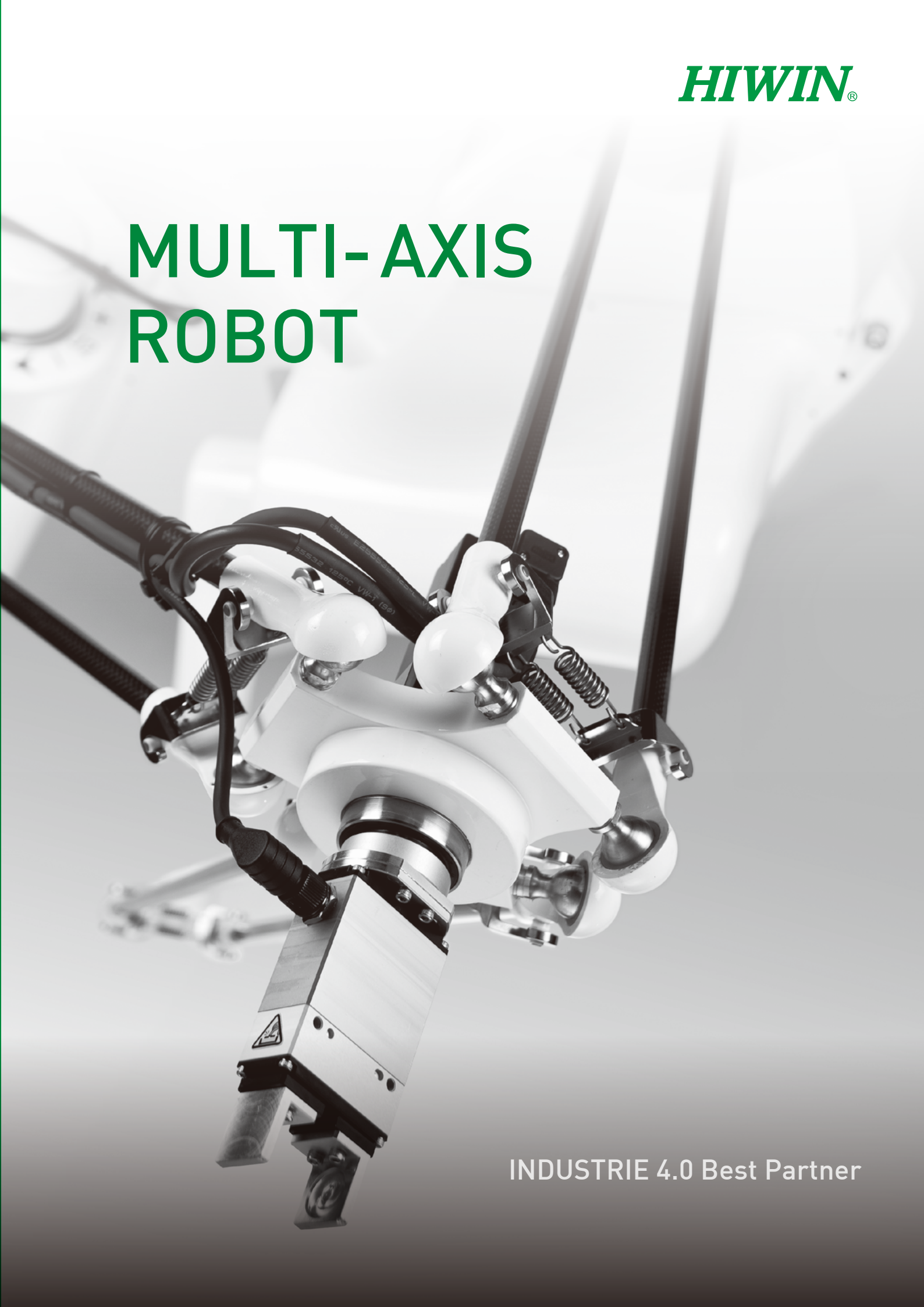


HIWIN®

MULTI-AXIS ROBOT



INDUSTRIE 4.0 Best Partner

Articulated Robot

RA 605

RT 605



RT605

RA605

Dimensions

Features

- Possessing high degree of freedom and flexibility, this light weight, articulated robot can automate highly complex manual tasks in unfriendly and unsafe work environments.

