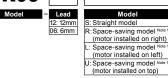
With batte



Ordering method





: With no brake e N: Standard Note 2 Z: Non-motor side

H: With plate V: With flange

Note 3. The robot cable is flexible and resists bending.

Note 4. See P.634 for DIN rail mounting bracket.

Stroke 50 to 200 (50mm pitch)

PN: PNF DN: DeviceNet EP: EtherNet/I PT: PROFINE GW: No I/O board^{Not}

S2

SH N: PNF (Absolute)

SD

Note 1. See P.255 for grease gun nozzles

Note 2. If changing from the origin position at the time of purchase, the machine reference amount must be reset. For details, refer to the manual.

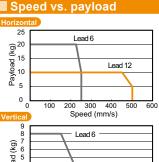
Note 5. Select this selection when using the gateway function. For details, see P.96.

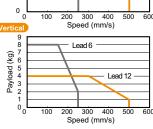
Basic specifications

Motor		42 ☐ Step motor	
Resolution (Pulse/rotation)		20480	
Repeatability (mm)	+/-(0.02
Deceleration n	nechanism	Ball screw ф8	
Ball screw lead	d (mm)	12	6
Maximum speed	Note 1 (mm/sec)	500	250
Maximum	Horizontal	10	20
payload (kg)	Vertical	4	8
Max. pressing force (N)		75	100
Stroke (mm)		50 to 200 (50pitch)	
Lost motion		0.1mm or less	
Rotating backl	lash (°)	+/-1.0	
Overall length Horizontal		Stroke+236.5	
(mm)	Vertical	Stroke+276.	
Maximum outside dimension of body cross-section (mm)		W48 × H56.5	
Cable length (m)		Standard: 1 / Option: 3, 5, 10	

Note 1. The maximum speed needs to be changed in accordance with the payload.

See the "Speed vs. payload" graph shown on the right. For details, see P. 254

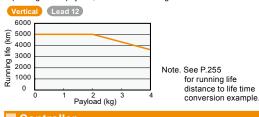




Running life

5000 km on models other than shown below.

Running life of only the model shown below becomes shorter than 5000 km depending on the payload, so check the running life curve.



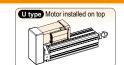
Controller			
Controller Operation method			
TS-S2	I/O point trace /		
TS-SH	Remote command		

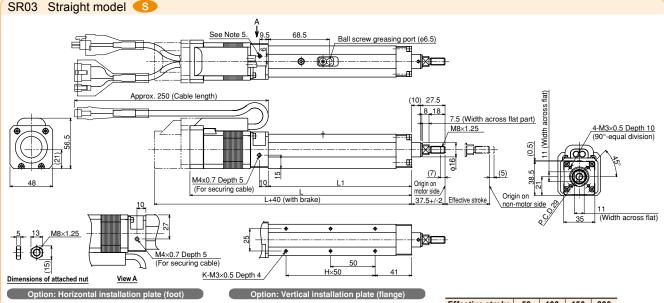
Controller	Operation method
TS-SD	Pulse train control

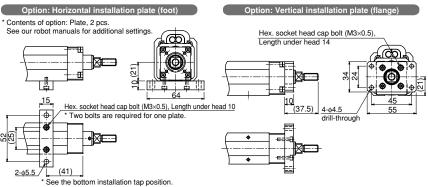
■ Motor installation (Space-saving model)











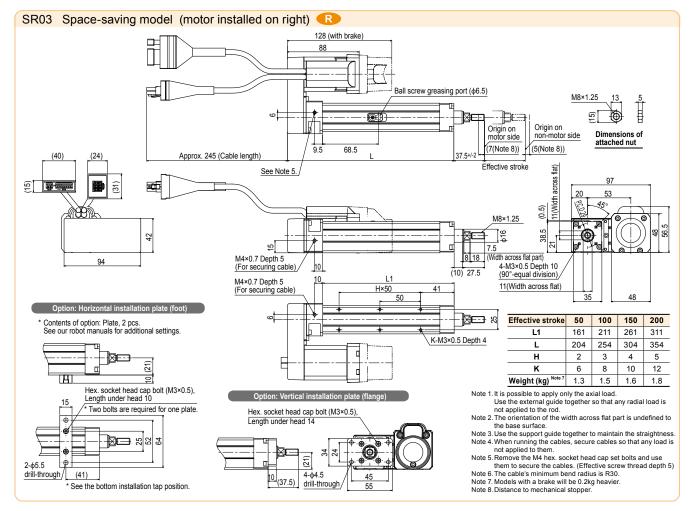
Effective stroke	50	100	150	200
L1	161	211	261	311
L	249	299	349	399
Н	2	3	4	5
K	6	8	10	12
Weight (kg) Note 7	1.1	1.3	1.4	1.6

