

C17

Origin on the non-motor side is selectable



Ordering method

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Model	Lead	Brake	Option	Stroke	Cable length	Positioner	220	Regenerative unit	LCD monitor	I/O selection	Battery
	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)	TS-X	Driver: Power supply voltage / Power capacity 220: 200V/400 to 600W	No entry: None R: With RGT	No entry: None L: With LCD	N: NPN P: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board	N: None B: With battery (Absolute) I: None (Incremental)
SR1-X						Controller	20	Usable for CE	Regenerative unit	I/O selection	
						Driver: Power capacity 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						Driver	2		20	Regenerative unit	
						Power supply voltage 2: AC200V			Driver: Power capacity 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.614 for details on robot cable.
 Note 2. See P.522 for DIN rail mounting bracket.
 Note 3. Select this selection when using the gateway function. For details, see P.66.

Basic specifications

AC servo motor output (W)	400
Repeatability (mm)	+/-0.01
Deceleration mechanism	Ball screw ϕ 20
Ball screw lead (mm)	20 10
Maximum speed (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 x H114
Cable length (m)	Standard: 3.5 / OP: 5, 10
Degree of cleanliness	CLASS 10
Intake air (N ℓ /min)	30 to 90

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

Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)			
Lead	A	B	C	Lead	A	B	C	Lead	A	C	
20	30kg	2660	871	1040	30kg	1017	789	2576	5kg	3000	3000
10	50kg	1911	508	615	50kg	583	426	1808	10kg	2443	2443
	80kg	1541	303	377	80kg	338	221	1380	15kg	1633	1633
	60kg	2443	418	580	60kg	525	336	2443	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

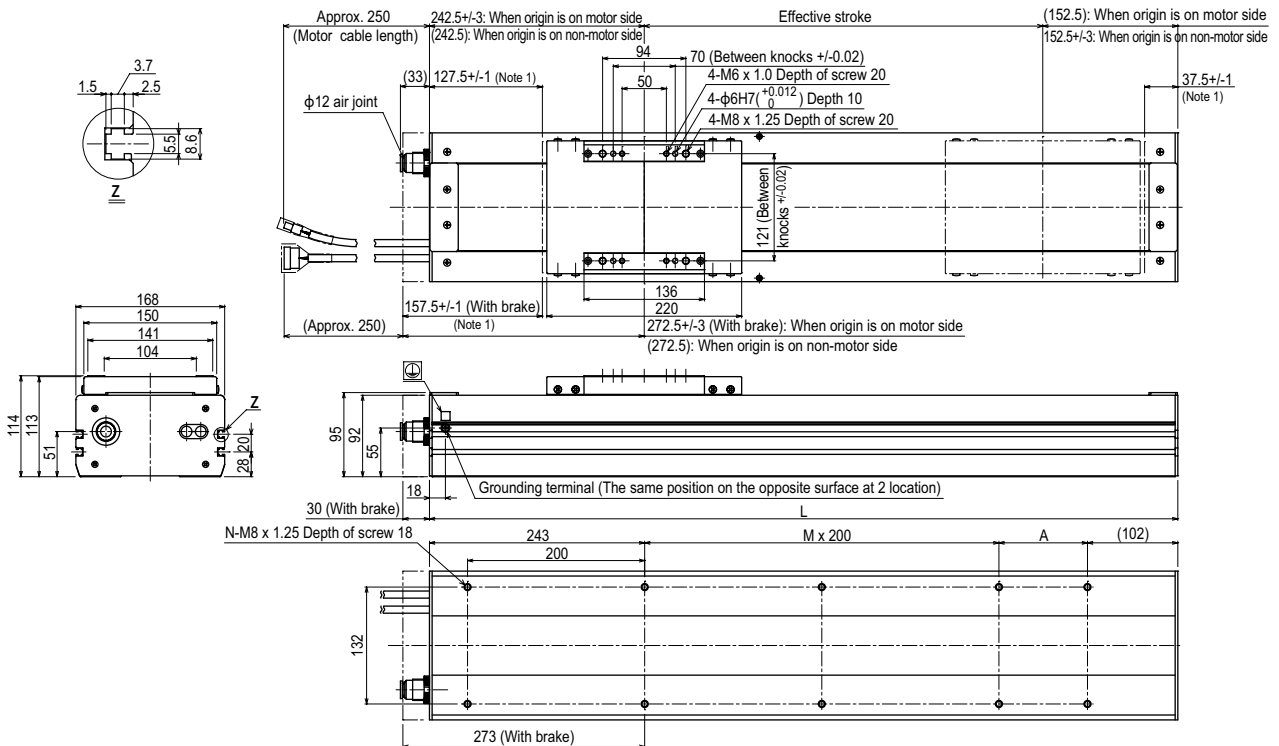
(Unit: N·m)		
MY	MP	MR
1032	1034	908

Controller

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

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

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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)	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 (mm/sec)	1000												800									
Lead 20	500												400									
Lead 10	-												80%									
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 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.