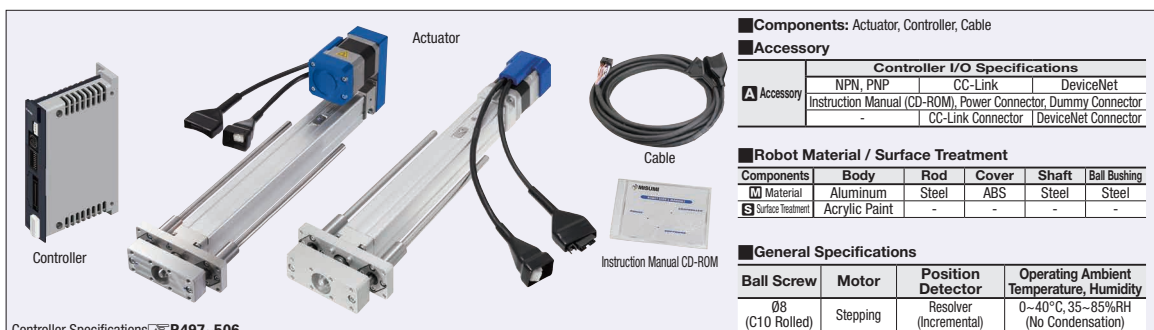


Single Axis Robots RSDG1 - Rod Type with Support Guide -

RS
SINGLE AXIS ROBOT

See notes on CE Marking. P456

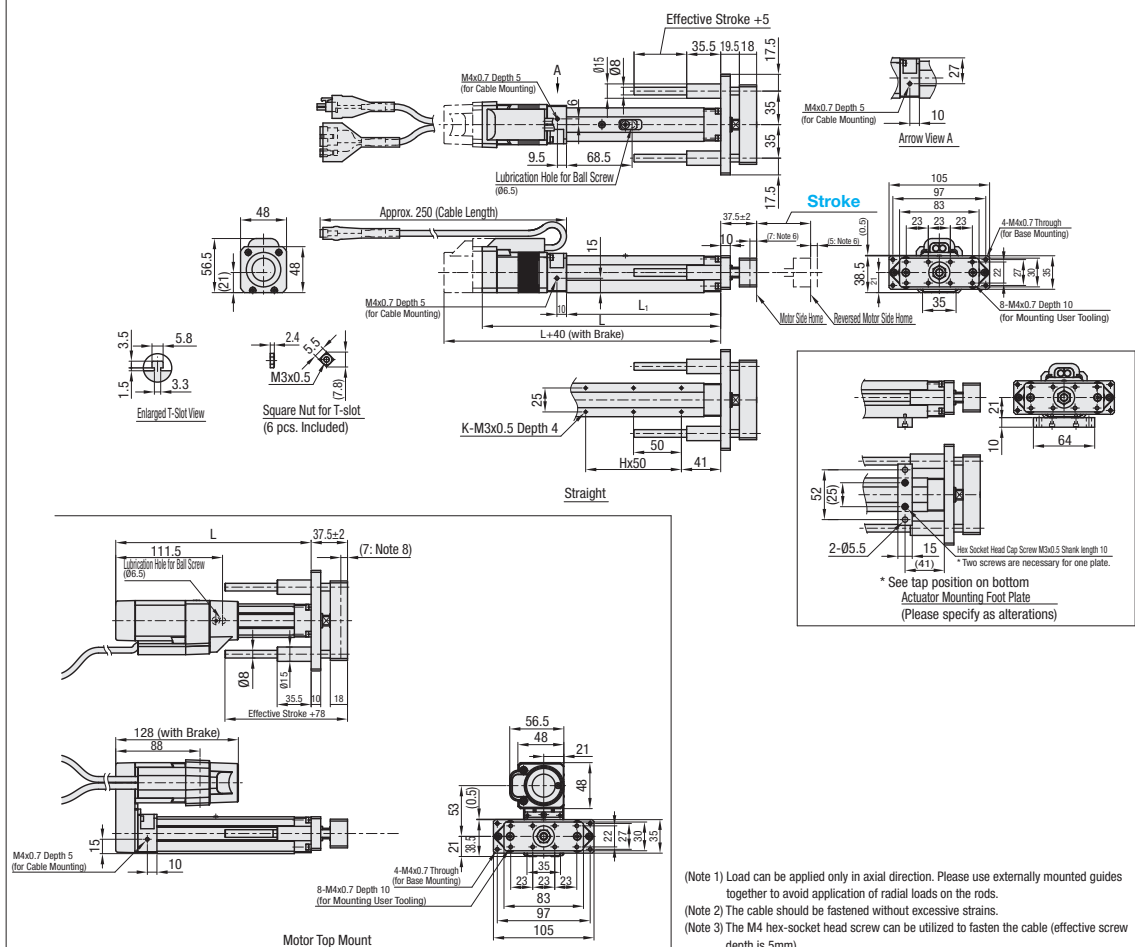


Controller Specifications P497-506

Standard Specifications FAQ P504

Type	Lead (mm)	Positioning Repeatability (mm)	Max Load Capacity (kg)		Max. Push Force (N)	Rated Running Life ①	Lost Motion (mm)	Rod Non-Rotational Accuracy (degrees)	Stroke (mm)	Max. Velocity ② (mm/sec)	Input Power Supply	Maximum Positioning Point
			Horizontal	Vertical								
RSDG1	6	±0.02	20	7.5	100	5,000 km or More	0.1 or Less	±0.05	50-200 (50 Pitch)	~250	DC24V ±10%	255 points
	12		10	3.5								

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."



Dimensions / Mass

Type	Dimensions / Mass	Motor Mounting Direction: Straight				Motor Mounting Direction: U			
		Stroke (mm)				Stroke (mm)			
RSDG1	L ₁ (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 5)	1.5	1.7	1.9	2.1	1.7	1.9	2.1	2.3

⑤ The brake adds 0.2kg to the total mass.

Type	Part Number		Motor Mounting Direction	Controller ②	I/O Module	Cable Length (m)	Stroke (mm)
	Lead (mm)	With or w/o Brake ①					
