

Characteristics/Functions			RH-3FH5515-D1-S15 RH-3FH5515-Q1-S15	RH-6FH5520-D1-S15 RH-6FH5520-Q1-S15	RH-12FH8535N-D1-S15 RH-12FH8535N-Q1-S15	RH-20FH10035N-D1-S15 RH-20FH10035N-Q1-S15	
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 2mm		550	550	850	1000	
Operating range	J1	degree	340 (±170)				
	J2	degree	290 (±145)		306 (±153)		
	J3 (Z)	mm	150	200	350	350	
	J4 (⊙ 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 (⊙ 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 (⊙ 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: ∅ 6x2, secondary: ∅ 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			CR750-D/CR750-Q + Q172DRCPU				
Order information			Art. no.	250377/ 250380	250383/ 250389	254377/ 254383	254388/ 254392