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 change	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 RDX Note 2		20: 400 to 600W		No entry: Standard E: CE marking		No entry: None R: RG1 (SR1-X)		N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profibus YC: YC-Link Note		No entry: None (Incremental specification) B: With battery (Absolute specification)	

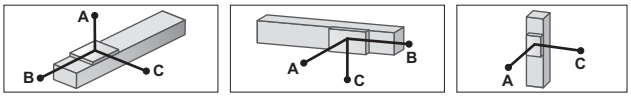
Note 1. The robot cable is a standard cable and may be changed to a flex-resistant type (except RDX). See P.423 for more information on robot cables.
Note 2. To find TS-X, RDX selection options, see the ordering method listed on each controller's page (TS-X: P.355, RDX: P.365).
Note 3. When using the SR1-X, the regenerative unit RG1 is required when using in perpendicular specifications and the maximum speed exceeds 1000mm/sec.When using RDX, a regeneration unit RBR is required regardless of installation conditions.
Note 4. Available only for the 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	10
Maximum speed Note 2 (mm/sec)		1000	500
Maximum payload (kg)	Horizontal	120	–
	Vertical	25	45
Rated thrust (N)		510	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 × 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	

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)

		A	B	C
Lead 20	50kg	2602	869	1145
	80kg	2193	528	720
	120kg	1841	339	505

Wall installation (Unit: mm)

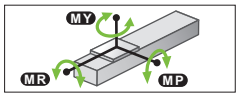
		A	B	C
Lead 20	50kg	1144	798	2602
	80kg	717	456	2193
	120kg	466	267	1841

Vertical installation (Unit: mm)

		A	C
Lead 20	15kg	2711	2711
	20kg	2045	2045
	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



(Unit: N·m)

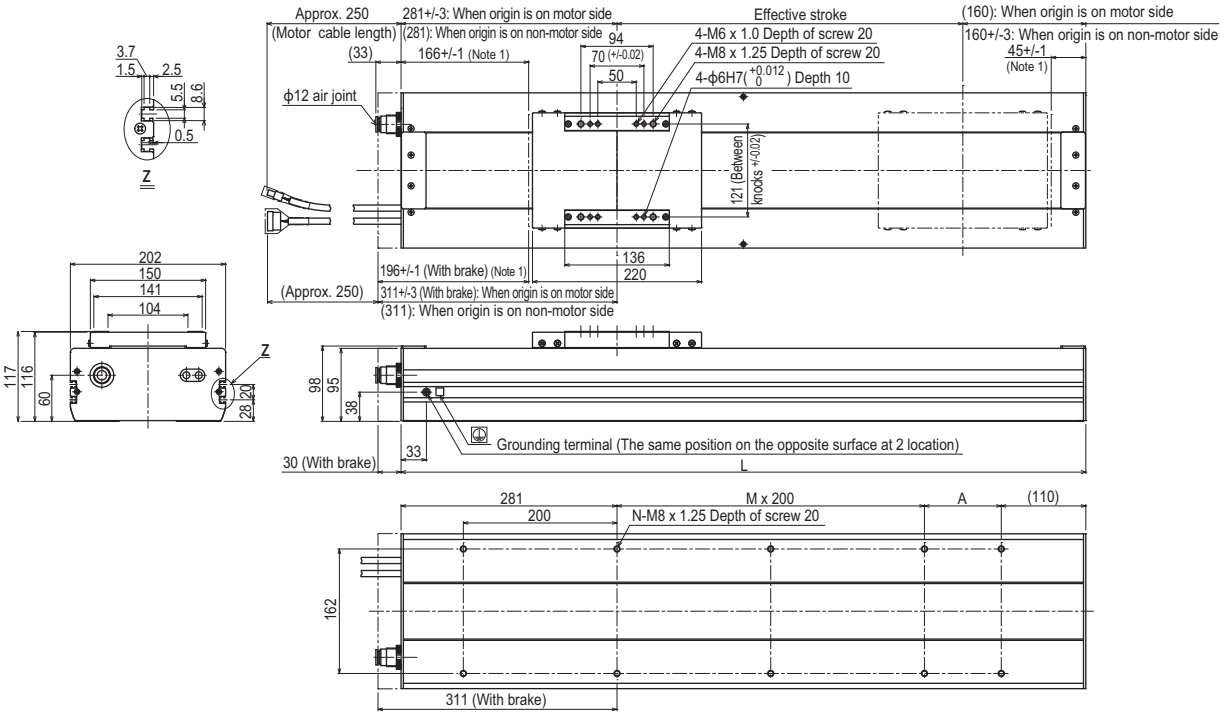
MY	MP	MR
1101	1103	968

Controller

Controller	Operation method
SR1-X-20 Note	Programming / /O point trace / Remote command / Operation using RS-232C communication
TS-X220 Note	/O point trace
RDX-20-RBR1	Pulse train control (Horizontal)
RDX-20-RBR2	Pulse train control (Vertical)

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

C20



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							800	700	600	500
	Lead 10	500							400	350	300	250
	Speed setting	–							80%	70%	60%	50%

Note1. Distance from both ends to the mechanical stopper.
Note2. Minimum bend radius of motor cable is R50.
Note3. 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.
Note4. 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.

Controller
SR1-X ▸ 377 | TS-X ▸ 354 | RDX ▸ 365