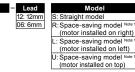


Ordering method





Note 2. If changing from the origin position at the time of purchase, the machine reference amount must be

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

25

15 Payload (0

(g) 20

(kg

Payload

H: With plate V: With flange

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

Note 4. See P.522 for DIN rail mounting bracket. Note 5. Select this selection when using the gateway function. For details, see P.66.

Lead 6

00 300 400 Speed (mm/s)

Lead 12

Lead 6

Speed vs. payload

Stroke 50 to 200 (50mm pitch)

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

SH

S2

N: PNF DN: DeviceNet™
EP: EtherNet/IP™
PT: PROFINET
GW: No I/O board№

(Absolute)

With batte

SD

reset. For details, refer to the manual. Basic specifications

Note 1. See P.153 for grease gun nozzles.

Motor		42 ☐ Step motor			
Resolution (Pul	se/rotation)	20480			
Repeatability (mm)	+/-0	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	0.1mm or less		
Rotating backl		+/-1.0			
Overall length	Horizontal	Stroke	+236.5		
(mm)	Vertical	Stroke+276.5			
Maximum outsid of body cross-se		W48 × H56.5			
Cable length (r	n)	Standard: 1 / Option: 3, 5, 10			
Note 1. The maximum speed peeds to be changed in					

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

See the "Speed vs. payload" graph shown on the right.

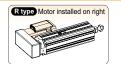
Running life 5000 km on models other than shown below.

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



for running life distance to life time conversion example.

Motor installation (Space-saving model)





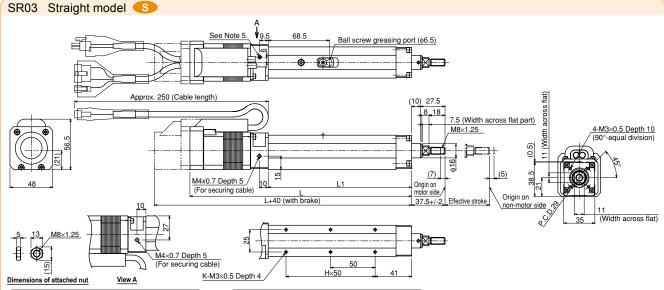


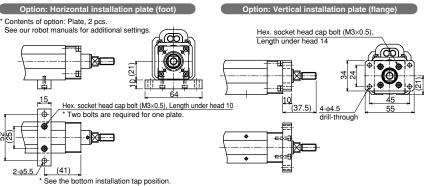
Speed (mm/s)

Controller

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

Controller	Operation method
TS-SD	Pulse train control





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

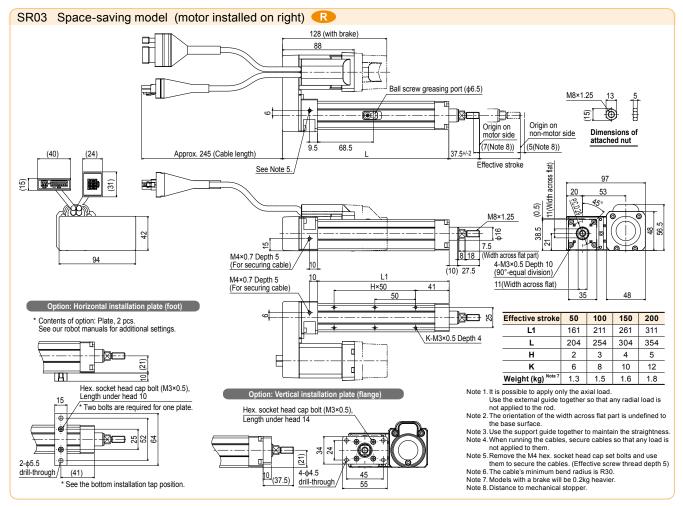
- Note 1. It is possible to apply only the axial load.