RSDG1	06	None: Leave blank Included: B	Straight: Leave blank 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	
RSDG106B	U	C1	N	3	200	(Motor Mounting Direction: U)
RSDG106B		C1	N	3	200	(Motor Mounting Direction: Straight)
RSDG106B	U	P1		3	200	(Motor Mounting Direction: U, Controller: P1)

Robot Body Price

Part Number	Unit Price 1 ~ 3 pc(s).			
	Stroke (mm)			
RSDG1	50	100	150	200
	B			

Controller Price

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

Cable Price

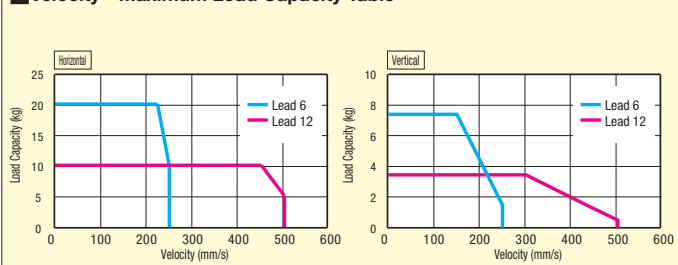
Cable Length (m)	Unit Price 1 ~ 3 pc(s).
1	
3	
5	
10	



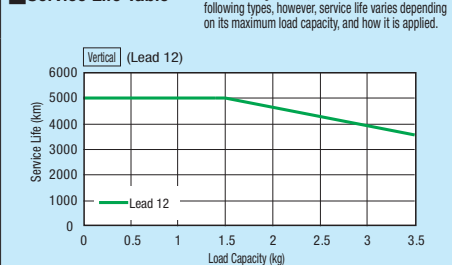
Note

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 MJ5: Body KJ3: Controller (C1) KJ4: Controller (P1)	Main Body Plastic Color Alterations	Actuator Mounting Foot Plate	Shaft Nozzle for Greasing
Code	H	D	S	R	T/TP	C	MJ5/KJ3/KJ4	BC	HP	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. It can connect maximum 16 controllers. Specifications P507	Operation Manual is included. For Actuator MJ5: For Controller KJ3: KJ4:	Change the actuator plastic parts color to black.	2 plates are included for horizontal 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 handy 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.