

C8LH

Origin at non-motor side

Ordering method

C8LH					SR1-X	05				
Model	Lead	Option	Stroke	Cable length <small>Note 1</small>	Controller	Driver	Usable for CE	Regenerative unit <small>Note 3</small>	Input/Output selection	Battery
	20: 20mm 10: 10mm 5: 5mm	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 <small>Note 2</small> RDX <small>Note 2</small>	05: 100W or less	No entry: Standard E: CE marking		N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profibus YC: YC-Link <small>Note 4</small>	No entry: None (Incremental specification) B: With battery (Absolute specification)

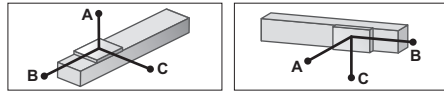
Note 1. The robot cable is a standard cable and may be changed to a flex-resistant type (except RDX). See P.423 for more information on robot cables.
 Note 2. To find TS-X, RDX selection options, see the ordering method listed on each controller's page (TS-X: P.355, RDX: P.365).
 Note 3. When using RDX, the regeneration unit RBR1 is required.
 Note 4. Available only for the slave.

Basic specifications

AC servo motor output (W)	100
Repeatability <small>Note 1</small> (mm)	+/-0.01
Deceleration mechanism	Ball screw (Class C7)
Ball screw lead (mm)	20 10 5
Maximum speed <small>Note 2</small> (mm/sec)	1000 600 300
Maximum payload (kg)	Horizontal 30 60 80
Rated thrust (N)	84 169 339
Stroke (mm)	150 to 1050 (50mm pitch)
Overall length (mm)	Stroke+389
Maximum outside dimension of body cross-section (mm)	W80 x H75
Cable length (m)	Standard: 3.5/5/10
Degree of cleanliness	CLASS 10 <small>Note 3</small>
Intake air (Nℓ/min)	30 to 90 <small>Note 4</small>

Note 1. Positioning repeatability in one direction.
 Note 2. When the stroke is longer than 650mm, 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.

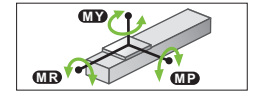
Allowable overhang Note



Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				
	A	B	C		A	B	C	
Lead 20	10kg	687	274	200	10kg	163	225	617
	20kg	401	125	92	20kg	56	76	302
	30kg	338	76	57	30kg	20	27	182
Lead 10	20kg	622	137	111	20kg	74	90	517
	40kg	472	57	47	40kg	8	11	196
	60kg	375	30	25	60kg	-	-	-
Lead 5	20kg	1087	148	127	20kg	89	104	974
	40kg	844	63	54	40kg	15	18	505
	60kg	707	34	29	60kg	-	-	-
80kg	594	20	17	80kg	-	-	-	

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

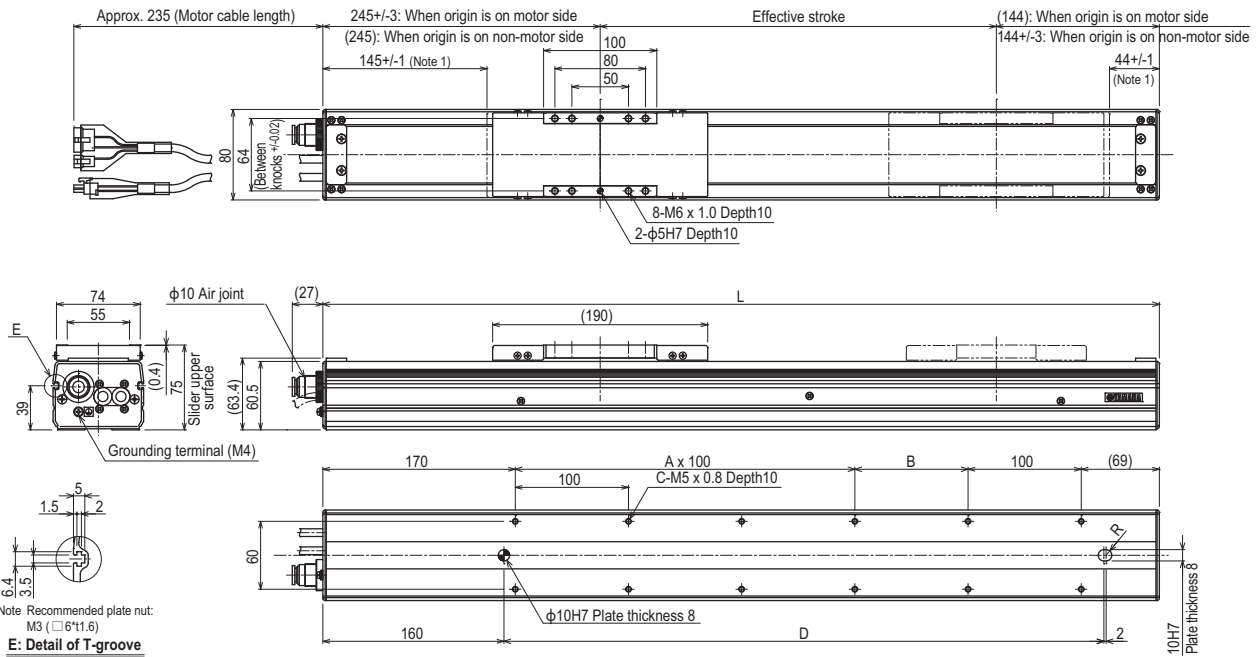


(Unit: N-m)		
MY	MP	MR
128	163	143

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

C8LH



Effective stroke	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	
L	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	
A	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	
B	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	
C	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	
D	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	
Weight (kg)	4.7	5.0	5.3	5.6	5.9	6.2	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.7	10.0	10.3	
Maximum speed <small>Note 3</small> (mm/sec)	Lead 20	1000																		
	Speed setting	-																		
	Lead 10	600																		
	Lead 5	300																		
Speed setting	85% 75% 65% 60% 55% 50% 45% 40% 35%																			

Note 1. Distance from both ends to the mechanical stopper.
 Note 2. Minimum bend radius of motor cable is R50.
 Note 3. When the stroke is longer than 650mm, 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
 Compact single-axis robots
 TRANSERO
 Single-axis robots
 FLIP-X
 Linear motor single-axis robots
 PHASER
 Cartesian robots
 XY-X
 SCARA robots
 YK-XG
 Pick & place robots
 YP-X
 CLEAN
 CONTROLLER INFORMATION
 Single-axis
 Cartesian
 SCARA