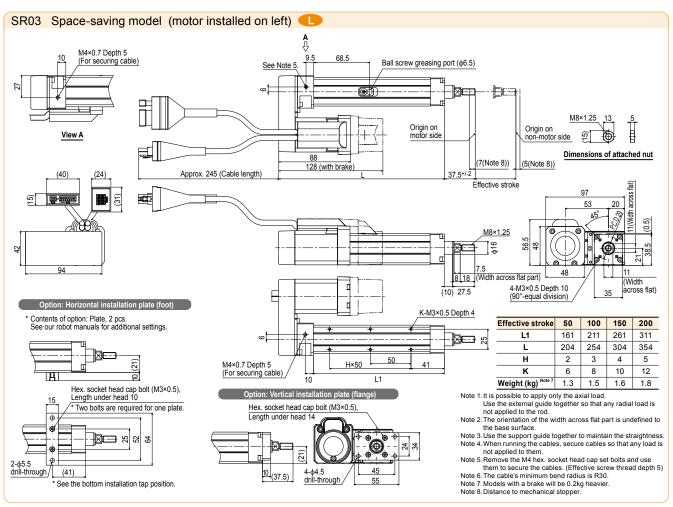
- Use the external guide together so that any radial load is not applied to the rod.

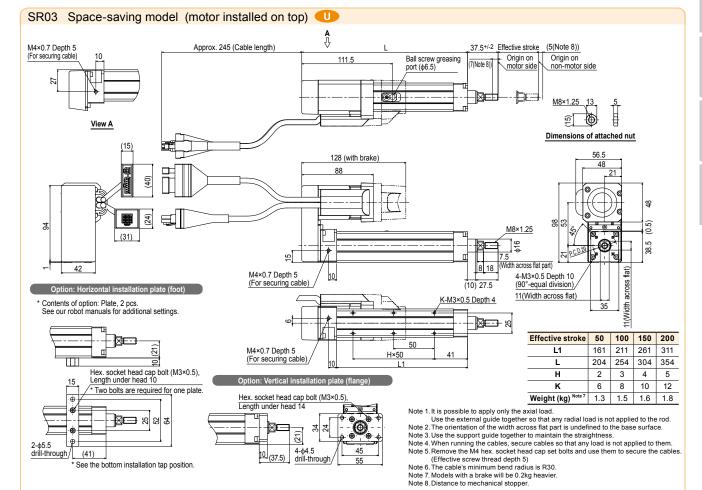
 Note 2. The orientation of the width across flat part is undefined to the base surface.

 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.
- 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

SRD03

Motor

Note 1. See P.153 for grease gun nozzles.

Basic specifications

Resolution (Pulse/rotation)

Repeatability (mm)

Cable length (m)

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.

42 Step motor

20480

+/-0.02

Brake

Speed vs. payload

Stroke (50mm pitch)

PN: PNF GW: No I/O board

SH

SRD03-S

S2

N: PNF

(Absolute) (Incremental)

With batter

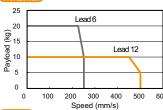
SRD03-U

SD

6 250 20 7.5

Deceleration mechanism Ball screw φ8 Ball screw lead (mm) 12 Maximum speed Note 1 (mm/sec) 500 Horizontal 10 Maximum payload (kg) Vertical 3.5 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

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. 152.

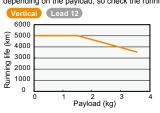


Note 3. The robot cable is flexible and resists bending. Note 4. See P.522 for DIN rail mounting bracket. Note 5. Select this selection when using the gateway function. For details, see P.66.

Lead 6 Payload (kg) (kg Lead 12 0 300 400 500 100 200 600 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.



Note, See P.153 for running life distance to life time conversion example.