Application

- Loading/unloading, packaging, aligning, assembly, deburring, polishing, dispensing, stacking and inspection.

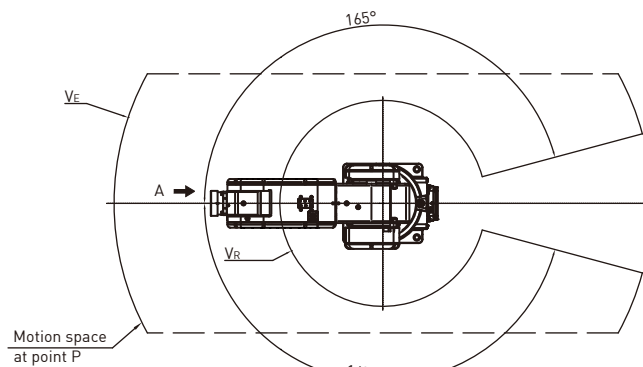
Model		RA605-GB	RT605-GB	
Degrees of freedom		6		
Rated payload [kg]		5		
Max. reach radius [mm]		710	710	909
Working range [°]	J1	± 165		
	J2	+85 ~ -125		
	J3	+185 ~ -55		
	J4	± 190		
	J5	± 115		
	J6	± 360		
Repeatability [mm]		± 0.02	± 0.03	± 0.04
Cycle time [s]*Note 1		0.5		
Weight [kg]		40	40	45
Protection rating		IP65	IP32	
Controller		RCA605-GB	RCT605-GB	
Tool pneumatic pipes *Note 2		Three channels of tracheal connection	Two channels of tracheal connection	

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

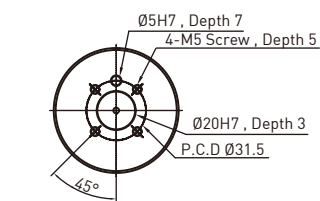
Note 2: Apply with M5 thread Ø4 tracheal caliber connector.

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	V _M	V _N	V _O	V _P	V _Q	V _R	V _S
RA605-710-GB RT605-710-GB	710	649	281	434	309	269	R340	160	1055	R680	211	R429.3	101.7°	67	138.3°	R242	338	R272	812
RT605-909-GB	909.8	848.1	363.3	451.7	408.3	368.5	R439.8	317.2	1254.8	R879.8	292.9	R564.3	100.2°	24.7	139.8°	R302.5	438	R332.5	911.75

