Single Axis Robot RSH1 - Straight

Controller Specifications 2 P.497~506 Cycle Time Graph F. P.455 Clean Room Specifications are available on our website

Dedicated Website: http://download.misumi.jp/mol/fa soft.html

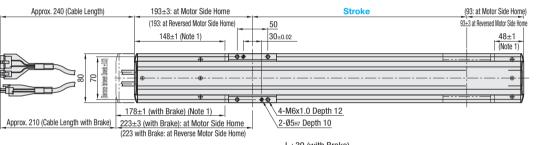
Useful Selection Software and Instruction Manuals can be downloaded.

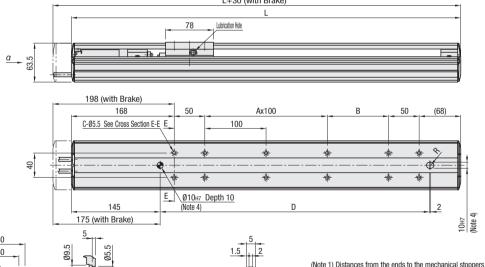


Standard	Specifications	FAQ 🔊 P.504	

Type	Lead	Positioning	Max Load C	apacity (kg)	Rated	Max. Velocity	Stroke	Rated	Input Power	Maximum		
Туре	(mm)	Repeatability (mm)	Horizontal	Vertical	Force (N)	(Note) (mm/sec)	(mm)	Running Life	Supply	Positioning Point		
	06		40	8	283	360~180	150~800	10.000 km or	Single-phase AC			
RSH1	12	±0.02	20	4	141	720~360	(50 Pitch)	10,000 km or More				255 points
	20		12	-	84	1200~600	(30 FILCII)	IVIOLE	±10%			

(Note) Maximum velocities allowed may vary depending on the stroke length selected. Please refer to the "Recommended Maximum Velocities" table.





Part F: Detail of T Slot

(1) 2 		Use M5x0.8 hex socket head	
S Dear de l	A.	cap screw with a shank length	4 K
	7	of 16mm or longer.	(B) (C)
Ground Terminal (M4)			* Recommended Flat Nut Size: M3 (6x6xt1.6)

a Arrow View

Cross Section E-E

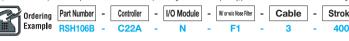
(Note 2) Washers and etc. cannot be used inside the actuators when mounting. (Note 3) The minimum bending radius of the cable is 50mm.

(Note 4) When using Ø10 dowel holes for mounting the actuator ensure that pin is not inserted beyond 10 mm depth or

Dime	Dimensions / Mass														
Type	Dimensions		Stroke (mm)												
Туре	/ Mass	150	200	250	300	350	400	450	500	550	600	650	700	750	800
	L(mm)	436	486	536	586	636	686	736	786	836	886	936	986	1036	1086
	A(mm)	0	0	1	1	2	2	3	3	4	4	5	5	6	6
RSH1	B(mm)	100	150	100	150	100	150	100	150	100	150	100	150	100	150
попт	C(mm)	8	8	10	10	12	12	14	14	16	16	18	18	20	20
	D(mm)	240	290	340	390	440	490	540	590	640	690	740	790	840	890
	Mass (kg)	3.6	3.9	4.2	4.4	4.7	5.0	5.3	5.6	5.9	6.2	6.4	6.7	7.0	7.3

Selection Part Number Lead (mm) With or w/o Brake (1) I/O Module W/ or w/o Nose Filter (3) Cable Controller (12) Stroke (mm) NPN: N None: EO PNP: P 150~800 er Supply (n/ Data Storage Battery) RSH₁ 12 Included: F1 ncluded: B CC-Link: C (50mm Increment) Specifications P P508 DeviceNet: D

(🐑1) Choose the "Brake" option for use in vertical applications. (W/ 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) 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.



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 EFP.503.

Robot Body Price

			Uni	it Price 1 ~ 2 p	c(s)				
Part Number	Stroke (mm)								
	150/200	250/300	350/400	450/500	550/600	650/700	750/800		
RSH1									
RSH1 R									

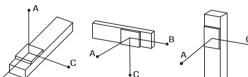
Contro	oller Price							
	Unit	Unit Price						
I/O Type	C21A/C22A Absolute Encoders (w/ Data Storage Battery)	C21B/C22B Incremental Type						
N								
P								
С								
D								

	Cable Price												
	Cable (Standard)	Unit Price	Cable (Flexible)	Unit Price									
ı	3		R3										
	5		R5										
	10		R10										
			`										

W/ or w/o Nose Filter	Unit Price
None:F0	
Included:F1	

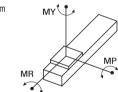
Allowable Overhang Load

· Horizontal Use · Wall Mounted Use Vertical Use



				mm					mm				mm
Lead	Mass	Α	В	С	Lead	Mass	Α	В	С	Lead	Mass	Α	С
	40kg	113	0	8		40kg	0	0	0		8kg	46	46
06	30kg	140	6	20	06	30kg	0	0	14	06	6kg	69	69
00	20kg	214	16	43	00	20kg	25	9	157	00	4kg	113	113
	10kg	403	43	113		10kg	94	36	369		2kg	244	245
	20kg	103	14	33		20kg	15	6	55	12	4kg	98	99
12	15kg	139	22	51	12	15kg	33	15	100		3kg	137	138
12	10kg	203	39	87	12	10kg	69	32	172	12	2kg	214	216
	5kg	364	89	188		5kg	171	81	340		1kg	447	448
	12kg	85	25	43		12kg	27	15	55				
20	10kg	100	32	54	20	10kg	37	23	72				
	5kg	197	76	120		5kg	104	67	174				

■ Allowable Static Moment · Moment Diagram



		N·ι
MY	MP	MR
70	95	110

Max.	Max. Velocity (mm/sec) Please confirm the details of the Max. Speeds based on various strokes with web-Cycle Time Simulator.												
Туре	Lead	Stroke (mm)											
	(mm)	150~550	600	650	700	750	800						
	06	360	324	270	234	216	180						
RSH1	12	720	648	540	468	432	360						
	20	780~1200	1080	900	780	720	600						

When the stroke is 600mm or more, the resonance of ball screws may occur according to the operating area (critical speed). In that case, reduce the operation speed by referring to the Max. Velocity shown in the table above.

• When the overhang equals 0, use externally mounted linear guides to support the load mass. Stroke (G. œE···etc.)

<Price Example> The prices are for the part numbers on the left. (Robot Body Price) + (Controller Price) + (Noise Filter Price) +

(Cable Price) + (Grease Type Alteration Charge) + (Home Position Alteration Charge) = Total Price

Alterations	Grease Type Alteration	Change of Home Position Motor EC: — —	Handset Terminal Standard Specification		Support Software w/ USB Communication Cable Communication Specifications: RS2320	w/ D-Sub Communication Cable		Cable for daisy-chain connection Length: 300mm	Instruction Manual MJ5: Body KJ3:Controller (C1)
Code	G	E	Н	D	S	R	T	С	MJ5/KJ3
Spec.		is relocated to the		Deadman's Switch is	USB Communication	D-Sub Communication Cable is included.	I/O Cable is included. Required for NPN/PNP configurations. Specifications PT P507	A cable to connect multiple controllers. Up to 16 controllers max. can be connected. Specifications P.507	Operation Manual is include For Actuator MJ5: For Controller KJ3:

For optional items, see P. 507. 🏿 It is more economical to order the optional items as alterations than purchasing them individually

Entering point data requires the handy terminal or the support software. An I/O Cable is required for Parallel Communication I/O Control