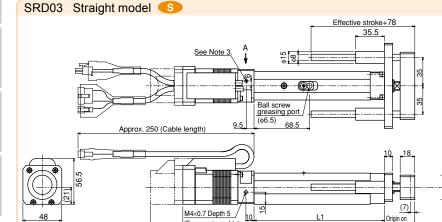
Controller

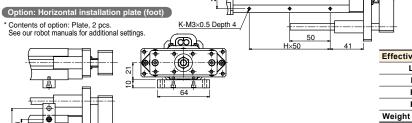
Controller	Operation method
	I/O point trace /
TS-SH	Remote command

Controller Operation method TS-SD Pulse train control

> 8-M4×0.7 Depth 10 (For user tool installation) 4-M4×0.7 drill-through
> (For main unit installation)

M4×0.7 Depth 5





Hex. socket head cap bolt (M3×0.5), Length under head 10

L+40 (with brake)

Effective stroke 50 100 150 200 311 L1 161 211 261 ī 249 299 349 399 Н 2 3 4 5 6 8 10 12 Weight (kg) 1.5 1.7 1.9 2.1

(5)

Origin on non-motor side

motor side

Note 1.lt 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.When running the cables, secure cables so that any load is not applied to them.

Note 3.Remove the M4 hex. socket head cap set bolts and use them to secure the cables.

(Effective screw thread depth 5)

Note 4.The cable's minimum bend radius is R30.

35

83

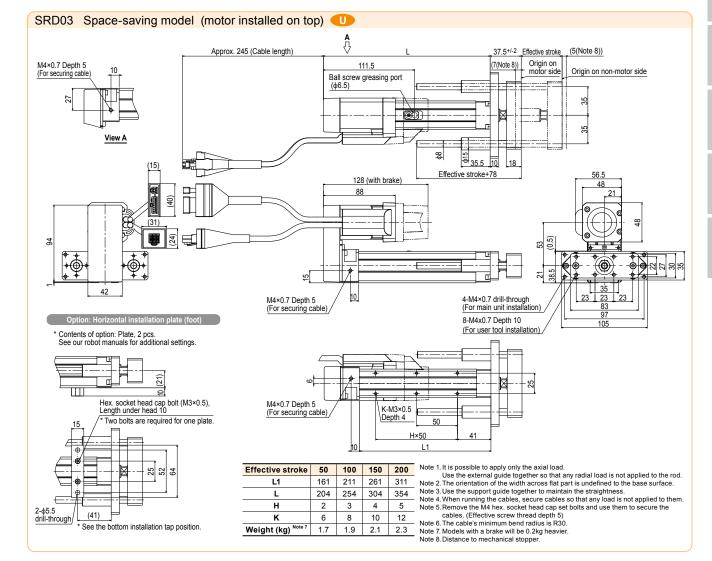
View A

- Note 5.Models with a brake will be 0.2kg heavier
- Note 6.Distance to mechanical stopper

(41) Two bolts are required for one plate * See the bottom installation tap position.

Controller

TS-S2 > 514 | TS-SH > 514 | TS-SD > 524



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) Vertical

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)

Maximum payload (kg)

Motor

SR04 : 12mm S: Straight model R: Space-saving model Note 1 (motor installed on right)

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 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. 152. 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)

B: With brake .: Space-saving model Not (motor installed on left) Note 1. See P.153 for grease gun nozzles.

42 Step motor 20480

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

Stroke+263

Stroke+303

W48 × H58

Standard: 1 / Option: 3, 5, 10

600

Ball screw ф8

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

N: With no brake

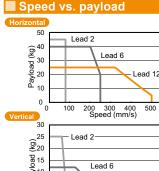
Note 5. See P.522 for DIN rail mounting bracket. Note 6. Select this selection when using the gateway

function. For details, see P.66.

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

H: With plate V: With flange

N: Standard Note 3
Z: Non-motor side



PN: PNP CC: CC-Lin SD Lead 12

Stroke

(50mm pitch)

50 to 300

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

Running life

SR04-S

S2

SH

obot positi

PN: PNP

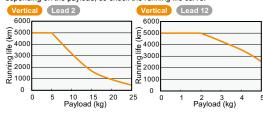
GW: No I/O board^h

: With batte

(Incremental)

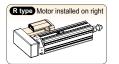
(Absolute)

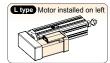
5000 km on models other than shown below. Running life of only the model shown below becomes shorter than 5000 km depending on the payload, so check the running life curve.



