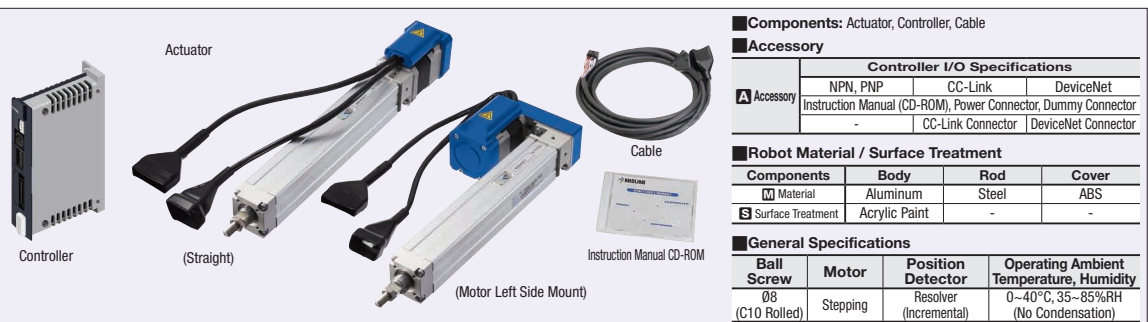


Single Axis Robots RSD1 - Rod Type -

RS
SINGLE AXIS ROBOT

See notes on CE Marking. P456

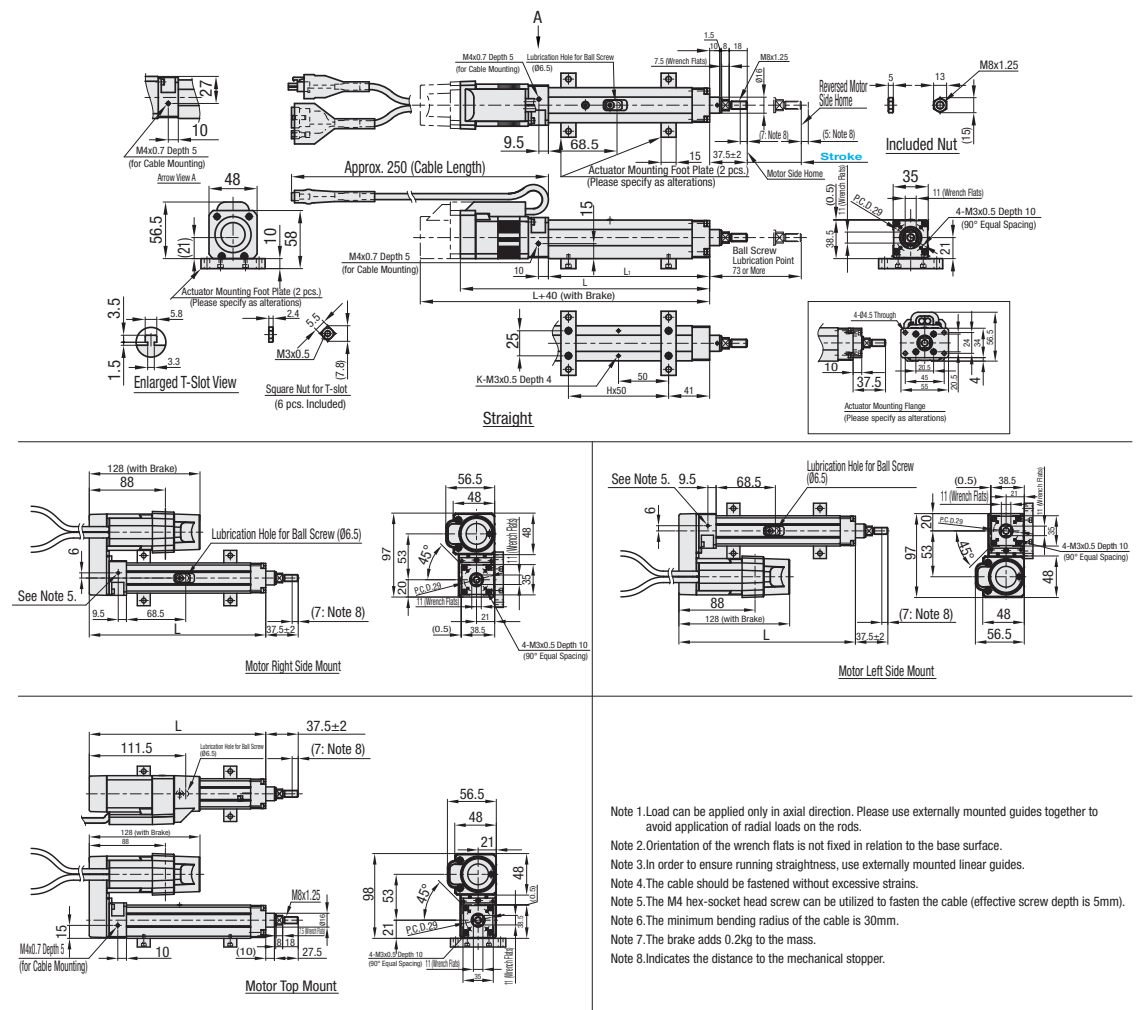


Controller Specifications P497-506

Standard Specifications P503

Type	Lead (mm)	Positioning Repeatability (mm)	Max Load Capacity (kg)	Max. Push Force (N)	Rated Running Life	Lost Motion (mm)	Rod Non-Rotational Accuracy (degrees)	Stroke (mm)	Max. Velocity (mm/sec)	Input Power Supply	Maximum Positioning Point
RSD1	6	±0.02	~20	~8	100	5,000km or More	0.1 or Less	±1.0	~250	DC24V ±10%	255 points
	12										

1. The Service life in the vertical use may vary depending on the load capacity. Please refer to the "Service Life Table." 2. The maximum velocities may vary depending on the load capacity. Please refer to the "Velocity - Maximum Load Capacity Table."