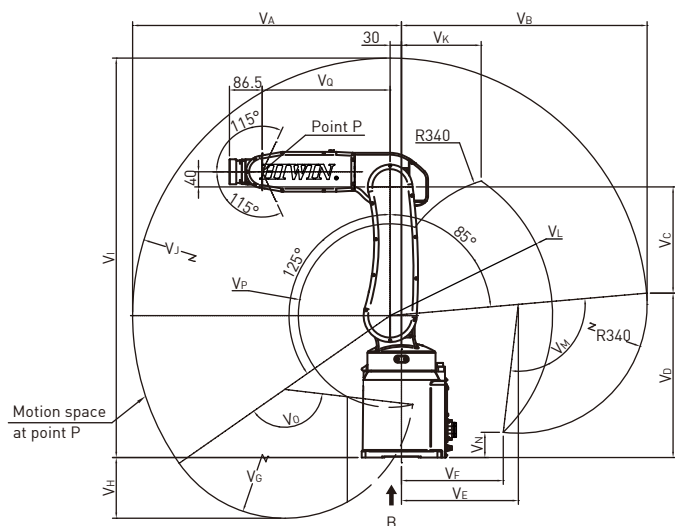
Unit:mm



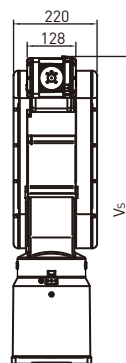
Top View



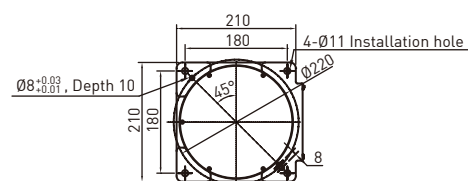
VIEW A
Mechanical Interface Detail



Side View



Front View



VIEW B
Installation Dimension Detail

Articulated Robot

RA 610

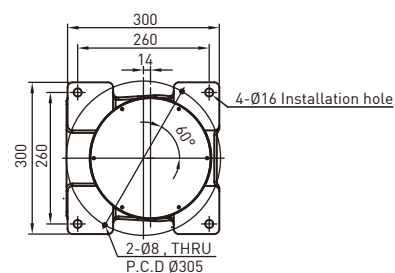
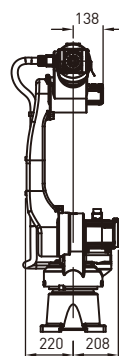
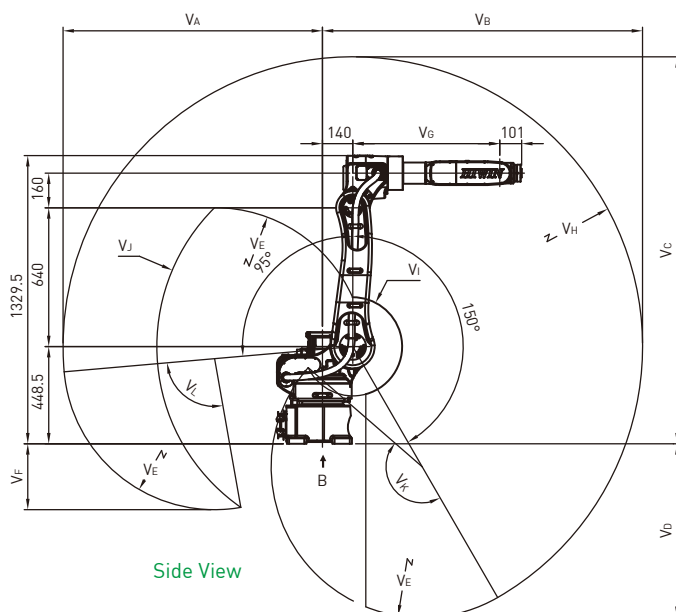
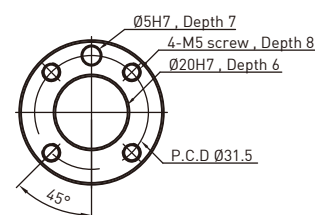
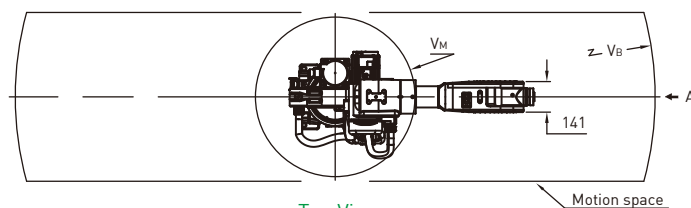
RT 610



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	V _M
RA610-1355-GB RT610-1355-GB	1075	1355	1663	680	R575	182	552	R1215	R232.5	R688	159°	111.2°	R372.5
RA610-1476-GB RT610-1476-GB	1196	1476	1785	802	R697	304	678	R1336	R228	R904	161°	95°	R368
RA610-1672-GB RT610-1672-GB	1392	1672	1981	998	R892	500	878	R1532	R323	R951	164.7°	105.3°	R463
RA610-1869-GB RT610-1869-GB	1589	1869	2178	1196	R1089	697	1078	R1729	R490	R1129	166.6°	103.4°	R630

Unit:mm



Features

- Possessing high degree of freedom and high load capacity with multiple reach radius and end effector options for integration into a variety of automation applications.

