

C8

- High lead: Lead 20
- Origin on the non-motor side is selectable



Ordering method

Model	Lead	Brake ^{Note 1}	Option	Stroke	Cable length ^{Note 2}
	20: 20mm 12: 12mm 6: 6mm	No entry: With no brake BK: With brake	Origin position None: Standard Z: Non-change motor side	150 to 800 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)

TSX	SR1-X	RDV-X
Positioner ^{Note 3} TS-X	Controller SR1-X	Driver RDV-X
Driver: Power-supply voltage / Power capacity 105: 100V/100W or less 205: 200V/100W or less	Driver: Power capacity 05: 100W or less	Power-supply voltage 2: AC200V
LCD monitor No entry: None L: With LCD	Usable for CE No entry: Standard E: CE marking	Driver: Power capacity 05: 100W or less
I/O selection NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board ^{Note 4}	I/O selection N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	Regenerative unit RBR1
Battery B: With battery (Absolute) N: None (Incremental)	Battery B: With battery (Absolute) N: None (Incremental)	

Note 1. The model with a lead of 20mm cannot select specifications with brake (vertical specifications).
 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. Select this selection when using the gateway function. For details, see P.96.

Basic specifications

AC servo motor output (W)	100
Repeatability ^{Note 1} (mm)	+/-0.02
Deceleration mechanism	Ball screw ϕ 12
Ball screw lead (mm)	20 12 6
Maximum speed (mm/sec)	1000 720 360
Maximum payload (kg)	Horizontal: 12 20 40 Vertical: - 4 8
Rated thrust (N)	84 141 283
Stroke (mm)	150 to 800 (50mm pitch)
Overall length (mm)	Horizontal: Stroke+320 Vertical: Stroke+355
Maximum outside dimension of body cross-section (mm)	W80 x H75
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 600mm, 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: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)					
	Lead 20	A	B	C	Lead 20	A	B	C	Lead 12	A	C			
5kg	245	85	146	121	71	211	164	78	328	440	442			
10kg	131	39	69	42	24	88	106	29	158	207	209			
12kg	115	31	57	29	16	66	106	62	29	130	132			
15kg	364	92	192	164	78	328	106	62	29	91	92			
10kg	207	43	92	106	62	29	15kg	26	12	83	237	238		
15kg	144	26	41	26	12	83	20kg	7	4	32	4kg	91	92	
20kg	112	18	40	10kg	87	33	353	20kg	18	6	127	2kg	237	238
10kg	406	47	124	30kg	0	0	0	30kg	0	0	0	4kg	106	96
20kg	225	20	54	40kg	0	0	0	40kg	0	0	0	6kg	62	62
30kg	162	11	31	40kg	0	0	0	40kg	0	0	0	8kg	34	40
40kg	168	7	20											

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

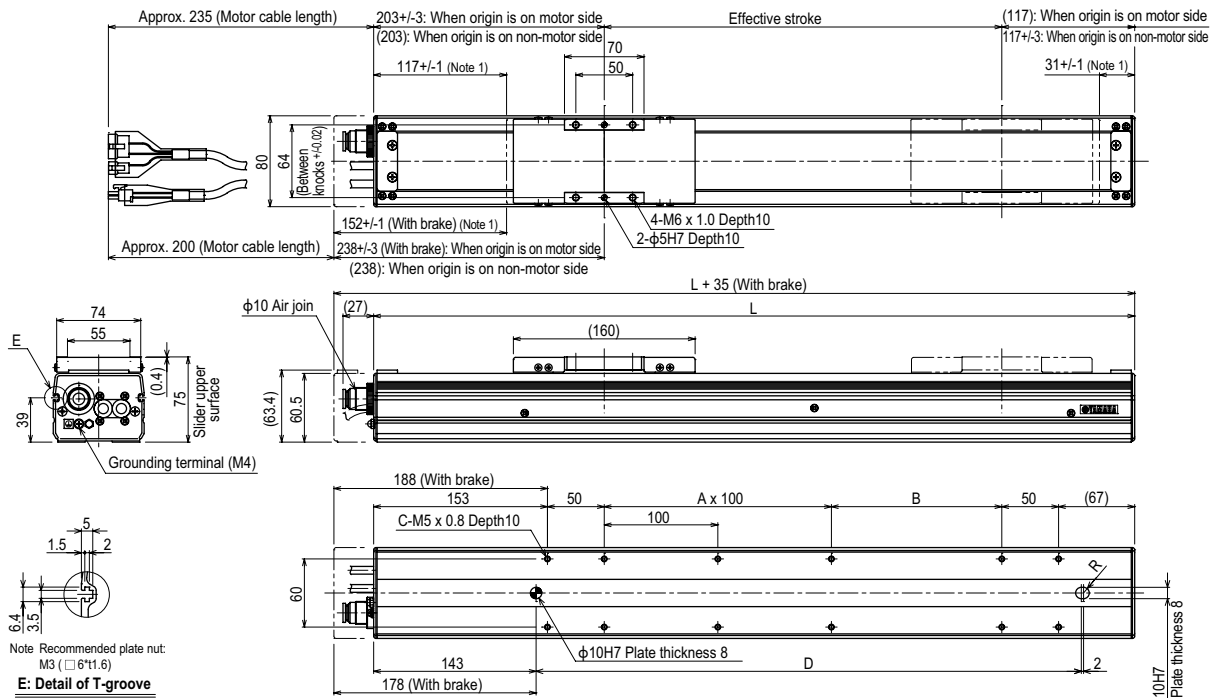
Static loading moment

	MY	MP	MR
(Unit: N·m)	70	95	110

Controller

Controller	Operation method
SR1-X05 RCX320 RCX221/222 RCX340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X105	I/O point trace / Remote command
TS-X205	I/O point trace / Remote command
RDV-X205-RBR1	Pulse train control

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Note. Recommended plate nut: M3 (□6*1.6)

E: Detail of T-groove

Effective stroke	150	200	250	300	350	400	450	500	550	600	650	700	750	800		
L	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120		
A	0	1	1	2	2	3	3	4	4	5	5	6	6	7		
B	150	100	150	100	150	100	150	100	150	100	150	100	150	100		
C	8	10	10	12	12	14	14	16	16	18	18	20	20	22		
D	280	330	380	430	480	530	580	630	680	730	780	830	880	930		
Weight (kg) ^{Note 3}	3.6	3.9	4.1	4.4	4.7	5.0	5.3	5.6	5.9	6.2	6.4	6.7	7.0	7.3		
Maximum speed ^{Note 4} (mm/sec)	Lead 20	1000										950	800	700	650	
	Speed setting	-										95%	80%	70%	65%	
	Lead 12	720										648	540	468	432	360
	Lead 6	360										324	270	234	216	180
Speed setting	-										90%	75%	65%	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 0.3 kg heavier than the models with no brake shown in the table.
 Note 4. When the stroke is longer than 600mm, 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.