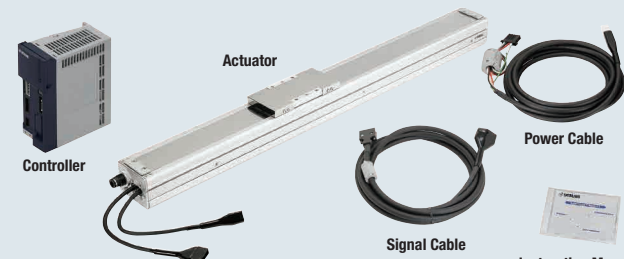


RSH1C

Slider Type Actuator (12–40 kg Max.) / Clean Room Version



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



RoHS10 Controller Specification P510 Cycle Time Graph P516 Instruction Manual CD-ROM

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

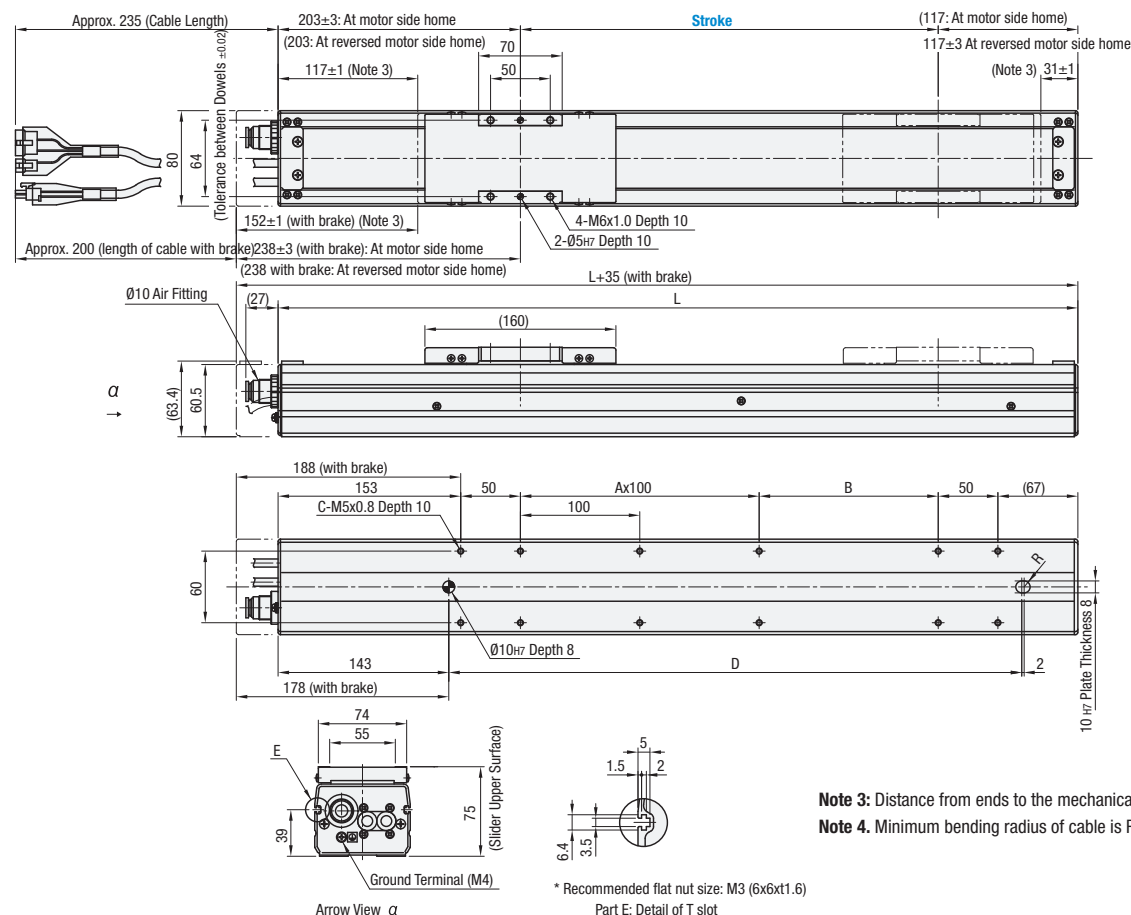
General Specifications

Ball Screws	Motor	Position Detector	Service Ambient Temperature / Humidity
Ø12 (C10 Rolled)	AC Servo Motors 100W	Resolver	0–40°C, 35–85% RH (No condensation)

Standard Specifications Terminology P513

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)
RSH1C	06	±0.02	Horizontal	Vertical	283	360–180	150–800 (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
	12		40	8	141	720–360						
	20		20	4	84	1000–650						

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.



