

C8

Origin at non-motor side



Ordering method

C8						SR1-X	05					
Model	Lead	Brake	Option	Stroke	Cable length ^{Note 1}	Controller	Driver	Usable for CE	Regenerative unit ^{Note 3}	Input/Output selection	Battery	
	20: 20mm 12: 12mm 6: 6mm	No entry: With no brake BK: With brake	Origin position None: Standard Z: Non-motor side	150 to 800 (50mm pitch)	3L: 3.5m (Standard) 5L: 5m 10L: 10m	SR1-X TS-X ^{Note 2} RDX ^{Note 2}	05: 100W or less	No entry: Standard CE: CE marking		N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profibus YC: YC-Link ^{Note 4}	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 RDX, the regeneration unit RBR1 is required.
 Note 4. Available only for the slave.

Basic specifications

AC servo motor output (W)	100	
Repeatability ^{Note 1} (mm)	+/-0.02	
Deceleration mechanism	Ball screw (Class C10)	
Ball screw lead (mm)	20 12 6	
Maximum speed ^{Note 2} (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 (0.1µm 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)					Wall installation (Unit: mm)					Vertical installation (Unit: mm)							
	A	B	C			A	B	C		A	C		A	C			
Lead 20	5kg	245	85	146	Lead 20	5kg	121	71	211	Lead 12	1kg	440	442	Lead 6	1kg	440	442
	10kg	131	39	69		10kg	42	24	88		2kg	207	209				
	12kg	115	31	57		12kg	29	16	66		3kg	130	132				
	5kg	364	92	192		5kg	164	78	328		4kg	91	92				
Lead 12	10kg	207	43	92	Lead 12	10kg	62	29	158	Lead 6	2kg	237	238	Lead 6	4kg	106	96
	15kg	144	26	41		15kg	26	12	83		4kg	106	96				
	20kg	112	18	40		20kg	7	4	32		6kg	62	62				
	10kg	406	47	124		10kg	87	33	353		8kg	34	40				
Lead 6	20kg	225	20	54	Lead 6	20kg	18	6	127								
	30kg	162	11	31		30kg	0	0	0								
	40kg	168	7	20		40kg	0	0	0								

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

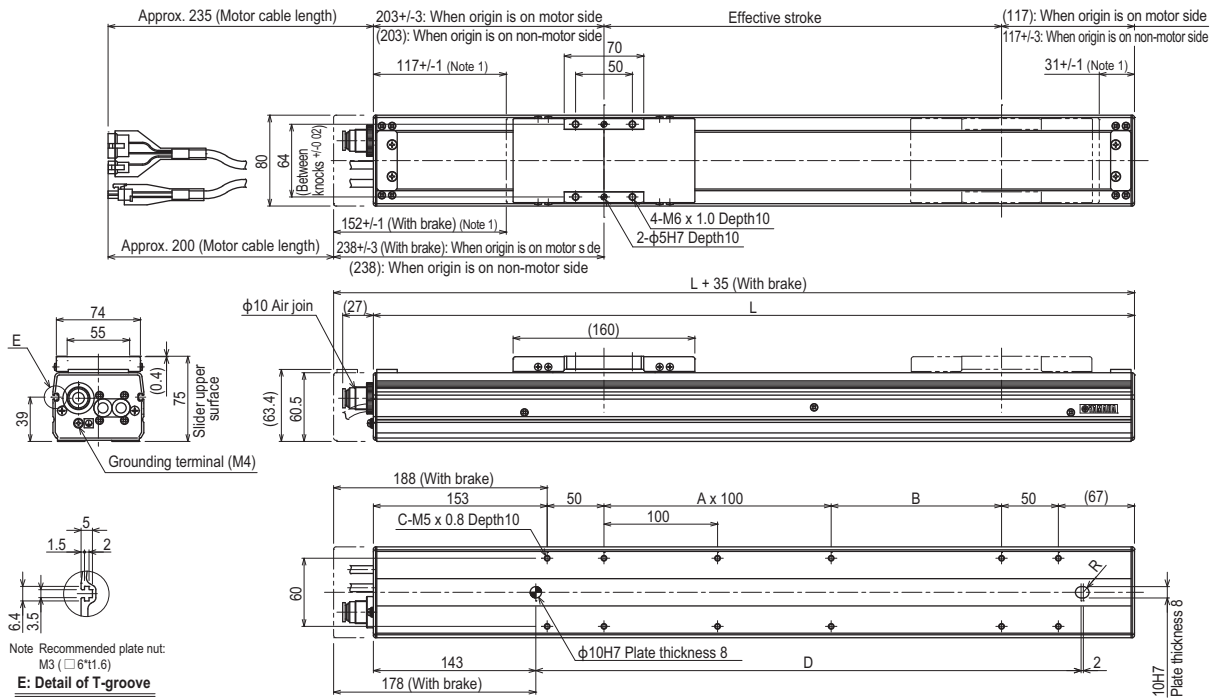
Static loading moment

(Unit: N-m)		
MY	MP	MR
70	95	110

Controller

Controller	Operation method
SR1-X-05	Programming / IO point trace / Remote command / Operation using RS-232C communication
TS-X205	/O point trace
RDX-05-RBR1	Pulse train control

C8



Effective stroke	Stroke (mm)													
	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												
	Speed setting	-												
	Lead 12	720												
	Lead 6	360												
Speed setting	-													

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 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.

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