C17

Origin on the non-motor side is selectable

Ordering method

C17

Model	Lead	Brake	Option	Stroke	Cable length Note 1
	20: 20mm 10: 10mm	No entry: With no brake BK: With brake	Origin position change: None: Standard, Z: Non-motor side	200 to 1250 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)

TSX

220					
Positioner Note 2	Driver: Power-supply voltage / Power capacity	Regenerative unit	LCD monitor	I/O selection	Battery
TS-X	220: 200V/400 to 600W	No entry: None R: With RGT	No entry: None L: With LCD	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board Note 3	B: With battery (Absolute) N: None (Incremental)

SR1-X

20					
Controller	Driver: Power capacity	Usable for CE	Regenerative unit	I/O selection	Battery
	20: 400 to 600W	No entry: Standard E: CE marking	No entry: None R: With RG1	N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	B: With battery (Absolute) N: None (Incremental)

RDV-X

2	20	
Driver	Power-supply voltage	Driver: Power capacity	Regenerative unit
	2: AC200V	20: 400W or less	RBR1 (Horizontal) RBR2 (Vertical)

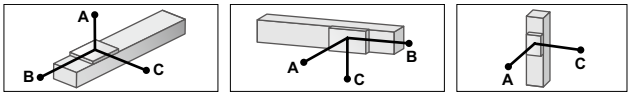
Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.692 for details on robot cable.
Note 2. See P.600 for DIN rail mounting bracket.
Note 3. Select this selection when using the gateway function.

Basic specifications

AC servo motor output (W)		400	
Repeatability Note 1 (mm)		+/-0.01	
Deceleration mechanism		Ball screw ϕ20	
Ball screw lead (mm)		20	10
Maximum speed Note 2 (mm/sec)		1000	600
Maximum payload (kg)	Horizontal	80	120
	Vertical	15	35
Rated thrust (N)		339	678
Stroke (mm)		200 to 1250 (50mm pitch)	
Overall length (mm)	Horizontal	Stroke+395	
	Vertical	Stroke+425	
Maximum outside dimension of body cross-section (mm)		W168 × H114	
Cable length (m)		Standard: 3.5 / OP: 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)

		A	B	C
Lead 20	30kg	2660	871	1040
	50kg	1911	508	615
	80kg	1541	303	377
Lead 10	60kg	2443	418	580
	100kg	2000	237	330
	120kg	1841	192	268

Wall installation (Unit: mm)

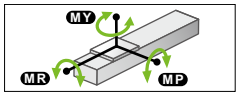
		A	B	C
Lead 20	30kg	1017	789	2576
	50kg	583	426	1808
	80kg	338	221	1380
Lead 10	60kg	525	336	2443
	100kg	271	155	2000
	120kg	207	109	1841

Vertical installation (Unit: mm)

		A	C
Lead 20	5kg	3000	3000
	10kg	2443	2443
	15kg	1633	1633
Lead 10	15kg	1728	1728
	25kg	1013	1013
	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



(Unit: N·m)

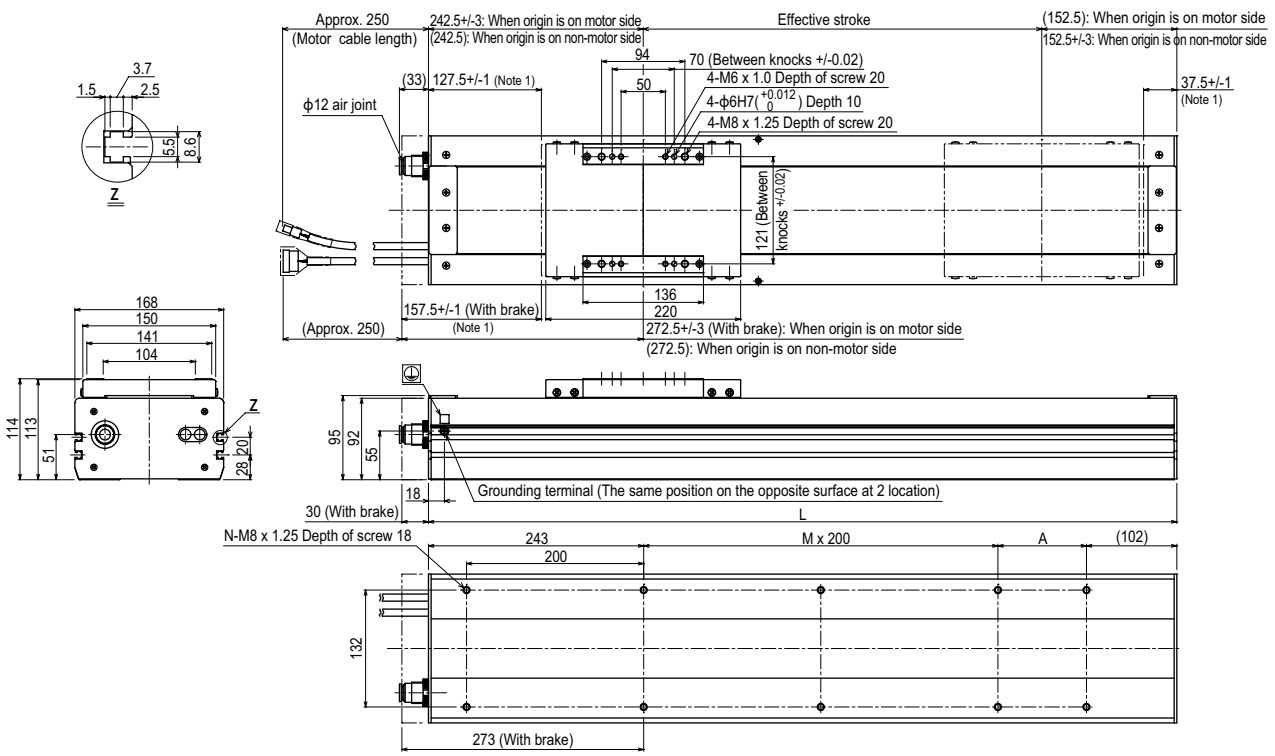
MY	MP	MR
1032	1034	908

Controller

Controller	Operation method
SR1-X20 Note RCX320, 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.

C17



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	595	645	695	745	795	845	895	945	995	1045	1095	1145	1195	1245	1295	1345	1395	1445	1495	1545	1595	1645
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	15.0	16.0	17.0	17.9	18.9	19.8	20.8	21.7	22.7	23.6	24.6	25.5	26.5	27.4	28.4	29.3	30.3	31.2	32.2	33.1	34.1	35.0
Maximum speed Note 4 (mm/sec) Lead 20	1000															800	800	700	700	600	600	500
Maximum speed Note 4 (mm/sec) Lead 10	500															400	400	350	350	300	300	250
Maximum speed Note 4 (mm/sec) Speed setting	–															80%	80%	70%	70%	60%	60%	50%

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 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.

Controller SR1-X ▸ 618 TS-X ▸ 592 RDV-X ▸ 606