

# RSH2C

## Slider Type Actuator (20–50 kg Max.) / Clean Room Version



Features: Standard equipped with Vacuum Air Joint and Low Particulate Grease

**Components:** Actuator, Controller, Cable, Battery, Noise Filter

**Accessories:**

Controller I/O Specifications		
NPN / PNP	CC-Link	DeviceNet
Instruction Manual on CD-ROM, Power Connector, EXT Connector, Dummy Connector		
—	CC-Link Connector	DeviceNet Connector

**Actuator Material / Surface Treatment**

Components	Base Frame	Guide Rail	Slider	Side Covers
Material	Aluminum	Steel	Aluminum	Aluminum
Surface Treatment	Anodize	—	Anodize	Anodize

**General Specifications**

Ball Screws	Motor	Position Detector	Service Ambient Temperature / Humidity
Ø15 (C7 Rolled)	AC Servo Motors 100W	Resolver	0–40°C, 35–85% RH (No condensation)

**CE Compliant**

See notes on CE Marking P.513

# RSH2C

## Slider Type Actuator (20–50 kg Max.) / Clean Room Version, *continued*



Part Number		Selections								
Type	Lead (mm)	Brake (O1)	Controllers (O2)			I/O Module	Noise Filter (O3)	Cable	Stroke (mm)	
RSH2C	05	Without: Blank With: B	Spec. AC100–115V AC200–230V	Absolute Type (With Data Storage Battery) C21A	Incremental Type C21B	NPN: N PNP: P CC-Link: C DeviceNet: D	Without: F0 With: F1 Specifications P.513	Standard	Flexible	150–1050 50 mm Increment
	10							3.5 m: R3	3.5 m: R3	
	20							5 m: R5	5 m: R5	

- (O1) Choose with brake type motor when using actuator in vertical application.
- (O2) Controllers are shipped with preset parameters for each type. Data storage batteries are outside the scope of RoHS Directive.
- (O3) This product needs a noise filter. When purchased separately by customers, 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.

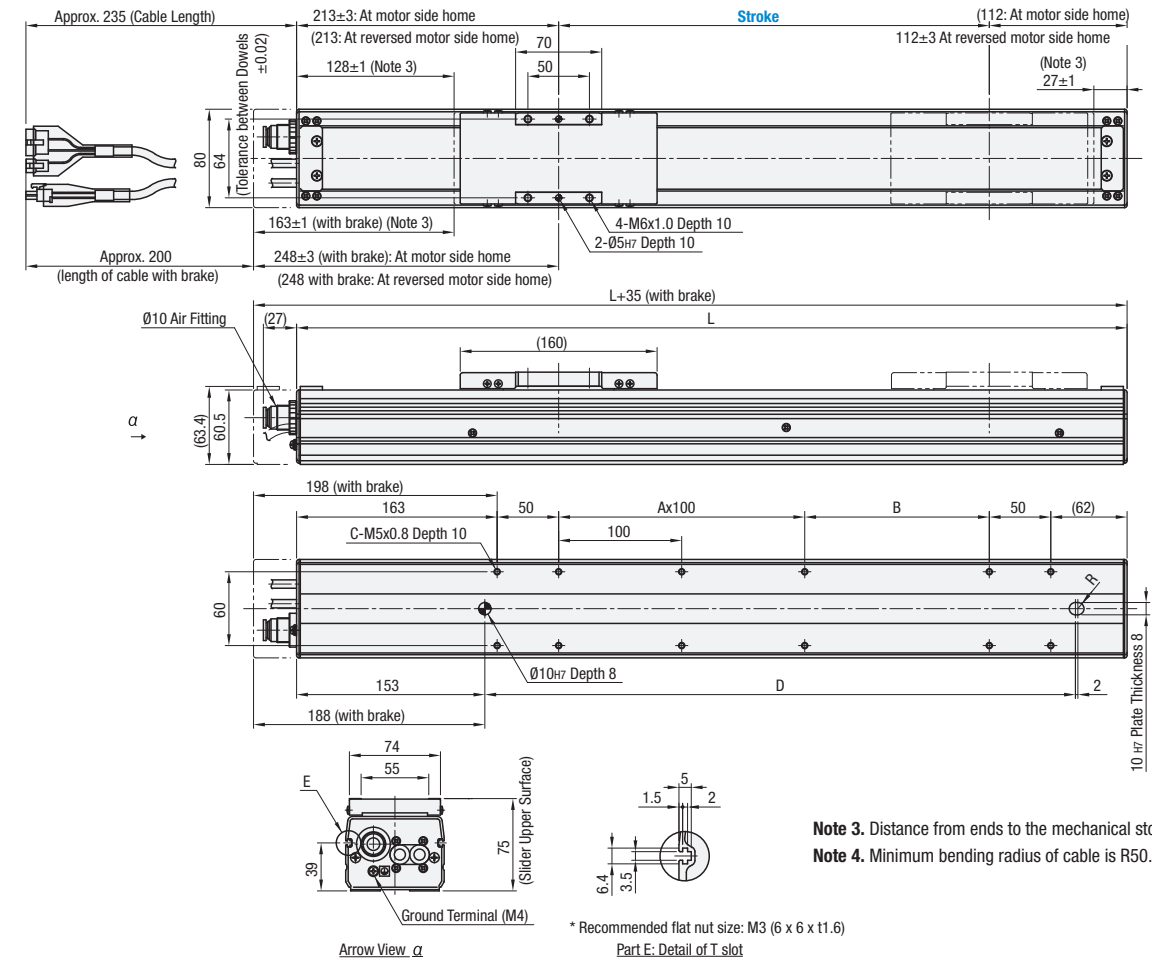
**Part Number Example** RSH2C05B - C22A - N - F1 - 3 - 400

**Note**  
A power interruption circuit is not installed in this controller. Please be sure to build an external power interruption circuit and form an emergency stop circuit. Circuit Examples P.511.

