root	Φ4×2 root	Φ4×2 root	Φ6×3 root	
Limit protection		1. Software limit 2. Mechanical limit (X, Y, Z axis)	1. Software limit 2. Mechanical limit (X, Y, Z axis)	Software limit	Software limit	Software limit	
Weight		13.35kg	22.75kg	21kg	21.5kg	41kg	

Model		TR3208	TR4208	TR5208	
Diagram					
Species		SCARA	SCARA	SCARA	
Number of axes		3	3	3	
Arm length		300mm	400mm	500mm	
Axis specification	X axis	Arm length	100mm	200mm	300mm
		Rotation range	±127°	±127°	±127°
	Y axis	Arm length	200mm	200mm	200mm
		Rotation range	±142°	±142°	±142°
Z axis	Route	75mm	75mm	75mm	
Highest speed	X axis	600°/s	600°/s	600°/s	
	Y axis	375°/s	375°/s	375°/s	
	X, Y-axis synthesis	4.45m/s	5.5m/s	6.5m/s	
	Z axis	0.83m/s	0.83m/s	0.83m/s	
Standard Cycle Time		0.45s	0.4s	0.45s	
Repeat positioning accuracy	X, Y-axis	±0.01mm	±0.01mm	±0.01mm	
	Z axis	±0.01mm	±0.01mm	±0.01mm	
R axis allows load moment of inertia (Rated / max)		2kg/5kg	2kg/5kg	2kg/5kg	
User signal line		0.2sq × 16 lines, 8 output, 6 input	0.2sq × 16 lines, 8 output, 6 input	0.2sq × 16 lines, 8 output, 6 input	
Users pipe		Φ6×2 root	Φ6×2 root	Φ6×2 root	
Limit protection		1. Software limit 2. Mechanical limit (X, Y, Z axis)	1. Software limit 2. Mechanical limit (X, Y, Z axis)	1. Software limit 2. Mechanical limit (X, Y, Z axis)	
Weight		11.5kg	11.8kg	12.1kg	

Model		ADT-SD600	ADT-SD700	ADT-SD900
Diagram				
Species		Vertical multi-joint	Vertical multi-joint	Vertical multi-joint
Number of axes		6	6	6
Arm length		596mm	707mm	906mm
Repeat positioning accuracy		±0.02mm	±0.02mm	±0.03mm
Wrist load		4kg	7kg	7kg
Range of motion	J1	+170°/-170°	+170°/-170°	+170°/-170°
	J2	+144°/-80°	+135°/-96°	+135°/-96°
	J3	+54°/-194°	+65°/-195°	+65°/-195°
	J4	+170°/-170°	+170°/-170°	+170°/-170°
	J5	+119°/-119°	+120°/-120°	+120°/-120°
	J6	+360°/-360°	+360°/-360°	+360°/-360°
Maximum speed	J1	440°/s	440°/s	355°/s
	J2	355°/s	355°/s	355°/s
	J3	440°/s	440°/s	355°/s
	J4	490°/s	480°/s	480°/s
	J5	450°/s	450°/s	450°/s
	J6	720°/s	705°/s	705°/s
Working environment temperature		0~+40°C	0~+40°C	0~+40°C
Protection level		IP54	IP54	IP54
Noise level		≤70dB(A)	≤70dB(A)	≤70dB(A)
Installation		Loading, flip, side	Loading, flip, side	Loading, flip, side
Weight		32Kg	50Kg	52Kg

AR SERIES - four axis SCARA robot

AR3215

■ Specification Table

Species			SCARA
Axis specification	X axis	Arm length	100mm
		Rotation range	±127°
	Y axis	Arm length	200mm
		Rotation range	±142°
	Z axis	Route	150mm
R axis	Rotation range	±360°	
Highest speed	X axis		600°/s
	Y axis		600°/s
	X, Y-axis synthesis		5.2m/s
	Z axis		1.3m/s
	R axis		1667°/s
Repeat positioning accuracy	X, Y-axis		±0.01mm
	Z axis		±0.01mm
	R axis		±0.005°
R axis allows load moment of inertia (Rated / max)			0.005 kg·m ² 0.035 kg·m ²
User signal line			1. Software limit 2. Mechanical limit (X, Y, Z axis)
Users pipe			0.2sq × 16 lines, 8 output, 6 input
Limit protection			Φ6×2 root
Weight			13.1kg



Standard cycle time (rated load)

0.35s

Arm length (mm)

300

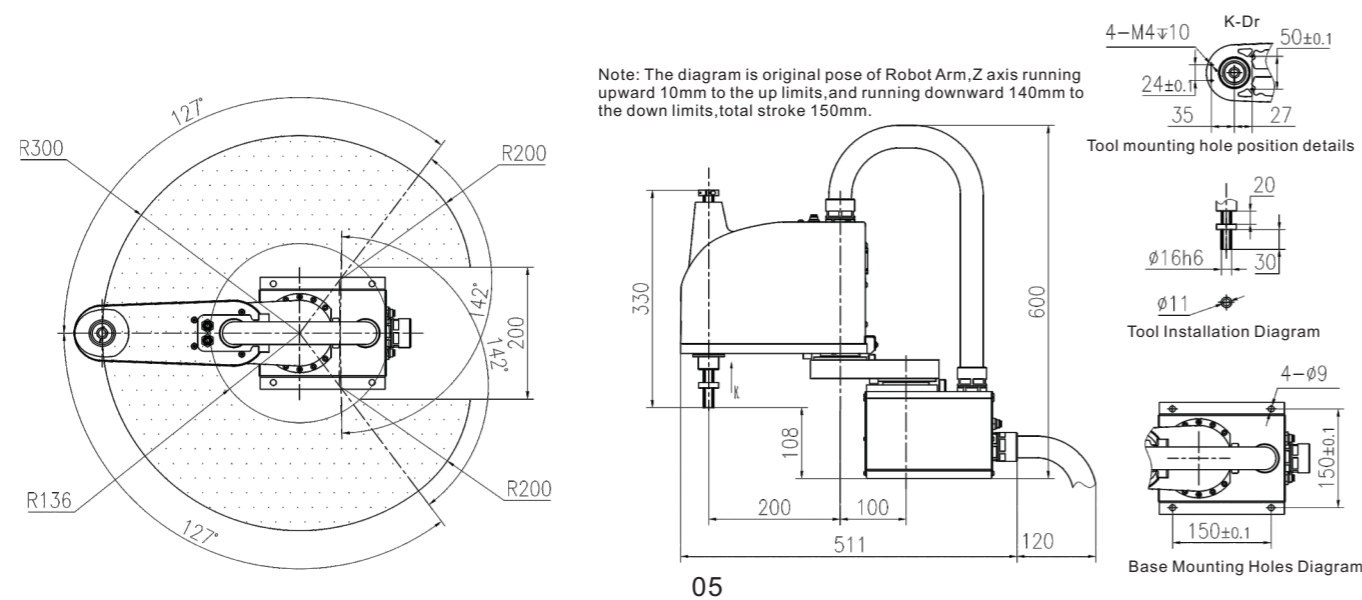
Rated / max load

2kg/5kg

System

QC400A

■ Robot Movement Space, Shape and Installation Dimension (Unit: mm)



AR SERIES - four axis SCARA robot

AR4215

■ Specification Table

Species			SCARA
Axis specification	X axis	Arm length	200mm
		Rotation range	±127°
	Y axis	Arm length	200mm
		Rotation range	±142°
	Z axis	Route	150mm
R axis	Rotation range	±360°	
Highest speed	X axis		600°/s
	Y axis		600°/s
	X, Y-axis synthesis		6.3m/s
	Z axis		1.3m/s
	R axis		1667°/s
Repeat positioning accuracy	X, Y-axis		±0.01mm
	Z axis		±0.01mm
	R axis		±0.005°
R axis allows load moment of inertia (Rated / max)			0.005 kg·m ² 0.035 kg·m ²
User signal line			1. Software limit 2. Mechanical limit (X, Y, Z axis)
Users pipe			0.2sq × 16 lines, 8 output, 6 input
Limit protection			Φ6×2 root
Weight			13.3kg



Standard cycle time (rated load)

0.35s

Arm length (mm)

400

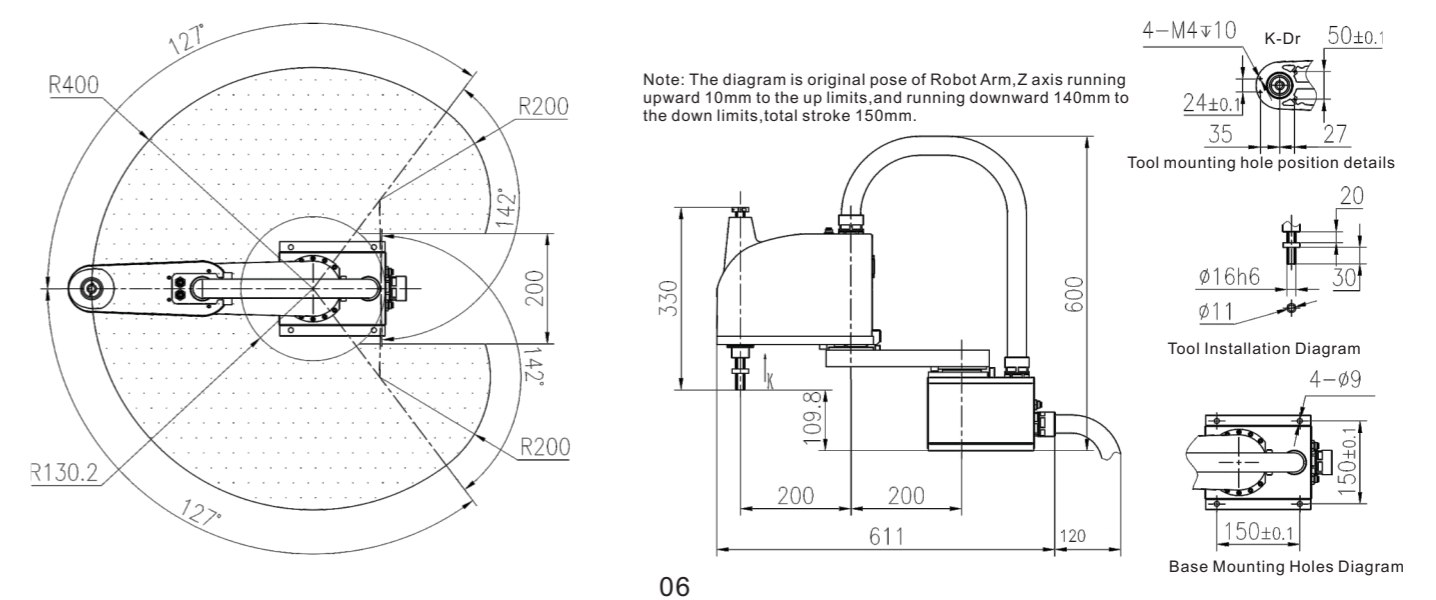
Rated / max load

2kg/5kg

System

QC400A

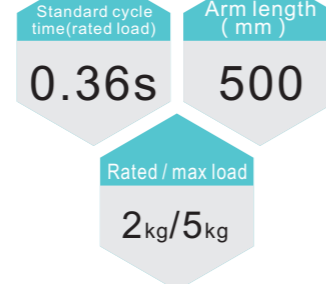
■ Robot Movement Space, Shape and Installation Dimension (Unit: mm)



