

RSD3 / RSDG3

Rod Type Actuator (150-600 N Max.)



CE Compliant

See notes on CE Marking P.513

RSD3 Without Support Guide

RSDG3 With Support Guide

Controller Specification P.510 Instruction Manual CD-ROM

Structural Components: Actuator, Controller & Cable Accessories

Controller I/O Specifications			
Accessories	NPN / PNP	CC-Link	DeviceNet
	Instruction Manual on CD-ROM, Power Connector, Dummy Connector & 6 Mounting Nuts		DeviceNet Connector
		CC-Link Connector	DeviceNet Connector

Robot Material / Surface Treatment

Type	Components	Body	Rods	Cover	Shaft	Ball Bushing
RSD3	Material	Aluminum	Steel	ABS Resin	—	—
	Surface Treatment	Acrylic Paint	—	—	—	—
RSDG3	Material	Aluminum	Steel	ABS Resin	Steel	Steel
	Surface Treatment	Acrylic Paint	—	—	—	—

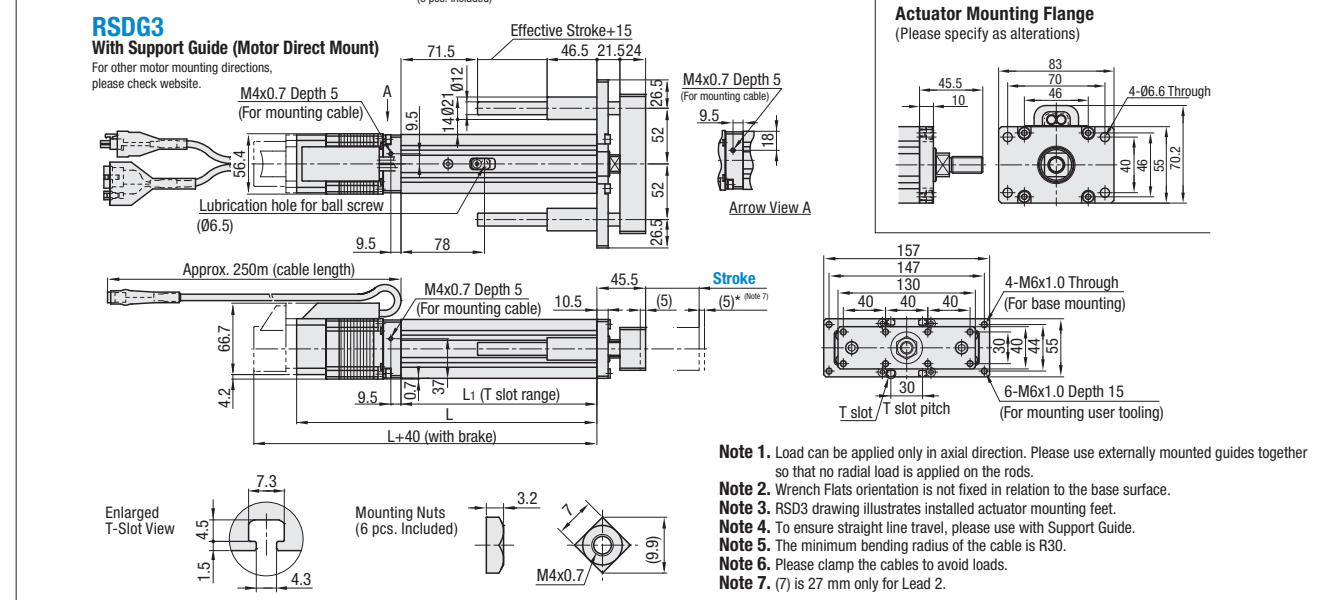
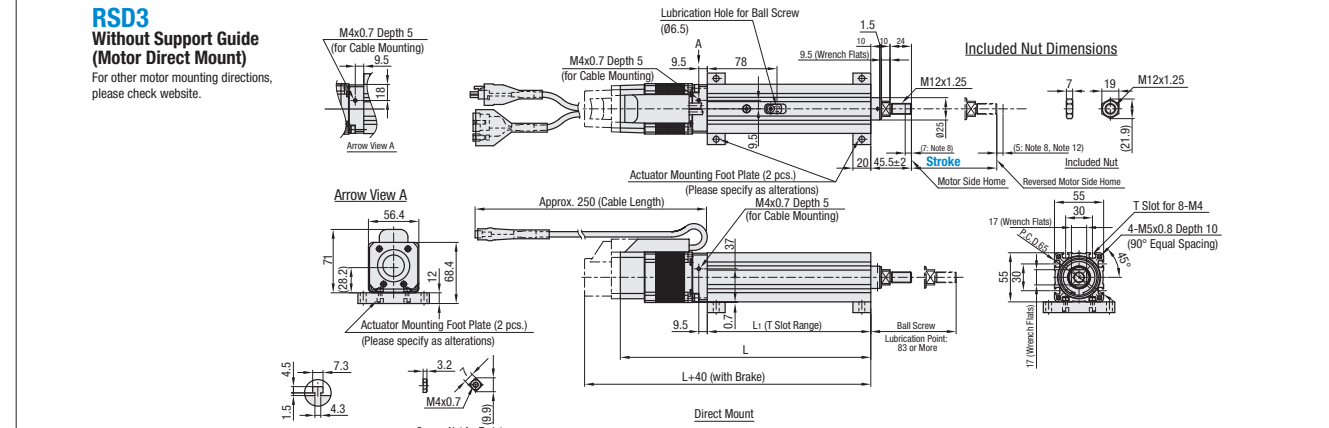
General Specifications

