

Characteristics/Functions			RH-1FHR5515-D1-S60	RH-1FHR5515-Q1-S60
Degrees of freedom (no. of axes)			4	4
Installation posture			On floor, ceiling mounting, wall mounting	
Structure			Horizontal articulated arm (SCARA)	
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	
	maximum		3	
Maximum reach		mm	550	
Operating range	J1	degree	±177	
	J2	degree	±145	
	J3 (Z)	mm	150	
	J4 (Θ axis)	degree	±360	
Maximum speed	J1	degree/s	337.5	
	J2	degree/s	720	
	J3 (Z)	mm/s	765	
	J4 (Θ axis)	degree/s	3000	
Maximum composite speed		mm/s	6267	
Cycle time (25x300x25 mm with 1 kg load)		sec	0.28	
Allowable wrist moment of inertia	rated	kgm <sup>2</sup>	0.005	
	maximum		0.005	
Position repeatability	X, Y direction	mm	±0.012	
	J3 (Z direction)	mm	±0.01	
	J4 (Θ axis)	degree	±0.004	
Ambient temperature		°C	0-40	
Weight		kg	49	
Tool wiring			Hand: 8 inputs/8 outputs, 8 signal cables	
Tool pneumatic pipes			Primary: Ø 6x2 (secondary: Ø 4x8 by option)	
Supply pneumatic pressure		MPa	5 ±10 % for the pneumatic gripper	
Protection rating			IP20 (IP65/ISO class 5 with additional bellow)	
Robot controller			CR750-D	CR750-Q + Q172DRCPU
Order information			Art. no.	
			277708	277709

Characteristics/Functions		RH-3FHR3515-D1-S15	RH-3FHR3515-Q1-S15
Degrees of freedom (no. of axes)		4	4
Installation posture		Overhead	
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
	maximum		3
Maximum reach	arm 1 + arm 2mm		350
Operating range	J1	degree	450 (±225)
	J2	degree	450 (±225)
	J3 (Z)	mm	150
	J4 (⊖ axis)	degree	1440 (±720)
Maximum speed	J1	degree/s	672
	J2	degree/s	708
	J3 (Z)	mm/s	1500
	J4 (⊖ axis)	degree/s	3146
Maximum composite speed		mm/s	6267 (J1, J2)
Cycle time (25x300x25 mm with 1 kg load)		sec	0.32
Allowable wrist moment of inertia	rated	kgm <sup>2</sup>	0.005
	maximum		0.05
Position repeatability	X, Y direction	mm	±0.01
	J3 (Z direction)	mm	±0.01
	J4 (⊖ axis)	degree	±0.01
Ambient temperature		°C	0–40
Weight		kg	24
Tool wiring		Input 8 points/output 8 points (option: output 8 points), 8 spare wires	
Tool pneumatic pipes		Primary: ∅ 6x2 (secondary: ∅ 4x8 by option)	
Supply pneumatic pressure		MPa	5 ±10 % for the pneumatic gripper
Protection rating		IP20 (Optional IP65 and clean room model available)	
Robot controller		CR750-D	CR750-Q + Q172DRCPU
Order information		Art. no.	275483
			275484