

Robot Arm Options for RVF and RHF Series

Name	Model Number	RV					RH							Functional Specification		
		2F 2FL	4F 4FL	7F 7FL	7FLL	13F 13FL 20F	35FM 50FM 70FM	3FH	6FH	12FH 20FH	1FHR	3FHR	3CH		6CH	
Solenoid Valve Set	1E-VDO_	X	-	-	-	-	-	-	-	-	-	-	-	-	1, 2 valves	With solenoid valve output cable. First _ = the number of solenoid valves Second _ = Polarity Blank = Sink E = Source
	1F-VDO_-02	-	X	X	X	-	-	-	-	-	-	-	-	-	1, 2, 3, 4 valves	
	1F-VDO_-03	-	-	-	-	X	-	-	-	-	-	-	-	-		
	1F-VDO_-01	-	-	-	-	-	-	X	X	-	X	-	-	-		
	1S-VDO_-01	-	-	-	-	-	-	-	-	X	-	-	-	-		
	1S-VDO_-05	-	-	-	-	-	-	-	-	-	X	-	-	-	4 valves	
Vacuum Valve Set	1F-VV0_E-01 (Source)	-	-	-	-	-	-	-	-	X	-	-	-	(1, 2 valves) hand input cable included		
Bellows Set	1F-JS-21	-	-	-	-	-	-	-	-	X	-	-	-	Protective bellows for J3 spline shaft		
J3 I/O Cable Access Plate	1F-UT01-21	-	-	-	-	-	X	-	-	-	-	-	-	Replacement J3 cover plate with access holes for I/O cables		
J2 Motor Cover	BU230D345G01	-	-	-	-	-	X	-	-	-	-	-	-	J2 motor cover for non-oil/mist version arms		
Hand Output Cable	1E-GR35S	X	-	-	-	-	-	-	-	-	-	-	-	Outputs x4, 300mm length	Cable to connect to robot 24v hand outputs. Connector on robot side, flying leads on device side.	
	1F-GR35S-02	-	X	X	X	X	-	-	-	-	-	-	-	Outputs x8, 300mm length		
	1F-GR60S-01	-	-	-	-	-	-	X	X	X	X	-	-	Outputs x8, 1050mm length With splash proof grommet		
	1S-GR35S-02	-	-	-	-	-	-	-	-	-	X	-	-	Outputs x8, 450mm length		
	1F-GR2000-21	-	-	-	-	-	X	-	-	-	-	-	-	Outputs x8, Robot side		
	1F-GR2000-22	-	-	-	-	-	X	-	-	-	-	-	-	Outputs x8, Hand side		
Hand Input Cable	1S-HC30C-11	X	-	-	-	-	-	-	-	-	-	-	-	Inputs x4, 300mm length (curled)	Cable to connect to robot 24v hand inputs, connector on robot side, flying leads on device side.	
	1F-HC35S-02	-	X	X	X	X	-	-	-	-	-	-	-	Inputs x8, 1000mm length		
	1F-HC35C-01	-	-	-	-	-	-	X	X	-	X	-	-	Inputs x8, 1650mm total length with 350mm curled section and splash proof grommet		
	1F-HC35C-02	-	-	-	-	-	-	-	-	X	-	-	-	Inputs x8, 1800mm total length with 350mm curled section and splash proof grommet		
	1S-HC00S-01	-	-	-	-	-	-	-	-	-	-	X	-	Inputs x8, 1210mm total length (400mm usable)		
	1F-HC2000-21	-	-	-	-	-	X	-	-	-	-	-	-	Inputs x8, Robot side		
	1F-HC2000-22	-	-	-	-	-	X	-	-	-	-	-	-	Inputs x8, Hand side		
Hand I/O Cable	1F-HCGR01-_	-	-	-	-	-	-	-	-	-	-	X	X	Cable to connect to internal robot wiring for multi-purpose customer supplied I/O (15 point D-sub connector on robot side with flying leads on device side. 2 cables required (base and arm). 0.5m, 5m, 10m, 15m, 20m options _ indicates the length of cables (0.5, 5.0, 10.0, 15.0, 20.0)		
Hand (Curl) Tube	1E-ST040_C	X	X	X	X	-	-	-	-	-	-	-	-	2, 4, 6, or 8 channels (RV2F is only 2, 4) ø4 tube size, L = 300mm. _ indicates the number of channels		
	1E-ST0408C-300	-	-	-	-	-	-	X	X	-	X	-	-	8 channels, ø4 tube size, L = 300 mm.		
	1N-ST060_C-01	-	-	-	-	X	-	-	-	X	-	-	-	2, 4, 6, or 8 channels, ø6 tube size, L = 600mm. _ indicates the number of channels		
Hand Tube	1S-ST0304S	-	-	-	-	-	-	-	-	-	X	-	-	4 channels, ø4 tube size, L = 400mm.		
External Wiring Set 1 (Forearm)	1F-HB01S-01	-	X	X	X	X	-	-	-	-	-	-	-	HI + ETH + (EH or FS)	External wiring box used for connecting: Ethernet = ETH Electric Hand = EH Force Sensor = FS Hand Input = HI Hand Input/Output = HIO.	
External Wiring Set 2 (Forearm)	1F-HB02S-01	-	X	X	X	X	-	-	-	-	-	-	-	ETH + (EH or FS) + (EH or FS)		
External Wiring Set 1 (Base)	1F-HA01S-01	-	X	X	X	X	-	-	-	-	-	-	-	HIO + (EH or FS) + ETH		
External Wiring Set 2 (Base)	1F-HA02S-01	-	X	X	X	X	-	-	-	-	-	-	-	ETH + (EH or FS) + (EH or FS) + HIO		
Internal Wiring and Piping Set for Hand	1F-HS604S-01	-	-	-	-	-	-	-	-	X	-	-	-	Inputs x8 + 4 channels, ø6 tube size. (For 350mm Z-axis)		
	1F-HS604S-02	-	-	-	-	-	-	-	-	X	-	-	-	Inputs x8 + 4 channels, ø6 tube size. (For 450mm Z-axis)		
	1F-HS408S-01	-	-	-	-	-	-	-	X	-	-	-	-	Inputs x8 + 8 channels, ø4 tube size. (For 200mm Z-axis)		
	1F-HS408S-02	-	-	-	-	-	-	-	X	-	-	-	-	Inputs x8 + 8 channels, ø4 tube size. (For 340mm Z-axis)		
	1F-HS304S-01	-	-	-	-	-	-	X	-	-	X	-	-	Inputs x4 + 4 channels, ø3 tube size.		
External User Wiring and Piping Box	1F-UT-BOX	-	-	-	-	-	-	X	X	-	X	-	-	Box for external routing of user wiring and pneumatics. Includes tubing for 8 channels. (Mounts on rear of J2 axis)		
	1F-UT-BOX-01	-	-	-	-	-	-	-	-	X	-	-	-			