Note 3: Distance from ends to the mechanical stoppers.

Note 4: Minimum bending radius of cable is R50.

Dimensions / Mass

Type	Stroke (mm)	150	200	250	300	350	400	450	500	550	600	650	700	750	800
RSH1C	L	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120
	A	0	1	1	2	2	3	3	4	4	5	5	6	6	7
	B	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
	D	280	330	380	430	480	530	580	630	680	730	780	830	880	930
	Mass (kg)	3.6	3.9	4.1	4.4	4.7	5.0	5.3	5.6	5.9	6.2	6.4	6.7	7.0	7.3

⊖ The mass of with brake type becomes 0.3 kg heavier.

RSH1C

Slider Type Actuator (12–40 kg Max.) / Clean Room Version, continued



CE Compliant

⊖ See notes on CE Marking P513

Part Number		Selections								
Type	Lead (mm)	Brake (⊖1)	Controllers (⊖2)			I/O Module	Noise Filter (⊖3)	Cable	Stroke (mm)	
RSH1C	06	Without: Blank With: B	Spec. Power Supply AC100–115V AC200–230V	Absolute Type (With Data Storage Battery) C21A C22A	Incremental Type C21B C22B	NPN: N PNP: P CC-Link: C DeviceNet: D	Without: F0 With: F1 Specifications P513	Standard	Flexible	150–800 50 mm Increment
	3.5 m: R3							3.5 m: R3		
	5 m: R5							5 m: R5		
	10 m: R10	10 m: R10								

⊖1) Choose with brake type for use in vertical alignment. With brake type is not available for Lead 20.

⊖2) Controllers are shipped with preset parameters for each type. Data storage batteries are outside the scope of RoHS Directive.

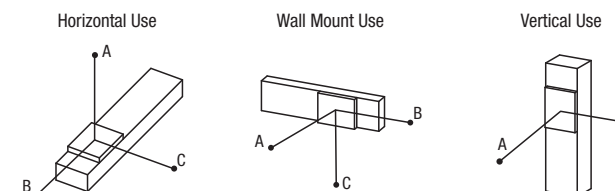
⊖3) This product needs a noise filter. When purchased separately by customers, please select "none". Be sure to install a surge absorber on the primary side of a noise filter. For details, please see the Instruction Manual.

Part Number Example: RSH1C06B - 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 P511.

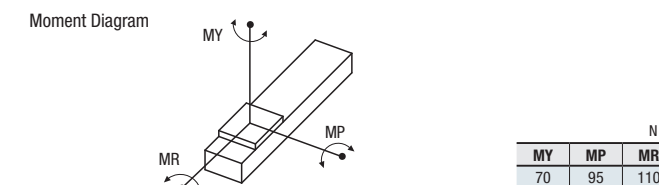
Allowable Overhang Load



Lead	Mass	mm			Lead	Mass	mm			Lead	Mass	mm		
		A	B	C			A	B	C			A	B	C
06	40 kg	168	7	20	06	40 kg	0	0	0	06	8 kg	34	40	
	30 kg	162	11	31		30 kg	0	0	0		4 kg	62	62	
	20 kg	225	20	54		20 kg	18	6	127		4 kg	106	96	
	10 kg	406	47	124		10 kg	87	33	353		2 kg	237	238	
12	20 kg	112	18	40	12	20 kg	7	4	32	12	4 kg	91	92	
	15 kg	144	26	41		15 kg	26	12	83		3 kg	130	132	
	10 kg	207	43	92		10 kg	62	29	158		2 kg	207	209	
	5 kg	364	92	192		5 kg	164	78	328		1 kg	440	442	
20	12 kg	115	31	57	20	12 kg	29	16	66	20	12 kg	29	16	
	10 kg	131	39	69		10 kg	42	24	88		10 kg	42	24	
	5 kg	245	85	146		5 kg	121	71	211		5 kg	121	71	

⊖ 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)					
		150–550	600	650	700	750	800
RSH1C	06	360	324	270	234	216	180
	12	720	648	540	468	432	360
	20	1000	1000	950	800	700	650

Part Number Alterations: RSH1C06B - 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 P512	Handy Terminal with Deadman's Switch is included. Specifications P512	Support Software USB with communication cable is included. Specifications P512	Support Software with RS232C communication cable is included. Specifications P512	I/O cable is included. Required for NPN / PNP configurations. Specifications P512	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 P512 for Optional Items.