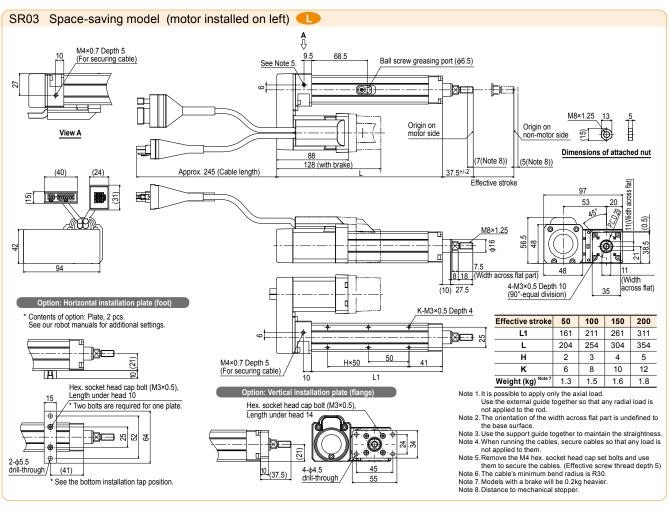
- Note 1. It is possible to apply only the axial load.
- Use the external guide together so that any radial load is not
- Use the external guide together so that any radial load is not applied to the rod.

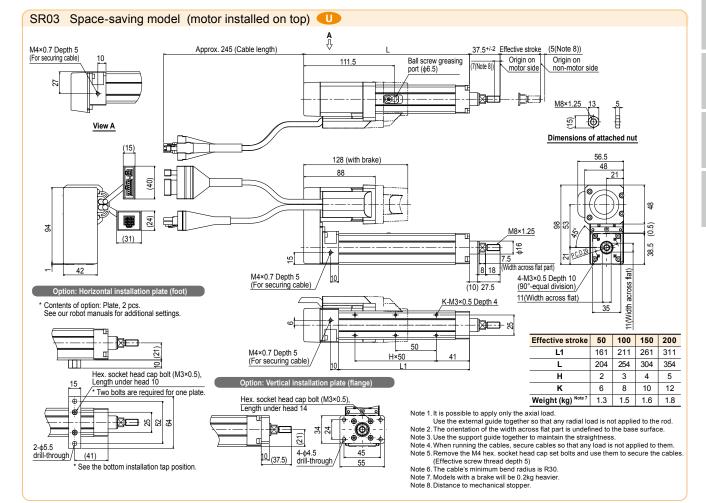
 Note 2. The orientation of the width across flat part is undefined to the base surface.

 Note 3. Use the support guide together to maintain the straightness.

 Note 4. When running the cables, secure cables so that any load is not
- applied to them.
- Note 5. Remove the M4 hex. socket head cap set bolts and use them to secure the cables. (Effective screw thread depth 5)
- Note 6. The cable's minimum bend radius is R30. Note 7. Models with a brake will be 0.2kg heavier. Note 8. Distance to mechanical stopper.







Rod type (With support guide)

CE compliance

Origin on the non-motor side is selectable: Lead 6, 12

Ordering method



Note 1. See P.255 for grease gun nozzles.

Note 3. The robot cable is flexible and resists bending. Note 4. See P.634 for DIN rail mounting bracket.

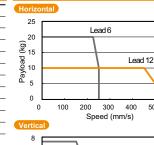
Note 5. Select this selection when using the gateway function. For details, see P.96.