Note. See P.153 for running life distance to life time conversion example.

L type Motor installed on left

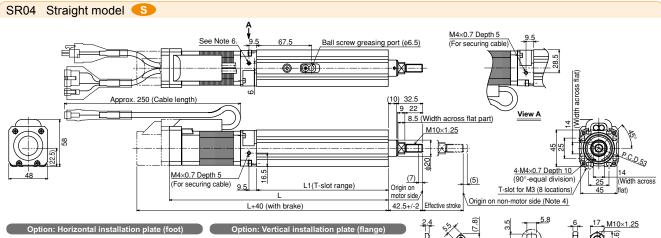




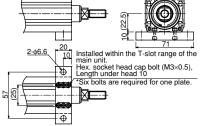


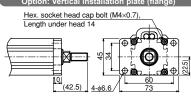
Controller	Operation method
TS-S2	I/O point trace /
TS-SH	Remote command

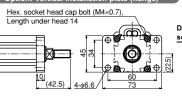
Controller	Operation method
TS-SD	Pulse train contro











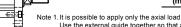






square nut for T-slot (6 pcs.) Details of T-slot Dimensions of attached nut

Effective stroke 50		50	100	150	200	250	300
L1		162.5	212.5	262.5	312.5	362.5	412.5
L		270.5	320.5	370.5	420.5	470.5	520.5
Weight (kg) Note 8	1.4	1.7	1.9	2.2	2.4	2.7
Maximum	Lead 12		50	00		440	320
speed for each stroke	Lead 6		2	50		220	160
(mm/sec)	Lead 2		8	0		72	53



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.

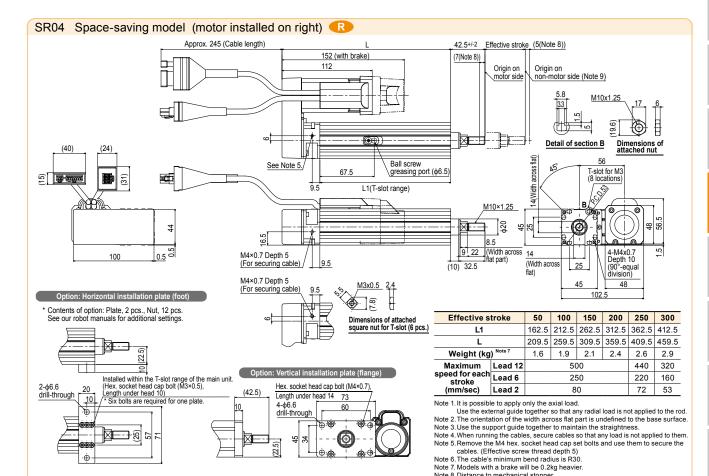
Note 5. When running the cables, secure cables so that any load is not applied to them.

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.

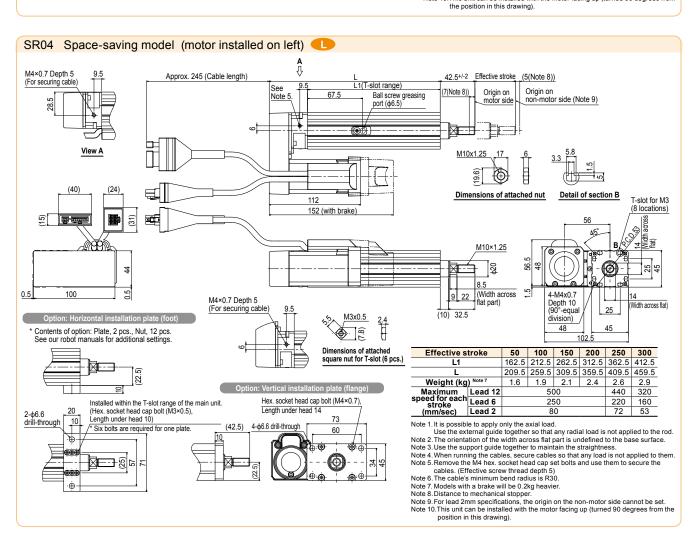
Note 8. Models with a brake will be 0.2kg heavier

