

C17L

● Origin at non-motor side



Ordering method

| C17L - 50 | | | | | | SR1-X | 20 | | R | | |
|-----------|------|---|--|-------------------------------|---|---------------------------------|-------------------------------|-------------------------------------|---------------------------------|---|--|
| Model | Lead | Brake | Option | Stroke | Cable length ^{Note 1} | Controller | Driver | Usable for CE | Regenerative unit | Input/Output selection | Battery |
| | | No entry: With no brake BK: With brake | Origin position None: Standard Z: Non-motor side | 1150 to 2050 (100mm pitch) | 3L: 3.5m (Standard) 5L: 5m 10L: 10m | SR1-X TS-X ^{Note 2} | 20: 400 to 600W 220 (TS-X) | No entry: Standard E: CE marking | R: RG1 (SR1-X) R: RGT (TS-X) | N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profibus YC: YC-Link ^{Note 3} | No entry: None (Incremental specification) B: With battery (Absolute specification) |

Note 1. The robot cable is a standard cable and may be changed to a flex-resistant type. (consult factory)
 Note 2. To find TS-X selection options, see the ordering method listed on each controller's page.
 Note 3. Available only for the SR1-X slave.

Basic specifications

| | | |
|--|-------------------------------|------------|
| AC servo motor output (W) | 600 | |
| Repeatability ^{Note 1} (mm) | +/- 0.02 | |
| Deceleration mechanism | Ball screw (Class C10) | |
| Ball screw lead (mm) | 50 | |
| Maximum speed ^{Note 2} (mm/sec) | 1000 | |
| Maximum payload (kg) | Horizontal | 50 |
| | Vertical | 10 |
| Rated thrust (N) | 204 | |
| Stroke (mm) | 1150 to 2050 (100 pitch) | |
| Overall length (mm) | Horizontal | Stroke+485 |
| | Vertical | Stroke+515 |
| Maximum outside dimension of body cross-section (mm) | W168 x H114 | |
| Cable length (m) | Standard: 3.5 / Option: 5, 10 | |
| Degree of cleanliness | CLASS 10 ^{Note 3} | |
| Intake air (Nℓ/min) | 30 to 90 ^{Note 4} | |

Note 1. Positioning repeatability in one direction.
 Note 2. When the stroke is longer than 1850mm, 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.
 Note 4. The necessary intake amount varies depending on the use conditions and environment.

Allowable overhang^{Note}

| Horizontal installation (Unit: mm) | | | | Wall installation (Unit: mm) | | | | Vertical installation (Unit: mm) | | |
|------------------------------------|------|------|------|------------------------------|------|------|------|----------------------------------|------|------|
| Lead 50 | A | B | C | Lead 50 | A | B | C | Lead 50 | A | C |
| 10kg | 4000 | 2687 | 3327 | 10kg | 3436 | 2605 | 4000 | 2kg | 1200 | 1200 |
| 30kg | 3045 | 872 | 929 | 30kg | 1169 | 790 | 3045 | 5kg | 3000 | 3000 |
| 50kg | 2602 | 509 | 714 | 50kg | 666 | 427 | 2602 | 10kg | 2579 | 2579 |

