

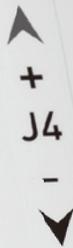


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MULTI-AXIS ROBOT



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About HIWIN

Articulated Robot

RA605-GB RA605-GC



RA605-710-GB

RA605-710-GC



Features

A compact sized articulated robot with arm length and payload similar to a human arm. Its flexible design and small footprint makes it perfect in applications like assembly lines. It can also be used in inverted applications to save space.

Application

Assembly, dispensing, visual inspection, small components loading and unloading, inverted application.

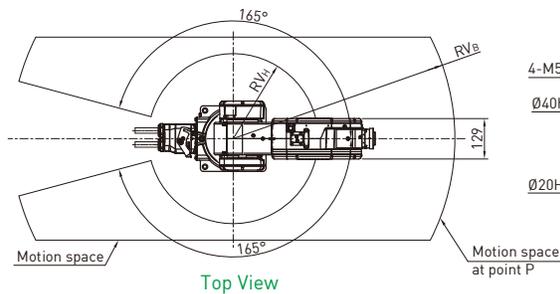
Model	RA605-GB		RA605-GC	
Degrees of freedom	6			
Rated payload[kg]	5			
Maximum payload[kg]	7			
Max. reach radius[mm]	710	909	710	909
Working range [deg]	J1	±165		
	J2	+85~-125		
	J3	+185~-55		
	J4	±190		
	J5	±115		
	J6	±360		
Repeatability[mm]	±0.02	±0.03	±0.02	±0.03
Cycle time[s]*Note 1	0.5			
Weight[kg]	40	45	40	45
Protection rating	IP32		IP65	
Controller	RCA605-GB		RCA605-GC	
Pneumatics	Three pneumatic solenoid valves connections		Two channel pneumatic connections	
Safety/Environmental standard	-		CE/RoHS2.0	

* Note 1: Based on a back-and-forth movement over a vertical distance of 25mm and a horizontal distance of 300mm.

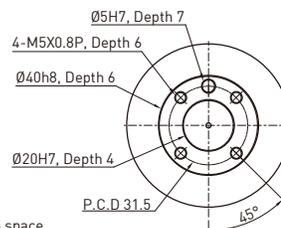
Dimensions

Model / Dimensions	V _A	V _B	V _C	V _D	V _E	V _F	V _G	V _H	V _I	V _J	V _K
RA605-710-GB	650	710	1215	1055	272	67	338	R242	R340	R429	340
RA605-710-GC											
RA605-909-GB	848.1	909.8	1571	1254.8	332	24.7	438	R302.5	R439.8	R564.3	440
RA605-909-GC											

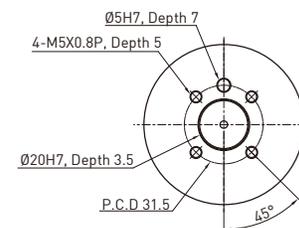
Unit:mm



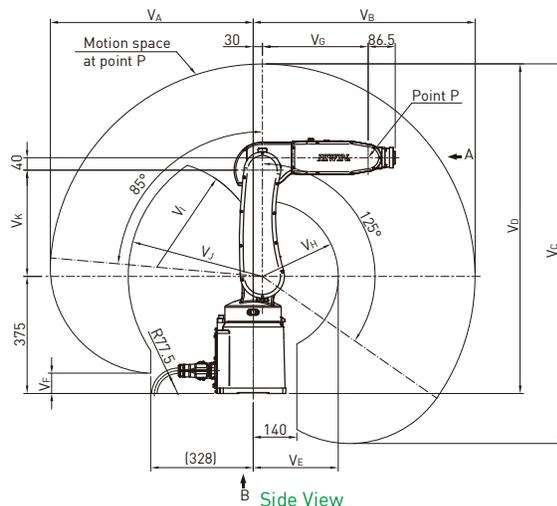
Top View



VIEW A
Mounting Flange Detail
(RA605-GC Series)



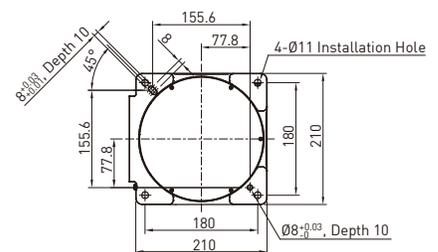
VIEW A
Mounting Flange Detail
(RA605-GB Series)



Side View



Front View



VIEW B
Installation Interface Detail

Articulated Robot

RA610-GC



Dimensions

Features

Slender and agile articulated robot with six degrees-of-freedom, it can meet customers' optimal load and work range requirements. The design is well-suited for machine tending applications. It can also be integrated with a vision system for material inspection.