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. Note 10.This unit can be installed with the motor facing up (turned 90 degrees from



Rod type (With support guide)

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

Stroke

SRD04-S SRD04-U

Ordering method

	HIIOGH	о ч	
SRD04			-
Model	Lead	Model	Brake
	12: 12mm	S: Straight model	N: With no brake
	06: 6mm	U: Space-saving model Note 1	B: With brake
	∩2· 2mm	(motor installed on ton)	

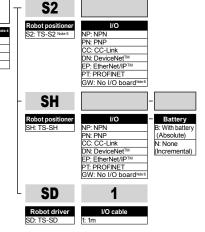
Note 1. See P.153 for grease gun nozzles.

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.522 for DIN rail mounting bracket. Note 6. Select this selection when using the gateway function. For details, see P.66.



Basic specifications

Motor		42 Step motor				
Resolution (Pul	se/rotation)	20480				
Repeatability (mm)		+/-0.02			
Deceleration m	nechanism	Ball sc	Ball screw ф8 Ball screv			
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)		501	50 to 300 (50pitch)			
Lost motion		0.1mm or less				
Rotating backl		+/-0.05				
Overall length (mm) Horizontal Vertical		Stroke+263				
		Stroke+303				
Maximum outside dimension of body cross-section (mm)		W48 × H58				
Cable length (I	m)	Standard: 1 / Option: 3, 5, 10				
N 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						

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. 152.

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.

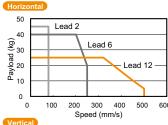
₩

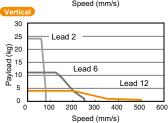
-

Controller

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.



set.

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

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.

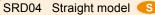
Note 7.Distance to mechanical stopper

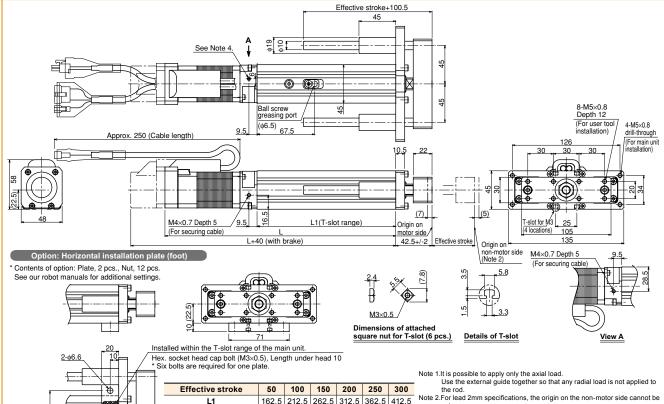
Note. See P.153 for running life distance to life time conversion

Controller

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

Controller	Operation method
TS-SD	Pulse train control





362.5

3.3 3.7

440 320

220 160

72

520.5

to them.

Effective stroke

L1

Lead 12

Lead 6

Lead 2

Weight (kg)

Maximum beed for each stroke

(mm/sec)

