

SSC05H

Slider type



- High lead: Lead 20
- CE compliance
- Origin on the non-motor side is selectable

Ordering method

SSC05H - **S** - [] - [] - [] - [] - [] - [] - [] - [] - [] - []

| Model | Lead | Type | Brake | Direction of air coupler installation | Origin position | Stroke | Cable length | S2 | I/O | SH | Battery | SD | I/O cable |
|-------|--------------------------------|-------------|-----------------------------------|---------------------------------------|----------------------------------|------------------------|--|-------------------------------|---|-----------|---|---------------------------|------------|
| | 20: 20mm 12: 12mm 6: 6mm | S: Straight | N: With no brake B: With brake | N: Right (Standard) L: Left | N: Standard Z: Non-motor side | 50 to 800 (50mm pitch) | 1L: 1m 3L: 3m 5L: 5m 10L: 10m | Robot positioner S2: TS-S2 | NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board | SH: TS-SH | B: With battery (Absolute) N: None (Incremental) | Robot driver SD: TS-SD | 1 1: 1m |

Note 1. Only the model with a lead of 12mm or 6mm can select specifications with brake.
 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.
 Note 3. The robot cable is flexible and resists bending.
 Note 4. See P.634 for DIN rail mounting bracket.
 Note 5. Select this selection when using the gateway function. For details, see P.96.

Basic specifications

| | | |
|--|--------------------------------|--------------|
| Motor | 42 □ Step motor | |
| Repeatability | +/-0.02 | |
| Deceleration mechanism | Ball screw φ12 | |
| Maximum motor torque (N·m) | 0.47 | |
| Ball screw lead (mm) | 20 | 12 6 |
| Maximum speed (mm/sec) | Horizontal | 1000 600 300 |
| | Vertical | - 500 250 |
| Maximum payload (kg) | Horizontal | - 6 8 12 |
| | Vertical | - 2 4 |
| Max. pressing force (N) | 36 | 60 120 |
| Stroke (mm) | 50 to 800 (50mm pitch) | |
| Overall length (mm) | Horizontal | Stroke+286 |
| | Vertical | Stroke+306 |
| Maximum outside dimension of body cross-section (mm) | W55 × H56 | |
| Cable length (m) | Standard: 1 / Option: 3, 5, 10 | |
| Degree of cleanliness | CLASS 10 | |
| Intake air (Nl/min) | Lead 20 | Lead 12 |
| | 80 | 50 |
| | 30 | 30 |

Note 1. Positioning repeatability in one direction.
 Note 2. When the stroke is longer than 650mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.
 Note 3. Per 1cf (0.1µm base), when suction blower is used.

Allowable overhang

| Lead | A | B | C |
|---------|----------|---------|-----|
| Lead 20 | 2kg 599 | 225 148 | 291 |
| Lead 12 | 4kg 366 | 109 148 | |
| Lead 6 | 6kg 352 | 71 104 | |
| Lead 12 | 4kg 500 | 118 179 | |
| Lead 6 | 6kg 399 | 79 118 | |
| Lead 6 | 8kg 403 | 56 88 | |
| Lead 6 | 6kg 573 | 83 136 | |
| Lead 6 | 8kg 480 | 61 100 | |
| Lead 6 | 10kg 442 | 47 78 | |
| Lead 6 | 12kg 465 | 39 64 | |