AR SERIES - four axis SCARA robot AR5215

■ Specification Table

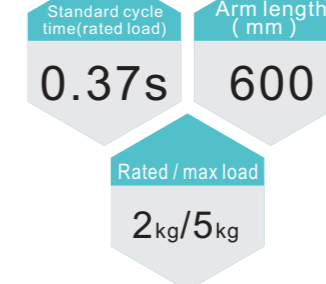
Species		SCARA	
Axis specification	X axis	Arm length	300mm
		Rotation range	±127°
	Y axis	Arm length	200mm
		Rotation range	±142°
Z axis	Route	150mm	
R axis	Rotation range	±360°	
Highest speed	X axis		600°/s
	Y axis		600°/s
	X, Y-axis synthesis		7.3m/s
	Z axis		1.3m/s
	R axis		1667°/s
Repeat positioning accuracy	X, Y-axis		±0.01mm
	Z axis		±0.01mm
	R axis		±0.005°
R axis allows load moment of inertia (Rated / max)		0.005 kg·m ² 0.035 kg·m ²	
User signal line		1. Software limit 2. Mechanical limit (X, Y, Z axis)	
Users pipe		0.2sq × 16 lines, 8 output, 6 input	
Limit protection		Φ6×2 root	
Weight		13.6kg	



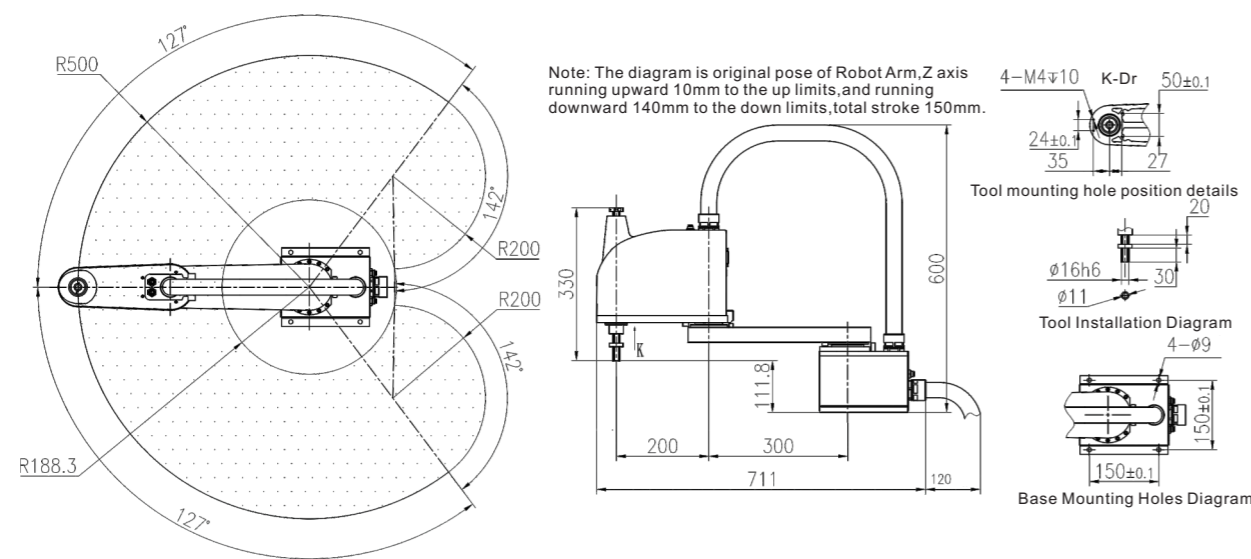
AR SERIES - four axis SCARA robot AR6215/6220

■ Specification Table

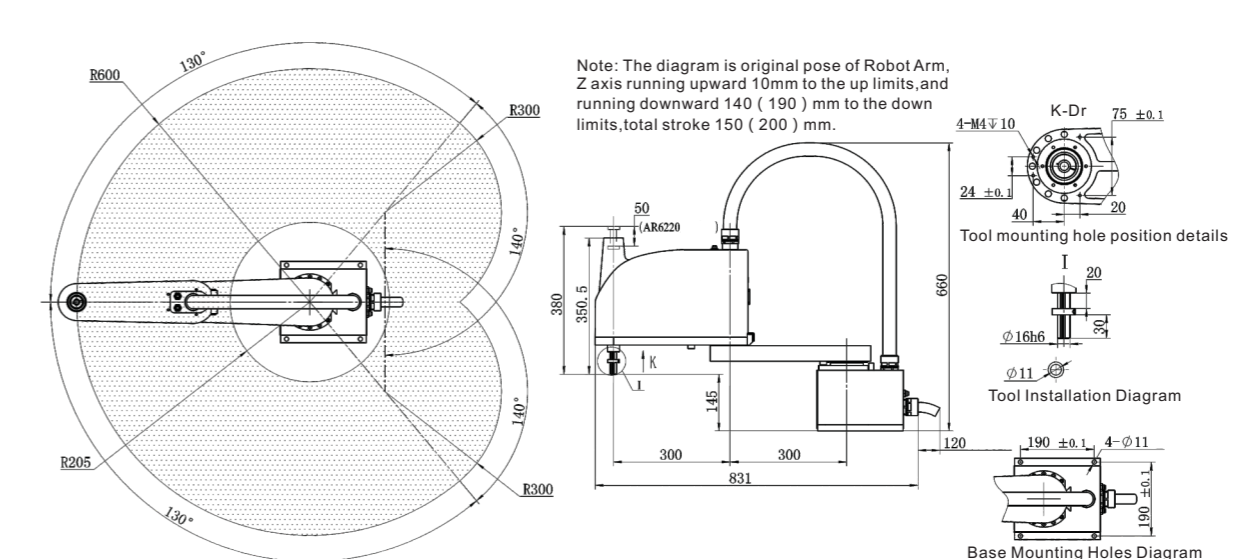
Species		SCARA	
Axis specification	X axis	Arm length	300mm
		Rotation range	±130°
	Y axis	Arm length	300mm
		Rotation range	±140°
Z axis	Route	150mm/200mm	
R axis	Rotation range	±360°	
Highest speed	X axis		375°/s
	Y axis		600°/s
	X, Y-axis synthesis		7.1m/s
	Z axis		1.21m/s
	R axis		1666.7°/s
Repeat positioning accuracy	X, Y-axis		±0.015mm
	Z axis		±0.015mm
	R axis		±0.005°
R axis allows load moment of inertia (Rated / max)		0.005 kg·m ² 0.035 kg·m ²	
User signal line		1. Software limit 2. Mechanical limit (X, Y, Z axis)	
Users pipe		0.2sq × 16 lines, 8 output, 6 input	
Limit protection		Φ6×2 root	
Weight		20kg	



■ Robot Movement Space, Shape and Installation Dimension (Unit: mm)



■ Robot Movement Space, Shape and Installation Dimension (Unit: mm)



AR SERIES - four axis SCARA robot

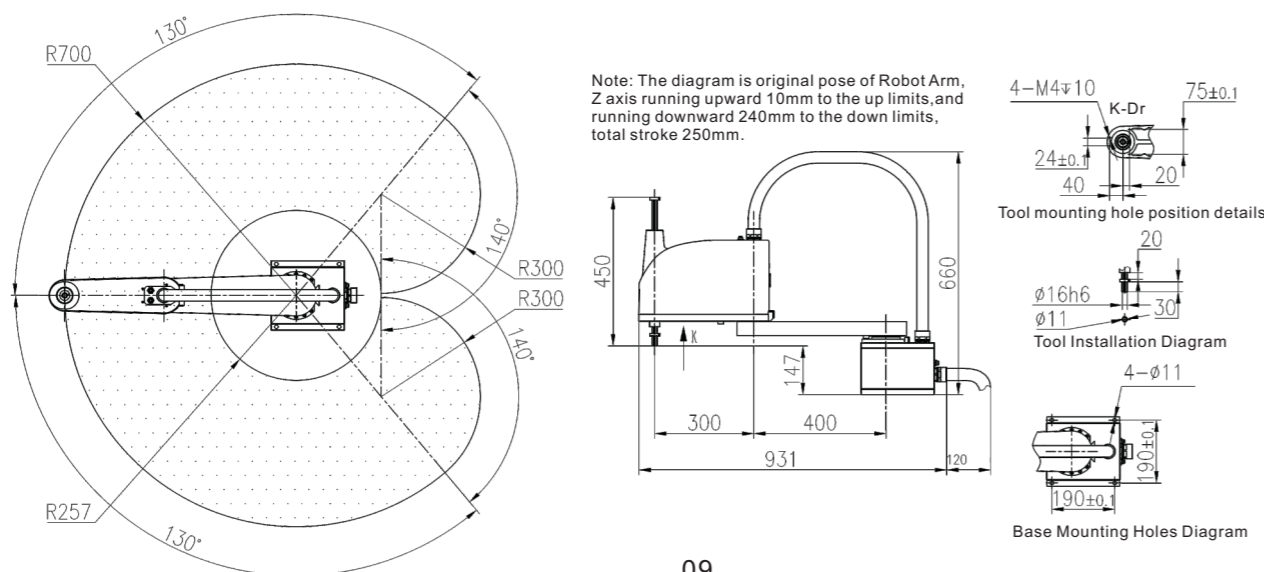
AR7225

■ Specification Table

Species		SCARA	
Axis specification	X axis	Arm length	400mm
		Rotation range	±130°
	Y axis	Arm length	300mm
		Rotation range	±140°
Z axis	Route	250mm	
R axis	Rotation range	±360°	
Highest speed	X axis		375°/s
	Y axis		600°/s
	X, Y-axis synthesis		7.7m/s
	Z axis		1.21m/s
	R axis		1500°/s
Repeat positioning accuracy	X, Y-axis		±0.015mm
	Z axis		±0.01mm
	R axis		±0.005°
R axis allows load moment of inertia (Rated / max)		0.005 kg·m ² 0.035 kg·m ²	
User signal line		1. Software limit 2. Mechanical limit (X, Y, Z axis)	
Users pipe		0.2sq × 16 lines, 8 output, 6 input	
Limit protection		Φ6×2 root	
Weight		20.7kg	