Type	Ball Screws	Motor	Position Detector	Operating Ambient Temperature / Humidity
RSD3	Ø12	Stepping	Resolver (Incremental)	0-40°C, 35-85% RH (Ensure no condensation)
RSDG3	Ø12 (C10 Rolled)	Stepping	Resolver (Incremental)	0-40°C, 35-85% RH (Ensure no condensation)

Standard Specifications Terminology P.513

Type	Lead (mm)	Positioning Repeatability (mm)	Max. Load Capacity (kg)		Maximum Push Force (N)	Rated Running Life ①	Lost Motion (mm)	Rod Non-Rotational Accuracy (degrees)		Stroke (mm)	Maximum Velocity ② (mm/sec)	Input Power Supply	Maximum Positioning Points		
			Horiz.	Vertical				RSD3	RSDG3						
RSD3 RSDG3	02	±0.02	~60	~30	900	5,000 km or More	0.1 or Less	±1.0	±0.05	50-300 (50 Pitch)	~50 ~150 ~300	DC24V ±10%	255 Points		
	06		~55	~20										~18.5	~50
	12		~50	~10										~8.5	250

①. Vertical travel service life varies depending on load capacity. Please check Service Life Table. ②. Maximum Velocity varies depending on load capacity. Please refer to Velocity - Maximum Load Capacity Table.



Dimensions

Type	Dimensions	Stroke (mm)					
		50	100	150	200	250	300
RSD3	L ₁ (mm)	183	233	283	333	383	433
RSDG3	L (mm)	280.5	330.5	380.5	430.5	480.5	530.5

Mass (kg)

Type	Stroke (mm)					
	50	100	150	200	250	300
RSD3	2.2	2.6	3.0	3.3	3.7	4.1
RSDG3	3.1	3.6	4.1	4.5	5.0	5.5

The mass of "With Brake" Type is 0.2 kg heavier.

RSD3 / RSDG3

Rod Type Actuator (150-600 N Max.), continued

Type	Part Number		Motor Mounting Position	Controller ②	I/O Module	Cable Length (m)	Stroke (mm)
	Lead (mm)	With or w/o Brake ①					
RSD3 RSDG3	02	None: Leave blank Included: B	Direct Mount: Leave blank Right Side Mount: R Left Side Mount: L	Point Control: C1 Pulse Control: P1 (DC24V ±10%)	NPN: N PNP: P CC-Link: C DeviceNet: D	1 3 5 10 (Flexible Cable)	50-300 (50mm Increment)
	06						
	12						