Application

Packaging, deburring, dispensing, visual inspection, machine tending.

Model	RA610-GC				
Degrees of freedom	6				
Rated payload[kg]	30	12	10	10	7
Maximum payload[kg]	32	14	12	12	9
Max. reach radius[mm]	1151	1355	1476	1672	1869
Working range [deg]	J1	±170			
	J2	+85~-150	+95~-150		
	J3	+90~-80	+185~-85		
	J4	±190			
	J5	±130	±135		
	J6	±360			
Repeatability[mm]	±0.06	±0.05	±0.06		
Cycle time[s]*Note 1	1				
Weight[kg]	136	143	147	150	152
Protection rating	IP54(Wrist:IP65)				
Controller	RCA610-GC				
Pneumatics	Three pneumatic solenoid valves connections		Two channel pneumatic connections		
Safety/Environmental standard	CE/RoHS2.0				

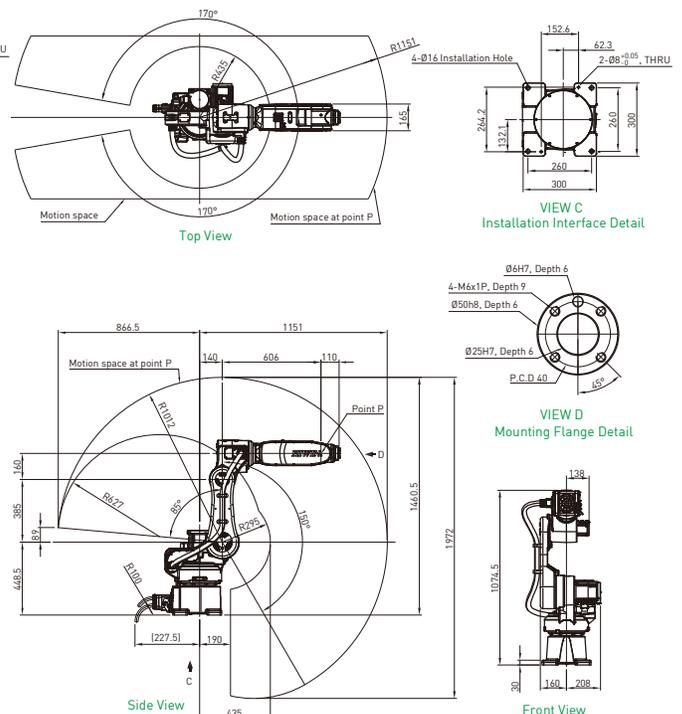
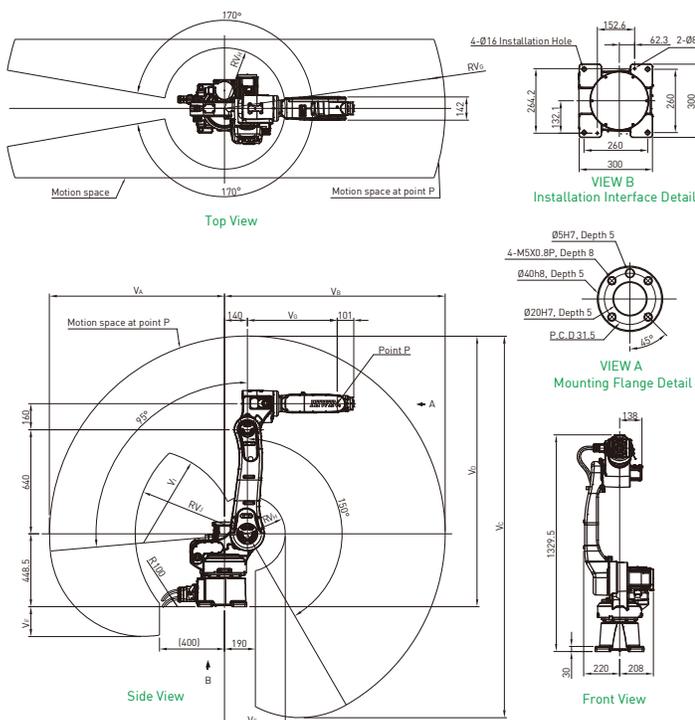
* Note 1: Based on a back-and-forth movement over a vertical distance of 25mm and a horizontal distance of 300mm.

