

			RH-3FRH5515-D/ RH-3FRH5515-R	RH-6FRH5520-N-D/ RH-6FRH5520-N-R	RH-12FRH8535-N-D/ RH-12FRH8535-N-R	RH-20FRH10035-N-D/ RH-20FRH10035-N-R	
Degrees of freedom (no. of axes)			4	4	4	4	
Installation posture			Floor mounting				
Structure			Horizontal multiple-joint type				
Drive system			AC servo				
Position detection method			Absolute encoder				
Brake attachment			Axes J1, J2, J4: no brake; axis J3: with brake				
Payload capacity	rated	kg	1	3	3	5	
	maximum		3	6	12	20	
Maximum reach	arm 1 + arm 2 mm		550	550	850	1000	
Operating range	J1	degree	340 (±170)				
	J2	degree	290 (±145)		306 (±153)		
	J3 (Z)	mm	150	200	350	350	
	J4 (Θ axis)	degree	720 (±360)				
Maximum speed	J1	degree/s	400	400	280	280	
	J2	degree/s	720	670	450	450	
	J3 (Z)	mm/s	1100	2400	2800	2400	
	J4 (Θ axis)	degree/s	3000	2500	2400	1700	
Maximum composite speed		mm/s	8300	8300	11350	13283	
Cycle time (25x300x25 mm with max. 2 kg load)			sec	0.51	0.29	0.30	0.36
Allowable wrist moment of inertia	rated	kgm ²	0.005	0.01	0.025	0.065	
	maximum		0.06	0.12	0.3	1.05	
Position repeatability	X, Y direction	mm	±0.012	±0.012	±0.015	±0.015	
	J3 (Z direction)	mm	±0.010				
	J4 (Θ axis)	degree	±0.004		±0.005		
Ambient temperature		°C	0–40				
Weight		kg	32	37	69	77	
Tool wiring			Input 8 points/output 8 points (total 20 scores)				
Tool pneumatic pipes			Primary: Ø 6x2, secondary: Ø 4x8				
Supply pneumatic pressure			MPa 5 ±10 % for the pneumatic gripper				
Protection rating			IP20	IP54 (IP65 with additional bellow, optional clean room model available)			
Robot controller			CR800-D/CR800-R + R16RTCPU				
Order information			Art. no.	312930 / 313651	312985 / 313668	312991 / 313672	312995 / 313676