Stroke

(50mm pitch)

Note 2. If changing from the origin position at the time of purchase, the machine reference amount must be reset. For details, refer to the manual.

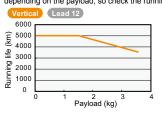
Basic specifications ■ Speed vs. payload



Lead 6 Payload (kg) 7 5 9 9 9 Lead 12 0 300 400 500 100 200 Speed (mm/s)

Running life

5000 km on models other than shown below. Running life of only the model shown below becomes shorter than 5000 km depending on the payload, so check the running life curve.



SRD03-S

S2

SH

SD

PN: PNF

N: PNF

GW: No I/O board

Note, See P.255 for running life distance to life time conversion example.

SRD03-U

With batter

(Absolute)

(Incremental)

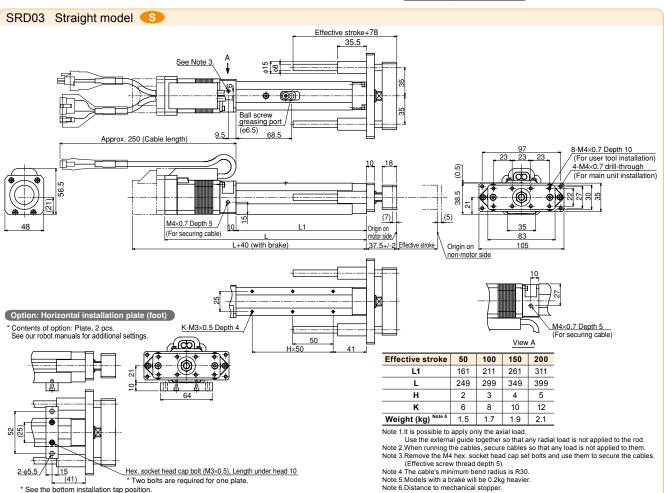
Controller

Controller	Operation method
	I/O point trace /
TS-SH	Remote command

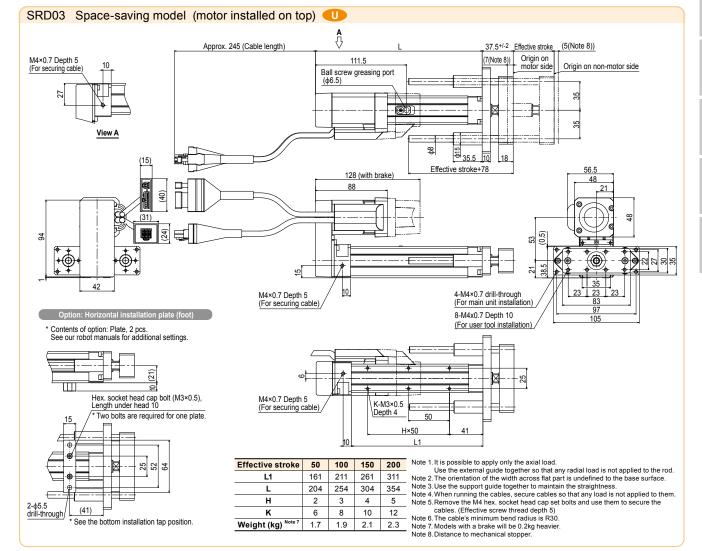
Controller Operation method TS-SD Pulse train control

42 Step motor Motor Resolution (Pulse/rotation) 20480 Repeatability (mm) +/-0.02 **Deceleration mechanism** Ball screw φ8 Ball screw lead (mm) 12 6 Maximum speed Note 1 (mm/sec) 500 250 Horizontal 10 20 Maximum payload (kg) Vertical 3.5 7.5 Max. pressing force (N) 75 100 50 to 200 (50pitch) Stroke (mm) Lost motion 0.1mm or less Rotating backlash (°) +/-0.05 Overall length Horizontal Stroke+236.5 Vertical Stroke+276.5 Maximum outside dimension of body cross-section (mm) W48 × H56.5 Standard: 1 / Option: 3, 5, 10 Cable length (m)

Note 1. The maximum speed needs to be changed in accordance with the payload.
See the "Speed vs. payload" graph shown on the right. For details, see P. 254.