■ Robot Movement Space, Shape and Installation Dimension (Unit: mm)



AR SERIES - four axis SCARA robot

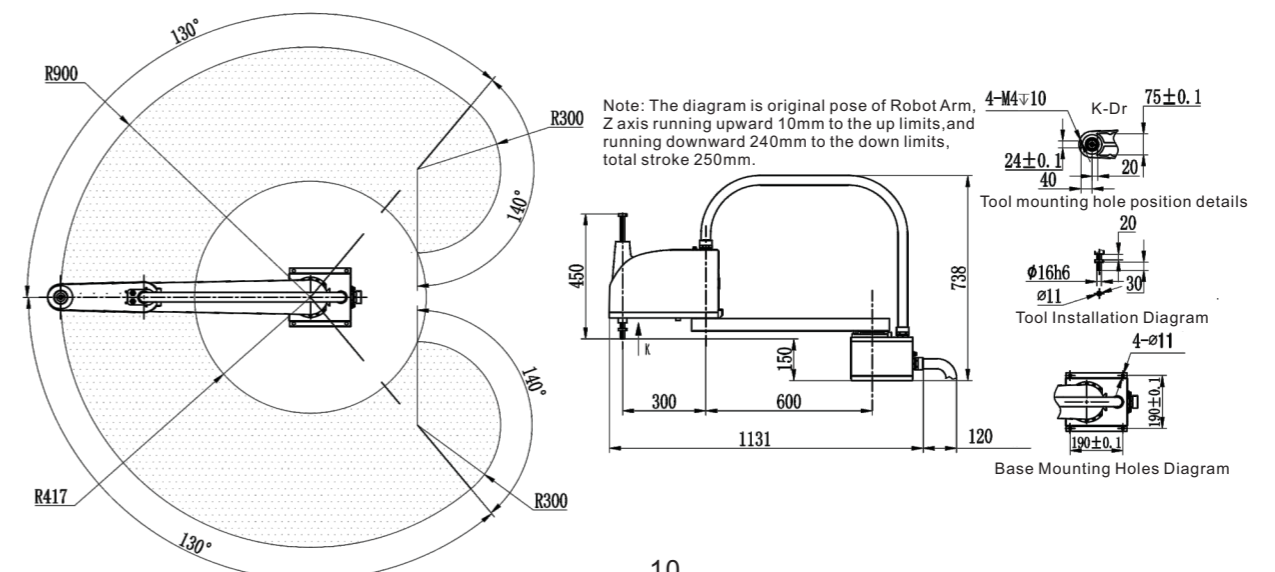
AR9225

■ Specification Table

Species		SCARA	
Axis specification	X axis	Arm length	600mm
		Rotation range	±130°
	Y axis	Arm length	300mm
		Rotation range	±140°
Z axis	Route	250mm	
R axis	Rotation range	±360°	
Highest speed	X axis		375°/s
	Y axis		600°/s
	X, Y-axis synthesis		9.0m/s
	Z axis		1.2m/s
	R axis		1666.7°/s
Repeat positioning accuracy	X, Y-axis		±0.015mm
	Z axis		±0.01mm
	R axis		±0.005°
R axis allows load moment of inertia (Rated / max)		0.005 kg·m ² 0.035 kg·m ²	
User signal line		1. Software limit 2. Mechanical limit (X, Y, Z axis)	
Users pipe		0.2sq × 16 lines, 8 output, 6 input	
Limit protection		Φ6×2 root	
Weight		22.3kg	



■ Robot Movement Space, Shape and Installation Dimension (Unit: mm)



AR SERIES - four axis SCARA robot

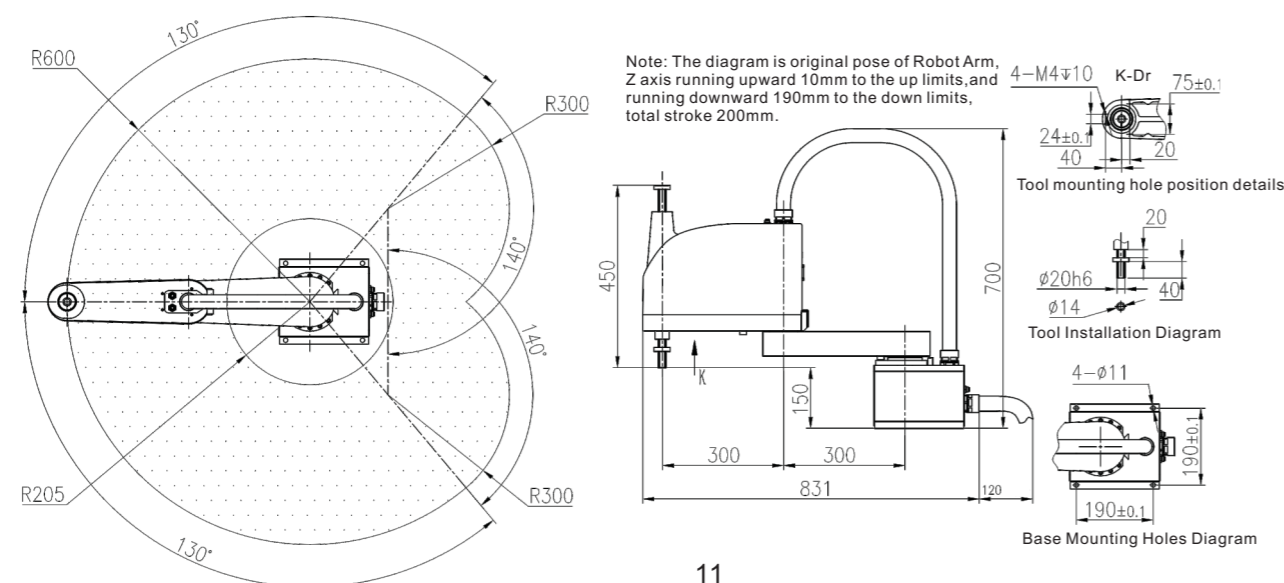
AR6520

■ Specification Table

Species		SCARA	
Axis specification	X axis	Arm length	300mm
		Rotation range	±130°
	Y axis	Arm length	300mm
		Rotation range	±140°
Z axis	Route	200mm	
R axis	Rotation range	±360°	
Highest speed	X axis		375°/s
	Y axis		600°/s
	X, Y-axis synthesis		7.1m/s
	Z axis		1.1m/s
	R axis		1500°/s
Repeat positioning accuracy	X, Y-axis		±0.015mm
	Z axis		±0.01mm
	R axis		±0.005°
R axis allows load moment of inertia (Rated / max)		0.05 kg·m ² 0.2 kg·m ²	
User signal line		1. Software limit 2. Mechanical limit (X, Y, Z axis)	
Users pipe		0.2sq × 16 lines, 8 output, 6 input	
Limit protection		Φ6×2 root	
Weight		24.3kg	



■ Robot Movement Space, Shape and Installation Dimension (Unit: mm)



AR SERIES - four axis SCARA robot

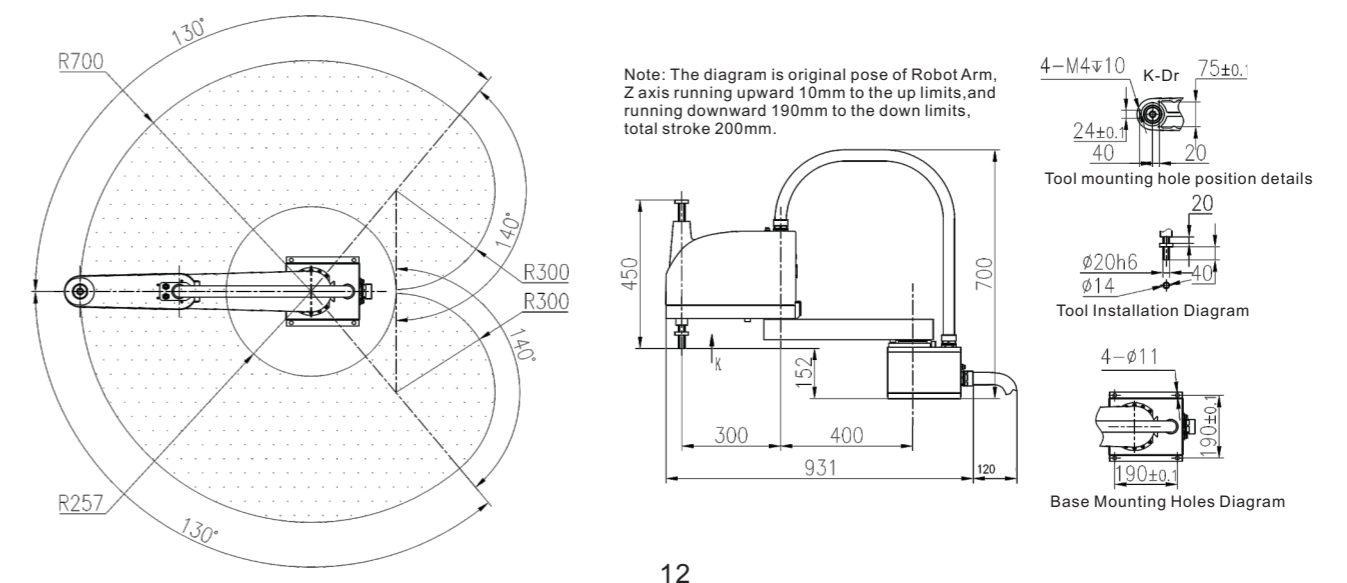
AR7520

■ Specification Table

Species		SCARA	
Axis specification	X axis	Arm length	400mm
		Rotation range	±130°
	Y axis	Arm length	300mm
		Rotation range	±140°
Z axis	Route	200mm	
R axis	Rotation range	±360°	
Highest speed	X axis		300°/s
	Y axis		600°/s
	X, Y-axis synthesis		6.8m/s
	Z axis		1.1m/s
	R axis		1500°/s
Repeat positioning accuracy	X, Y-axis		±0.015mm
	Z axis		±0.01mm
	R axis		±0.005°
R axis allows load moment of inertia (Rated / max)		0.05 kg·m ² 0.2 kg·m ²	
User signal line		1. Software limit 2. Mechanical limit (X, Y, Z axis)	
Users pipe		0.2sq × 16 lines, 8 output, 6 input	
Limit protection		Φ6×2 root	
Weight		25kg	



■ Robot Movement Space, Shape and Installation Dimension (Unit: mm)

