

# Single Axis Robots Clean Spec. RS2C - Straight



See notes on CE Marking. № P.49

CAD Data Folder Name: 07\_Actuator



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

178±2: at Motor Side Home

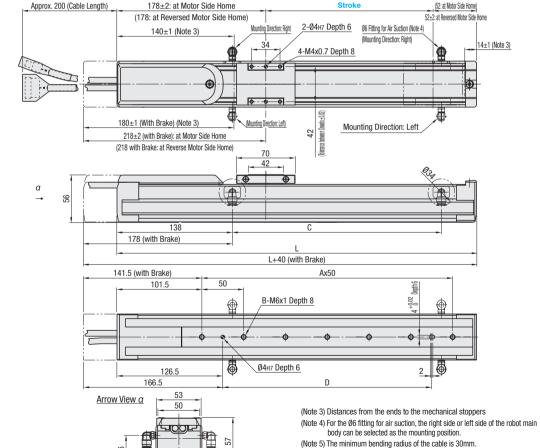


#### ■Standard Specifications FAQ 基 P.110

Mounting Direction: Right /

	Туре	Lead	Repeatability	Max. Load C	Capacity (kg)	Max. Push Force	Stroke	Max. Velocity (Note 1)		Controller	Maximum		Sucked Amount
1	Type	(mm)	(mm)	Horizontal	Vertical	(N)	(mm)	(mm/sec)	Running Life	Input Power Supply	Positioning Point	(Note 2)	(l/min)
	RS2C	06		10	2	90	50~800 (E0 Ditab)	300~190	10,000 km or More		255 points	CLASS10	90
		12	±0.02	6	1	45		600~380				/Based on 0.1µm	
1		20		4	-	27	(50 Pitch)	1000~633	Wille	±10%	i i	particle per 1cf	

(Note 1) Maximum velocities allowed may vary depending on the stroke length selected. Please refer to the "Max Velocity" table. (Note 2) When the Suction Blower is used with the sucked amount of 900/min



(Note 6) Clamp cable within 100mm from actuator end sections so as not to put

not inserted to 6 mm depth or more in the actuator.

the cable under strain. , Mounting Direction: Left (Note 7) When using Ø4 dowel holes for mounting the actuator, ensure that pin is

	Part Nun	nber		Selection								
Туре	1 Lead (mm)	2 With or w/o Brake ( 1)	3 Fitting Mounting Direction	4 Controller	6 I/O Module	6 Cable Length (m)	7 Stroke (mm)					
	06	W/o Brake: <b>Leave blank</b> With Brake: <b>B</b>	Right: <b>R</b> Left: <b>L</b>	Point Control C1	NPN: N	1						
RS2C	12			Point Control: C1 Pulse Control: P1	PNP: P CC-Link: C	5	50~ 800 (50mm Increment)					
	20			(DC24V ±10%)	DeviceNet: D	(Flexible Cable)						

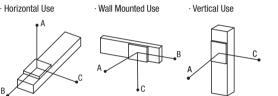
(\$1) Choose the "With Brake" option for use in vertical applications. (W/ brake type is not available for Lead 20)

#### Dimensions / Mass

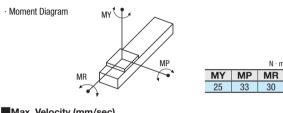
Туре	Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
	L (mm)	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030
	Α	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
RS2C	В	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
N32C	C (mm)	90	140	190	240	290	340	390	440	490	540	590	640	690	740	790	840
	D (mm)	100	150	200	250	300	350	400	450	500	500	500	500	500	500	500	500
	Mass (kg)	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.6	4.8	5.0

The brake adds 0.2 kg to the total mass.

#### Allowable Overhang Load



### Allowable Static Moment



				mm	mm								mm		
ad	Mass	Α	В	С	Lead	Mass	Α	В	С	Lead	Mass	Α	С		
	10kg	344	29	62		8kg	47	22	355	-00	2kg	148	148		
6	8kg	332	37	79	06	6kg	76	35	377	06	1kg	312	312		
	4kg	503	78	165		4kg	134	63	496	12	1kg	286	286		
2	6kg	335	47	95	12	6kg	63	31	263	12	0.5kg	578	579		
_	4kg	347	72	139	12	4kg	109	57	300						
_	4kg	334	67	120	-00	4kg	92	51	265						
0	2ka	413	139	218	20	2ka	192	123	372						

wax. velocity (IIIII/Sec)											
Time	Lead	Stroke (mm)									
Type	(mm)	50~600	650	700	750	800					
	06	300	280	250	220	190					
RS2C	12	600	560	500	440	380					
	20	1000	933	833	733	633					

## 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 PT 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
- Q4. Is low-speed operation possible?
- A4. Possible, however, 10 to 20% of max. velocity is the limit depending on the lead.











-	I/O Type	] -	Cable Length	-	Stroke	-	(E , H···etc.)
-	N	-	3	-	400	-	E-H

Alte	rations	Grease Type Alteration	Change of Home Position	Standard Specification	w/ Deadman's Switch	w/ USB Communication Cable	W / D-Sub Communication Cable	T: Controller C1	connection	Instruction Manual ME5: Body KE3:Controller (C1) KE4:Controller (P1) Details 2017 P.114	Main Body Plastic Color Alterations
Cod	de	G	E	H	D	S	R	T/TP	С	ME5/KE3/KE4	BC
Spe	ec.	Grease is changed to low particle generation grease. (NSK LG2)	The home position is relocated to the opposite side of the motor.	Handset Terminal is included.  Specifications ENT P.109 , 113	Deadman's Switch is included.	Communication Cable is included.	Communication Cable is	I/O Cable is included. Required for NPN/PNP configurations. Specifications INT P109 , 113	Un to 16 controllers	Operation Manual is included.	Change the actuator plastic parts color to black.

