

# C4LH

Origin on the non-motor side is selectable



## Ordering method

### C4LH

<b>Model</b>	<b>Lead designation</b> 12: 12mm 6: 6mm 2: 2mm	<b>Brake</b> 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 400 (50mm pitch)	<b>Cable length</b> <small>Note 1</small> 3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	<b>TSX</b> <b>Positioner</b> <small>Note 2</small> TS-X <b>Driver: Power supply voltage / Power capacity</b> 10S: 100V/100W or less 20S: 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 <small>Note 3</small>	<b>Battery</b> B: With battery (Absolute) N: None (Incremental)
<b>SR1-X</b> <b>Controller</b>	<b>05</b> <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> B: With battery (Absolute) N: None (Incremental)						
<b>RDV-X</b> <b>Driver</b>	<b>2</b> <b>Power-supply voltage</b> 2: AC200V	<b>05</b> <b>Driver: Power capacity</b> 05: 100W or less								

Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.594 for details on robot cable.  
Note 2. See P.498 for DIN rail mounting bracket.  
Note 3. Select this selection when using the gateway function. For details, see P.60.

## Basic specifications

<b>AC servo motor output (W)</b>	30	
<b>Repeatability</b> <small>Note 1</small> (mm)	±0.02	
<b>Deceleration mechanism</b>	Ball screw $\phi 8$ (Class C10)	
<b>Ball screw lead (mm)</b>	12	6
<b>Maximum speed (mm/sec)</b>	720	360
<b>Maximum payload (kg)</b>	<b>Horizontal</b>	<b>Vertical</b>
	4.5	6
	1.2	2.4
<b>Rated thrust (N)</b>	32	64
<b>Stroke (mm)</b>	50 to 400 (50mm pitch)	
<b>Overall length (mm)</b>	<b>Horizontal</b>	Stroke+205
	<b>Vertical</b>	Stroke+240
<b>Maximum outside dimension of body cross-section (mm)</b>	W45×H55	
<b>Cable length (m)</b>	Standard: 3.5 / Option: 5, 10	
<b>Degree of cleanliness</b>	ISO CLASS 3 (ISO14644-1) <small>Note 2</small>	
<b>Intake air (N<math>\ell</math>/min)</b> <small>Note 3</small>	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

Installation	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)				
	A	B	C	A	B	C	A	C			
<b>Lead 12</b>	2kg	339	90	174	2kg	136	72	295	1.2kg	118	118
<b>Lead 6</b>	4.5kg	169	37	72	4.5kg	44	20	111	2.4kg	52	54
<b>Lead 2</b>	3kg	352	58	133	3kg	101	41	254	3kg	38	39
<b>Lead 2</b>	6kg	234	27	62	6kg	27	10	127	7.2kg	0	0
<b>Lead 2</b>	3kg	1105	59	142	3kg	110	41	805			
<b>Lead 2</b>	6kg	520	27	66	6kg	28	10	290			

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 300mm stroke models.

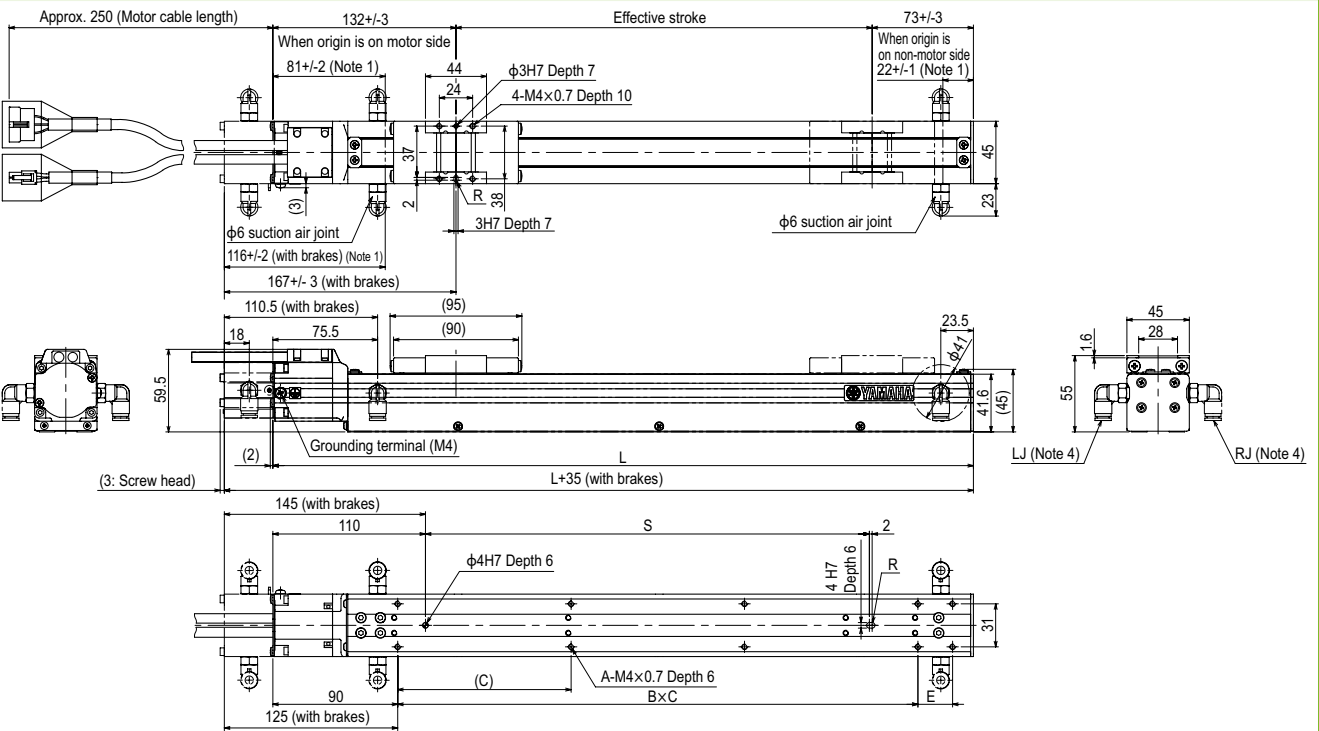
## Static loading moment

Static loading moment (Unit: N·m)		
MY	MP	MR
15	19	18

## Controller

Controller	Operation method
SR1-X05 RCX221/222 RCX240/340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X105	I/O point trace / Remote command
TS-X205	I/O point trace / Remote command
RDV-X205	Pulse train control

## C4LH



Effective stroke	50	100	150	200	250	300	350	400
L	255	305	355	405	455	505	555	605
A	4	6	6	8	8	10	10	10
B	1	2	2	2	2	3	3	4
C	150	100	125	125	125	125	125	125
E	0	0	0	50	100	25	75	0
S	70	120	170	220	270	320	370	420
<b>Weight (kg)</b> <small>Note 3</small>	1.4	1.5	1.7	1.8	2	2.1	2.3	2.4
<b>Maximum speed for each stroke (mm/sec)</b>	<b>Lead 12</b>	720						
	<b>Lead 6</b>	360						
	<b>Lead 2</b>	120						

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. External view of C4LH is identical to C4L.