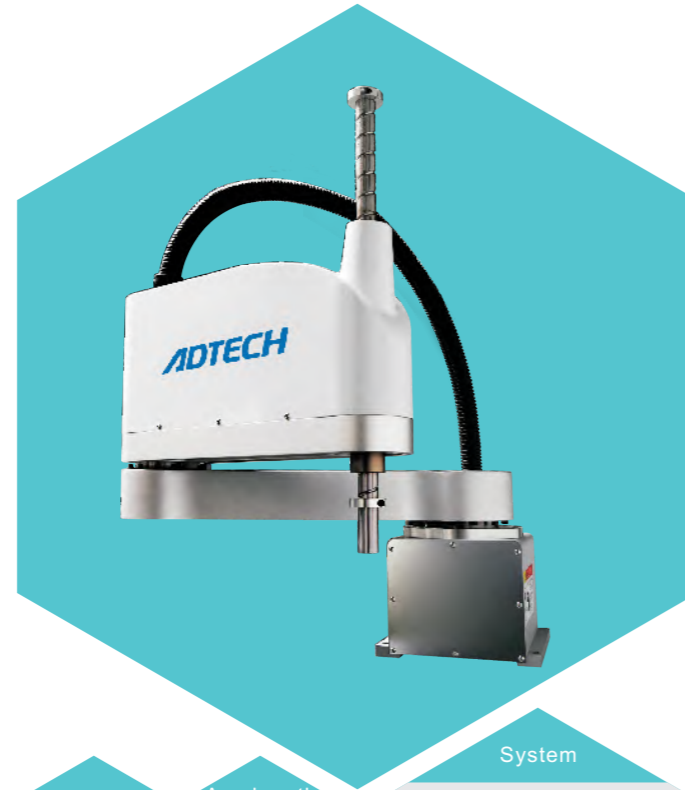


AR SERIES - four axis SCARA robot

AR81030

■ Specification Table

Species		SCARA	
Axis specification	X axis	Arm length	400mm
		Rotation range	±145°
	Y axis	Arm length	400mm
		Rotation range	±150°
Z axis	Route	300mm	
R axis	Rotation range	±360°	
Highest speed	X axis		300°/s
	Y axis		375°/s
	X, Y-axis synthesis		6.8m/s
	Z axis		1.4m/s
	R axis		1000°/s
Repeat positioning accuracy	X, Y-axis		±0.03mm
	Z axis		±0.02mm
	R axis		±0.01°
R axis allows load moment of inertia (Rated / max)		0.1kg·m ² 0.5 kg·m ²	
User signal line		1. Software limit 2. Mechanical limit (X, Y, Z axis)	
Users pipe		0.2sq × 16 lines, 8 output, 6 input	
Limit protection		Φ6×2 root	
Weight		44.8kg	



Standard cycle time (rated load) **0.38s**

Arm length (mm) **800**

Rated / max load **10kg/20kg**



AR SERIES - four axis SCARA robot

AR101030

■ Specification Table

Species		SCARA	
Axis specification	X axis	Arm length	600mm
		Rotation range	±145°
	Y axis	Arm length	400mm
		Rotation range	±150°
Z axis	Route	300mm	
R axis	Rotation range	±360°	
Highest speed	X axis		250°/s
	Y axis		375°/s
	X, Y-axis synthesis		7.0m/s
	Z axis		1.4m/s
	R axis		1000°/s
Repeat positioning accuracy	X, Y-axis		±0.03mm
	Z axis		±0.02mm
	R axis		±0.01°
R axis allows load moment of inertia (Rated / max)		0.1kg·m ² 0.5kg·m ²	
User signal line		1. Software limit 2. Mechanical limit (X, Y, Z axis)	
Users pipe		0.2sq × 16 lines, 8 output, 6 input	
Limit protection		Φ6×2 root	
Weight		46.3kg	



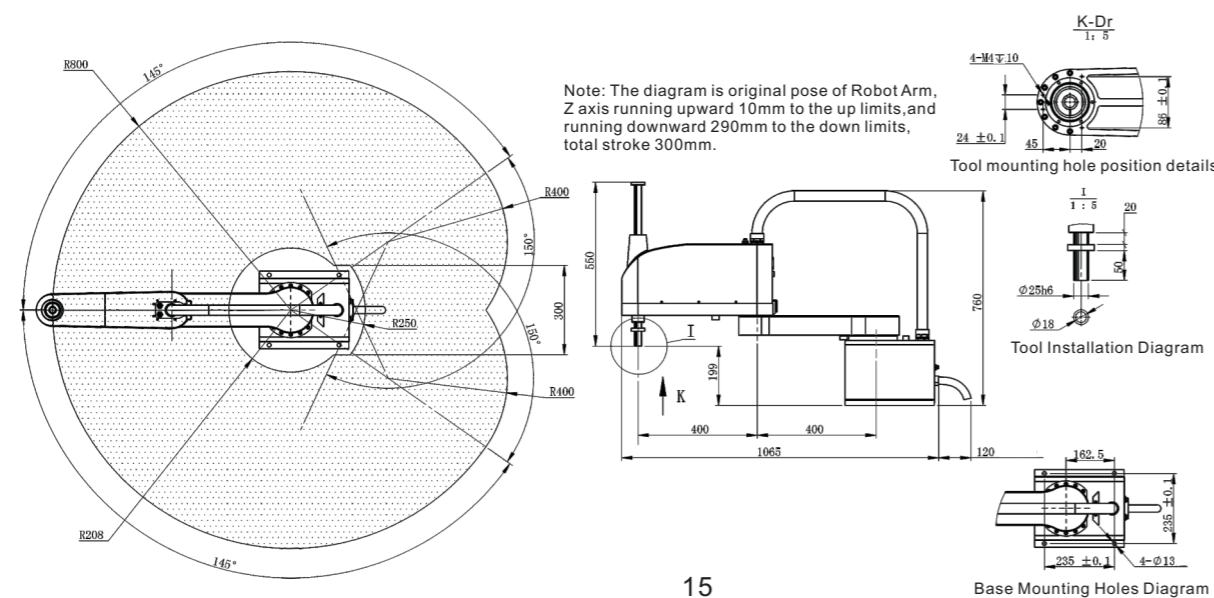
Standard cycle time (rated load) **0.38s**

Arm length (mm) **1000**

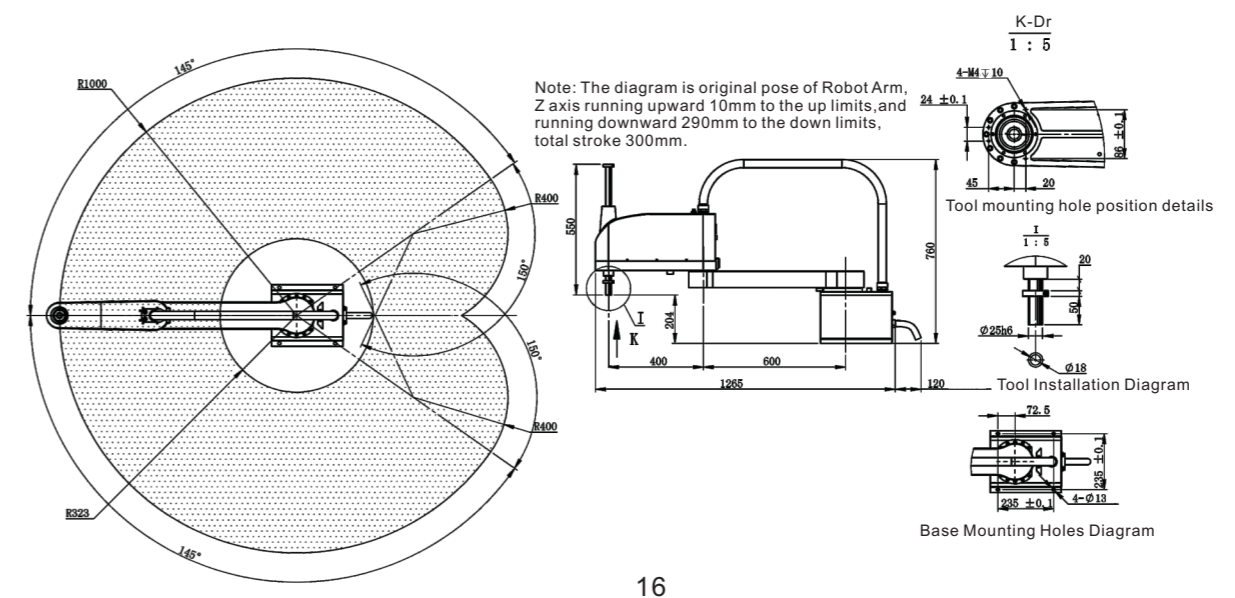
Rated / max load **10kg/20kg**



■ Robot Movement Space, Shape and Installation Dimension (Unit: mm)



■ Robot Movement Space, Shape and Installation Dimension (Unit: mm)



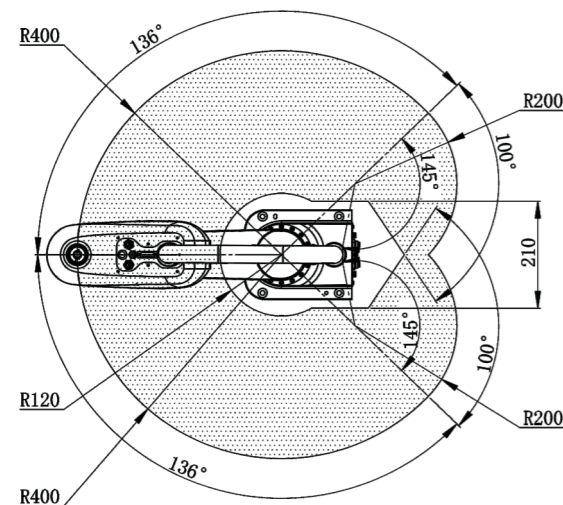
AR SERIES - four axis SCARA robot GR4215

