

CE compliance

Origin at non-motor side: Lead 6, 12

Ordering method

SR04

: 12mm

S: Straight model R: Space-saving model Note 3 (motor installed on right) Space-saving model Not (motor installed on left)

N: With no brake B: With brake

N: Standard Z: Non-motor side

Stroke 50 to 300 (50mm pitch)

SR04-S

NP: NPN PN: PNP CC-Link SD 1

I/O cable

I/O

SR04-R

Note 1. When "2mm lead" is selected, the origin position cannot be changed (to non-motor side).
Note 2. The robot cable is flexible and resists bending.
Note 3. See P.61 for grease gun nozzles

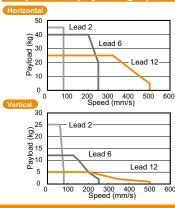
Note 4. See P.404 for DIN rail mounting bracket.

Basic specifications

Motor	42 Step motor						
Repeatability (+/-0.02						
Deceleration n	Ball sc	Ball screw \$10					
Deceleration	(Class	(Class C10)					
Ball screw lead	12	6	2				
Maximum speed 1	Maximum speed Note 1 (mm/sec)			80			
Maximum	Horizontal	25	40	45			
payload (kg)	Vertical	5	12	25			
Max. pressing	150	300	600				
Stroke (mm)	50 to 300 (50pitch)						
Lost motion	0.1mm or less						
Rotating backl	+/-1.0						
Overall length	Horizontal	Stroke+263					
(mm)	Vertical	Stroke+303					
Maximum outsid of body cross-se	W48 × H58						
Cable length (r	Standard: 1 / Option: 3, 5, 10						

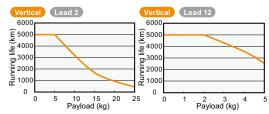
Maximum speed varies with the payload. Maximum speed also decreases due to ball screw critical speed when the stroke is long. For more details, refer to the "Speed – payload" graphs on the right or the maximum speed shown in the lower right table.

Speed vs. payload graph



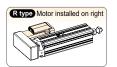
Running life

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.61 for running life distance to life time conversion example.

Motor installation (Space-saving model)





M4×0.7 Depth 5

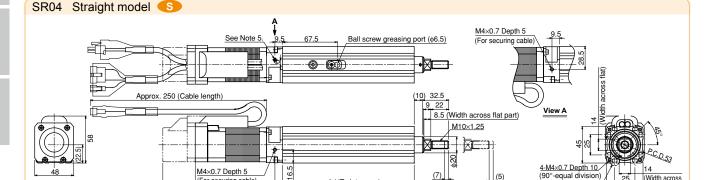
(For securing cable)

9.5

■ Controller

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

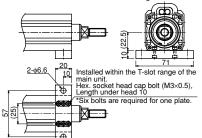
Controller	Operation method
TS-SD	Pulse train control



L1(T-slot range)

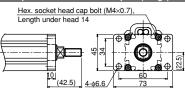
Option: Horizontal installation plate (foot)

* Contents of option: Plate, 2 pcs., Nut, 12 pcs See our robot manuals for additional settings



Option: Vertical installation plate (flange)

L+40 (with brake)





◈

(5)



(7)

Origin on

motor side

42.5±2



Origin on non-motor side

T-slot for M3 (8 locations)

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

(Width across

M10×1.25

6

Effective s	Effective stroke		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	Weight (kg) Note 8		1.7	1.9	2.2	2.4	2.7
Maximum speed for each stroke Note 4 (mm/sec)	Lead 12	500				440	320
	Lead 6	250				220	160
	Lead 2	80			72	53	

Note1. 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.

Note2. The orientation of the width across flat part is undefined to the base surface.

surface.

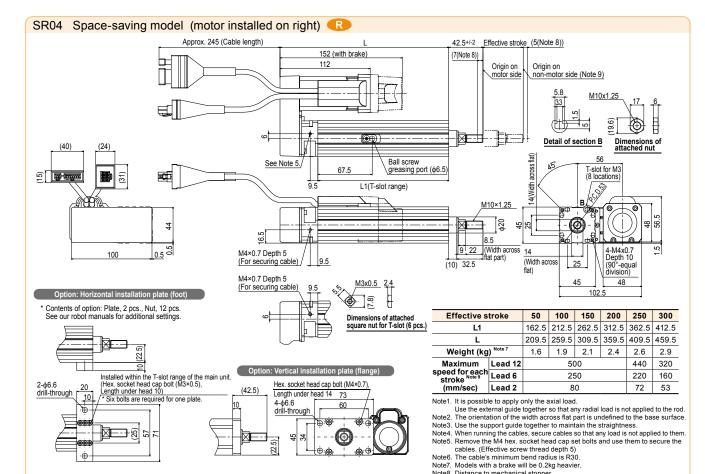
Note3. Use the support guide together to maintain the straightness.

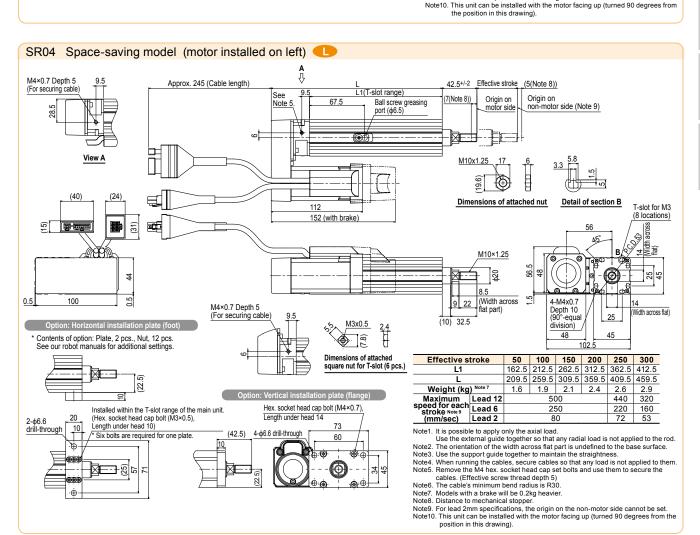
Note4. For lead 2mm specifications, the origin on the non-motor side cannot be set.

Note5. When running the cables, secure cables so that any load is not applied to them.

Note6. Remove the M4 hex, socket head cap set Foliand use them to secure

the cables. (Effective screw thread depth 5) Note7. The cable's minimum bend radius is R30. Note8. Models with a brake will be 0.2kg heavier. Note9. Distance to mechanical stopper.





Note8. Distance to mechanical stopper

Note9. For lead 2mm specifications, the origin on the non-motor side cannot be set.