Application

- Loading/unloading, palletizing, assembly, polishing, dispensing, packaging, aligning and inspection.

Model		RA610-GB				RT610-GB			
Degrees of freedom		6							
Rated payload [kg]		12	10	10	7	12	10	10	7
Max. reach radius [mm]		1355	1476	1672	1869	1355	1476	1672	1869
Working range [°]	J1	± 170							
	J2	+95 ~ -150							
	J3	+185 ~ -85							
	J4	± 190							
	J5	± 135							
	J6	± 360							
Repeatability [mm]		± 0.05		± 0.06		± 0.05		± 0.06	
Cycle time [s]*Note 1		1							
Weight [kg]		143	147	150	152	143	147	150	152
Protection rating		IP54(Wrist:IP65)				IP32			
Controller		RCA610-GB				RCT610-GB			
Tool pneumatic pipes *Note 2		Two solenoid valves of tracheal connection				Two channels of tracheal connection			

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

Note 2: The pipes are applied with M5 thread Ø4 tracheal caliber connector.

Articulated Robot

RA 620



RA620-1739

Features

- Possessing high degree of freedom and high load capacity with multiple reach radius and end effector options for integration into a variety of automation applications.

Application

- Loading/unloading, palletizing, assembly and polishing.

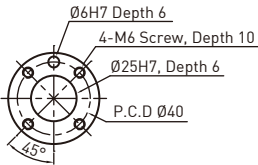
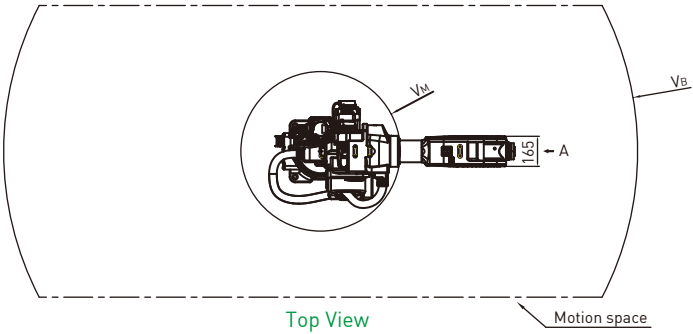
Degrees of freedom		6	
Rated payload [kg]		30	20
Max. reach radius [mm]		1621	1739
Working range [°]	J1	± 180	
	J2	+100 ~ - 135	
	J3	+190 ~ -80	
	J4	± 200	
	J5	± 130	
	J6	± 360	
Repeatability [mm]		± 0.06	
Cycle time [s]*Note 1		0.9	
Weight [kg]		226	230
Protection rating		IP54(Wrist:IP65)	
Controller		RCA620	