Controller



Motor

Rod type

CE compliance Origin on the non-motor side is selectable: Lead 6, 12

Ordering method

Basic specifications

Resolution (Pulse/rotation)
Repeatability (mm)
Deceleration mechanism

Ball screw lead (mm)

Maximum speed Note 1 (mm/sec)

Maximum Horizontal
payload (kg)

Wertical

Max. pressing force (N)
Stroke (mm)
Lost motion

Rotating backlash (°)
Overall length Horizontal

(mm) Vertical
Maximum outside dimension
of body cross-section (mm)

Cable length (m)

SR04 12mm S: Straight model N: With no brake R: Space-saving model Note 1 (motor installed on right) B: With brake : Space-saving model Not (motor installed on left)

Note 1. See P.255 for grease gun nozzles. Note 2. When "2mm lead" is selected, the origin position cannot be changed (to non-motor side).

Note 3. If changing from the origin position at the time of purchase, the machine reference amount must be reset. For details, refer to the manual.

42 Step motor 20480

300 60 0 to 300 (50pitch) 0.1mm or less

Stroke+263

Stroke+303

W48 × H58

600

Ball screw ф8

function. For details, see P.96.

Note 4. The robot cable is flexible and resists bending. Note 5. See P.634 for DIN rail mounting bracket. Note 6. Select this selection when using the gateway

H: With plate V: With flange

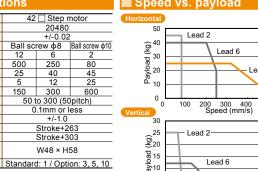
Stroke

(50mm pitch)

50 to 300

Speed vs. payload

N: Standard Note 3
Z: Non-motor side



Lead 12 500 600

10 10 Lead 12 5 200 300 400 Speed (mm/s) 500 600

Running life

SR04-S

S2

SH

obot positi

SD

PN: PNP

GW: No I/O board^h

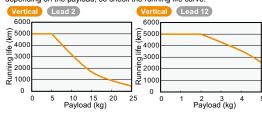
PN: PNP CC: CC-Lin

: With batte

(Incremental)

(Absolute)

5000 km on models other than shown below. Running life of only the model shown below becomes shorter than 5000 km depending on the payload, so check the running life curve.



Note. See P.255 for running life distance to life time conversion example

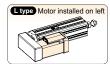
R type Motor installed on right

Note 1. The maximum speed needs to be changed in accordance with the payload.

See the "Speed vs. payload" graph shown on the right. For details, see P. 254. Additionally, when the stroke is long, the maximum speed is decreased due to the critical speed of the ball screw. See the maximum

speed table shown at the lower portion of the drawing

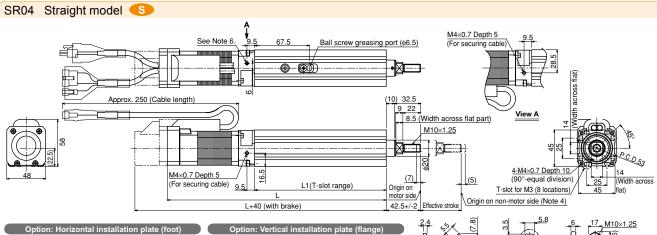
Motor installation (Space-saving model)

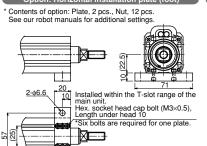


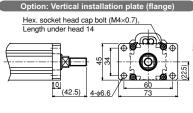


Controller	Operation method
TS-S2	I/O point trace /
TS-SH	Remote command

Controller	Operation method
TS-SD	Pulse train control





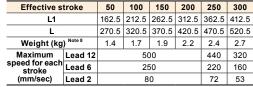


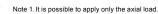






square nut for T-slot (6 pcs.) Details of T-slot Dimensions of attached nut





Note 1. It is possible to apply only the axial load.

Use the external guide together so that any radial load is not applied to the rod.

Note 2. The orientation of the width across flat part is undefined to the base surface.

Note 3. Use the support guide together to maintain the straightness.