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

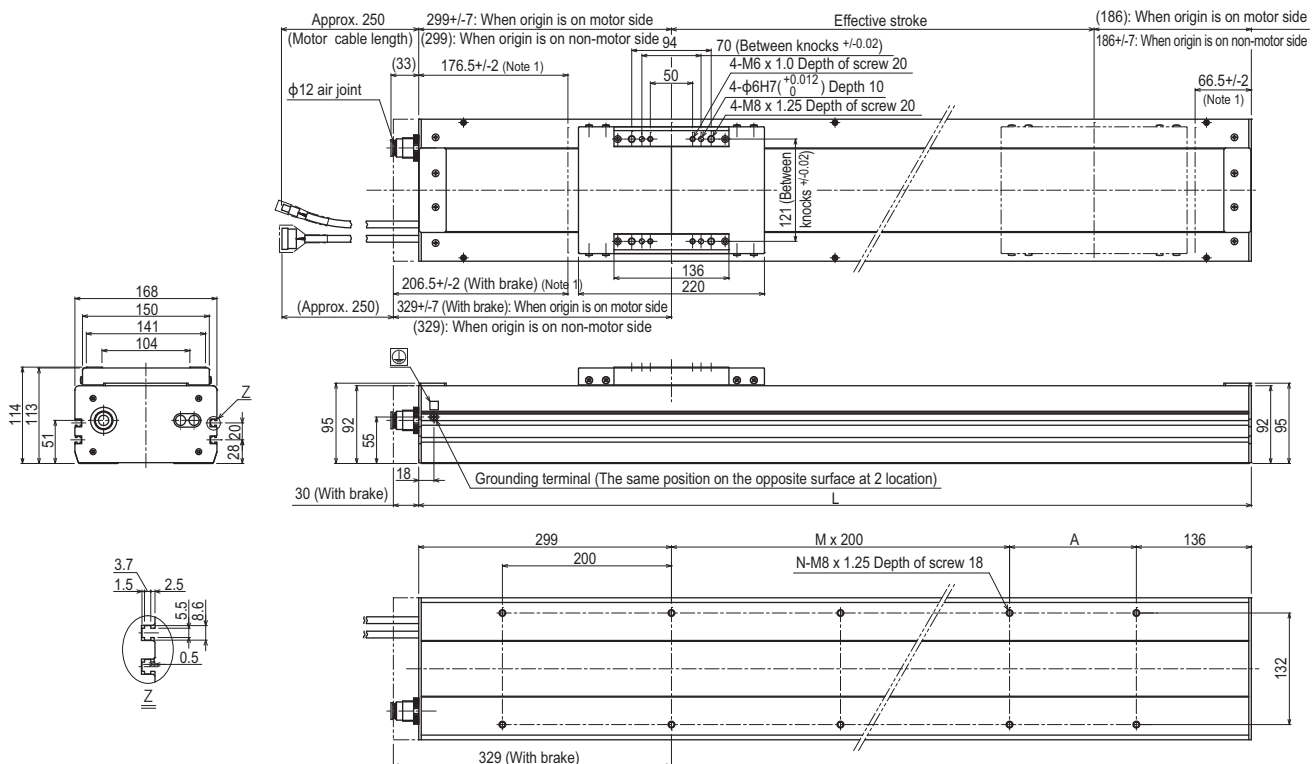
Static loading moment

| MY | MP | MR |
|------|------|-----|
| 1032 | 1034 | 908 |

Controller

| Controller | Operation method |
|------------|--|
| SR1-X-20-R | Programming / I/O point trace (BCD) / Remote command / Operation using RS-232C communication |
| TS-X220-R | I/O point trace (BCD) |

C17L



| Effective stroke | 1150 | 1250 | 1350 | 1450 | 1550 | 1650 | 1750 | 1850 | 1950 | 2050 |
|--|---------------|------|------|------|------|------|------|------|------|------|
| L | 1635 | 1735 | 1835 | 1935 | 2035 | 2135 | 2235 | 2335 | 2435 | 2535 |
| A | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 |
| M | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 |
| N | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 |
| Weight (kg) ^{Note 3} | 39.1 | 41.2 | 43.2 | 45.2 | 47.3 | 49.3 | 51.3 | 53.4 | 55.4 | 57.4 |
| Maximum speed (mm/sec) ^{Note 4} | Lead 50 | | 1000 | | 900 | | 800 | | | |
| | Speed setting | | - | | 90% | | 80% | | | |

Note 1. Distance from both ends to the mechanical stopper.
 Note 2. Minimum bend radius of motor cable is R50.
 Note 3. Weight of models with no brake. The weight of brake-attached models is 1.5 kg heavier than the models with no brake shown in the table.
 Note 4. When the stroke is longer than 1850mm, 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.