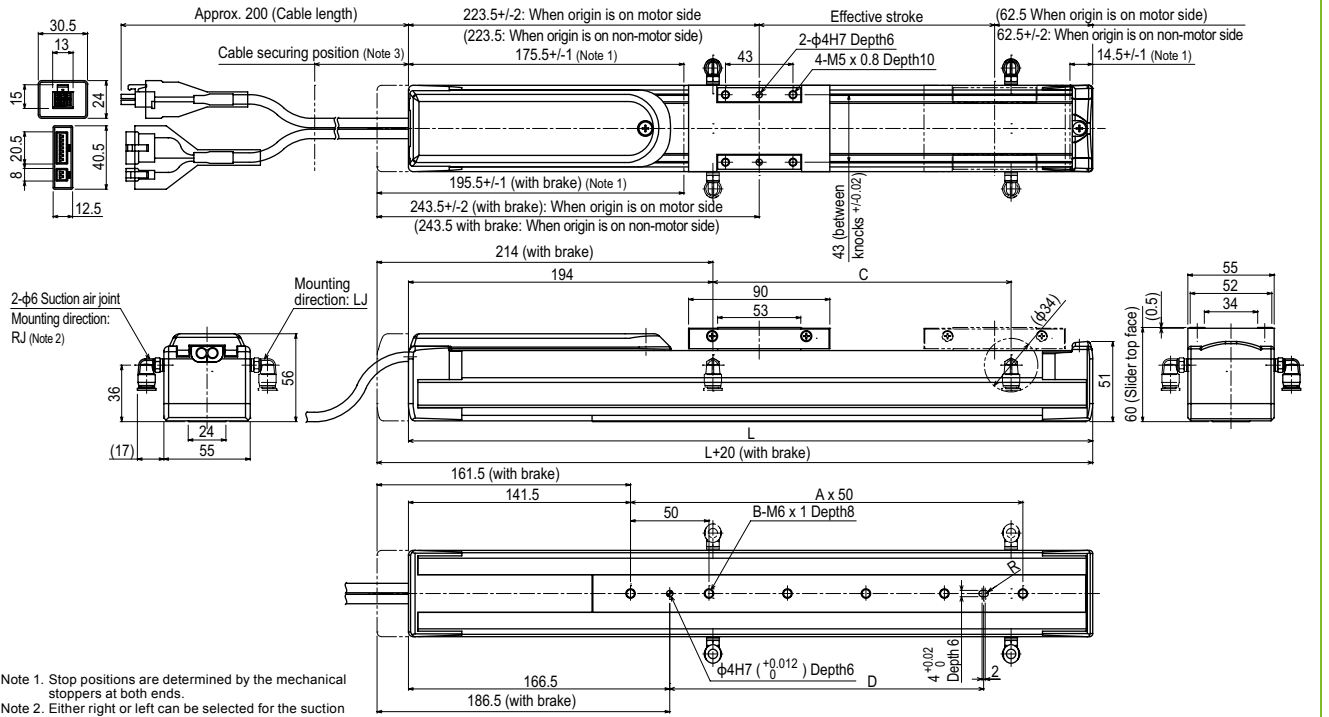
| Lead | A | B | C |
|---------|---------|---------|---|
| Lead 20 | 2kg 262 | 203 554 | |
| Lead 12 | 4kg 118 | 88 309 | |
| Lead 6 | 6kg 71 | 49 262 | |
| Lead 12 | 4kg 146 | 96 449 | |
| Lead 6 | 6kg 85 | 55 334 | |
| Lead 6 | 8kg 55 | 34 305 | |
| Lead 6 | 6kg 101 | 62 519 | |
| Lead 6 | 8kg 64 | 39 413 | |
| Lead 6 | 10kg 43 | 26 355 | |
| Lead 6 | 12kg 28 | 17 338 | |

| Lead | A | C |
|---------|---------|-----|
| Lead 12 | 1kg 458 | 459 |
| Lead 6 | 2kg 224 | 224 |
| Lead 6 | 2kg 244 | 245 |
| Lead 6 | 4kg 113 | 113 |

| MY | MP | MR |
|----|----|----|
| 32 | 38 | 34 |

Note. Distance from center of slider upper surface to conveyor center-of-gravity at a guide service life of 10,000 km (Service life is calculated for 600mm stroke models).

SSC05H



Note 1. Stop positions are determined by the mechanical stoppers at both ends.
 Note 2. Either right or left can be selected for the suction air joint mounting direction. This drawing shows the RJ (standard) direction.
 Note 3. Secure the cable with a tie-band 100mm or less from unit's end face to prevent the cable from being subjected to excessive loads.
 Note 4. The cable's minimum bend radius is R30.
 Note 5. These are the weights without a brake. The weights are 0.2kg heavier when equipped with a brake.
 Note 6. When the stroke is longer than 650mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

| Effective stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|--|----------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| L | 336 | 386 | 436 | 486 | 536 | 586 | 636 | 686 | 736 | 786 | 836 | 886 | 936 | 986 | 1036 | 1086 |
| A | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| B | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| C | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
| Weight (kg) | 2.4 | 2.6 | 2.8 | 3.0 | 3.2 | 3.4 | 3.6 | 3.8 | 4.0 | 4.2 | 4.4 | 4.5 | 4.7 | 4.9 | 5.1 | 5.3 |
| Maximum speed for each stroke (mm/sec) | Lead 20 | 1000 | | | | | | | | | | | | | | |
| | Lead 12 (Horizontal) | 600 | | | | | | | | | | | | | | |
| | Lead 12 (Vertical) | 500 | | | | | | | | | | | | | | |
| | Lead 6 (Horizontal) | 300 | | | | | | | | | | | | | | |
| Lead 6 (Vertical) | 250 | | | | | | | | | | | | | | | |

Controller

TS-S2 ▶ 626 TS-SH ▶ 626 TS-SD ▶ 636