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

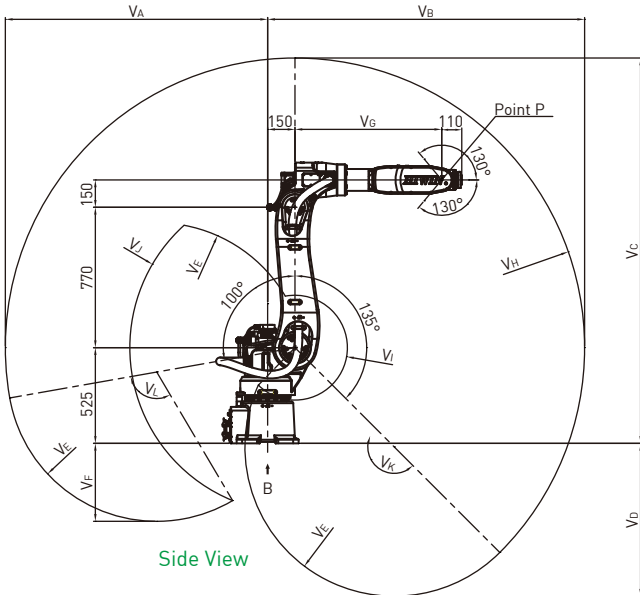
Dimensions

Model / Dimensions	V _A	V _B	V _C	V _D	V _E	V _F	V _G	V _H	V _I	V _J	V _K	V _L	V _M
RA620-1621	1321	1621	1996	721	R701	310	685	R1471	R293	R821	158°	112°	R443
RA620-1739	1439	1739	2114	838	R819	428	805	R1589	R288	R906	159°	111°	R438

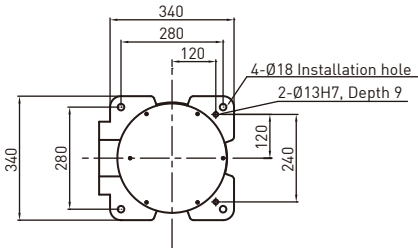
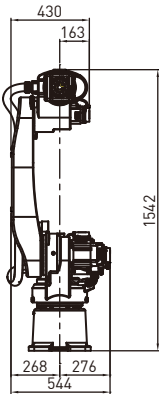
Unit:mm



VIEW A
Mechanical Interface Detail



Side View



VIEW B
Installation Dimension Detail

Delta Robot

RD 403

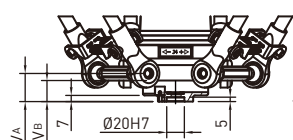
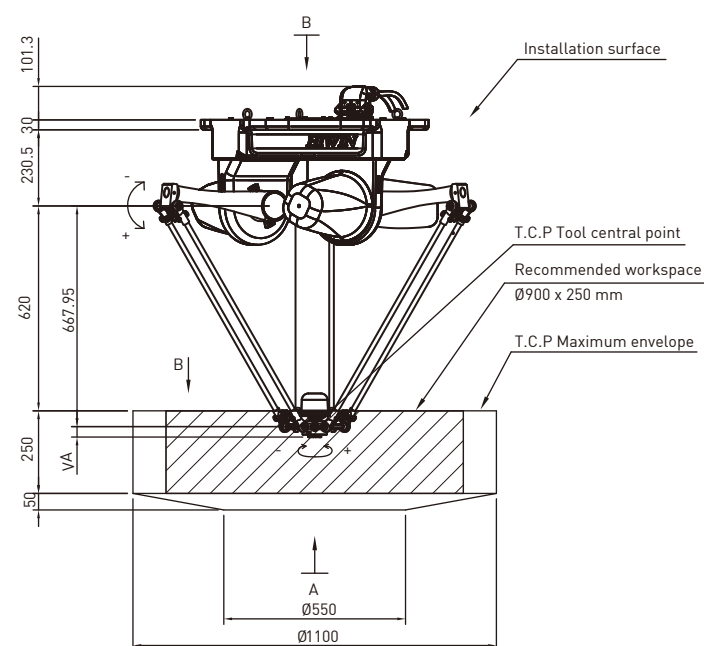


RD403-1100-PR-GB

Dimensions

Model / Dimensions	V _A	V _B
RD403-1100-GB RD403-1100-FS	31.9	23.9
RD403-1100-PR-GB	39.5	31.5

