

C5LH

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



Ordering method

C5LH	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)	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 B: With battery (Absolute) N: None (Incremental)
	SR1-X	05						Controller	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 B: With battery (Absolute) N: None (Incremental)	
	RDV-X	2						Driver	Power supply voltage 2: AC200V		05	Driver: Power capacity 05: 100W or less	

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)	30
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: 3 5 9 Vertical: - 1.2 2.4
Rated thrust (N)	19 32 64
Stroke (mm)	50 to 800 (50mm pitch)
Overall length (mm)	Horizontal: Stroke+201.5 Vertical: Stroke+239.5
Maximum outside dimension of body cross-section (mm)	W55xH65
Cable length (m)	Standard: 3.5 / Option: 5, 10
Degree of cleanliness	ISO CLASS 3 (ISO14644-1) Note 2
Intake air (N ℓ /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

	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)		
	A	B	C	A	B	C	A	C	
Lead 20	1099	324	645	602	303	950	1.2kg	240	239
3kg	488	104	241	197	87	432	2.4kg	109	110
2kg	916	159	398	347	141	800			
5kg	436	60	152	119	44	355			
3kg	1194	105	294	259	87	950			
9kg	624	31	89	50	15	385			

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.

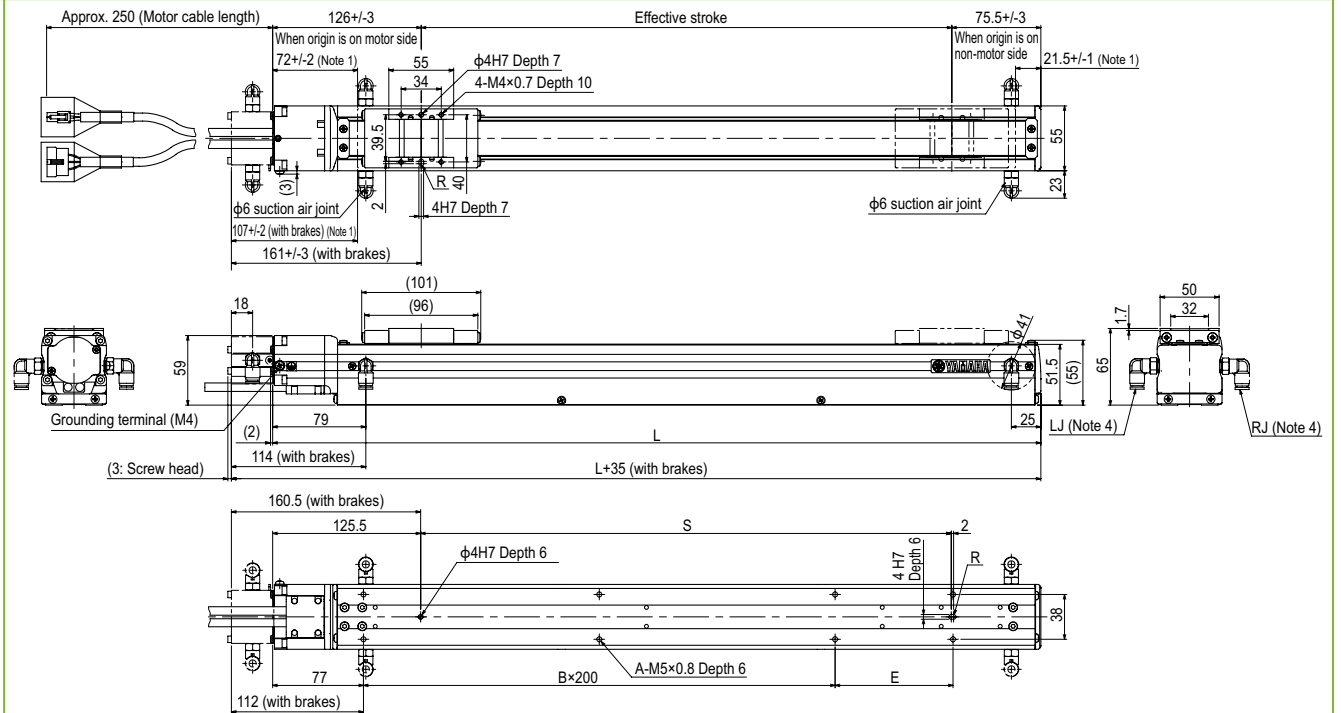
Static loading moment

	MY	MP	MR
(Unit: N·m)	30	34	40

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	Pulse train control

C5LH



Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	251.5	301.5	351.5	401.5	451.5	501.5	551.5	601.5	651.5	701.5	751.5	801.5	851.5	901.5	951.5	1001.5
A	4	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12
B	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4
E	100	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	1.7	2.0	2.2	2.5	2.7	3.0	3.2	3.4	3.7	3.9	4.2	4.4	4.7	4.9	5.1	5.4
Maximum speed for each stroke (mm/sec) Note 5	1000															
Lead 20 Speed setting	900 800 700															
Lead 12 Speed setting	90% 80% 70%															
Lead 6 Speed setting	800 400															
	640 560 480 440															
	320 280 240 220															
	80% 70% 60% 55%															

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.
 Note 6. External view of C5LH is identical to C5L.