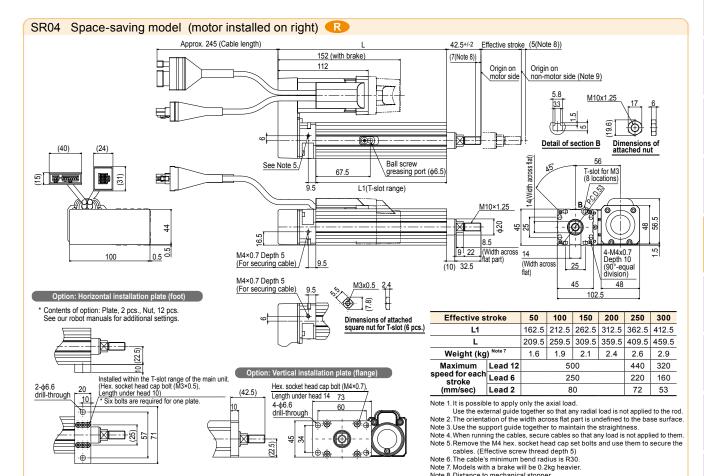
Note 4. For lead 2mm specifications, the origin on the non-motor side cannot be set.

Note 5. When running the cables, secure cables so that any load is not applied to them.

Note 6. Remove the M4 hex. socket head cap set bolts and use them to secure the cables. (Effective screw thread depth 5)

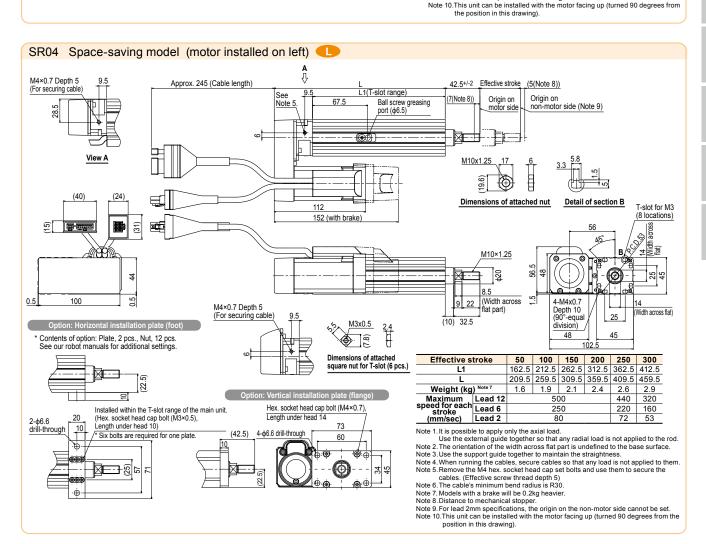
Note 7. The cable's minimum bend radius is R30.

Note 8. Models with a brake will be 0.2kg heavier Note 9.Distance to mechanical stopper



Note 8. Distance to mechanical stopper

Note 9. For lead 2mm specifications, the origin on the non-motor side cannot be set.



Rod type (With support guide)

Origin on the non-motor side is selectable: Lead 6, 12

N: With no brake

Stroke

SRD04-S SRD04-U

Ordering method

SDD04			Γ
3004			
Model	Lead	Model	
	12: 12mm	S: Straight model	١
	06: 6mm	U: Space-saving model Note 1	E
	02: 2mm	(motor installed on top)	_

Note 1. See P.255 for grease gun nozzles.

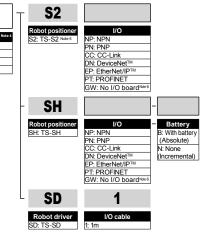
Note 2. When "2mm lead" is selected, the origin position cannot be changed (to non-motor side).

Note 3. If changing from the origin position at the time of purchase, the machine reference amount must be reset. For details, refer to the manual.

Note 4. The robot cable is flexible and resists bending.

Note 5. See P.634 for DIN rail mounting bracket. Note 6. Select this selection when using the gateway

function. For details, see P.96.