Unit:mm



VIEW A

Features

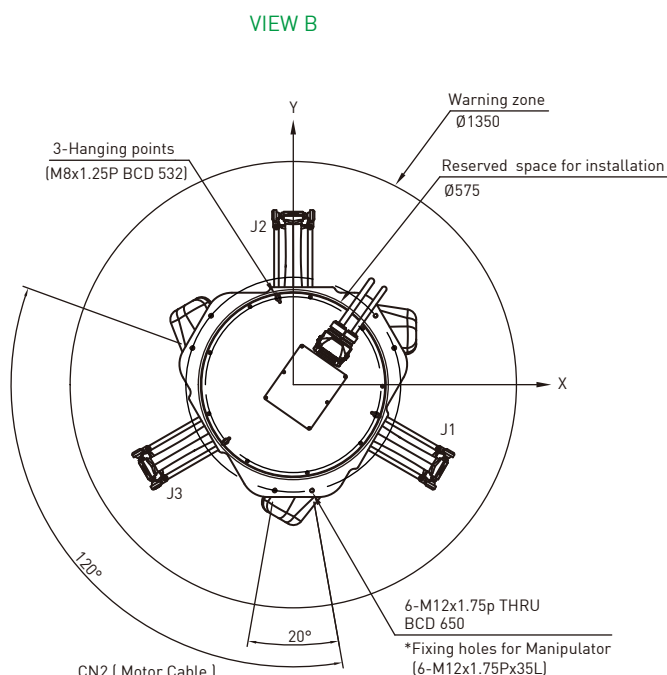
- By utilizing a parallel linkage mechanism, the RD403 can execute high speed motion in a larger work area, with motion stability, short cycle times, high accuracy, high load capacity.
- Integrated with conveyor tracking and a vision positioning system, the RD403 achieves efficient, high-speed, in-line sorting, picking and placing.
- With IP65 certification, the RD403 can be used for automation applications in industries that have requirements for health and safety compliance.
- The RD403-1100-FS design complies with EN1672-2 requirements for food safety and can be used in food industry automation.

Application

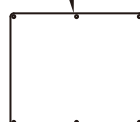
- Packaging, arranging, assembly, picking, stacking and inspection.

Model	RD403-1100-GB	RD403-1100-FS	RD403-1100-PR-GB
Degrees of freedom		4	
Rated payload [kg]		3	
Max working diameter [mm]		1100	
Max working height [mm]		300	
Repeatability [mm]		± 0.1	
Cycle time [s]*Note 1		0.3	
Weight [kg]		95	
Protection rating		IP65	
Controller		RCD403-GB	
Food processing machinery	-	EN1672-2	-

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



Battery retainer



CN2 (Motor Cable)



*Fixing holes for Manipulator (6-M12x1.75Px35L)

