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) Vertical

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

Rotating backlash (°)
Overall length Horizontal

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

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

Cable length (m)

Maximum payload (kg)

SR04 : 12mm S: Straight model

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.

R: Space-saving model Note 1 (motor installed on right) : Space-saving model Not (motor installed on left)

Note 1. See P.255 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

N: With no brake N: Standard Note 3
Z: Non-motor side B: With brake

H: With plate V: With flange

Lead 12

500 600

200 300 400 Speed (mm/s)

Stroke 50 to 300 (50mm pitch) SR04-S

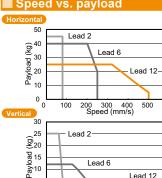
**S2** 

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.

#### Speed vs. payload

5



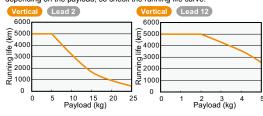
500 600

GW: No I/O board<sup>b</sup> SH : With batte PN: PNP CC: CC-Lin (Absolute) (Incremental) SD

PN: PNP

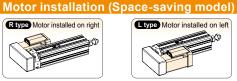
#### Running life

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 example

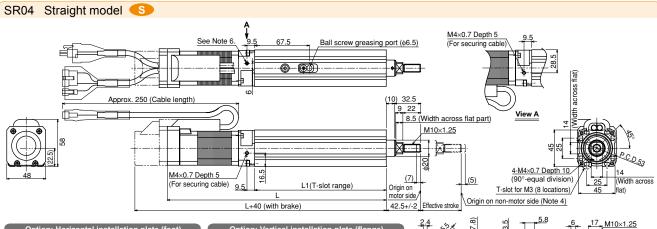
# R type Motor installed on right

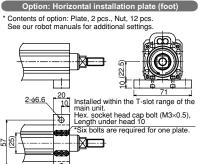


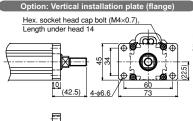
Controller	Operation method			
TS-S2	I/O point trace /			
TS-SH	Remote command			

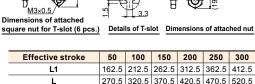
	Controller	Operation method
TS-SD Pulse train contr	TS-SD	Pulse train control

**©** 









Effective s	troke	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
speed for each stroke	Lead 12	500				440	320
	Lead 6	250				220	160
	Lead 2	80				72	53

Note 1. It is possible to apply only the axial

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.

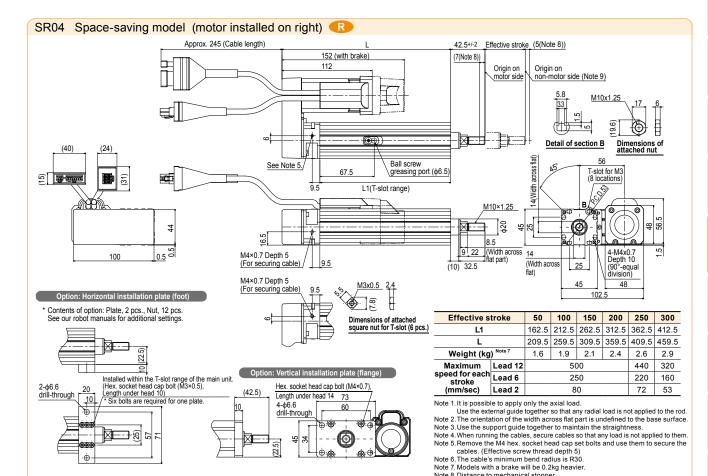
Note 5. When running the cables, secure cables so that any load is not applied to them.

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