■ Specification Table

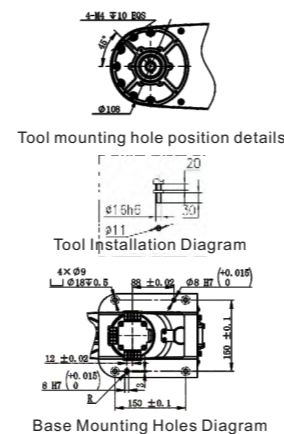
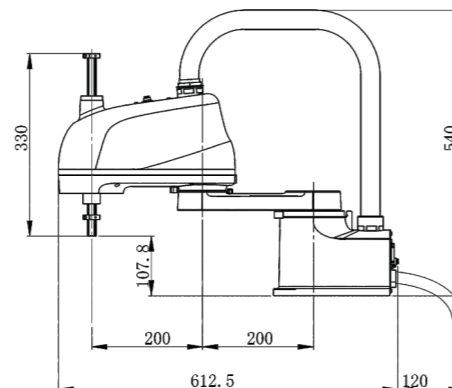
Species		SCARA	
Axis specification	X axis	Arm length	200mm
		Rotation range	±136°
	Y axis	Arm length	200mm
		Rotation range	±145°
Z axis	Route	150mm	
R axis	Rotation range	±360°	
Highest speed	X axis		600°/s
	Y axis		600°/s
	X, Y-axis synthesis		6.3m/s
	Z axis		1.3m/s
	R axis		1449°/s
Repeat positioning accuracy	X, Y-axis		±0.01mm
	Z axis		±0.01mm
	R axis		±0.005°
R axis allows load moment of inertia (Rated / max)		0.006 kg·m ² 0.045 kg·m ²	
User signal line		1. Software limit 2. Mechanical limit (X, Y, Z axis)	
Users pipe		0.2sq×26lines, User-defined Input and output	
Limit protection		Φ6×2root Φ4×1root	
Weight		13.35kg	



■ Robot Movement Space, Shape and Installation Dimension (Unit: mm)



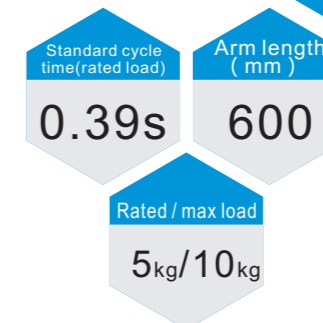
Note: The diagram is original pose of Robot Arm, Z axis running upward 10mm to the up limits, and running downward 140mm to the down limits, total stroke 150mm.



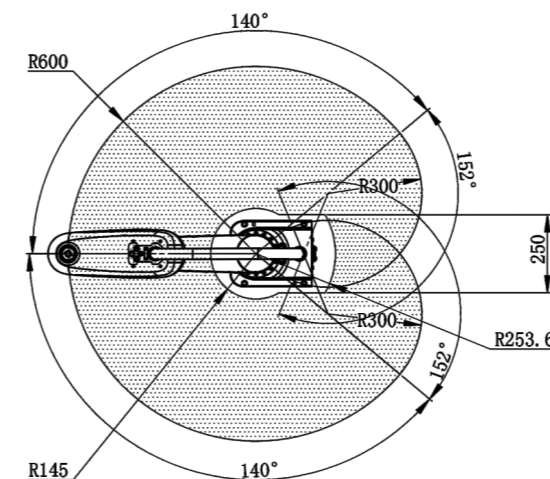
AR SERIES - four axis SCARA robot GR6520

■ Specification Table

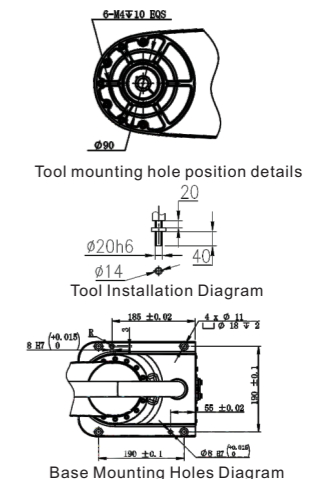
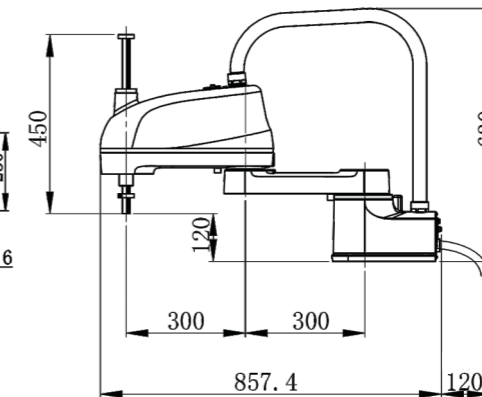
Species		SCARA	
Axis specification	X axis	Arm length	300mm
		Rotation range	±140°
	Y axis	Arm length	300mm
		Rotation range	±152°
Z axis	Route	200mm	
R axis	Rotation range	±360°	
Highest speed	X axis		375°/s
	Y axis		600°/s
	X, Y-axis synthesis		7.7m/s
	Z axis		1.13m/s
	R axis		1823°/s
Repeat positioning accuracy	X, Y-axis		±0.015mm
	Z axis		±0.01mm
	R axis		±0.005°
R axis allows load moment of inertia (Rated / max)		0.035 kg·m ² 0.138 kg·m ²	
User signal line		1. Software limit 2. Mechanical limit (X, Y, Z axis)	
Users pipe		0.2sq×26lines, User-defined Input and output	
Limit protection		Φ6×2root Φ4×1root	
Weight		22.75kg	



■ Robot Movement Space, Shape and Installation Dimension (Unit: mm)



Note: The diagram is original pose of Robot Arm, Z axis running upward 10mm to the up limits, and running downward 190mm to the down limits, total stroke 200mm.



FR SERIES - four axis hanging type SCARA robot FR5215

■ Specification Table

Species		SCARA	
Axis specification	X axis	Arm length	250mm
		Rotation range	±360°
	Y axis	Arm length	300mm
		Rotation range	±360°
Z axis	Route	150mm	
R axis	Rotation range	±360°	
Highest speed	X axis	517.6°/s	
	Y axis	374.3°/s	
	X, Y-axis synthesis	6.9m/s	
	Z axis	1.3m/s	
	R axis	1666.7°/s	
Repeat positioning accuracy	X, Y-axis	±0.025mm	
	Z axis	±0.01mm	
	R axis	±0.005°	
R axis allows load moment of inertia (Rated / max)		0.005 kg·m ²	
		0.035 kg·m ²	
User signal line		Software limit	
Users pipe		0.2sq × 16 lines, 8 output, 6 input	
Limit protection		Φ4×2 root	
Weight		21kg	



Standard cycle time (rated load) **0.42s**

Arm length (mm) **550**

Rated / max load **2kg/5kg**



FR SERIES - four axis hanging type SCARA robot FR6115

■ Specification Table

Species		SCARA	
Axis specification	X axis	Arm length	300mm
		Rotation range	±360°
	Y axis	Arm length	300mm
		Rotation range	±360°
Z axis	Route	150mm	
R axis	Rotation range	±360°	
Highest speed	X axis	517.6°/s	
	Y axis	374.3°/s	
	X, Y-axis synthesis	7.4m/s	
	Z axis	1.3m/s	
	R axis	1666.7°/s	
Repeat positioning accuracy	X, Y-axis	±0.025mm	
	Z axis	±0.01mm	
	R axis	±0.005°	
R axis allows load moment of inertia (Rated / max)		0.005 kg·m ²	
		0.035 kg·m ²	
User signal line		Software limit	
Users pipe		0.2sq × 16 lines, 8 output, 6 input	
Limit protection		Φ4×2 root	
Weight		21.5kg	



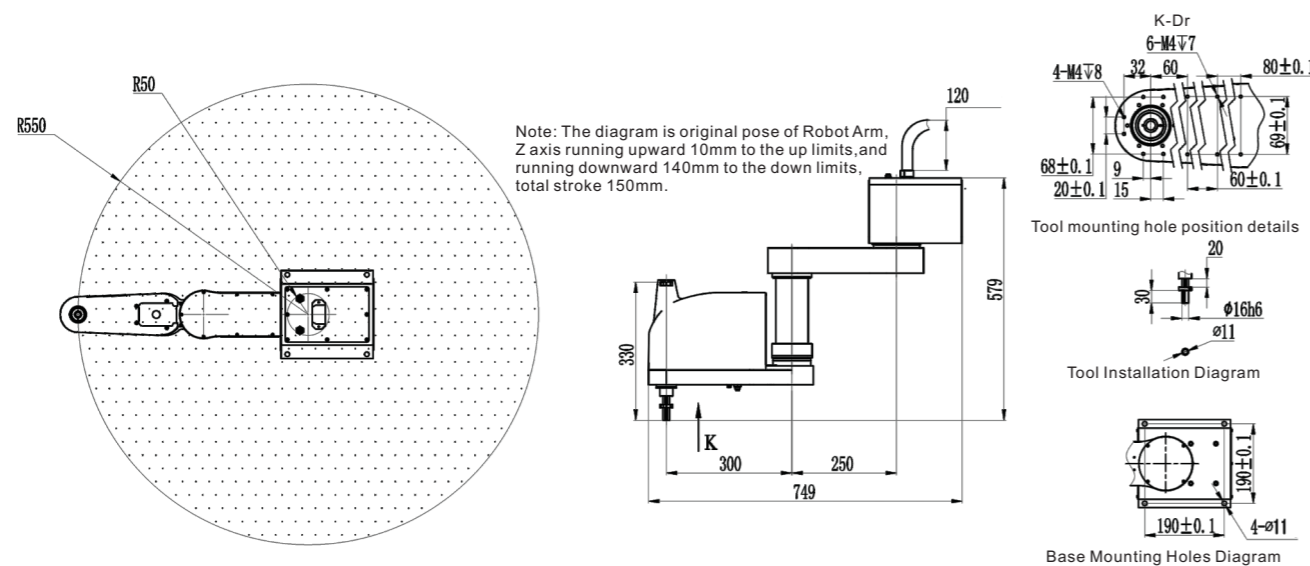
Standard cycle time (rated load) **0.38s**

Arm length (mm) **600**

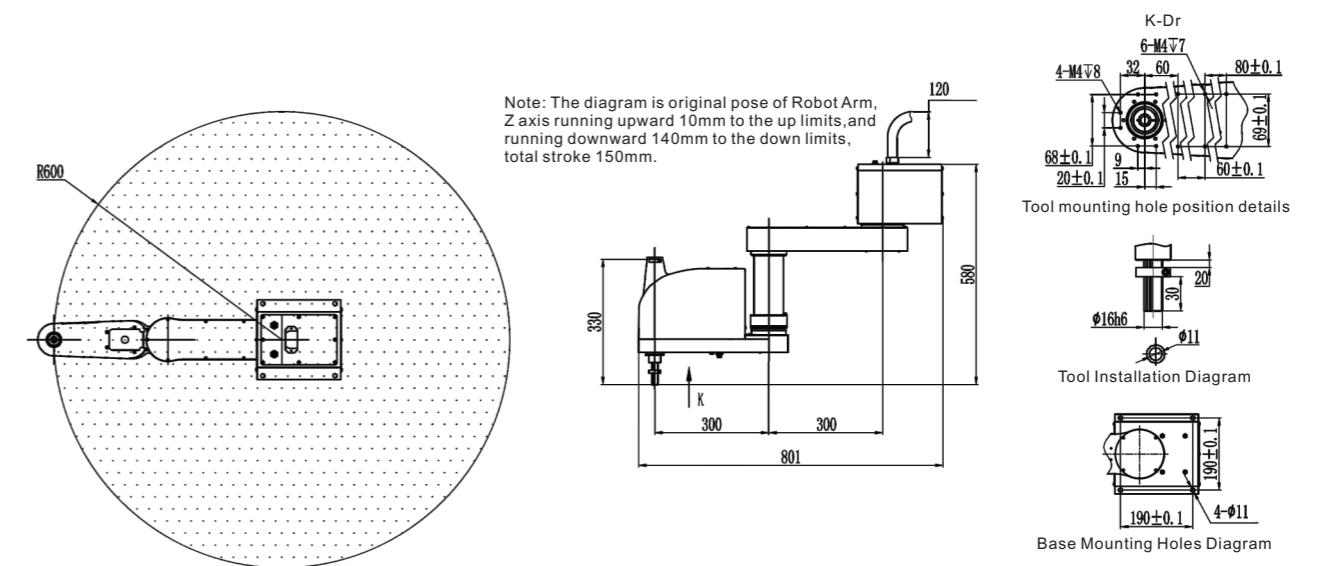
Rated / max load **1kg/3kg**



■ Robot Movement Space, Shape and Installation Dimension (Unit: mm)



