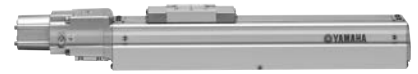


# C6L

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



## Ordering method

**C6L**

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

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

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

<b>Driver</b> 2: AC200V	<b>Power supply voltage</b> 2: AC200V	<b>Driver: Power capacity</b> 05: 100W or less	<b>Regenerative unit</b> 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.732 for details on robot cable.  
 Note 3. See P.634 for DIN rail mounting bracket.  
 Note 4. Select this selection when using the gateway function. For details, see P.96.

## Basic specifications

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

- Note 1. Positioning repeatability in one direction.  
 Note 2. CLASS 10 (0.1 $\mu$ 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	B	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.

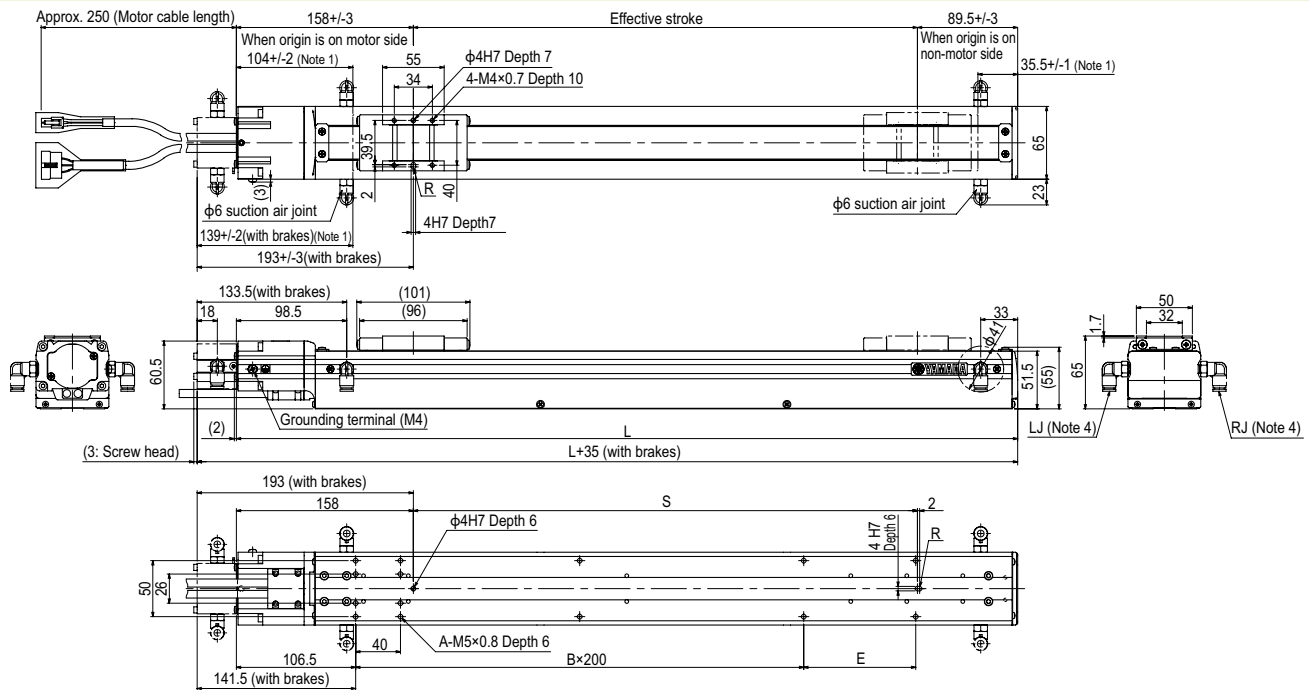
## Static loading moment

(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) <sup>Note 3</sup>	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 <sup>Note 5</sup> (mm/sec)	Lead 20	1000														
	Speed setting	-														
	Lead 12	800														
	Speed setting	-														
Lead 6	Lead 6	400														
	Speed setting	-														
	Speed setting	85%	75%	65%	60%											

- 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  $\phi$ 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.