Robot Arm Options for RVF and RHF Series (continued)

Name	Model Number	RV						RH								Functional Specification
		2F 2FL	4F 4FL	7F 7FL	7FL	13F 13FL 20F	35F 50F 70F	3FH	6FH	12FH 20FH	1FHR	3FHR	3CH	6CH		
Standard Flex	Replacement (CR-750)	1F-02UCBL-02	-	X	X	X	X	-	X	X	X	X	X	-	-	2m long cables (2-cable set with power supply and signal cables)
	Replacement (CR-751)	1S-02UCBL-03	-	X	X	X	X	-	X	X	X	X	X	-	-	
	Replacement (CR-751)	1F-__UCBL-11	X	-	-	-	-	-	-	-	-	-	-	-	-	10m, 15m
		1F-__UCBL-02	-	X	X	X	X	-	X	X	X	X	X	-	-	10m, 15m, 20m
		1F-__UCBL-04	-	-	-	-	-	-	-	-	-	-	-	X	X	3m, 10m, 15m, 20m
	Extension (CR-760)	1F-__CBL-21	-	-	-	-	-	X	-	-	-	-	-	-	-	5m, 10m, 15m
	Replacement (CR-750)	1S-__LUCBL-01	-	-	-	-	-	-	X	X	X	X	X	-	-	5m, 10m, 15m
		1S-__LUCBL-03	-	-	-	-	-	-	X	-	-	-	-	-	-	10m, 15m, 20m
		1F-__LUCBL-11	X	-	-	-	-	-	-	-	-	-	-	-	-	Direct type, 5m, 10m, 15m
		1F-__LUCBL-02	-	X	X	X	X	-	X	X	X	X	X	-	-	Direct type, 10m, 15m, 20m
		1F-__LUCBL-04	-	-	-	-	-	-	-	-	-	-	-	X	X	10m, 15m, 20m
	Extension (CR-750)	1S-__CBL-11	X	-	-	-	-	-	-	-	-	-	-	-	-	Non CE Extension type, 10m, 15m options (2 wires set with power and signal wires) __ indicates the length of cables (10, 15)
		1S-__CBL-01	-	X	X	X	X	-	-	X	X	X	X	-	-	Extension type, 5m, 10m, 15m options (2 wires set with power and signal wires) __ indicates the length of cables (05, 10, 15)
		1S-__CBL-03	X	-	-	-	-	-	X	-	-	-	-	-	-	CE Extension type, 5m, 10m, 15m options (2 wires set with power and signal wires) __ indicates the length of cables (05, 10, 15)
	Extension (CR-750)	1S-__LCBL-11	X	-	-	-	-	-	-	-	-	-	-	-	-	Non CE Extension type, 5m, 10m, 15m options (2 wires set with power and signal wires) __ indicates the length of cables (05, 10, 15)
1S-__LCBL-01		-	X	X	X	X	-	-	X	X	X	X	-	-	CE Extension type, 5m, 10m, 15m (2 wires set with power and signal wires) __ indicates the length of cables (05, 10, 15)	
1S-__LCBL-03		X	-	-	-	-	-	X	-	-	-	-	-	-	Extension type, 5m, 10m, 15m options (2 wires set with power and signal wires) __ indicates the length of cables (05, 10, 15)	
Extension (CR-760)	1F-__LCBL-21	-	-	-	-	-	X	-	-	-	-	-	-	-	Extension type, 5m, 10m, 15m options (2 wires set with power and signal wires) __ indicates the length of cables (05, 10, 15)	