SCARA Robot

RS Series



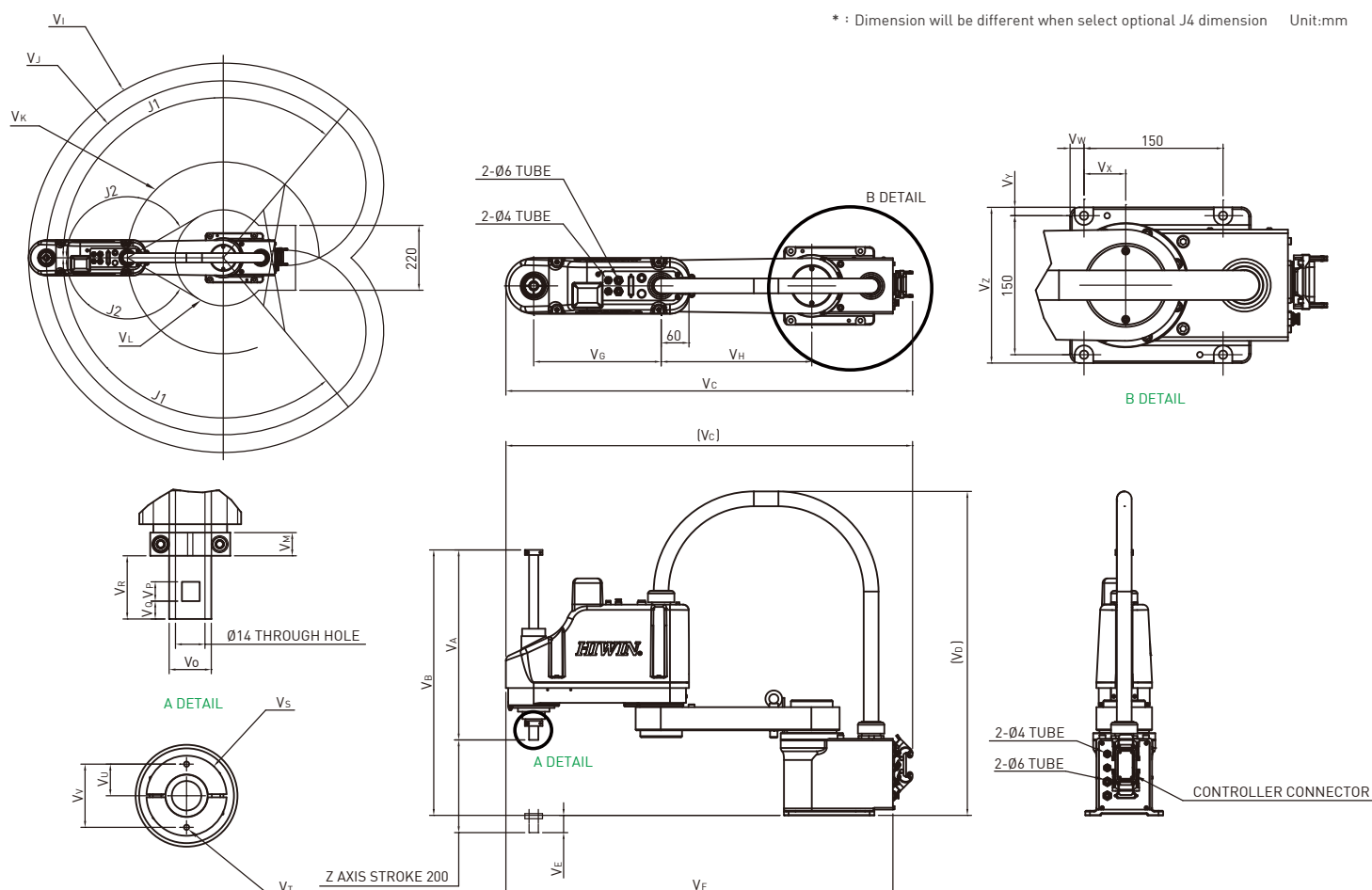
RS406

RS403

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	V _M	V _N	V _O	V _P	V _Q	V _R	V _S	V _T	V _U	V _V	V _W	V _X	V _Y	V _Z
RS403	330	494	649.1	677.3	-15.2	606	175	225	R457	R400	R225	R176.5	10	Ø11	Ø16	10	10	30	R17.5	2-M4X0.7P	12	24	45	30	11	172
RS406	410	572.8	878.4	720.8	37.2	835	275	325	R660	R600	R325	R162.6	11	Ø14	Ø20	-	-	30	R19	2-M3X0.5P	15	30	15	45	9	168

* : Dimension will be different when select optional J4 dimension Unit:mm



Features

- Possessing high precision and flexibility, a rotary axis can be added to the joint-end to increase the degree of freedom. Different end-effectors can be incorporated to achieve high precision assembly or rapid planar machining.

Application

- Loading/unloading, packaging, arranging, assembly, dispensing, stacking and inspection.

Model	RS403	RS406
Degrees of freedom	4	
Rated/Max. payload [kg]	1/3	2/6
Max. working radius [mm]	400	600
Working range	J1[°]	± 128
	J2[°]	± 130
	J3[°]	± 360
	J4[mm]	150
Repeatability	J1-J2[mm]	± 0.01
	J3[°]	± 0.01
	J4[mm]	± 0.01
Cycle time [s]*Note 2	0.42	0.45
Weight [kg]	16	22
Protection rating	IP20	
Controller	HRC-S410	

* Note 1: 300mm and 400mm length of J4-axis is optional.

