

# C17

Origin at non-motor side



## Ordering method

C17						SR1-X	20				
Model	Lead	Brake	Option	Stroke	Cable length <sup>Note 1</sup>	Controller	Driver	Usable for CE	Regenerative unit <sup>Note 4</sup>	Input/Output selection	Battery
	20: 20mm 10: 10mm	No entry: With no brake BK: With brake	Origin position None: Standard Z: Non-motor side	250 to 1250 (100mm pitch)	SL: 3.5m (Standard) SL: 5m 10L: 10m	SR1-X TS-X <sup>Note 2</sup>	20: 400 to 600W 220 (TS-X)	No entry: Standard E: CE marking	No entry: None R: RGT (SR1-X) R: RGT (TS-X)	N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profibus YC: YC-Link <sup>Note 4</sup>	No entry: None Incremental specification B: With battery (Absolute specification)

- The robot cable is a standard cable and may be changed to a flex-resistant type. (consult factory)
- To find TS-X selection options, see the ordering method listed on each controller's page.
- A regenerative unit is required when using SR1-X or TS-X if oriented vertically and the maximum speed exceeds 1000mm/sec.
- Available only for the SR1-X slave.

## Basic specifications

AC servo motor output (W)	400	
Repeatability <sup>Note 1</sup> (mm)	+/-0.01	
Deceleration mechanism	Ball screw (Class C7)	
Ball screw lead (mm)	20   10	
Maximum speed <sup>Note 2</sup> (mm/sec)	1000   600	
Maximum payload (kg)	Horizontal	80   120
	Vertical	15   35
Rated thrust (N)	Horizontal	339   678
	Vertical	339   678
Stroke (mm)	250 to 1250 (100mm pitch)	
Overall length (mm)	Horizontal	Stroke+395
	Vertical	Stroke+425
Maximum outside dimension of body cross-section (mm)	W168 x H114	
Cable length (m)	Standard: 3.5 / OP: 5, 10	
Degree of cleanliness	CLASS 10 <sup>Note 3</sup>	
Intake air (Nl/min)	30 to 90 <sup>Note 4</sup>	

- Note 1. Positioning repeatability in one direction.
- Note 2. When the stroke is longer than 950mm, 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 <sup>Note</sup>

Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)				
	A	B	C		A	B	C		A	C		
Lead 20	30kg	2660	871	1040	30kg	1017	789	2576	Lead 20	5kg	3000	3000
	50kg	1911	508	615	50kg	583	426	1808		10kg	2443	2443
	80kg	1541	303	377	80kg	338	221	1380		15kg	1633	1633
Lead 10	60kg	2443	418	580	60kg	525	336	2443	Lead 10	15kg	1728	1728
	100kg	2000	237	330	100kg	271	155	2000		25kg	1013	1013
	120kg	1841	192	268	120kg	207	109	1841		35kg	707	707

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

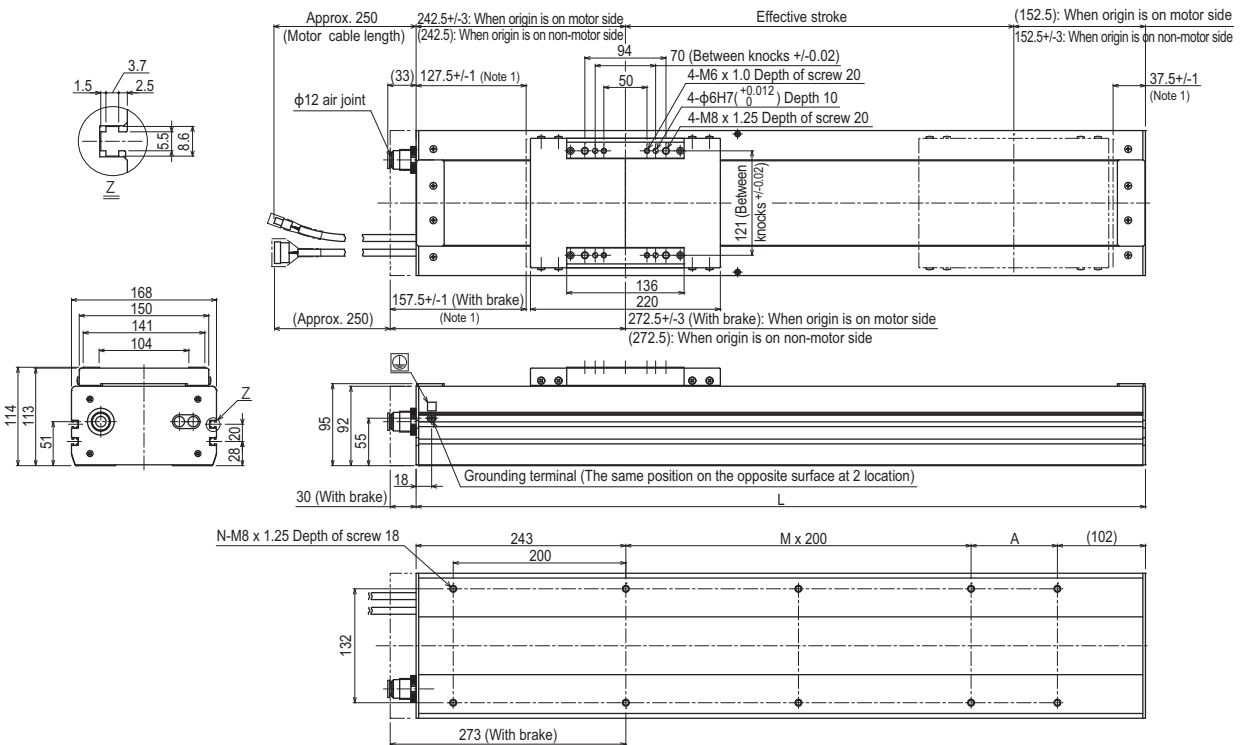
MY	MP	MR
1032	1034	908

## Controller

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

Note. Regenerative unit is required when used perpendicularly and moving at maximum speeds exceeding 1000mm/sec.

## C17



Effective stroke	250	350	450	550	650	750	850	950	1050	1150	1250	
L	645	745	845	945	1045	1145	1245	1345	1445	1545	1645	
A	100	200	100	200	100	200	100	200	100	200	100	
M	1	1	2	2	3	3	4	4	5	5	6	
N	8	8	10	10	12	12	14	14	16	16	18	
Weight (kg) <sup>Note 3</sup>	16.0	17.9	19.8	21.7	23.6	25.5	27.4	29.3	31.2	33.1	35.0	
Maximum speed <sup>Note 4</sup> (mm/sec)	Lead 20						1000					
	Lead 10						600					
	Speed setting						-	80%	70%	60%	50%	

- 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 950mm, 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.