# Single Axis Robots RSH4 - Straight -

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

Useful Selection Software and Instruction Manuals can be downloaded.

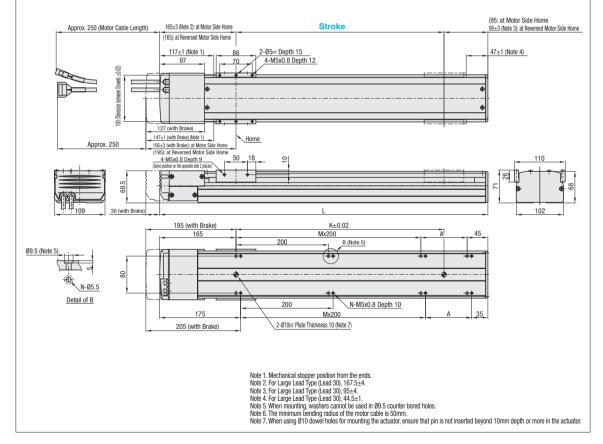
**?**See notes on CE Marking. № P.456



#### ■Standard Specifications FAQ P504

Tuno	Lead				Rated Force	Max. Velocity (Note)	Stroke	Rated	Input Power	Maximum
Туре	(mm)	Repeatability (mm)	Horizontal	Vertical	(N)	(mm/sec)	(mm)	Running Life	Supply	Positioning Point
	05		60	20	339	~300			Single-phase AC	
RSH4	10	±0.01	40	10	169	~600	150~1050	10,000km or	100~115V	255 points
NOT14	20	±0.01	20	4	84	~1200	(50 Pitch)	More	200~230V	200 points
	30		15	-	56	~1800			±10%	

(Note) The maximum velocities may vary depending on the load capacity. Please refer to the "Recommended Maximum Velocities" table.



#### Dimensions / Mass

Type	Dimensions									Str	oke (n	nm)								
Туре	/ Mass	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
	L (mm)	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110	1160	1210	1260	1310
	A (mm)	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
RSH4	M (mm)	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
non4	N (mm)	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
	K (mm)	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
	Mass (kg)	5.5	5.7	5.8	6.2	6.5	6.9	7.3	7.7	8.1	8.5	8.8	9.2	9.6	10.0	10.4	10.8	11.1	11.5	11.9

		Part Nu	ımber	Selection											
•	Туре	Lead (mm)	With or w/o Brake ( ?1)	Controlle	r	I/O Module	W/ or w/o Nose Filter (😯 3)	Cable Length (m)	Stroke (mm)	Regenerative unit					
		05		No. 1 Month Constant		NPN: N				RGT					
	CLIA	10	None: Leave blank	Specifications Absolute Encoders Power Supply (w/ Data Storage Battery)	Incremental Type	PNP: P	None: FO	Standard Flexible 3.5m; 3 3.5m; R3	150~1050	Always select this option when using					
Н	SH4	20	Included: B	AC100~115V C21A AC200~230V C22A	C21B C22B	CC-Link: C	Included: F1 Specifications ► P.508	5m: 5 5m: R5 10m: 10 10m: R10	(50mm Increment)	700mm or more strokes in vertical					
		30		A0200~230V	CZZB	DeviceNet: D		10111.10		applications.					

(1) Choose the "Brake" option for use in vertical applications. (W/ brake type is not available for Lead 30)

( 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.





To order actuators with regenerative unit, specify -RGT after Stroke.

#### ■Robot Body Price

	.,													
					Unit Price	1 ~ 5 pc(s)								
Part Number		Stroke (mm)												
	150	200/250	300/350	400/450	500/550	600/650	700/750	800/850	900/950	1000/1050				
RSH4□□														
RSH4□□B														

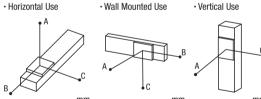
## **■**Controller Price Unit Price 1 ~ 5 Absolute Encoders Inc (w/ Data Storage Battery)

	Cable	Price			
pc(s). 1B/C22B	Cable (Standard)	Unit Price 1 ~ 5 pc(s).	Cable (Flexible)	Unit Price 1 ~ 5 pc(s).	
remental Type	3		R3		
Турс	5		R5		
	10		R10		

	Noise Filter Price	
ce	W/ or w/o Nose Filter	Unit Price 1 ~ 5 pc(s).
(s).	None: FO	
	Included: F1	

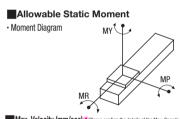
A Note





В_	$\rightarrow$	•							• 0					$\subseteq$	_	
•					mm		mm									mm
Lea	d Mas	s	Α	В	С		Lead	Mass	Α	В	С		Lead	Mass	Α	С
	30k	g	419	19	20			10kg	107	54	1410			10kg	105	146
05	50k	g	0	0	0		05	20kg	22	0	540		05	15kg	51	93
	60k	g	0	0	0			30kg	0	0	0			20kg	25	66
	15k	g	389	71	74			10kg	105	53	550			4kg	338	380
10	30k	g	179	17	20		10	20kg	22	0	230		10	8kg	142	183
	40k	g	106	0	0			30kg	0	0	0			10kg	102	144
	5k	J	937	282	259			5kg	250	213	905			1kg	600	600
20	10k	g	487	121	116		20	10kg	99	51	438		20	2kg	649	691
	20k	g	236	40	44			20kg	21	0	149			4kg	306	347
30	5k	J	491	273	215		30	5kg	206	209	480					
30	15k	g	223	61	63		30	15kg	45	0	177					
(P)Wh	nen the c	ve	rhand	egual	s 0. us	e e	xternally i	mounted	d linea	r auide	es to su	ממו	ort the lo	ad mass		

Туре



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 MY MP MR

131 131 115

Max. Velocity (mm/sec) Please confirm the details of the Max. Speeds based on various strokes with MISUMI Web Simulator

Tuno	Lead		Stroke (mm)											
Туре	(mm)	150~700	750	800	850	900	950	1000	1050					
	05	300	240		195		150		135					
RSH4	10	600	480		39	90	30	00	270					
N3014	20	800~1200	96	60	78	30	60	00	540					
	30	800~1800	14	40	11	70	90	00	810					

The stroke ranges 650mm or more, ball screws may resonate in certain operation areas (critical speed). In that case, reduce the operation speed by referring to the Max. Velocity shown in the

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

 $(\textit{Grease Type Alteration}) + (\textit{Change of Home Position}) = \qquad \textbf{Total Price}$ 

Alterations			Handset Terminal Standard Specification	Handset Terminal w/ Deadman's Switch		Support Software W/ D-Sub Communication Cable Communication Specifications RS232C		Cable for daisy-chain connection  Length: 300mm	Instruction Manual MJ5: Body KJ3:Controller (C1)
Code	G	E	H	D	S	R	T	С	MJ5/KJ3
Spec.		The home position is relocated to the opposite side of the motor.	included.	Handset Terminal w/ Deadman's Switch is included.	USB Communication Cable is included.	Support Software w/ D-Sub Communication Cable is included. Specifications P.507	configurations.	A cable to connect multiple controllers. It can connect maximum 16 controllers.	Operation Manual is included. For Actuator MJ5: For Controller

Length

Stroke

Туре

Presence

Tentering point data requires the handy terminal or the support software. That I/O Cable is required for Parallel Communication I/O Control. For details on daisy-chain, see 🕿 P.505