

SRD05

Rod type (With support guide)

CE compliance

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



Ordering method

SRD05

Model	Lead	Model	Brake	Origin position	Bracket plate	Stroke	Cable length
	12: 12mm 06: 6mm 02: 2mm	S: Straight model U: Space-saving model (motor installed on top)	N: With no brake B: With brake	N: Standard Z: Non-motor side	N: No plate H: With plate	50 to 300 (50mm pitch)	1K: 1m 3K: 3m 5K: 5m 10K: 10m

S2
Robot positioner
S2: TS-S2

I/O
NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board

SH
Robot positioner
SH: TS-SH

I/O
NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board

Battery
B: With battery (Absolute) N: None (Incremental)

SD
Robot driver
SD: TS-SD

1
I/O cable t: 1m

Note 1. See P.337 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.

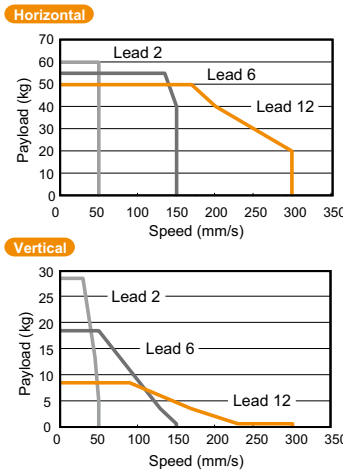
Note 4. The robot cable is flexible and resists bending.
Note 5. See P.600 for DIN rail mounting bracket.
Note 6. Select this selection when using the gateway function.

Basic specifications

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 (mm/sec)	300 150 50
Maximum payload (kg)	Horizontal 50 55 60 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 (mm)	Horizontal Stroke+276 Vertical Stroke+316
Maximum outside dimension of body cross-section (mm)	W56.4 × H71
Cable length (m)	Standard: 1 / Option: 3, 5, 10

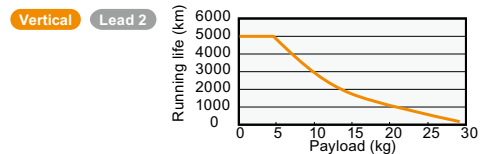
Note 1. The maximum speed needs to be changed in accordance with the payload.
See the "Speed vs. payload" graph shown on the right.
For details, see P. 336.

Speed vs. payload



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.

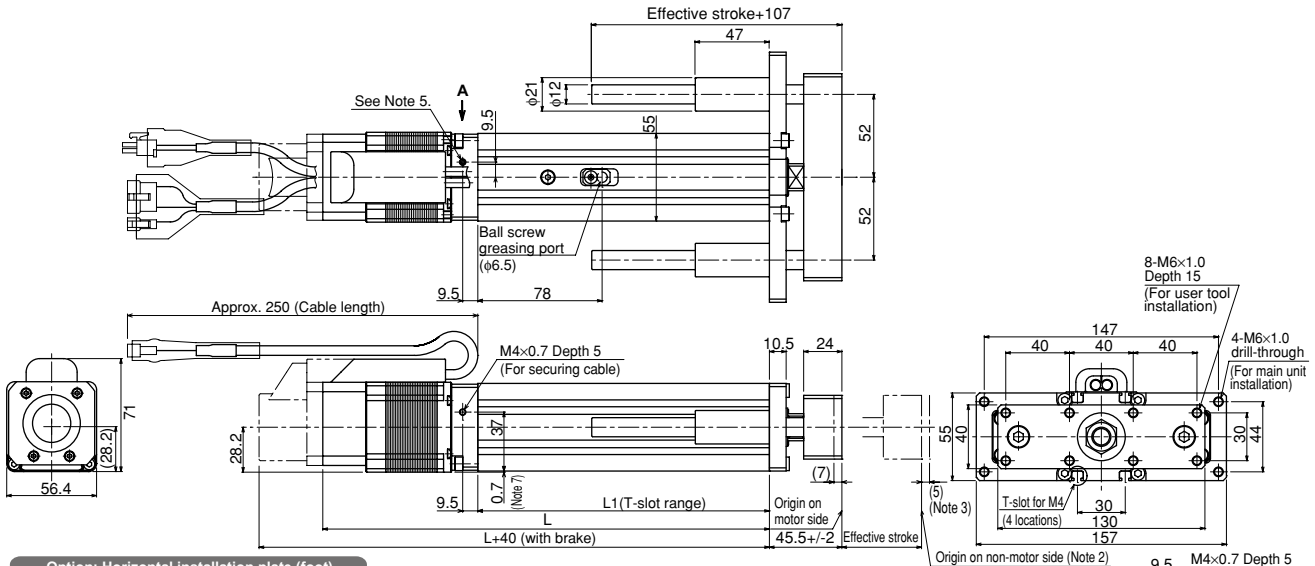


Note. See P.337 for running life distance to life time conversion example.

Controller

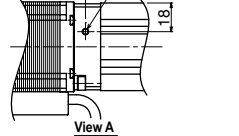
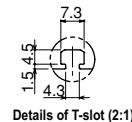
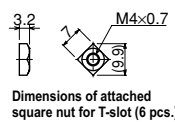
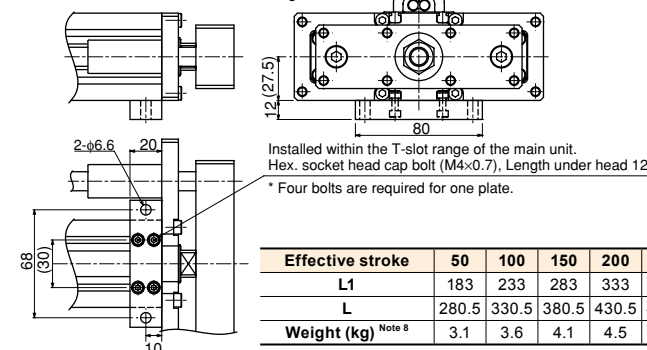
Controller	Operation method	Controller	Operation method
TS-S2	I/O point trace / Remote command	TS-SD	Pulse train control

SRD05 Straight model S



Option: Horizontal installation plate (foot)

* Contents of option: Plate, 2 pcs., Nut, 8 pcs.
See our robot manuals for additional settings.



Note 1. It is possible to apply only the axial load.
Note 2. Use the external guide together so that any radial load is not applied to the rod.
Note 3. For lead 2mm specifications, the origin on the non-motor side cannot be set.
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. Take great care as the outer case of the motor projects from the bottom of the main unit.
Note 8. Models with a brake will be 0.2kg heavier.
Note 9. Distance to mechanical stopper.

Effective stroke	50	100	150	200	250	300
L1	183	233	283	333	383	433
L	280.5	330.5	380.5	430.5	480.5	530.5
Weight (kg)	3.1	3.6	4.1	4.5	5.0	5.5

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 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.
Note 2. The orientation of the width across flat part is undefined to the base surface.	Note 9. For lead 2mm specifications, the origin on the non-motor side cannot be set.
Note 3. Use the support guide together to maintain the straightness.	Note 10. Take great care as the outer case of the cover belt projects from the bottom of the main unit.
Note 4. When running the cables, secure cables so that any load is not applied to them.	Note 11. When the lead is 2 mm, this dimension is 27 mm.
Note 5. Remove the M4 hex. socket head cap set bolts and use them to secure the cables. (Effective screw thread depth 5)	