Basic specifications

Motor		42 Step motor			
Resolution (Pulse/rotation)		20480			
Repeatability (mm)		+/-0.02			
Deceleration n	nechanism	Ball screw ф8 Ball screw d		Ball screw \$10	
Ball screw lead		12	6	2	
Maximum speed	Note 1 (mm/sec)	500	250	80	
Maximum	Horizontal	25	40	45	
payload (kg)	Vertical	4	11	24	
Max. pressing force (N)		150	300	600	
Stroke (mm)		50 to 300 (50pitch)			
Lost motion		0.1mm or less			
Rotating back		+/-0.05			
Overall length Horizontal		Stroke+263			
(mm)	Vertical		Stroke+303		
Maximum outside dimension of body cross-section (mm)		W48 × H58		58	
Cable length (m)		Standard: 1 / Option: 3, 5, 10			
N					

Note 1. The maximum speed needs to be changed in accordance with the payload.

SRD04 Straight model S

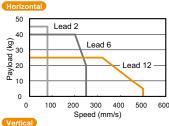
See the "Speed vs. payload" graph shown on the right. For details, see P. 254.

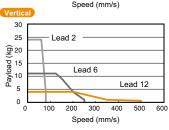
Additionally, when the stroke is long, the maximum speed is decreased due to the critical speed of the ball

See the maximum speed table shown at the lower portion of the drawing.

Speed vs. payload

N: Standard Note 3
Z: Non-motor side

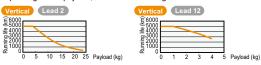




Running life

5000 km on models other than shown below.

Running life of only the model shown below becomes shorter than 5000 km depending on the payload, so check the running life curve.



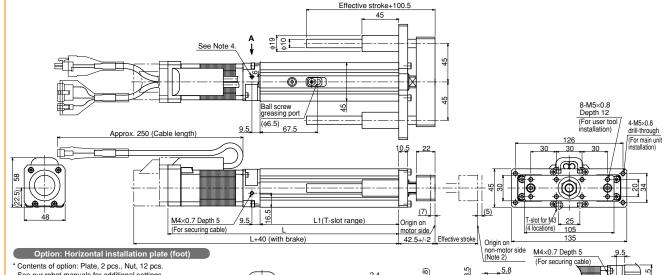
Note. See P.255 for running life distance to life time conversion

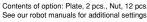
■ Controller

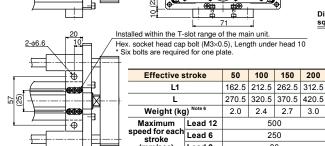
Controller	Operation method		
TS-S2	I/O point trace /		
TS-SH	Remote command		

Controller	Operation method
TS-SD	Pulse train control

View A







(mm/sec)

Lead 6

Lead 2

300 412.5 520.5

Dimensions of attached square nut for T-slot (6 pcs.)

Note 1.It is possible to apply only the axial load.

Use the external guide together so that any radial load is not applied to the rod.

Note 2.For lead 2mm specifications, the origin on the non-motor side cannot be

set.

Note 3.When running the cables, secure cables so that any load is not applied

to them. Note 4. Remove the M4 hex. socket head cap set bolts and use them to secure

Note 5. The cables. (Effective screw thread depth 5)
Note 5. The cable's minimum bend radius is R30.
Note 6. Models with a brake will be 0.2kg heavier.

