

C20

● Origin on the non-motor side is selectable



Ordering method

C20	Model	Lead Note 1 20: 20mm 10: 10mm	Brake No entry: With no brake BK: With brake	Option Origin position change None: Standard Z: Non-motor side	Stroke 200 to 1250 (50mm pitch)	Cable length Note 2 3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	TSX	220	Positioner Note 3 TS-X	Driver: Power supply voltage / Power capacity Note 4 220: 200V/400 to 600W	Regenerative unit No entry: None R: With RGT	LCD monitor No entry: None L: With LCD	I/O selection NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board ^{Note 5}	Battery B: With battery (Absolute) N: None (Incremental)
	SR1-X	20	Controller	Driver: Power capacity Note 4 20: 400 to 600W	Usable for CE No entry: Standard E: CE marking	Regenerative unit No entry: None R: With RG1	I/O selection N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	Battery B: With battery (Absolute) N: None (Incremental)						
	RDV-X	2	Driver	Power supply voltage 2: AC200V	20	Driver: Power capacity Note 4 20: 400W or less	Regenerative unit RBR1 (Horizontal) RBR2 (Vertical)							

Note 1. Only the model with specifications with brake (vertical specifications) can select a lead of 10mm.
 Note 2. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.732 for details on robot cable.
 Note 3. See P.634 for DIN rail mounting bracket.
 Note 4. Acceleration / deceleration is different depending the Positioner or Controller or Driver.
 Note 5. Select this selection when using the gateway function. For details, see P.96.

Basic specifications

AC servo motor output (W)	600
Repeatability ^{Note 1} (mm)	+/-0.01
Deceleration mechanism	Ball screw φ20
Ball screw lead (mm)	20 10
Maximum speed (mm/sec)	1000 500
Maximum payload (kg)	Horizontal 120 Vertical 25 45
Rated thrust (N)	510 1020
Stroke (mm)	200 to 1250 (50mm 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 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 (0.1um 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: cm)				Wall installation (Unit: mm)			Vertical installation (Unit: mm)	
	A	B	C		A	B	C	
Lead 20	50kg 2602	869	1145	Lead 20	50kg 1144	798	2602	Lead 20
	80kg 2193	528	720		80kg 717	456	2193	
	120kg 1841	339	505		120kg 466	267	1841	
				Lead 10				Lead 10
					15kg 2711		2711	
					20kg 2045		2045	
					25kg 1647		1647	
					20kg 2182		2182	
					30kg 1437		1437	
					45kg 939		939	

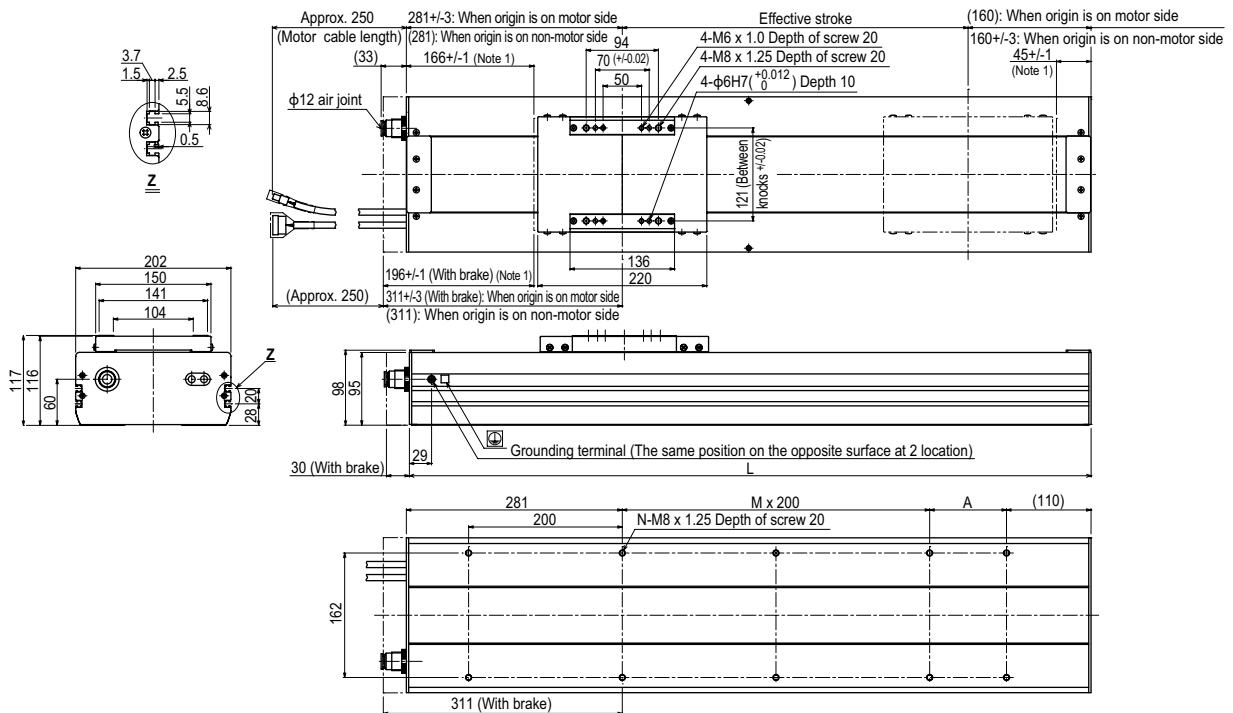
Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

Controller

Controller	Operation method
SR1-X20 ^{Note} RCX320, RCX221/222, RCX340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X220 ^{Note}	I/O point trace / Remote command
RDV-X220-RBR1 (Horizontal) RDV-X220-RBR2 (Vertical)	Pulse train control

Note. [The following arrangements require a regeneration unit.]
 • Using in the upright position.

C20



Effective stroke	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	641	691	741	791	841	891	941	991	1041	1091	1141	1191	1241	1291	1341	1391	1441	1491	1541	1591	1641	1691
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6
N	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18
Weight (kg) ^{Note 3}	25.0	26.0	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0	45.0	46.0
Maximum speed ^{Note 4} (mm/sec)	Lead 20 1000												800									
	Lead 10 500												400									
Speed setting	-												80%									

Note 1. Stop positions are determined by the mechanical stoppers at both ends.
 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.

Controller

SR1-X ▶ 652 TS-X ▶ 626 RDV-X ▶ 640