

C17

Origin at non-motor side



Ordering method

C17						SR1-X	20				
Model	Lead	Brake	Option	Stroke	Cable length ^{Note 1}	Controller	Driver	Usable for CE	Regenerative unit ^{Note 4}	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	N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profibus YC: YC-Link ^{Note 3}	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)	400	
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	600
Maximum payload (kg)	Horizontal	80 120
	Vertical	15 35
Rated thrust (N)	339 678	
	Stroke (mm)	
250 to 1250 (100mm 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 ^{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

Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)			
	A	B	C		A	B	C		A	C	
Lead 20	30kg	2660	871	1040	30kg	1017	789	2576	5kg	3000	3000
	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
Lead 10	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

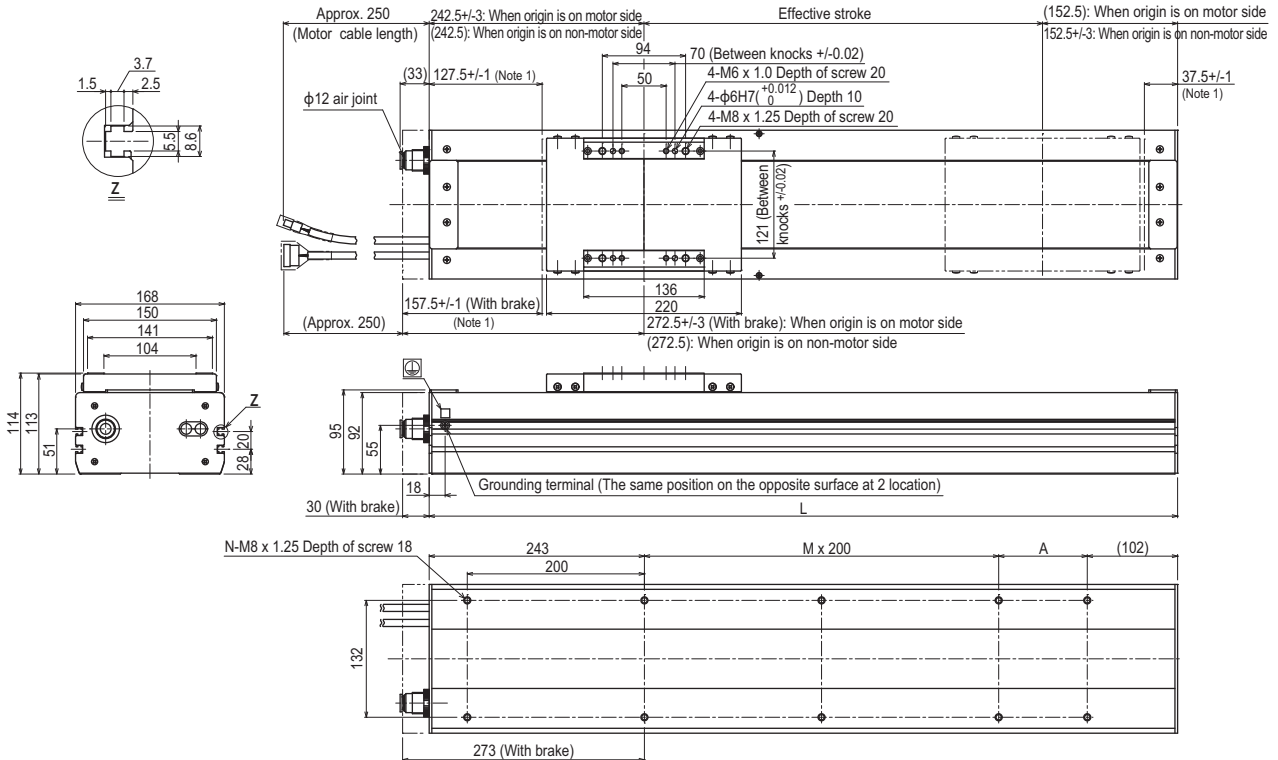
(Unit: N-m)		
MY	MP	MR
1032	1034	908

Controller

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

Note. Regenerative unit is required when used perpendicularly 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	645	745	845	945	1045	1145	1245	1345	1445	1545	1645
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}	16.0	17.9	19.8	21.7	23.6	25.5	27.4	29.3	31.2	33.1	35.0
Maximum speed ^{Note 4} (mm/sec)	Lead 20	1000					800 700 600 500				
	Lead 10	600					400 350 300 250				
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 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.

APPLICATION
 TRANSERO Compact single-axis robots
 FLIP-X Single-axis robots
 PHASER Linear motor single-axis robots
 XY-X Cartesian robots
 YK-XG SCARA robots
 YP-X Pick & place robots
 CLEAN
 CONTROLLER INFORMATION
 Single-axis
 Cartesian
 SCARA