Details of T-slot

Note 7.Distance to mechanical stopper

250

80

200 250

420.5 470.5

3.0

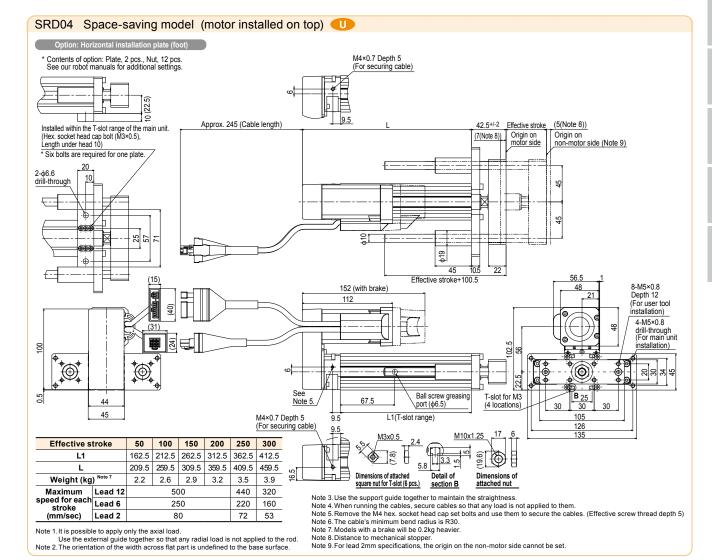
362.5

3.3 3.7

440 320

220 160

72



Rod type

CE compliance

Origin on the non-motor side is selectable: Lead 6, 12

■ Ordering method

SR05 Lead 12mm S: Straight model N: With no brake R: Space-saving model Note 1 (motor installed on right) B: With brake : Space-saving model Not (motor installed on left)

Note 1. See P.255 for grease gun nozzles. Note 2. When "2mm lead" is selected, the origin position

cannot be changed (to non-motor side).

Note 3. If changing from the origin position at the time of purchase, the machine reference amount must be reset. For details, refer to the manual.

Note 4. The robot cable is flexible and resists bending.

Stroke

(50mm pitch)

50 to 300

Note 5. See P.634 for DIN rail mounting bracket.

Note 6. Select this selection when using the gateway function. For details, see P.96.

PN: PNF GW: No I/O board[№] SH B: With batte PN: PNF (Absolute) (Incremental) SD

SR05-R

Basic specifications

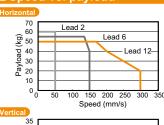
Motor		56 Step motor		
Resolution (Pulse/rotation)			20480	
Repeatability (mm)			+/-0.02	
Deceleration n	nechanism	Ball screw ф12		
Ball screw lead	d (mm)	12	6	2
Maximum speed	Note 1 (mm/sec)	300	150	50
Maximum	Horizontal	50	55	60
payload (kg)	Vertical	10	20	30
Max. pressing force (N)		250	550	900
Stroke (mm)		50 to 300 (50pitch)		
Lost motion		0.1mm or less		
Rotating backl		+/-1.0		
Overall length Horizontal		Stroke+276		
(mm) Vertical		Stroke+316		
Maximum outside dimension of body cross-section (mm)		W56.4 × H71		
Cable length (m)		Standard: 1 / Option: 3, 5, 10		

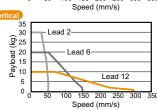
Note 1. The maximum speed needs to be changed in accordance with the payload.

See the "Speed vs. payload" graph shown on the right. For details, see P. 254.

Speed vs. payload

N: Standard Note 3
Z: Non-motor side





Running life

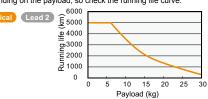
5000 km on models other than shown below.

SR05-S

Cable length N

S2

Running life of only the model shown below becomes shorter than 5000 km depending on the payload, so check the running life curve.



Note. See P.255 for running life distance to life time conversion

Motor installation (Space-saving model)

