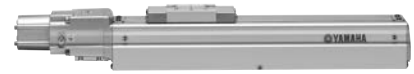


C6L

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



Ordering method

C6L

Model	Lead designation 20: 20mm 12: 12mm 6: 6mm	Brake Note 1 No entry: With no brake BK: With brake	Direction of air coupler installation L: Left (Standard) R: Right	Origin position change None: Standard Z: Non-motor side	Stroke 50 to 800 (50mm pitch)	Cable length Note 2 3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)
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TSX

Positioner Note 3 TS-X	Driver: Power supply voltage / Power capacity 105: 100V/100W or less 205: 200V/100W or less	LCD monitor No entry: None L: With LCD	I/O selection NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board Note 4	Battery 3: With battery (Absolute) N: None (Incremental)
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SR1-X

Controller 05	Driver: Power capacity 05: 100W or less	Usable for CE No entry: Standard E: CE marking	I/O selection N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	Battery 3: With battery (Absolute) N: None (Incremental)
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RDV-X

Driver 2	Power supply voltage 2: AC200V	Driver: Power capacity 05: 100W or less	Regenerative unit RBR1
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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.614 for details on robot cable.
 Note 3. See P.522 for DIN rail mounting bracket.
 Note 4. Select this selection when using the gateway function. For details, see P.66.

Basic specifications

AC servo motor output (W)	60
Repeatability Note 1 (mm)	+/-0.02
Deceleration mechanism	Ball screw ϕ 12
Ball screw lead (mm)	20 12 6
Maximum speed (mm/sec)	1000 800 400
Maximum payload (kg)	Horizontal 10 12 30 Vertical - 4 8
Rated thrust (N)	51 85 170
Stroke (mm)	50 to 800 (50mm pitch)
Overall length (mm)	Horizontal Stroke+247.5 Vertical Stroke+285.5
Maximum outside dimension of body cross-section (mm)	W65×H65
Cable length (m)	Standard: 3.5 / Option: 5, 10
Degree of cleanliness	ISO CLASS 3 (ISO14644-1) Note 2
Intake air (Nl/min) Note 3	80 50 30

Note 1. Positioning repeatability in one direction.
 Note 2. CLASS 10 (0.1 μ m) FED-STD-209D or equivalent when a suction blower is used.
 Note 3. The necessary intake amount varies depending on the use conditions and environment.

Allowable overhang

Lead	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)		
	A	B	C	A	B	C	A	C	
Lead 20	2kg 433	192	295	2kg 300	174	365	1kg 353	351	
6kg	145	59	104	6kg 83	44	105	2kg 163	164	
10kg	110	33	75	10kg 43	18	71	4kg 68	70	
Lead 12	3kg 622	125	336	3kg 291	96	317	2kg 169	170	
8kg	271	41	121	8kg 87	13	110	4kg 71	73	
12kg	214	24	76	12kg 41	0	126	8kg 21	24	
Lead 6	5kg 692	73	236	5kg 202	45	237			
10kg	372	33	109	10kg 70	5	97			
30kg	157	0	25	30kg 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.

Note. Service life is calculated for 600mm stroke models.

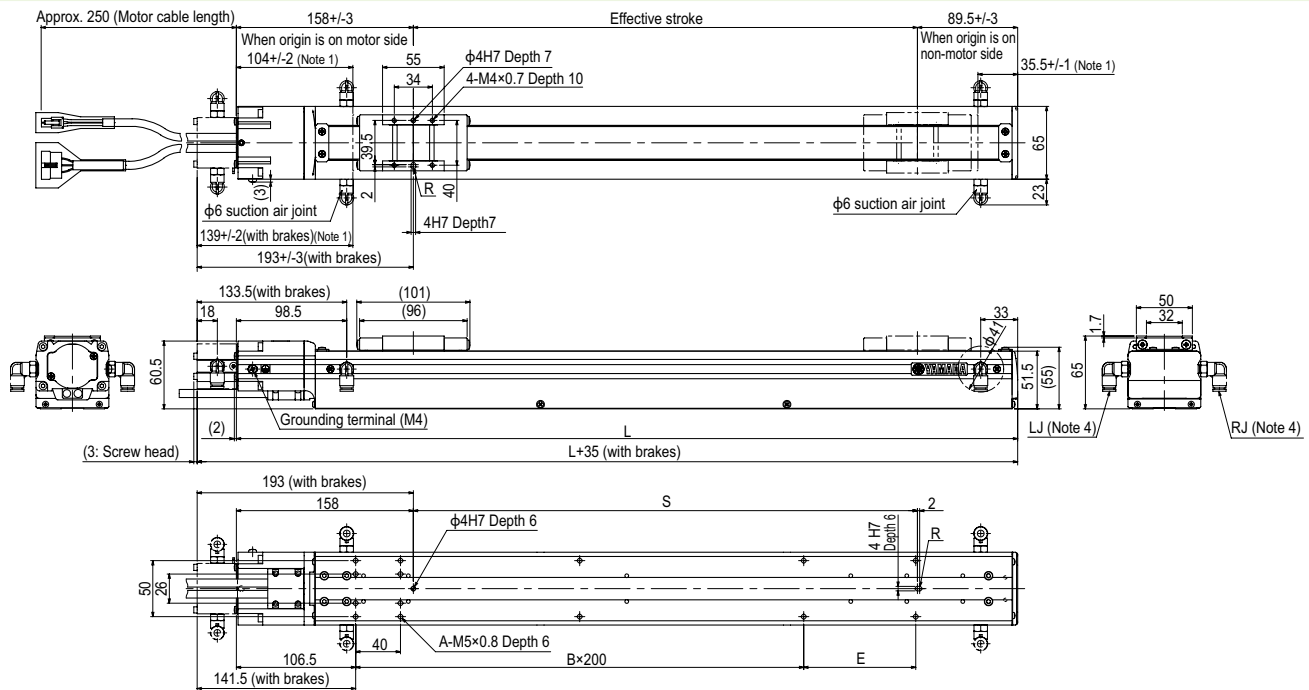
Static loading moment

(Unit: N·m)		
MY	MP	MR
35	40	50

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	Remote command
RDV-X205-RBR1	Pulse train control

C6L



Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	297.5	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5	897.5	947.5	997.5	1047.5
A	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18
B	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4
E	150	200	200	100	100	200	200	100	100	200	200	100	100	200	200	100
S	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Weight (kg) Note 3	2.6	2.9	3.1	3.4	3.7	4.0	4.3	4.6	4.9	5.2	5.4	5.7	6.0	6.3	6.6	6.8
Maximum speed for each stroke Note 5 (mm/sec)	Lead 20	1000														
	Speed setting	-														
	Lead 12	800														
	Lead 6	400														
Speed setting		-														
		85%														
		75%														

Note 1. Stop positions are determined by the mechanical stoppers at both ends.
 Note 2. Minimum bend radius of motor cable is R30.
 Note 3. 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.
 Note 4. Either right or left can be selected for the installation direction for the ϕ 6 intake air joint. (The left side is the standard.)
 Note 5. 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.