Model / Dimensions	V _A	V _B	V _C	V _D	V _E	V _F	V _G	V _H	V _I	V _J
RA610-1355-GC	1075	1355	2343	1663	372.5	182	552	R232.5	R575	R688
RA610-1476-GC	1196	1476	2587	1785	368	304	678	R228	R697	R784
RA610-1672-GC	1392	1672	2979	1981	463	500	878	R323	R892	R951
RA610-1869-GC	1589	1869	3374	2178	630	697	1078	R490	R1089	R1129

Unit:mm

RA610-GC

RA610-1151-GC



SCARA Robot

RS405 RS410



RS405 Standard

RS410 Protection



Features

High precision and high flexibility SCARA robot is widely used in various automation field. It can be easily integrated with peripheral control units and combined with linear modules, vision systems, end effectors etc. In addition to stand alone operations, it can also be used in a system workstations, and can easily adapt to changes in the production line to enhance quality and efficiency.

Application

Material handling, arranging, packaging, assembly, dispensing, component insertion, inspection.

Model	RS405-LU		RS410-LU		
Degrees of freedom	4				
Rated/Max. payload [kg]	2/5		5/10		
Max. working radius [mm]	400	500	600	700	800
Working range	J1[deg]		±130		
	J2[deg]		±130	±150	
	J3[mm]		200/400		
	J4[deg]		±360		
Cycle time[s]*Note 1	0.42		0.52		
	J1+J2[mm]		±0.01 ±0.02	±0.02	±0.02
Repeatability	J3[mm]		±0.01		
	J4[deg]		±0.01		
	Pneumatic joint [mm]		Ø6x2, Ø4x1		
Weight[kg]	22 23		30 31 32		
	Protection rating		IP20/★IP40		
Controller		RC4-A			
Safety/Environmental standard		CE/RoHS2.0			
Environment		Standard			

★ Optional * Note 1: Based on a back-and-forth movement over a vertical distance of 25mm and a horizontal distance of 100mm.