Hard Stops	J1-Axis	1S-DH-11J1	X	-	-	-	-	-	-	-	-	-	-	-	Hard stop to restrict axis movement. (Install per customer specification)	
		1F-DH-05J1	-	-	-	X	X	-	-	-	-	-	-	-		
		1F-DH-04	-	-	X	-	-	-	-	-	-	-	-	-		
		1F-DH-03	-	X	-	-	-	-	-	-	-	-	-	-		
		1F-DH-02	-	-	-	-	-	-	-	-	X	-	-	-		
		1F-DH-01	-	-	-	-	-	-	X	X	-	X	-	-		
		1S-DH-05J1	-	-	-	-	-	-	-	-	-	-	X	-		
	1F-DH-21J1	-	-	-	-	-	X	-	-	-	-	-	-			
	J2-Axis	1S-DH-11J2	X	-	-	-	-	-	-	-	-	-	-	-		-
		1S-DH-05J2	-	-	-	-	-	-	-	-	-	-	X	-		
		1F-DH-21J2	-	-	-	-	-	X	-	-	-	-	-	-		
	J3-Axis	1S-DH-11J3	X	-	-	-	-	-	-	-	-	-	-	-		-
1F-DH-21J3		-	-	-	-	-	X	-	-	-	-	-	-			

Robot Options for X51 Series (Chemical Resistant)

Name	Model Number	RV				RH		Description
		4F 4FL	7F 7FL	7FLL	13F 13FL 20F	6FH	12FH 20FH	
		X51	X51	X51	X51	X51	X51	
Solenoid Valve	1F-VDO_-04 (Sink)	X	X	X	-	-	-	The 1-4 series solenoid valve with cable _ = electromagnetic valve station number (1, 2, 3, 4) output ø4
	1F-VDO_E-04 (Source)							
	1F-VDO_-05 (Sink)	-	-	-	X	-	-	The 1-4 series solenoid valve with cable _ = electromagnetic valve station number (1, 2, 3, 4) output ø6
	1F-VDO_E-05 (Source)							
External Wiring Set 1 (Forearm)	1F-HB01S-02	X	X	X	-	-	-	HI + ETH + (EH or FS)
External Wiring Set 2 (Forearm)	1F-HB02S-02	X	X	X	-	-	-	ETH + (EH or FS) + (EH or FS)
External Wiring Set 1 (Base)	1F-HA01S-02	X	X	X	-	-	-	HIO + (EH or FS) + ETH
External Wiring Set 2 (Base)	1F-HA02S-02	X	X	X	-	-	-	ETH + (EH or FS) + (EH or FS) + HIO
External User Wiring and Piping Box	1F-UT-BOX-04	-	-	-	-	X	-	Box for external routing of user wiring and pneumatics. (Mounts on rear of J2 axis)
	1F-UT-BOX-03	-	-	-	-	-	X	
Connection Cable Longer Length Replacement	Standard Flex (CR-751)	1F-__UCBL-03	X	X	X	X	X	Replacement type 10m, 15m, 20m options (2 set of power and signal) __ = cable length (10, 15, 20)
	Hi-Flex (CR-751)	1F-__LUCBL-03	X	X	X	X	X	
Hard Stops (J1)	1F-DH-06	X	-	-	-	-	-	Hard stop to restrict axis movement. (Install per customer specification)
	1F-DH-07	-	X	-	-	-	-	
	1F-DH-08	-	-	X	X	-	-	
	1F-DH-09	-	-	-	-	X	-	
	1F-DH-10	-	-	-	-	-	X	