

C8L

● Origin at non-motor side

Ordering method

C8L						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 10: 10mm 5: 5mm	No entry: With no brake BK: With brake	Origin position change None: Standard Z: Non-motor side	150 to 1050 (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 E: 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)	±0.01		
Deceleration mechanism	Ball screw (Class C7)		
Ball screw lead (mm)	20	10	5
Maximum speed ^{Note 2} (mm/sec)	1000	600	300
Maximum payload (kg)	Horizontal	20	40
	Vertical	4	8
Rated thrust (N)	84	169	339
Stroke (mm)	150 to 1050 (50mm pitch)		
Overall length (mm)	Stroke+325		
	Stroke+360		
Maximum outside dimension of body cross-section (mm)	W80 × 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}		

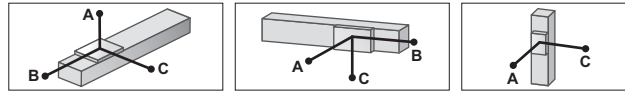
Note 1. Positioning repeatability in one direction.

Note 2. When the stroke is longer than 700mm, 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.

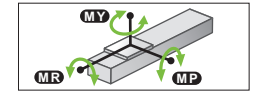
Allowable overhang ^{Note}



	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)				
	A	B	C	A	B	C	A	B	C		
Lead 20	5kg	259	122	179	5kg	147	100	220	2kg	255	260
	10kg	149	55	89	10kg	53	32	97	4kg	111	115
	15kg	100	33	56	15kg	17	10	39	2kg	300	302
	20kg	95	22	41	20kg	0	0	0	4kg	131	133
Lead 10	10kg	251	61	130	10kg	87	41	197	6kg	75	77
	20kg	127	25	55	20kg	10	4	37	8kg	47	49
	30kg	90	14	31	30kg	0	0	0	5kg	113	114
	40kg	69	8	18	40kg	0	0	0	10kg	37	38
Lead 5	20kg	256	29	76	20kg	24	9	152	15kg	12	12
	30kg	188	16	43	30kg	0	0	0	16kg	9	9
	40kg	96	10	28	40kg	0	0	0			
	50kg	33	6	18	50kg	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

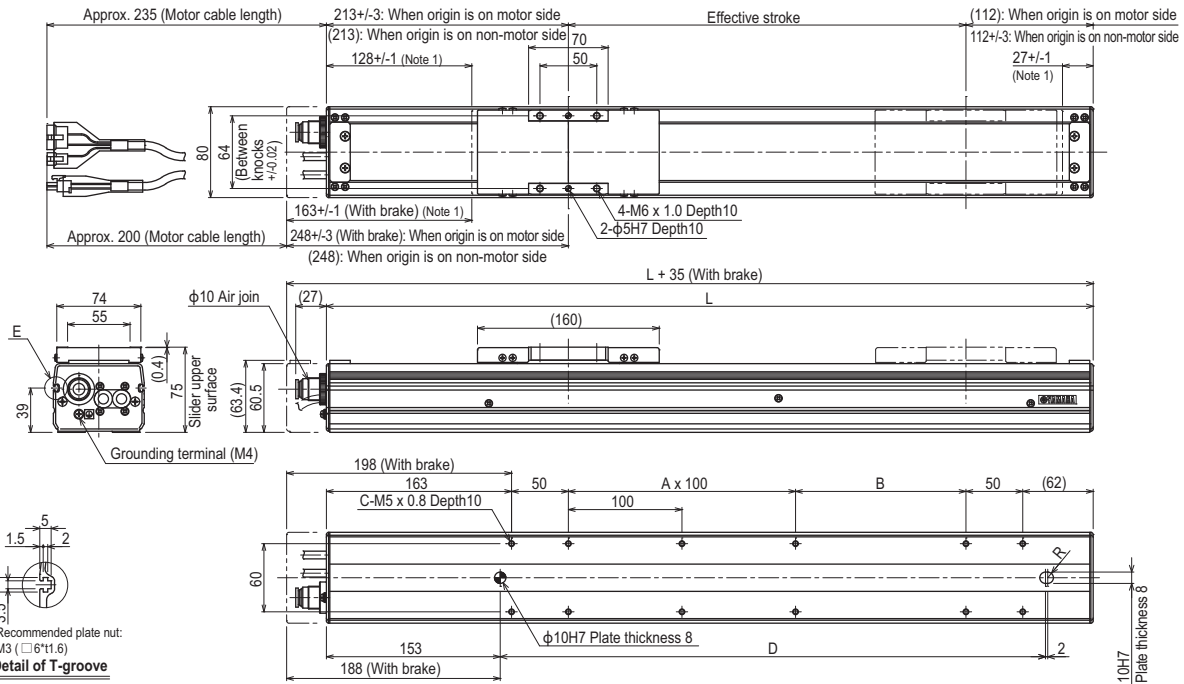


(Unit: N·m)		
MY	MP	MR
70	95	110

Controller

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

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Note Recommended plate nut: M3 (□6*11.6)
E: Detail of T-groove

Effective stroke	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050								
L	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375								
A	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9								
B	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150								
C	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26								
D	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180								
Weight (kg) ^{Note 3}	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.4	6.7	7.0	7.3	7.6	7.9	8.2	8.5	8.8	9.2	9.5								
Maximum speed ^{Note 4} (mm/sec)	Lead 20														1000					900	800	700	650	600	550	500	
	Speed setting														-					90%	80%	70%	65%	60%	55%	50%	
	Lead 10														600					510	450	390	360	330	300	270	240
	Lead 5														300					255	225	195	180	165	150	135	120
Speed setting	-														85%	75%	65%	60%	55%	50%	45%	40%					

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 700mm, 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.