

C6

● Origin at non-motor side

■ Ordering method

C6							SR1-X	05			
Model	Lead	Brake	Direction of air coupler installation	Option	Stroke	Cable length <small>Note 1</small>	Controller	Driver	Usable for CE	Input/Output selection	Battery
	12: 12mm 6: 6mm	No entry: With no brake BK: With brake	L: Left (Standard) R: Right	Origin position change None: Standard Z: Non-motor side	50 to 600 (50mm pitch)	3L: 3.5m (Standard) 5L: 5m 10L: 10m	SR1-X <small>Note 2</small> 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 3</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. Available only for the slave.

■ Basic specifications

AC servo motor output (W)	60	
Repeatability <small>Note 1</small> (mm)	±0.02	
Deceleration mechanism	Ball screw (Class C10)	
Ball screw lead (mm)	12	6
Maximum speed (mm/sec)	800	400
Maximum payload (kg)	Horizontal	12
	Vertical	4
Rated thrust (N)	Horizontal	85
	Vertical	170
Stroke (mm)	50 to 600 (50mm pitch)	
Overall length (mm)	Horizontal	Stroke+247.5
	Vertical	Stroke+282.5
Maximum outside dimension of body cross-section (mm)	W65 × H65	
Cable length (m)	Standard: 3.5 / Option: 5, 10	
Degree of cleanliness	CLASS 10 <small>Note 2</small>	
Intake air (Nℓ/min)	20 to 30 <small>Note 3</small>	

Note 1. Positioning repeatability in one direction.
 Note 2. Per 1cf (0.1μm base), when suction blower is used.
 Note 3. 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	A	B	C	Lead	A	B	C	Lead	A	B	C				
12	3kg	622	125	336	12	3kg	291	96	317	12	1kg	353	351		
	8kg	271	41	121		12	8kg	87	13		110	12	2kg	163	164
	12kg	214	24	76			6	12kg	41		0		126	6	4kg
6	5kg	692	73	236	6			5kg	202	45	237		6		2kg
	10kg	372	33	109		6		10kg	70	5	97	6			4kg
	30kg	157	0	25			6	30kg	0	0	0			6	8kg

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

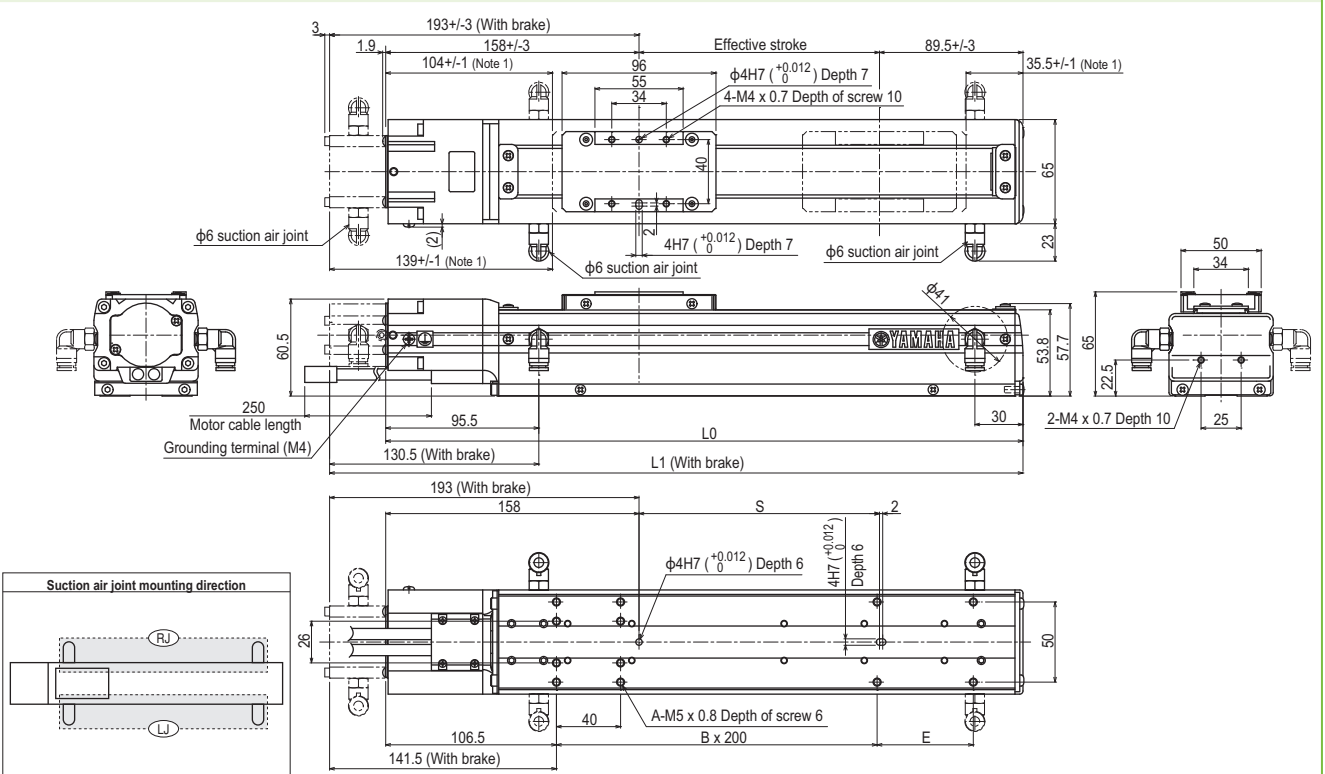
■ Static loading moment

(Unit: N·m)		
MY	MP	MR
35	40	50

■ 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

C6



Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600
A	10	10	10	12	12	12	12	14	14	14	14	16
B	0	0	0	1	1	1	1	2	2	2	2	3
E	150	200	200	100	100	200	200	100	100	200	200	100
L0	297.5	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5
L1	332.5	382.5	432.5	482.5	532.5	582.5	632.5	682.5	732.5	782.5	832.5	882.5
S	50	100	150	200	250	300	350	400	450	500	550	600
Weight (kg) <small>Note 4</small>	2.7	3.0	3.2	3.5	3.8	4.1	4.3	4.6	4.9	5.2	5.4	5.7

Note 1. Distance from both ends to the mechanical stopper.
 Note 2. Either right or left can be selected for the installation direction for the φ6 intake air joint.
 Note 3. Minimum bend radius of motor cable is R50.
 Note 4. Weight of models with no brake. The weight of brake-attached models is 0.2 kg heavier than the models with no brake shown in the table.