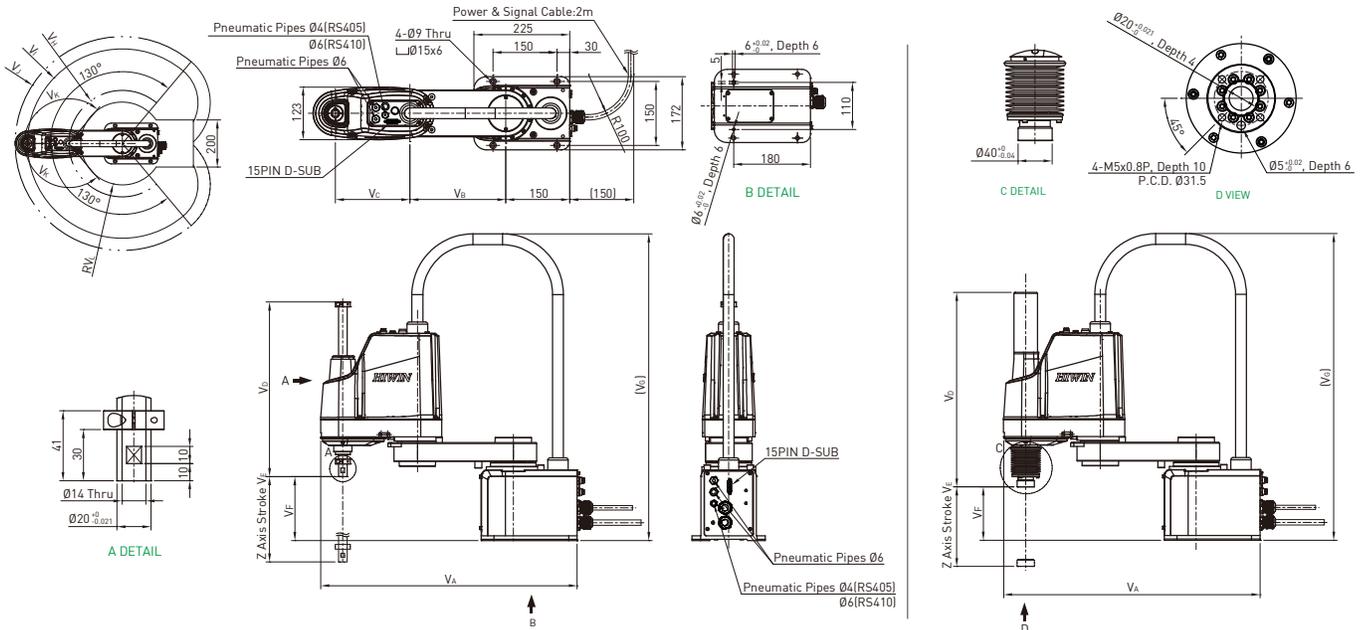
Dimensions

Model / Dimensions	V _A	V _B	V _C	V _D	V _E	V _F	V _G	V _H	V _I	V _J	V _K	V _L
RS405-400-200(20P)-LU	602	225	175	410(456.5)	200	150(125)	720	R225	R400	R452	130°	R175.1
RS405-400-400(40P)-LU				610(655)	400							R251.3
RS405-500-200(20P)-LU	702	325	175	410(456.5)	200	148(123)	720	R325	R500	R552	130°	R251.3
RS405-500-400(40P)-LU				610(655)	400							R251.3
RS410-600-200(20P)-LU	816	325	275	410(461)	200	167(142)	780	R325	R600	R666	150°	R162.7
RS410-600-400(40P)-LU				610(661)	400							R232
RS410-700-200(20P)-LU	916	425	275	410(459)	200	167(142)	780	R425	R700	R766	150°	R232
RS410-700-400(40P)-LU				610(659)	400							R318.1
RS410-800-200(20P)-LU	1016	525	275	410(459)	200	167(142)	780	R525	R800	R866	150°	R318.1
RS410-800-400(40P)-LU				610(659)	400							R318.1

Unit:mm

Standard

Protection



Controller Series



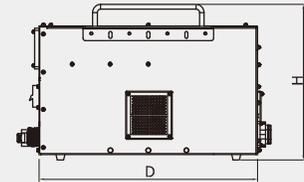
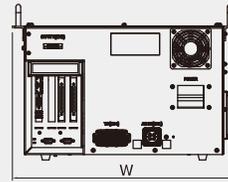
RCA605-GC / RCA610-GC



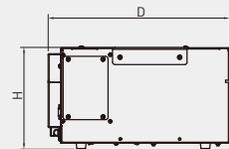
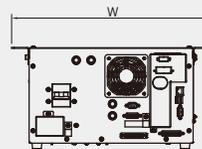
RCA605-GB



RC4-A



RCA605-GC / RCA610-GC / RCA605-GB



RC4-A

Specifications

Model	RCA605-GC	RCA610-GC	RCA605-GB	RC4-A	
Control number of axes	6	6	6	4	
Weight[kg]	29	34	29	14	
Power	Input voltage / frequency	1Ø200-240V 50/60Hz	1Ø200-240V 50/60Hz	1Ø200-240V 50/60Hz	
	Max. current(A)	8A	18A	8A	14A
Input/Output *Note 2	Function I/O	8 in/8 out	8 in/8 out	8 in/8 out	8 in/8 out
	Digital I/O	24 in/24 out	24 in/24 out	24 in/24 out	16 in/8 out
Communication interface	RS232	✓	✓	✓	✓
	RS485 (Modbus-RTU)	✓	✓	-	✓
	Ethernet	✓	✓	✓	✓
	★ Fieldbus	CC-Link, PROFINET	CC-Link, PROFINET	CC-Link, PROFINET	CC-Link, ProfiNet or EtherNet IP (2 choose 1)
	USB	✓	✓	✓	✓
Teaching method	Teach pendant/HRSDK	Teach pendant/HRSDK	Teach pendant/HRSDK	★Teach pendant /Remote/HRSDK	
Ambient temperature [°C]	0~45	0~45	0~45	5~45	
Ambient humidity [%]	20~75 (Non-condensing)	20~75 (Non-condensing)	20~75 (Non-condensing)	20~75 (Non-condensing)	
Protection rating	IP23	IP23	IP20	IP23	
Dimensions(WxHxD)(mm)*Note 3	470 x 328 x 460	470 x 328 x 554	470 x 328 x 460	400 x 205 x 387	
Safety/Environmental standard	CE/RoHS2.0	CE/RoHS2.0	-	CE/RoHS2.0	

★ Optional

* Note 1: If the regional power source is 3Ø 380V, an additional transformer(3Ø 380V to 220V, 2KVA) should be applied.

Note 2: I/O can be expanded.

Note 3: Dimensions needed for cable installation is not included in the drawing.



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