SRD05  Rod type (With support guide)

Ordering method

SRD05

Model | Lead | Brake | Stroke (mm) | Motor-less single-axis robots
---|---|---|---|---
SRD05-S | L5 | 250 | 50 to 300 (100pt) | TRANSERVO
SRD05-U | L10 | 550 | 50 to 900 (200pt) | Motor-less single-axis robots

Basic specifications

Motor: 56 Step motor
Resolution (Pulse/rotation): 20480
Repeatability (mm): +/-0.02
Deceleration mechanism: Ball screw Ø12
Ball screw lead (mm): 12 6 2
Maximum speed (mm/sec): 300 150 50
Maximum payload (kg): 50 55 60
Max. pressing force (N): 126 18 28 5

Basic specifications

Motor: SRD05

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 1. It is possible to apply only the axial load.
Note 2. For lead 2mm specifications, the origin on the non-motor side cannot be set.
Note 3. When the lead is 2mm, this dimension is 27mm.
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.
Note 6. The robot cable is flexible and resists bending.
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.

Controller

Controller | Operation method:
---|---
TS-S2 | I/O point trace / Remote command
TS-SH | 1.5inch display
TS-SD | Pulse train control

Dimensions of attached square nut for T-slot (5 pcs.)

Installation

Installed within the T-slot range of the main unit. Hex. socket head cap bolt (M4-0.7). Length under head 12

* Four bolts are required for one plate.

Effective stroke

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
SRD05 Space-saving model (motor installed on top) U

Approx. 245 (Cable length)

M4×0.7 Depth 5 (For securing cable)

View A

Effective stroke 50 100 150 200 250 300

L 183 233 283 333 383 433

Weight (kg) 3.3 3.8 4.3 4.7 5.2 5.7

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.

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.

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

Note 10. Take great care as the outer case of the cover belt projects from the bottom of the main unit.

Note 11. When the lead is 2 mm, this dimension is 27 mm.

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

* Option: Horizontal installation plate (foot)

2-φ6.5 drill-through

Installed within the T-slot range of the main unit.
(Hex. socket head cap bolt (M4×0.7), Length under head 12)

Four bolts are required for one plate.

Dimensions of attached square nut for T-slot (4 pcs.)

Motor-less single axis actuator

Compact single-axis robots

TRANSERVO

Motor-less single axis actuator

Robonity

Single-axis robots

FLIP-X

Linear motor single-axis robots

PHASER

Cartesian robots

XY-X

SCARA robots

YK-X

Pick & place robots

YP-X

CLEAN CONTROLLER INFORMATION