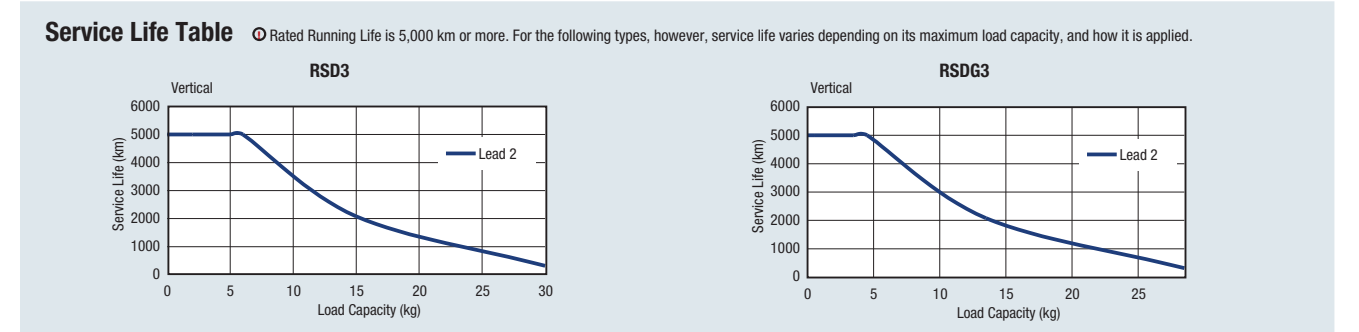
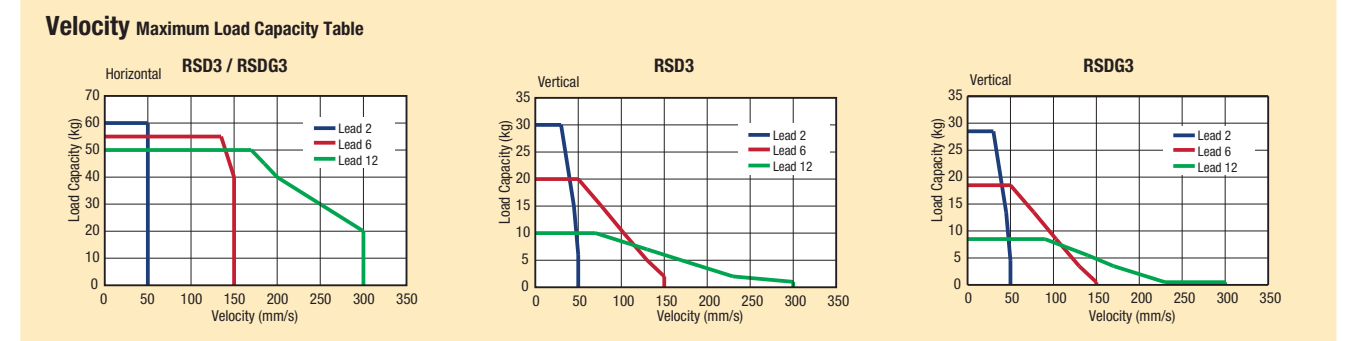
①) Choose "with brake" type for use in vertical applications.
 ②) When the pulse train type controller is selected, the I/O type selection is not required.
 Motor mounting position R and L are not available for RSDG3. Motor mounting position U is not available for RSD3.

Part Number Example

Part Number	Motor Mounting Direction	Controller	I/O Module	Cable Length	Stroke
RSD306B	L	C1	N	3	200
RSD306B		C1	N	3	200
RSD306B	L	P1		3	200

(Motor Mounting Position: L)
 (Motor Mounting Position: Direct)
 (Motor Mounting Position: L, Controller: P1)

Note
 Power interruption circuit is not installed in this controller. Please be sure to provide an external power interruption circuit and form an emergency stop circuit. Circuit Examples P.511.



Part Number Alterations

Part Number	Controller Type	I/O Types	Cable Length	Stroke	(E, H, etc.)
RSD306B	C1	N	3	200	S-MJ

Alterations	Handy Terminal Standard Specification	Handy Terminal with Deadman's Switch	Support Software with USB Communication Cable	Support Software with D-Sub Communication Cable	I/O Cable	Robot Instruction Manual	Controller Instruction Manual	Main Body Plastic Color Alterations	Actuator Mounting Foot Plate	Actuator Mounting Flange
Code	H	D	S	R	T	MJ / ME	KJ / KE	BC	HP	VP
Spec.	Handy Terminal is included. Specifications P.512	Handy Terminal with Deadman's Switch is included. Specifications P.512	Support Software with USB Communication Cable is included. Specifications P.512	Support Software with D-Sub Communication Cable is included. Specifications P.512	I/O Cable is included. Required for NPN / PNP configurations. Specifications P.512	Instruction Manual for robot main structures is included. MJ: Japanese Language ME: English Language	Instruction Manual for Controllers is included. KJ: Japanese Language KE: English Language	Change the actuator plastic parts color to black.	Two plates are included for horizontal mount. Specifications P.512	One plate is included for vertical mount. Specifications P.512

For optional items, see P.512.