Note 2: Based on a back-and-forth movement over a vertical distance of 25mm and a horizontal distance of 300mm.

Controller Series

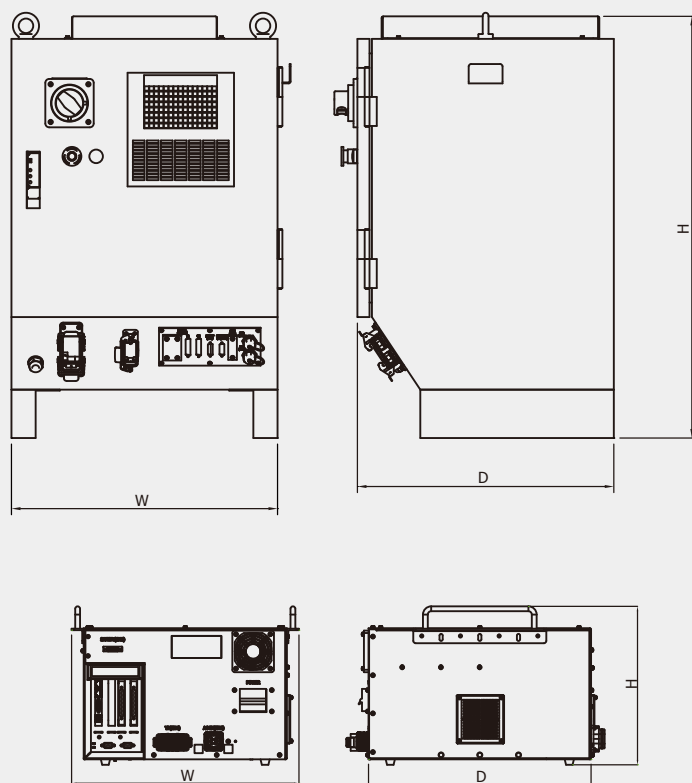


RCA620



RCA605-GB

Dimension



Specifications

Model		RCA605-GB, RCT605-GB	RCA610-GB, RCT610-GB	RCA620	RCD403-GB	HRC-S410
Control number of Axes		6	6	6	4	4
Weight [kg]		34	43	80	34	35
Power	Input voltage / frequency	1Ø200~240V 50/60Hz	1Ø200~240V 50/60Hz	3Ø200~240V *Note 1 50/60Hz	3Ø200~240V *Note 2 50/60Hz	1Ø220~240V 50/60Hz
	Max. current[A]	8A	18A	22A	4.5A	10A
◆ Input/Output *Note 3	Function I/O	8in/8out	8in/8out	8in/8out	8in/8out	11in/11out
	Digital I/O	24in/24out	24in/24out	16in/16out	24in/24out	-
◆ Communication Interface	RS232	✓	✓	-	✓	-
	Ethernet	✓	✓	✓	✓	✓
	Modbus	-	-	-	-	✓
	USB	✓	✓	✓	✓	✓
★ Encoder Capture		★	★	★	◆ 4ch	★
Ambient temperature [°C]		0~45	0~45	0~40	0~45	0~40
Ambient humidity [%]		20~75 (Non-condensing)	20~75 (Non-condensing)	45~85 (Non-condensing)	20~75 (Non-condensing)	20~80 (Non-condensing)
Protection rating		IP20	IP20	IP54	IP20	IP20
Dimensions [D x W x H]*Note 4		460 x 420 x 271	554 x 420 x 271	530 x 550 x 872	460 x 420 x 271	459 x 460 x 284

◆ Standard

★ Optional

Unit:mm

* Note 1: If the regional power source is 3Ø 380V, an additional transformer(3Ø 380V to 220V, 5KVA) should be applied.

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

Note 3: I/O can be expanded, but RCD403-GB is not included.

Note 4: Dimensions needed for cable installation is not included in the drawing.

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