50

270.5 320.5 370.5 420.5 470.5

2.0 2.4 2.7 3.0

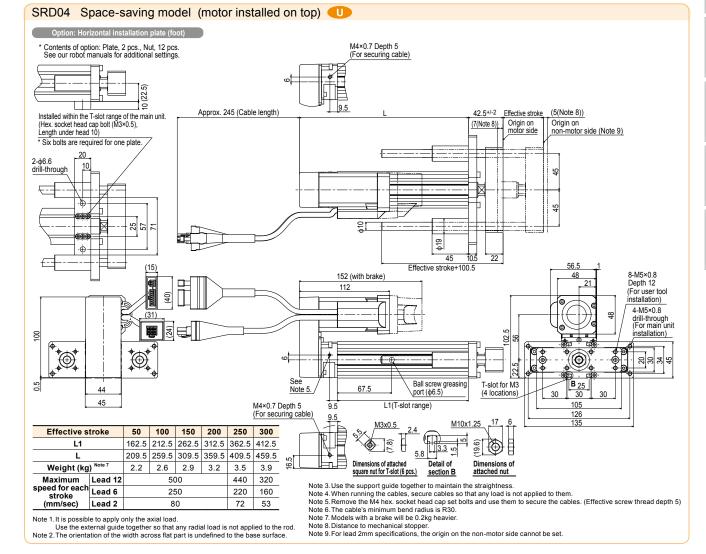
100 150 200 250 300

162.5 212.5 262.5 312.5

500

250

80



Rod type

CE compliance

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

N: With no brake

B: With brake

■ Ordering method

SR05 Lead : 12mm S: Straight model R: Space-saving model Note 1 (motor installed on right) : Space-saving model Not (motor installed on left)

Note 1. See P.153 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 ca	ble is flexible a	and resists	bending.

Stroke

(50mm pitch)

50 to 300

Note 5. See P.522 for DIN rail mounting bracket.

Note 6. Select this selection when using the gateway function. For details, see P.66.

S2 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 mechanism		Ball screw ф12		
Ball screw lead (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 backlash (°)		+/-1.0		
Overall length	Horizontal		Stroke+27	3
(mm)	Vertical		Stroke+316	3
Maximum outside dimension of body cross-section (mm)		W56.4 × H71		
Cable length (m)		Standard: 1 / Option: 3, 5, 10		

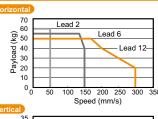
Note 1. The maximum speed needs to be changed in accordance with the payload.

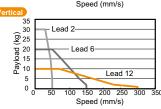
See the "Speed vs. payload" graph shown on the right. For details, see P. 152.

Speed vs. payload

Origin position Note 2

N: Standard Note 3
Z: Non-motor side





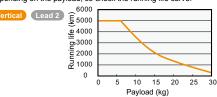
Running life

5000 km on models other than shown below.

SR05-S

Cable length N

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

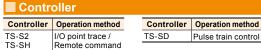


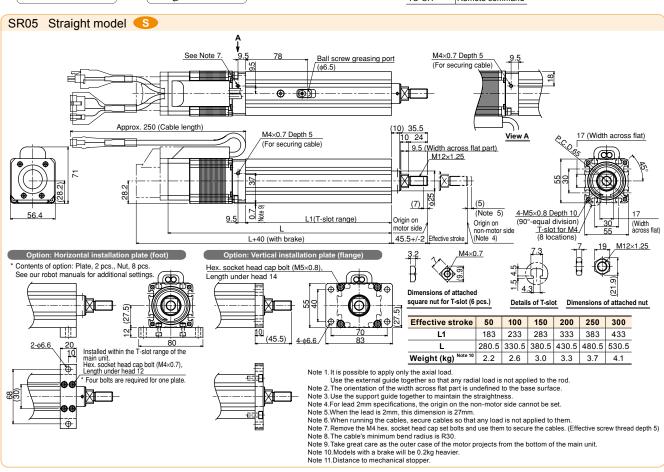
Motor installation (Space-saving model)