■ Robot Movement Space, Shape and Installation Dimension (Unit: mm)



FR SERIES - four axis hanging type SCARA robot

FR8320

Specification Table

Species			SCARA
Axis specification	X axis	Arm length	425mm
		Rotation range	±360°
	Y axis	Arm length	425mm
		Rotation range	±360°
Z axis	Route	200mm	
R axis	Rotation range	±360°	
Highest speed	X axis		297°/s
	Y axis		297°/s
	X, Y-axis synthesis		6.6m/s
	Z axis		1.4m/s
	R axis		1500°/s
Repeat positioning accuracy	X, Y-axis		±0.035mm
	Z axis		±0.02mm
	R axis		±0.01°
R axis allows load moment of inertia (Rated / max)			0.05 kg·m ² 0.2 kg·m ²
User signal line			Software limit
Users pipe			0.2sq × 16 lines, 8 output, 6 input
Limit protection			Φ6×3 root
Weight			41kg



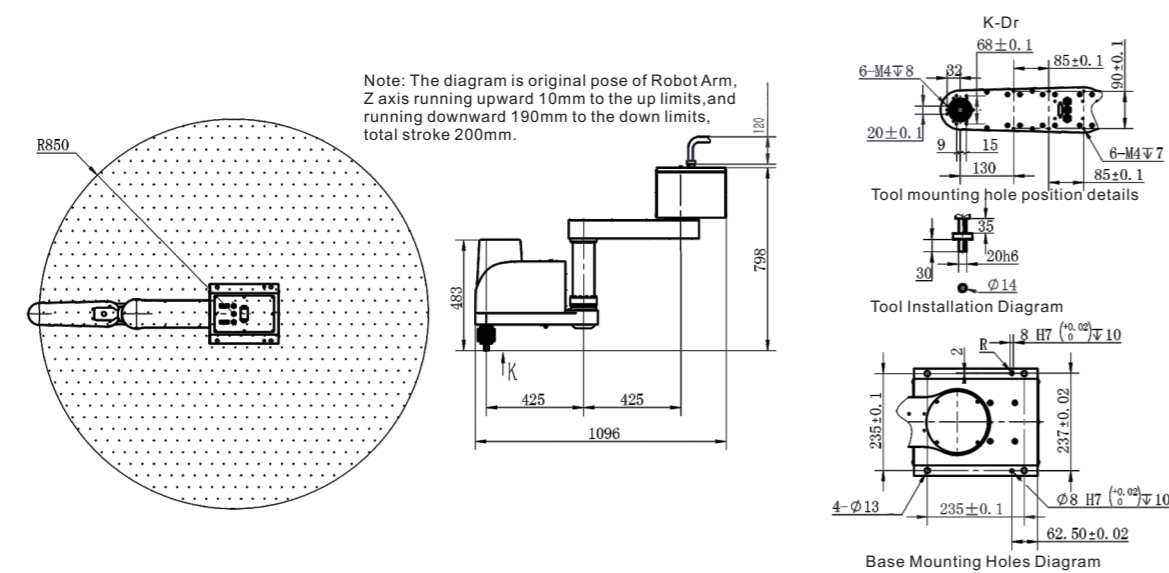
Standard cycle time (rated load) **0.45s**

Arm length (mm) **850**

Rated / max load **3kg/6kg**



Robot Movement Space, Shape and Installation Dimension (Unit: mm)



TR SERIES - three axis SCARA robot

TR3208

Specification Table

Species			SCARA
Axis specification	X axis	Arm length	100mm
		Rotation range	±127°
	Y axis	Arm length	200mm
		Rotation range	±142°
Z axis	Route	75mm	
Highest speed	X axis		600°/s
	Y axis		375°/s
	X, Y-axis synthesis		4.45m/s
	Z axis		0.83m/s
Repeat positioning accuracy	X, Y-axis		±0.01mm
	Z axis		±0.01mm
User signal line			1. Software limit 2. Mechanical limit (X, Y, Z axis)
Users pipe			0.2sq × 16 lines, 8 output, 6 input
Limit protection			Φ6×2 root
Weight			11.5kg



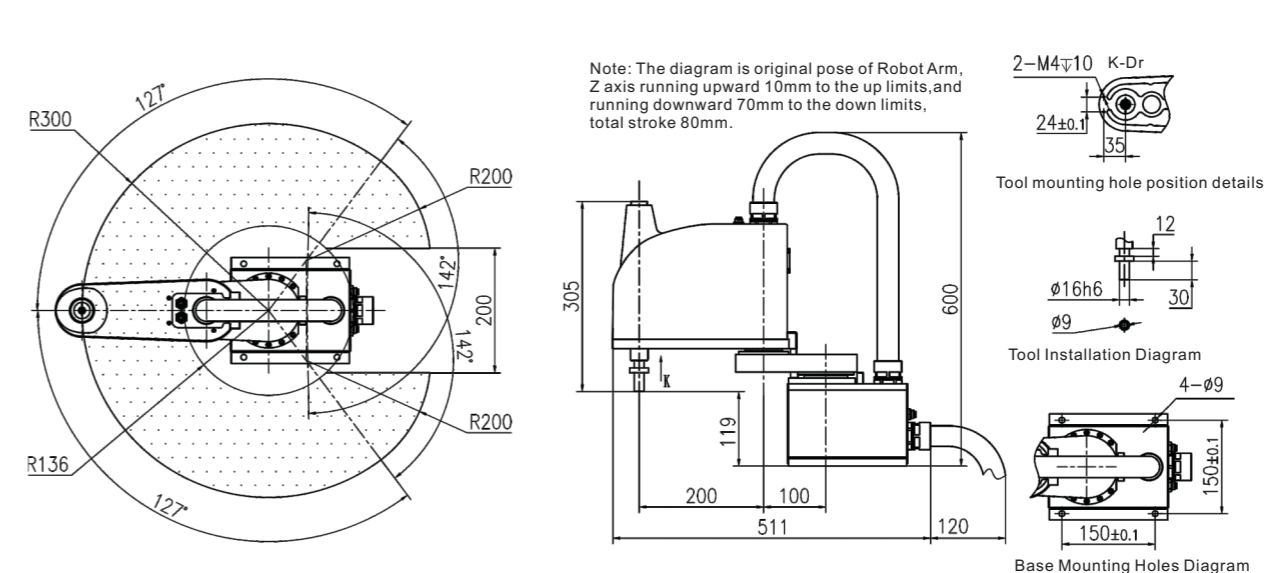
Standard cycle time (rated load) **0.45s**

Arm length (mm) **300**

Rated / max load **2kg/5kg**



Robot Movement Space, Shape and Installation Dimension (Unit: mm)



TR SERIES - three axis SCARA robot

TR4208

■ Specification Table

Species		SCARA	
Axis specification	X axis	Arm length	200mm
		Rotation range	±127°
	Y axis	Arm length	200mm
		Rotation range	±142°
Z axis	Route	75mm	
Highest speed	X axis		600°/s
	Y axis		375°/s
	X, Y-axis synthesis		5.5m/s
	Z axis		0.83m/s
Repeat positioning accuracy	X, Y-axis		±0.01mm
	Z axis		±0.01mm
User signal line		1. Software limit 2. Mechanical limit (X, Y, Z axis)	
Users pipe		0.2sq × 16 lines, 8 output, 6 input	
Limit protection		Φ6×2 root	
Weight		11.8kg	



Standard cycle time (rated load) **0.4s**

Arm length (mm) **400**

Rated / max load **2kg/5kg**



TR SERIES - three axis SCARA robot

TR5208

■ Specification Table

Species		SCARA	
Axis specification	X axis	Arm length	300mm
		Rotation range	±127°
	Y axis	Arm length	200mm
		Rotation range	±142°
Z axis	Route	75mm	
Highest speed	X axis		600°/s
	Y axis		375°/s
	X, Y-axis synthesis		6.5m/s
	Z axis		0.83m/s
Repeat positioning accuracy	X, Y-axis		±0.01mm
	Z axis		±0.01mm
User signal line		1. Software limit 2. Mechanical limit (X, Y, Z axis)	
Users pipe		0.2sq × 16 lines, 8 output, 6 input	
Limit protection		Φ6×2 root	
Weight		12.1kg	