Components: Actuator, Controller, Cable

Accessory

Controller I/O Specifications			
Accessory	NPN, PNP	CC-Link	DeviceNet
	Instruction Manual (CD-ROM), Power Connector, Dummy Connector		
	CC-Link Connector DeviceNet Connector		

Robot Material / Surface Treatment

Components	Body	Rod	Cover
Material	Aluminum	Steel	ABS
Surface Treatment	Acrylic Paint	-	-

General Specifications

Ball Screw	Motor	Position Detector	Operating Ambient Temperature, Humidity
Ø8 (C10 Rolled)	Stepping	Resolver (Incremental)	0~40°C, 35~85%RH (No Condensation)

Part Number			Selection				
Type	Lead (mm)	With or w/o Brake (🌀1)	Motor Mounting Direction	Controller (🌀2)	I/O Module	Cable Length (m)	Stroke (mm)
RSD1	06	None:Leave blank Included:B	Straight: Leave blank Right Side Mount: R Left Side Mount: L Top mounting: U	Point Control: C1 Pulse Control: P1 (DC24V ±10%)	NPN: N PNP: P CC-Link: C DeviceNet: D	1 3 5 10 (Flexible Cable)	50~200 (50mm Increment)
	12						

1 Choose the "Brake" option for use in vertical applications. 2 When the pulse train type controller is selected, the I/O type selection is not required.



Ordering Example

Part Number	Motor Mounting Direction	Controller	I/O Module	Cable Length	Stroke
RSD106B	L	C1	N	3	200
RSD106B	L	C1	N	3	200
RSD106B	L	P1	-	3	200

(Motor Mounting Direction: L)

(Motor Mounting Direction: Straight)

(Motor Mounting Direction: L, Controller: P1)

Robot Body Price

Part Number	Unit Price 1 ~ 3 pc(s).			
	Stroke (mm)			
	50	100	150	200
RSD1				
RSD1				

Controller Price

Type	I/O Module	Unit Price 1 ~ 3 pc(s).
C1	N	
	P	
	C	
	D	
P1	-	

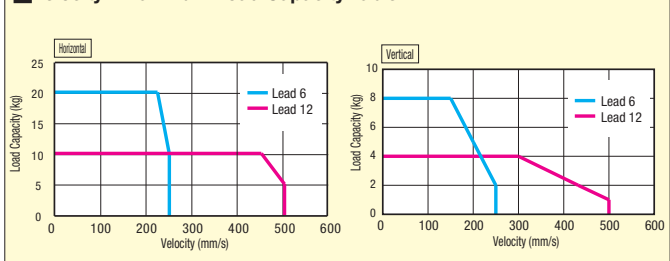
Cable Price

Cable Length (m)	Unit Price 1 ~ 3 pc(s).
1	
3	
5	
10	

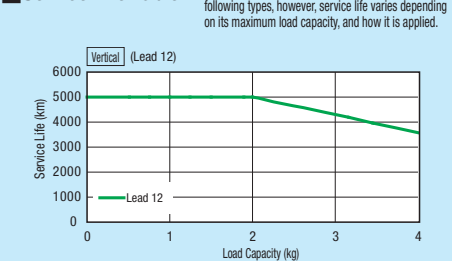
Note

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 P503

Velocity - Maximum Load Capacity Table



Service Life Table



Alterations



Part Number

Motor Mounting Direction

Controller Type

I/O Type

Cable Length

Stroke

(G, E...etc.)

Alterations	Handset Terminal Standard Specification	Handset Terminal w/ Deadman's Switch	Support Software w/ USB Communication Cable	Support Software w/ D-Sub Communication Cable	I/O Cable	Cable for daisy-chain connection	Instruction Manual	Main Body Plastic Color Alterations	Actuator Mounting Foot Plate	Actuator Mounting Flange	Shaft Nozzle for Greasing
Code	H	D	S	R	T/TP	C	MJ5/KJ3/KJ4	BC	HP	VP	N
Spec.	Handset Terminal is included. Specifications P503, 507	Handset Terminal w/ Deadman's Switch is included. Specifications P503, 507	Support Software w/ USB Communication Cable is included. Specifications P503, 507	Support Software w/ D-Sub Communication Cable is included. Specifications P507	I/O Cable is included. Required for NPN/PNP configurations. Specifications P507	A cable to connect multiple controllers. Up to 16 controllers can be connected. Specifications P507	Operation Manual is included. For Actuator MJ5: For Controller KJ3: For Controller KJ4:	Change the actuator plastic parts color to black.	2 plates are included for horizontal mounting. Specifications P507	1 plate is included for vertical mounting. Specifications P507	Use this nozzle to apply grease to the ball screw of top motor mounted type.

For optional items, see P507 It is more economical to order the optional items as alterations than purchasing them individually.

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

For details on daisy-chain, see P505 Please select the correct I/O cable type for the appropriate controller type.

Dimensions / Mass

Type	Dimensions / Mass	Motor Mounting Direction: Straight				Motor Mounting Direction: R/L/U			
		Stroke (mm)				Stroke (mm)			
RSD1	L1 (mm)	161	211	261	311	161	211	261	311
	L (mm)	249	299	349	399	204	254	304	354
	H (mm)	2	3	4	5	2	3	4	5
	K (mm)	6	8	10	12	6	8	10	12
	Mass (kg)(Note 7)	1.1	1.3	1.4	1.6	1.3	1.5	1.6	1.8

The brake adds 0.2kg to the total mass.