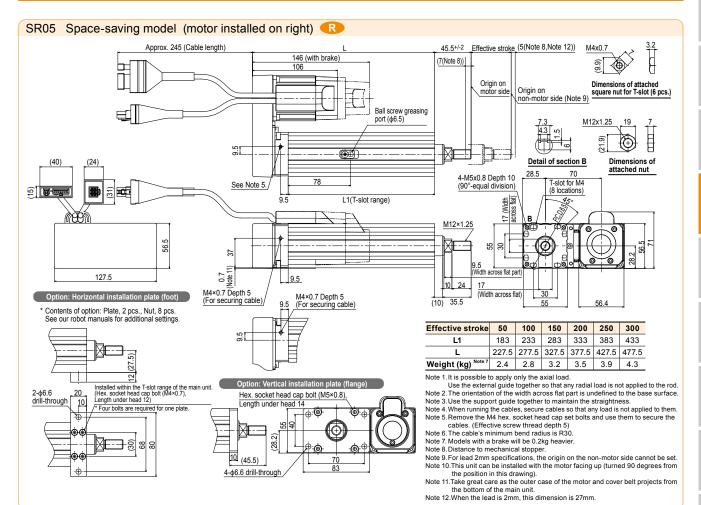


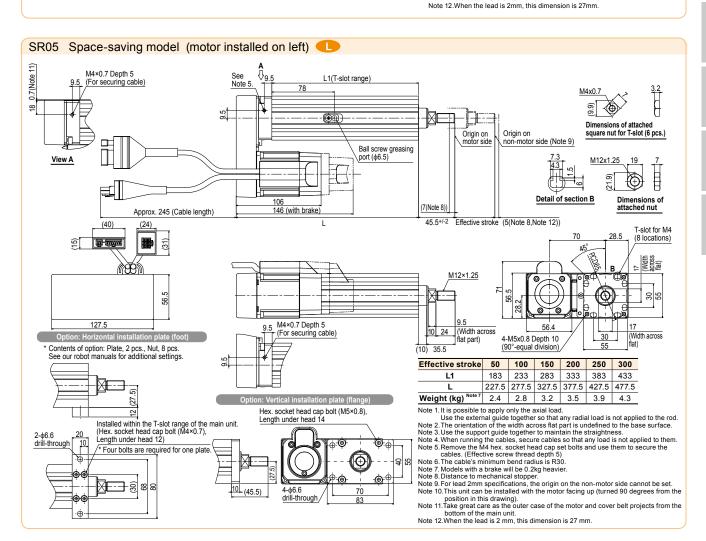


Note. See P.153 for running life distance to life time conversion example.









Rod type (With support guide)

CE compliance

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

■ Ordering method

SRD05 S: Straight model
U: Space-saving n N: With no brake 12mm aving model (motor installed on top)

Note 1. See P.153 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.522 for DIN rail mounting bracket.

Note 6. Select this selection when using the gateway function. For details, see P.66.

S2 PN: PNF GW: No I/O board^{Not} SH : With batter PN: PNF (Absolute) (Incremental) SD

SRD05-U

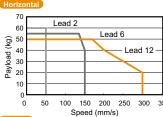
Basic specifications

	Joonnout			
Motor		56 Step motor		
Resolution (Pulse/rotation)		20480		
Repeatability (mm)		+/-0.02		
Deceleration mechanism		Ball screw φ12		
Ball screw lead (mm)		12	6	2
Maximum speed Note 1 (mm/sec)		300	150	50
Maximum	Horizontal	50	55	60
payload (kg)	Vertical	8.5	18.5	28.5
Max. pressing force (N)		250	550	900
Stroke (mm)		50 to 300 (50pitch)		
Lost motion		0.1mm or less		
Rotating backlash (°)		+/-0.05		
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. 152.

Speed vs. payload

N: Standard Note 3
Z: Non-motor side



Lead 2 25 <u>\$</u> 20 Payload (Lead 6 15 5 Lead 12 00 150 200 50 250 300

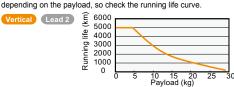
Speed (mm/s)

Effective stroke+107

Running life

SRD05-S

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



Note. See P.153 for running life distance to life time conversion example.

Controller

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

Controller Operation method Pulse train control