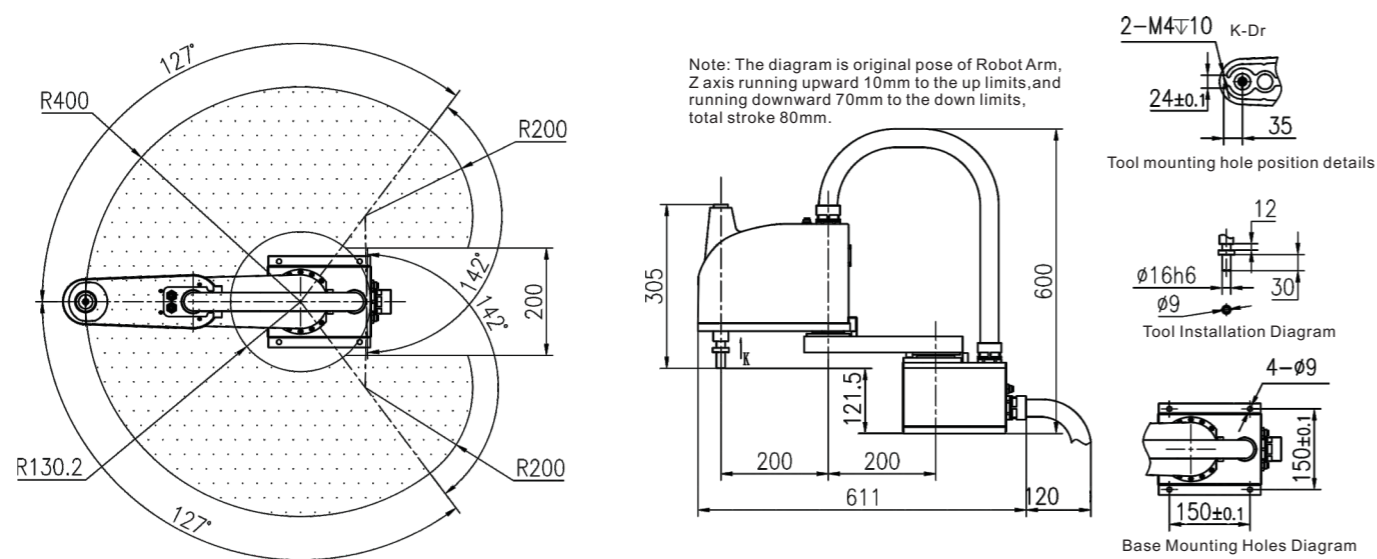
Standard cycle time (rated load) **0.45s**

Arm length (mm) **500**

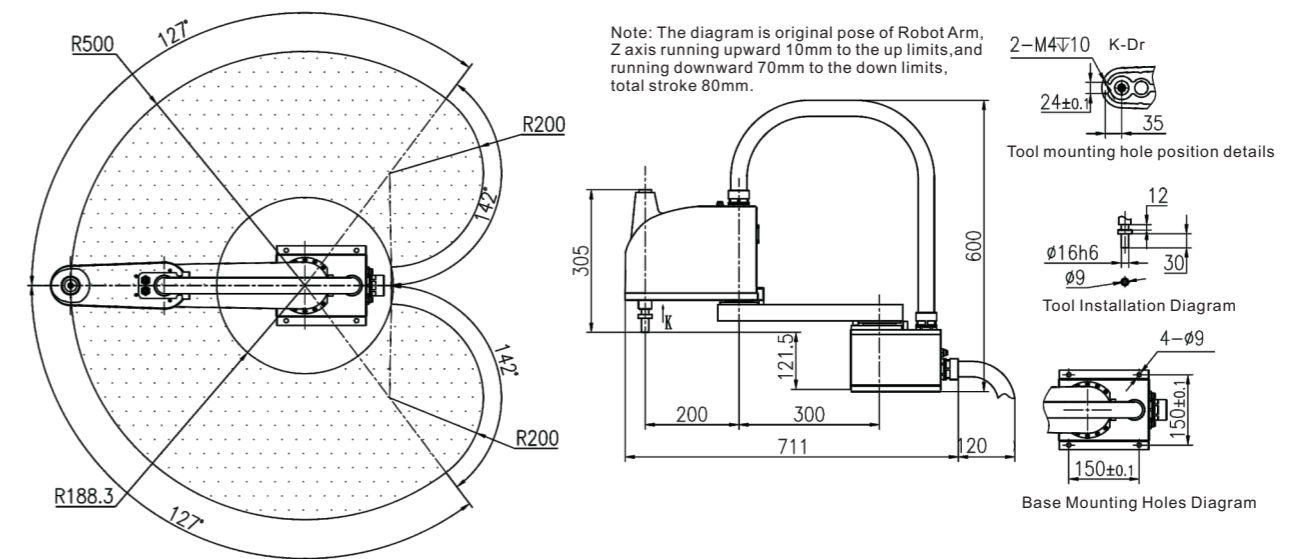
Rated / max load **2kg/5kg**



■ Robot Movement Space, Shape and Installation Dimension (Unit: mm)



■ Robot Movement Space, Shape and Installation Dimension (Unit: mm)



ROBOT APPLICATIONS



Assembling Computer



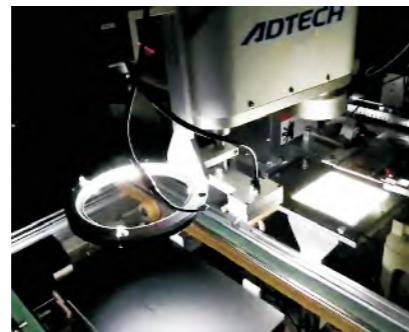
Auto Parts loading and unloading



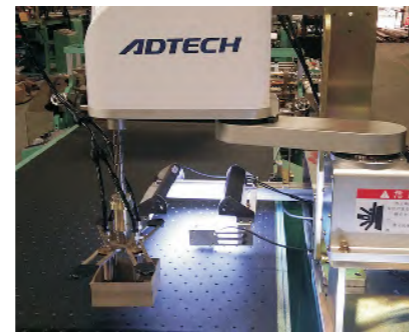
Pharmaceutical handling



Mobile phone parts loading and unloading



Punch Loading and unloading



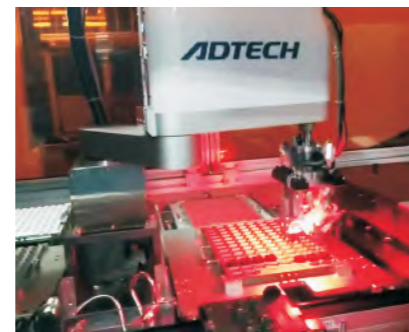
Box-grabbing and paper scraps-tracking



Injection molding machine loading and unloading



Visual sorting



Chip handling



PCB Board Detection



Circuit board Handling
Screw-Punching



Screwing

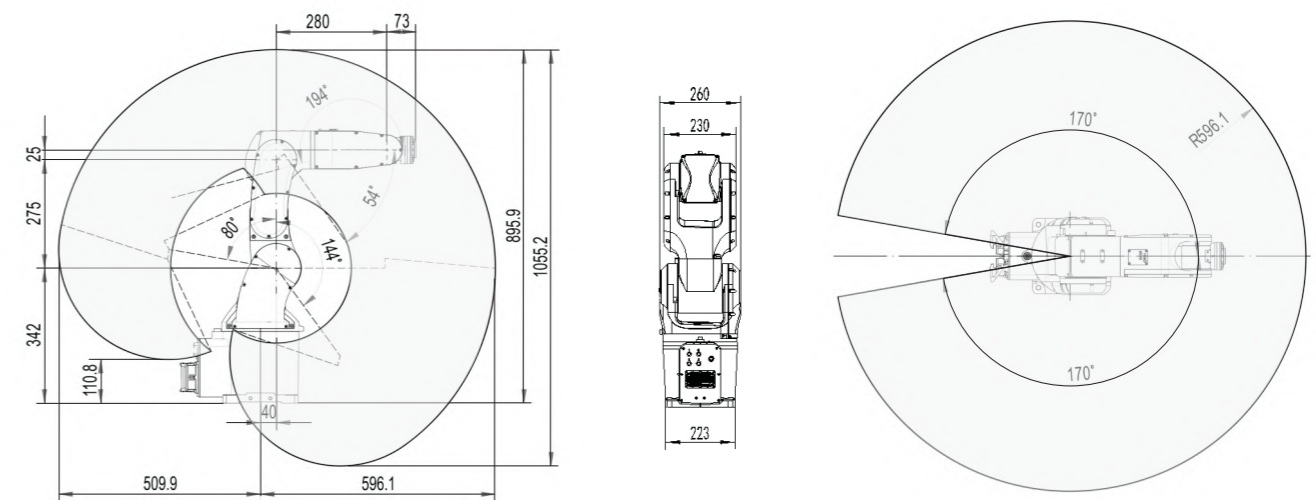
SD series six axis robot ADT-SD600

■ Specification Table

Species		Vertical multi-joint
Range of motion	J1	+170°/-170°
	J2	+144°/-80°
	J3	+54°/-194°
	J4	+170°/-170°
	J5	+119°/-119°
	J6	+360°/-360°
Maximum speed	J1	440°/s
	J2	355°/s
	J3	440°/s
	J4	490°/s
	J5	450°/s
	J6	720°/s
Working environment temperature		0~+40°C
Protection level		IP54
Noise level		≤70dB(A)
Installation		Loading, flip, side
Weight		32Kg



■ Robot Movement Space, Shape and Installation Dimension (Unit: mm)



SD series six axis robot ADT-SD700

■ Specification Table

Species		Vertical multi-joint
Range of motion	J1	+170°/-170°
	J2	+135°/-96°
	J3	+65°/-195°
	J4	+170°/-170°
	J5	+120°/-120°
	J6	+360°/-360°
Maximum speed	J1	440°/s
	J2	355°/s
	J3	440°/s
	J4	480°/s
	J5	450°/s
	J6	705°/s
Working environment temperature		0~+40°C
Protection level		IP54
Noise level		≤70dB(A)
Installation		Loading, flip, side
Weight		50Kg



Repeat positioning accuracy
±0.02

Arm length (mm)
707

Rated / max load
7kg



SD series six axis robot ADT-SD900

■ Specification Table

Species		Vertical multi-joint
Range of motion	J1	+170°/-170°
	J2	+135°/-96°
	J3	+65°/-195°
	J4	+170°/-170°
	J5	+120°/-120°
	J6	+360°/-360°
Maximum speed	J1	355°/s
	J2	355°/s
	J3	355°/s
	J4	480°/s
	J5	450°/s
	J6	705°/s
Working environment temperature		0~+40°C
Protection level		IP54
Noise level		≤70dB(A)
Installation		Loading, flip, side
Weight		52Kg