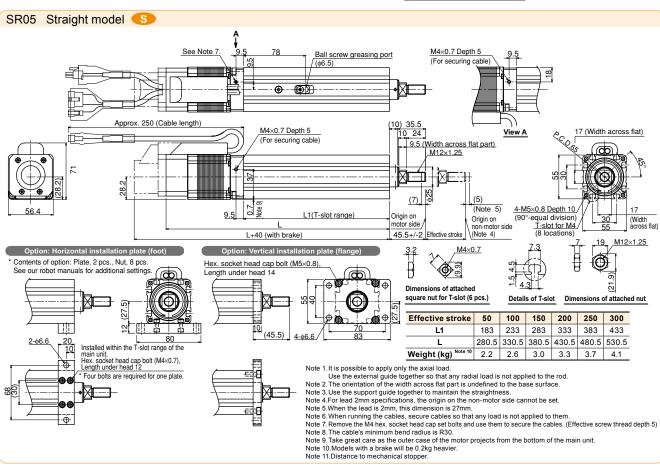


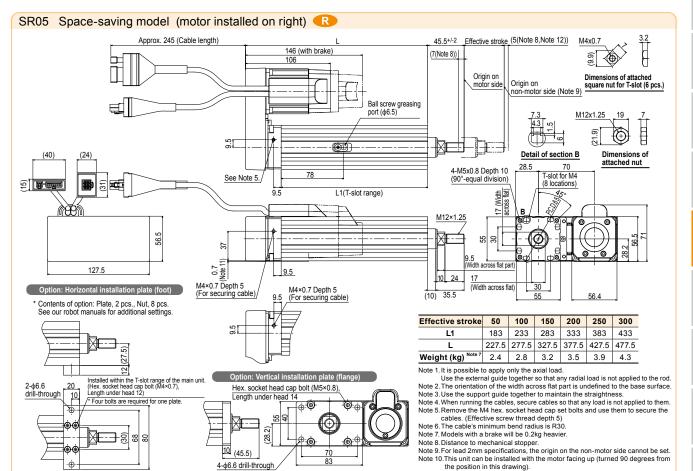


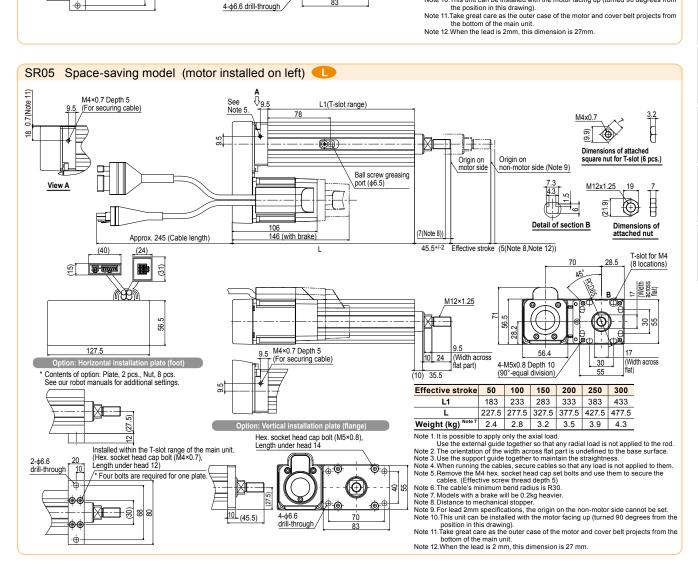


Controller	Operation method
TS-S2	I/O point trace / Remote command
TS-SH	Remote command

Controller	Operation method
TS-SD	Pulse train control







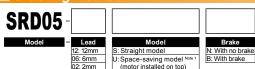
Cable length (m)

Rod type (With support guide)

CE compliance

Origin on the non-motor side is selectable: Lead 6, 12

Ordering method



Note 1. See P.255 for grease gun nozzles

Note 2. When "2mm lead" is selected, the origin position cannot be changed (to non-motor side).

Note 3. If changing from the origin position at the time of purchase, the machine reference amount must be reset. For details, refer to the manual.

Note 4. The robot cable is flexible and resists bending.

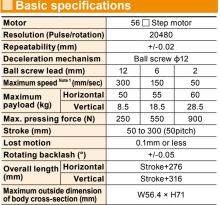
Stroke

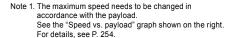
Note 5. See P.634 for DIN rail mounting bracket.

Note 6. Select this selection when using the gateway function. For details, see P.96.

Speed vs. payload

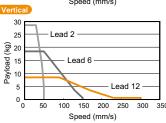
Z: Non-motor side





Standard: 1 / Option: 3, 5, 10





Running life

5000 km on models other than shown below. Running life of only the model shown below becomes shorter than 5000 km

SRD05-S

S2

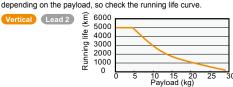
SH

SD

PN: PNF

PN: PNF

GW: No I/O board[№]



Note. See P.255 for running life distance to life time conversion example.

Controller

Controller	Operation method
TS-S2	I/O point trace /
TS-SH	Remote command

0 4 11	0
Controller	Operation method
TS-SD	Pulse train control

SRD05-U

: With batter

(Absolute)

(Incremental)

