

Single Axis Robots Clean Spec. RSH3C - Straight

CAD Data Folder Name: 07_Actuator

CE

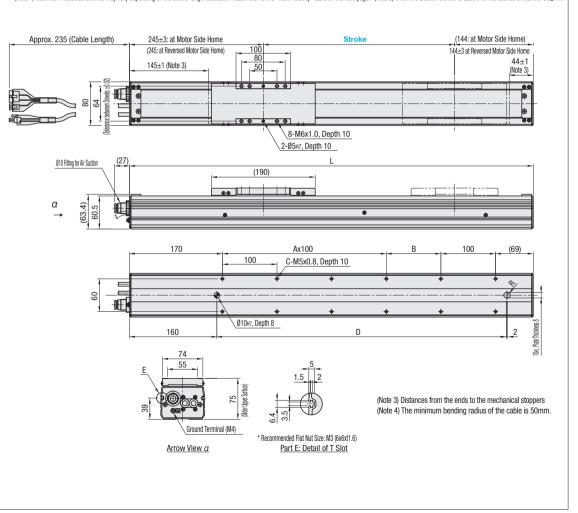


Features: The fitting for air suction is included with as the standard equipment, and the low dust generation grease is adopted.



Standard S	Jecilicat	ions fau 🜬	P. 110								
Tuno	Lead	Repeatability	Max. Load Capacity (kg)	Rated Force	Max. Velocity (Note 1)	Stroke	Rated	Controller	Maximum	Cleanliness	Sucked Amount
Type	(mm)	(mm)	Horizontal	(N)	(mm/sec)	(mm)	Running Life	Input Power Supply	Positioning Point	(Note 2)	(L/min)
	05		80	339	300~105	150~1050 (50 Pitch)	10,000 km or More	100~115V		CLASS10	90
RSH3C	10	±0.01	60	169	600~210			200~230V	255 points	/Based on 0.1µm particle \	
	20		30	84	1000~450			±10%		ver 1cf /	

(Note 1) Maximum velocities allowed may vary depending on the stroke length selected. Please refer to the "Max. Velocity" table on the next page. (Note 2) When the Suction Blower is used with the sucked amount of 90 \(\textit{e} / \text{min} \)



	Part Num	nber	Selection									
Туре	Type 1 Lead (mm) 2 With or w/o Brake (1)			r (? 2)	4 I/O Module 5 Nose Filter (? 3)		6 Cable	7Stroke (mm)				
	05		Specifications Absolute Encoders	Incremental Type	NPN: N	Not Provided: FO	Standard Flexible					
RSH3C			Power Supply (n/ Data Storage Battery) AC100~115V C21A	C21B	PNP: P CC-Link: C	Provided: F1 Specifications F P.115	3.5m: 3 3.5m: R3 5m: 5 5m: R5	150~1050 (50mm Increment)				
	20		AC200~230V C22A	C22B	DeviceNet: D	Specifications PE P. 115	10m: 10 10m: R10	,				

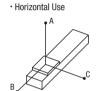
(1) Controllers are shipped with preset parameters for each type. Data storage batteries are outside the scope of RoHS Directive.

(2) A noise filter is required for this product. When the customer is purchasing the noise filter separately, please select "none". Be sure to install a surge absorber on the primary side of a noise filter. For details, please see the Instruction Manual.

■Dimensions / Mass

Туре	Stroke (mm)	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
	L	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439
	Α	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10
RSH3C	В	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100
нопос	С	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
	D	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230
	Mass (kg)	4.7	5.0	5.3	5.6	5.9	6.2	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.7	10.0	10.3

■ Allowable Overhang Load





 Moment Diagram 	MY 🖖 🦟
	MR MF
	NIR T

Allowable Static Moment

		N∙m
MY	MP	MR
128	163	143

				mm	mn						
Lead	Mass	Α	В	С	Lead	Mass	Α	В	С		
	80kg	594	20	17	05	80kg	0	0	0		
05	60kg	707	34	29		60kg	0	0	0		
05	40kg	844	63	54		40kg	15	18	505		
	20kg	1087	148	127		20kg	89	104	974		
	60kg	375	30	25		60kg	0	0	0		
10	40kg	472	57	47	10	40kg	8	11	196		
	20kg	622	137	111		20kg	74	90	517		
	30kg	338	76	57	20	30kg	20	27	182		
20	20kg	401	125	92		20kg	56	76	302		
	10kg	687	274	200		10kg	163	225	617		

• When the overhang equals 0, use externally mounted linear guides to support the load mass.

Max. Velocity (mm/sec)

	Туре	Lead		Stroke (mm)											
	Type	(mm)	150~600	650	700	750	800	850	900	950	1000	1050			
	RSH3C	05	300	264	225	195	180	165	150	135	120	105			
		10	600	528	450	390	360	330	300	270	240	210			
		20	1000	1000	900	800	700	650	600	550	500	450			

A Note

Power interruption circuit is not provided in this controller in order to provide maximum flexibility for customer specific safety scheme. Please be sure to provide an external power interruption circuit and form an emergency stop circuit. For Circuit examples, See ₽Œ P.109.

- Q1. The actuator does not move.
- A1. When activating an actuator using Support Software or Handset Terminal, invalidate Option Parameter (No. 80). (Option Valid = 1/0 Terminal Valid, Option Invalid = 1/0 Terminal Invalid). Then turn the servo status "ON" and operate the homing procedure. After the completion of homing, start the operation by turning on "Operation". Q2. LED light is on. Is there a controller defect?
- A2. Blue: PWR (OFF: Control Power Shutoff, Blink: Servo OFF, ON: Servo ON), Red: ERR (OFF: Control Power Shutoff / No Error Alarm, Blink: Error Alarm On (External Factor), ON: Error Alarm On (Internal Factor)
- Q3. Teaching cannot be conducted by via I/O.
- A3. To conduct teaching via I/O, the status needs to be ON for MANUAL Input and OFF for Interlock Input. Note that it does not function in the state of "Homing Incomplete"
- Q4. Is low-speed operation possible?

A4. Possible, however, 10 to 20% of max. velocity is the limit depending on the lead.















		13H3C05 - C22F	4 - N -	F1	5 - 400	- E-H			
Alterations	Grease Type Alteration	Channe of Home Position	Handset Terminal Standard Specification			Support Software w/ D-Sub Communication Cable Communication Specifications: RS232C		connection	Instruction Manual ME5: Body KE3:Controller (C1) Details RT P.114
Code	G	E	Н	D	S	R	T	С	ME5/KE3
Spec.	to low particle generation grease. (NSK LG2)	The home position is relocated to the opposite side of the motor.	Handset Terminal is included. Specifications Par P109 , 113		Communication Cable is included.	Support Software w/ D-Sub Communication Cable is included. Specifications PT P109, 113	VO Cable is included. Required for NPN/PNP configurations. Specifications.	A cable to connect multiple controllers. Up to 16 controllers can be connected. Specifications FR P.111 , 113	Operation Manual is included.

For optional items, see P.113. Tit is more economical to order the optional items as alterations than purchasing them individually.