**Standard Specifications** Terminology P.513

Type	Lead (mm)	Positioning Repeatability (mm)	Maximum Load Capacity (kg)		Rated Force (N)	Maximum Velocity (Note 1) (mm/sec)	Stroke (mm)	Rated Running Life	Controller Input Power Supply	Maximum Positioning Points	Cleanroom Class (Note 2)	Vacuum (l/min)	
RSH2C	05	±0.01	Horizontal	Vertical	339	300–120	150–1050 (50 Pitch)	10,000 km or More	Single-Phase AC 100–115V 200–230V ±10%	255 Points	CLASS10 Based on 0.1 µm per 1cf	90	
	10		40	8		169							600–240
	20		20	4		84							1000–500

Note 1: Maximum speed varies depending on stroke. Please see Maximum Speed Table on the right page. Note 2: In the case of 90 l/min vacuum.

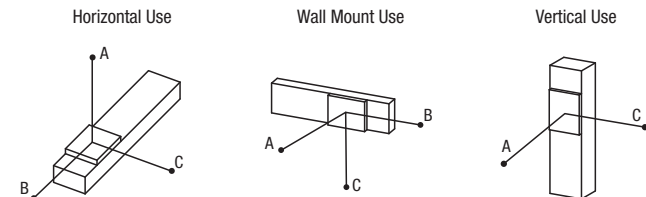


**Dimensions / Mass**

Type	Stroke (mm)	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	
RSH2C	L	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	
	A	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	
	B	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100
	C	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	26
	D	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1180
	Mass (kg)	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.4	6.7	7.0	7.3	7.6	7.9	8.2	8.5	8.8	9.2	9.5	

The mass of with brake type becomes 0.3 kg heavier.

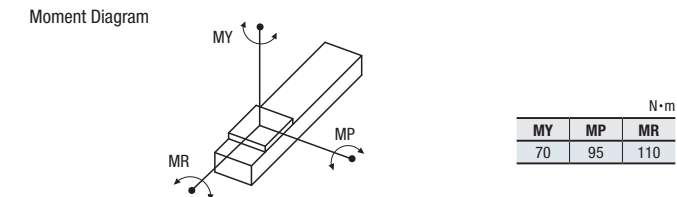
### Allowable Overhang Load



Lead	Mass	mm			Lead	Mass	mm			Lead	Mass	mm		
		A	B	C			A	B	C			A	B	C
05	50 kg	33	6	18	05	50 kg	0	0	0	05	16 kg	9	9	
	40 kg	96	10	28		40 kg	0	0	0		15 kg	12	12	
	30 kg	188	16	43		30 kg	0	0	0		10 kg	37	38	
10	20 kg	256	29	76	10	20 kg	24	9	152	10	5 kg	113	114	
	40 kg	69	8	18		40 kg	0	0	0		8 kg	47	49	
	30 kg	90	14	31		30 kg	0	0	0		6 kg	75	77	
20	20 kg	127	25	55	20	20 kg	10	4	37	20	4 kg	131	133	
	10 kg	251	61	130		10 kg	87	41	197		2 kg	300	302	
	20 kg	95	22	41		20 kg	0	0	0		4 kg	111	115	
20	15 kg	100	33	56	20	15 kg	17	10	39	20	2 kg	255	260	
	10 kg	149	55	89		10 kg	53	32	97					
	5 kg	259	122	179		5 kg	147	100	220					

When overhang equals zero, use linear guides with selected unit to support workload.

### Allowable Static Moment



### Max. Velocity (mm/s)

Type	Lead (mm)	Stroke (mm)								
		150–650	700	750	800	850	900	950	1000	1050
RSH2C	05	300	255	225	195	180	165	150	135	120
	10	600	510	450	390	360	330	300	270	240
	20	1000	1000	900	800	700	650	600	550	500

**Part Number Alterations** RSH2C05B - C22A - N - F1 - 3 - 400 - E-H

Alterations	Change of Home Position	Handy Terminal	Handy Terminal with Deadman's Switch	Support Software with USB Communication Cable	Support Software with RS232C Communication Cable	I/O Cable	Actuator Instruction Manual	Controller Instruction Manual
Code	E	H	D	S	R	T	MJ / ME	KJ / KE
Spec.	The home position is relocated to the opposite side of the motor.	Handy Terminal is included. Specifications P.512	Handy Terminal with Deadman's Switch is included. Specifications P.512	Support Software USB with communication cable is included. Specifications P.512	Support Software with RS232C communication cable is included. Specifications P.512	I/O cable is included. Required for NPN / PNP configurations. Specifications P.512	For Actuator main structures. Instruction Manual is included. MJ: Japanese Language ME: English Language	For Controllers Instruction Manual is included. KJ: Japanese Language KE: English Language

See P.512 for Optional Items.