Single Axis Robots RS3 - Motor Folded

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

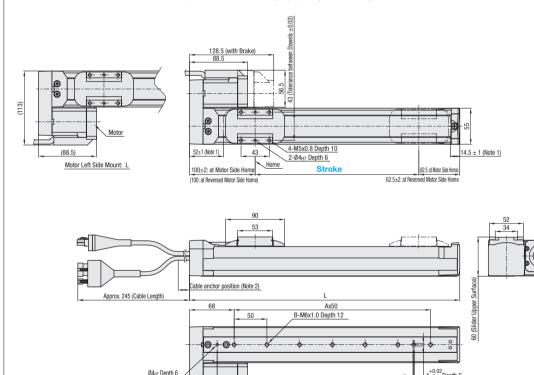
Useful Selection Software and Instruction Manuals can be downloaded.

?See notes on CE Marking. № P.456



Ш	Standard Specifications FAU See P.503											
	Туре	Lead				Max. Push Force	Stroke	Max. Velocity (Note)		Input Power		
Type		(mm)	Repeatability (mm)	Horizontal	Vertical	(N)	(mm)	(mm/sec)	Running Life	Supply	Positioning Point	
ľ		06	±0.02	12	4	120	50~800 (50 Pitch)	300~190	10,000 km or More	DC24V ±10%		
	RS3	12		8	2	60		600~380			255 points	
		20		6	_	36	(30 FILCH)	1000~633	INIOLG	±1070		

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



Note 1. Distances from the ends to the mechanical stoppers
Note 2. The cables should be tied down within 80mm from the ends of the unit avoiding any stress to the cables. Note 3. The minimum bending radius of the cable is 30mm.

Note 4. These masses are for units without brakes. With brakes, they are 0.2kg heavier

Motor Right Side Mount: R

Note 4. If these masses are in thins windout plakes, wind practis, they are U.C.Ag intervier.

Note 5. When the stroke is 600mm or more, the resonance of ball screws may occur according to the operating area (critical speed), in such cases, reduce the programmed operational speeds by referring to the maximum velocities shown in the table on the left.

Note 6. Belt cover is not right-heft symmetrical. If the motor mounting orientation is changed, the belt cover can not be reinstalled.

Dimens	Dimensions / Mass																
Tuno	Dimensions								Stroke	(mm)							
Туре	/ Mass	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
	L (mm)	212.5	262.5	312.5	362.5	412.5	462.5	512.5	562.5	612.5	662.5	712.5	762.5	812.5	862.5	912.5	962.5
	A (mm)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
RS3	B (mm)	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	C (mm)	100	150	200	250	300	350	400	450	500	500	500	500	500	500	500	500
	Mass (kg)	1.7	1.9	2.1	2.3	2.5	2.7	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6

	Part Num	ber	Selection							
Туре	Lead (mm)	With or w/o Brake (1)	Motor Mounting Direction	Controller (?2)	I/O Module	Cable Length (m)	Stroke (mm)			
	06	12 None :Leave blank Included: B	Right Side Mount: R Left Side Mount: L	Point Control: C1 Pulse Control: P1 (DC24V ±10%)	NPN: N	1				
RS3	12				PNP: P CC-Link: C	5 10	50~800 (50mm Increment)			
	20			(DO24V ±1070)	DeviceNet: D	(Flexible Cable)				

(🖭) Choose the "Brake" option for use in vertical applications. (The brake option is not available for Lead 20) (🕲2) When the pulse train type controller is selected, the I/O type selection is not required.



	Stroke	-	Cable Length	-	I/O Module] -	Controller	-	Motor Mounting Direction	-	Part Number	j
	400	-	3	-	N	-	C1	-	L	-	RS306B	9
(C	400	-	3	-			P1	_	L.	_	RS306B	

Robot Body Price

								Unit	Price	1 ~ 2 p	oc(s)						
Part Number Stroke (mm)																	
140	Humber	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
	RS3																
	RS3 B																

	Contro	ller Price	Cable Price					
	Туре	I/O Module	Unit Price	Cable Length (m)	Unit Price			
	C1	N		1				
		P		3				
		С		5				
		D		10				
	P1	-						

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 F P.503

Allowable Overhang Load

12kg 465 39 64

10kg 442 47 78

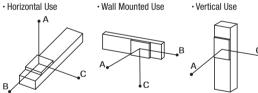
8kg 480 61 100

6kg 399 76 118

4kg 366 109 148 **20**

4kg 500 118 179 6kg 352 71 104

2kg 599 225 291



Lead Mass A B C Lead Mass A B C Lead Mass A C

06

12

12kg 28 17 338 10kg 43 26 355

8kg 64 39 413 6kg 101 62 519

6kg 85 55 334

6kg 71 49 262

2kg 262 203 554

	 Vertice 	al Use	!
В	A		C

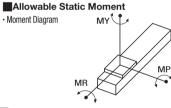
06

12



4kg 113 113 2kg 244 245

2kg 224 224 1kg 458 459



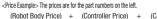
		N⋅m
MY	MP	MR
32	38	34

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

Type	Lead	Stroke (mm)								
Type	(mm)	50~600	650	700	750	800				
	06	300(250)	280(250)	250	220	190				
RS3	12	400~600(500)	560(500)	500	440	380				
	20	350~1000	933	833	733	633				

Values in () are for vertical applications.

For 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





Cable Length	-	Stroke	-	(G, E···etc.)	(Grease Type Alteration Charg
3	-	400	-	G-E	(urcase type Attended to that y

,	,	,	,	(
(Grease Type Alteration C	harge) + (H	lome Position Alte	ration Charge) =	= Tota	al Price

Alterations	Grease Type Alteration		Handset Terminal Standard Specification	Handset Terminal w/ Deadman's Switch	w'USS Communication Cable	Support Software w/ O-Sub Communication Cable Communication Specifications: RS232C	T: Controller C1	connection	Instruction Manual MJ5: Body KJ3:Controller (C1) KJ4:Controller (P1)	Main Body Plastic Color Alterations
Code	G	E	H	D	S	R	T/TP	С	MJ5/KJ3/KJ4	BC
Spec.	Grease is changed to low particle generation grease. (NSK LG2)	The home position is relocated to the opposite side of the motor.	Handset leminal is included. Specifications war P503 507	Handset Terminal w/ Deadman's Switch is included. Specifications ear P.503, 507	USB Communication Cable is included.	D-Sub Communication	Required for NPN/PNP configurations.	controllers. It can connect maximum 16 controllers. Specifications REP P507	Operation Manual is included. For Actuator MJ5: For Controller KJ3: KJ4:	Change the actuator plastic parts color to black.

- For optional items, see 💌 P.507 🖭 It is more economical to order the optional items as alterations than purchasing them individually.
- PEntering point data requires the handy terminal or the support software. ●An I/O Cable is required for Parallel Communication I/O Control.
 ●For details on daisy-chain, see ▼ P.505
 ●Please select the correct I/O cable type for the appropriate controller type.