

C20

● Origin at non-motor side



Ordering method

C20						SR1-X	20				
Model	Lead	Brake	Option	Stroke	Cable length ^{Note 1}	Controller	Driver	Usable for CE	Regenerative unit ^{Note 3}	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)	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	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 ^{Note 4}	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. A regenerative unit is required if using a SR1-X or TS-X in a vertical orientation and the maximum speed exceeds 1000mm/sec.
 Note 4. Available only for the SR1-X slave.

Basic specifications

AC servo motor output (W)	600	
Repeatability ^{Note 1} (mm)	+/-0.01	
Deceleration mechanism	Ball screw (Class C7)	
Ball screw lead (mm)	20	
Maximum speed ^{Note 2} (mm/sec)	1000	500
Maximum payload (kg)	Horizontal	120
	Vertical	25
Rated thrust (N)	Horizontal	510
	Vertical	1020
Stroke (mm)	250 to 1250 (100mm pitch)	
Overall length (mm)	Horizontal	Stroke+441
	Vertical	Stroke+471
Maximum outside dimension of body cross-section (mm)	W202 x H117	
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 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 ^{Note}

Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)			
	A	B	C		A	B	C	Lead 20	A	C	
Lead 20	50kg	2602	869	1145	50kg	1144	798	2602	15kg	2711	2711
	80kg	2193	528	720	80kg	717	456	2193	20kg	2045	2045
	120kg	1841	339	505	120kg	466	267	1841	25kg	1647	1647
Lead 10									20kg	2182	2182
									30kg	1437	1437
									45kg	939	939

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

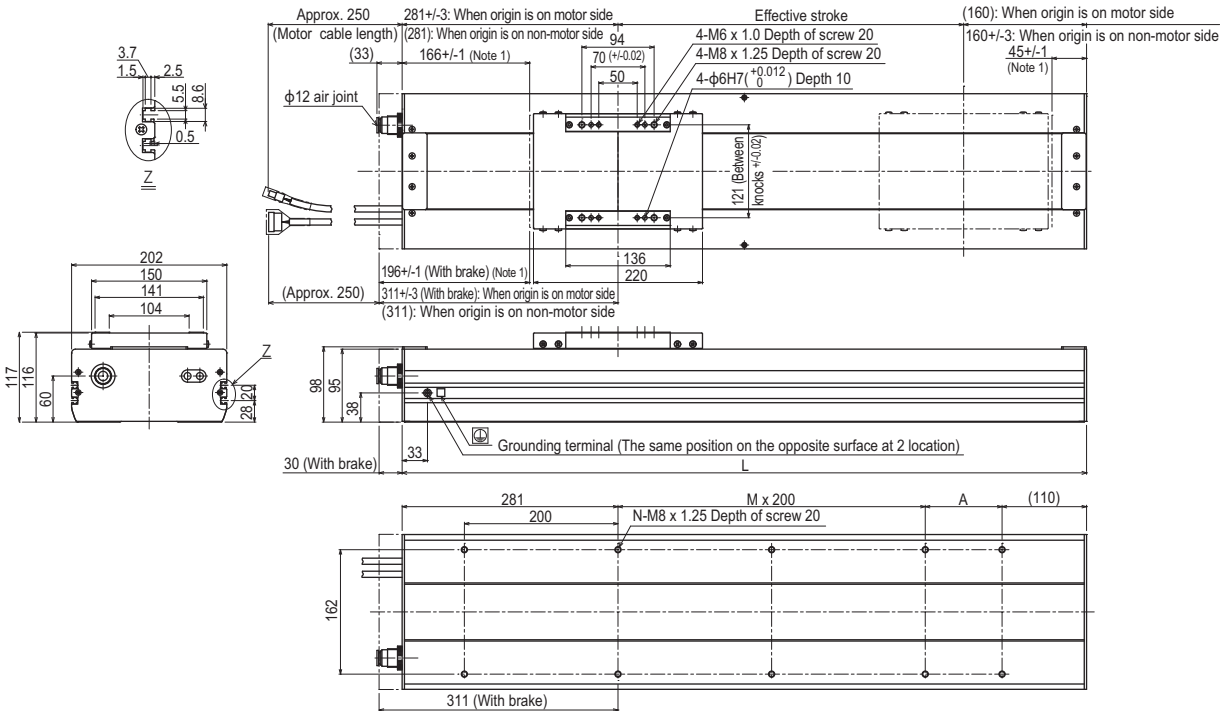
MY	MP	MR
1101	1103	968

Controller

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

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

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Effective stroke	250	350	450	550	650	750	850	950	1050	1150	1250	
	L	691	791	891	991	1091	1191	1291	1391	1491	1591	1691
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) ^{Note 3}	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	
Maximum speed ^{Note 4} (mm/sec)	Lead 20						1000					
	Lead 10						500					
	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 2.0 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.