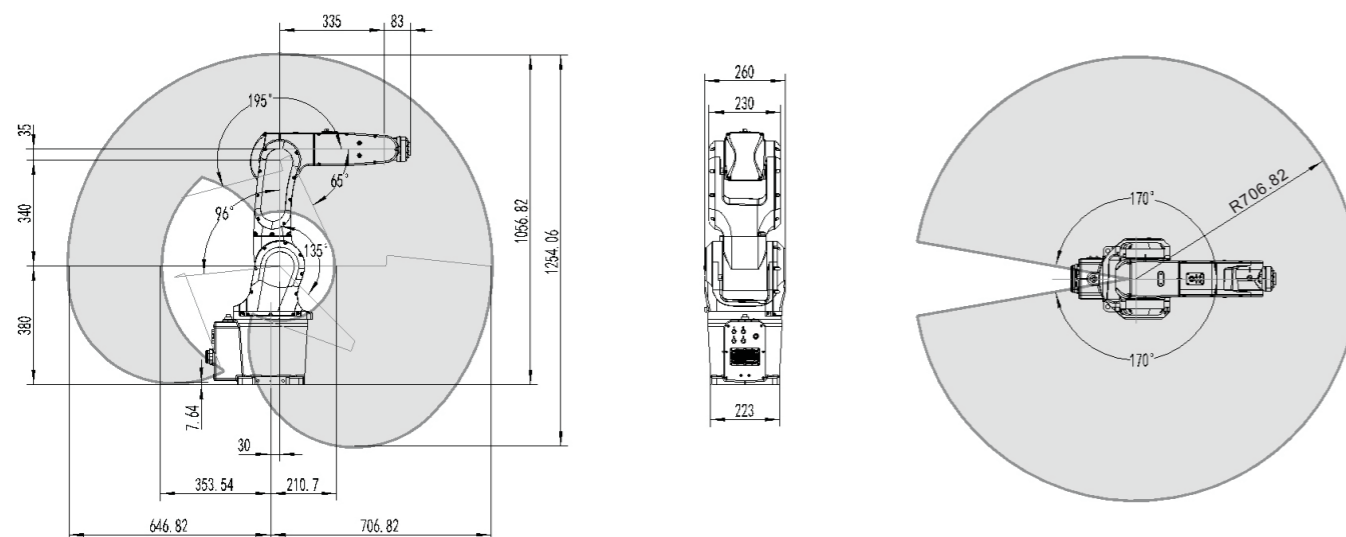
Repeat positioning accuracy
±0.03

Arm length (mm)
906

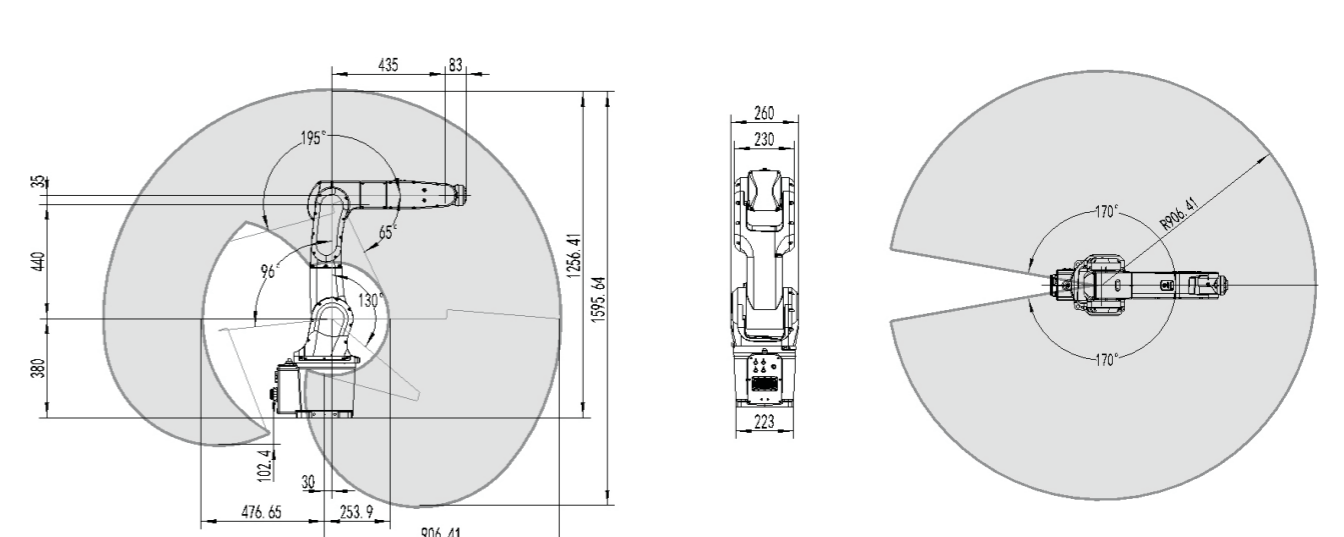
Rated / max load
7kg



■ Robot Movement Space, Shape and Installation Dimension (Unit: mm)



■ Robot Movement Space, Shape and Installation Dimension (Unit: mm)



SA1400 Welding Robot

SA 1400

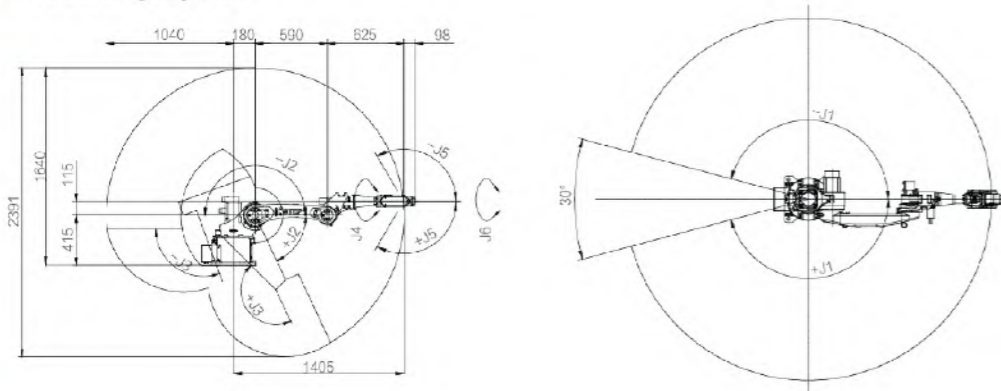
Product Introduction

SA Series robots are compact, small and lightweight, ideal for welding application due to its high stability. It can realize high welding-path accuracy, considerably reduce welding cycle-time, and extend the lifetime of tubes and cables. In addition, SA Series robots can fit in narrow working space and can be floor mounted, inverted or tilted in any angle.

Main Applications

- ▲ Arc welding
- ▲ Material handling
- ▲ Cutting
- ▲ Palletizing

Working Space



Technical Specifications

Model		SA 1400
Wrist Payload		6 kg
Max Working Radius		1405 mm
DOF		6
Max Speed	J1	150° /s
	J2	150° /s
	J3	160° /s
	J4	360° /s
	J5	320° /s
	J6	360° /s
Max Operation Area	J1	± 165°
	J2	+65° ~ -180°
	J3	+160° ~ -110°
	J4	± 170°
	J5	± 120°
	J6	+ 360°
The Max Moment Allowable Torque	J5	54 Nm
	J6	23 Nm
Weight		143 kg
Position Repeatability		± 0.05 mm
Working Temperature		0 ~ 45°C
IP Protection Level of Robot		IP40
IP Protection Level of Control Cabinet		IP30



6-axis robot control system



RX600 SERIES

- EtherCAT · POWERLINK bus-type
- Load range : 5-270 kg

Basic specifications

Electric	Stable input voltage : Three-phase 380VAC 50Hz or 220VAC 50Hz
	Power supply : 20KVA (max)
	Power frequency : 50Hz
Control	Ambient temperature : 0 - 40°C
	Environment humidity : 45 - 80% RH
	Number of axes : maximum expansion of 12
	Advanced multiprocessing control system
	Advanced Robot Editing Language
Safety	Portable, open, and extensible
	Pre-installed software, and supply a CD-ROM
	Emergency safety shutdown
Digital	Two - channel safety circuit with detection
	Three starter
Field-bus	Reserved external security interface
	24 VDC or Relay signal
	EtherCAT
	POWERLINK
	CANopen
	EtherNet/IP

Applications



Spot welding robot + Arc welding robot

Handling robot

Palletizing robot

Stamping and bending robot

AVS series vision position system

Product Introduction

Positioning fast and precision, the system stable and efficient, easy to operate



AVS2300

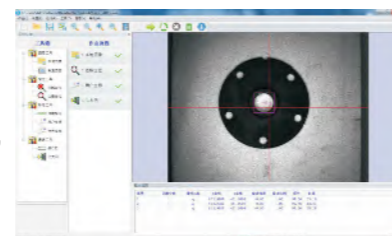
AVS3200

Function Introduction

- Support Gigabit Ethernet, USB and so on the many kinds of different cameras
- Support array CCD camera
- Short time of system positioning
- Support online or offline inspection
- Support RS232, Ethernet and so on many kind of communication interface
- Consistent with OPC standard

Software specification:

- Positioning algorithm can reach 1/64 pixel, output position, rotation Angle and scaling
- Support for multiple cameras collecting at the same time, and positioning
- Support for different resolutions, different camera interface
- Support import local images, emulates camera collecting function
- Provide tools for edge positioning and area positioning
- Edge positioning, can quickly positioning figure clear object, and can calculate any rotation Angle;
- Regional positioning, suitable for irregular shapes, low contrast object;
- Provide scale calibration, the calibration tool with mapping coordinates, can be converted into real physical pixel units, and to correct lens and perspective distortion.
- Drag and drop software operation, intuitive and efficient, to quickly build a set of visual positioning system.
- Supports Ethernet, serial communication mode for file reading and writing, you can quickly locate the results output to the external control of system or file system
- Support the new process, save, and read, and can save to local file, apply directly when loaded again without setting



Vision System Components:

Vision controller + Industrial Camera + Lens + Light source + Controller of light source + CCD Data cable + USB encryption dog

Product Configuration:

System Type	Name	Model	Description	Quantity
Single Camera System	Vision controller	AVS2300	Industrial PC + Smart card +Vision software	1
	Industrial camera	300 thousand, 2 million, 5 million pixel can be selected, refer 《Vision system selection table》		1
	Lens	Refer 《Lens selection table》		1
	Light source	Refer 《Light source selection table》		1
	Controller of light source	Refer 《Controller of light source selection table》		1
	CCD Data Cable	3M,5M,7M can be selected, refer 《Vision system selection table》		1
	Encryption dog	USB Encryption dog, Blue Label of Laser printing.		1
Double Camera System	Vision controller	AVS3200	Industrial PC + Smart card +Vision software	1
	Industrial camera	300 thousand, 2 million, 5 million pixel can be selected, refer 《Vision system selection table》		2
	Lens	Refer 《Lens selection table》		2
	Light source	Refer 《Light source selection table》		2
	Controller of light source	Refer 《Controller of light source selection table》		1
	CCD Data Cable	3M,5M,7M can be selected, refer 《Vision system selection table》		2
	Encryption dog	USB Encryption dog, Blue Label of Laser printing.		1

Applications:



Robot industrial of pick and place and palletizing



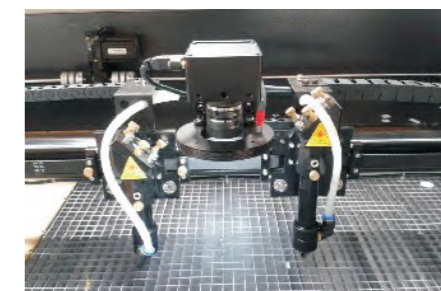
PCBA electronic Industrial



LED Industrial



Dispensing Industrial



Cutting Industrial