C5LH

- High lead: Lead 20
- Origin at non-motor side

Ordering method

C5LH - [Lead designation] - [Brake] - [Direction of air coupler installation] - [Origin position change] - [Stroke] - [Cable length Note 1]

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

TSX

Positioner	Driver: Power-supply voltage / Power capacity	LCD monitor	I/O selection	Battery
TS-X	105: 100V/100W or less 205: 200V/100W or less	No entry: None L: With LCD	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet	B: With battery (Absolute) N: None (Incremental)

SR1-X 05

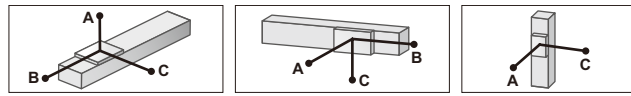| Controller	Driver: Power capacity	Usable for CE	I/O selection	Battery
Controller	05: 100W or less	No entry: Standard E: CE marking	N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profibus	B: With battery (Absolute) N: None (Incremental)

RDX - 05

Driver	Driver: Power capacity
Driver	05: 100W or less

Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable.

Basic specifications

AC servo motor output (W)	30		
Repeatability Note 1 (mm)	+/-0.02		
Deceleration mechanism	Ball screw φ12 (Class C10)		
Ball screw lead (mm)	20	12	6
Maximum speed (mm/sec)	1000	800	400
Maximum payload (kg) Horizontal	3	5	9
Maximum payload (kg) 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		
Overall length (mm) Vertical	Stroke+236.5		
Maximum outside dimension of body cross-section (mm)	W55×H52		
Cable length (m)	Standard: 3.5 / Option: 5, 10		
Degree of cleanliness	CLASS 3 Note 2		
Intake air (Nℓ/min) Note 3	80	50	30

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.
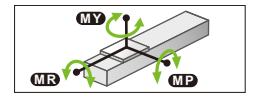
Allowable overhang Note

Horizontal installation (Unit: mm)

		A	B	C
Lead 20	1kg	1099	324	645
Lead 12	3kg	488	104	241
Lead 6	2kg	916	159	398
	5kg	436	60	152
	3kg	1194	105	294
	9kg	624	31	89

Wall installation (Unit: mm)

		A	B	C
Lead 20	1kg	602	303	950
Lead 12	3kg	197	87	432
Lead 6	2kg	347	141	800
	5kg	119	44	355
	3kg	259	87	950
	9kg	50	15	385

Vertical installation (Unit: mm)

		A	C
Lead 12	1.2kg	240	239
Lead 6	2.4kg	109	110

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.
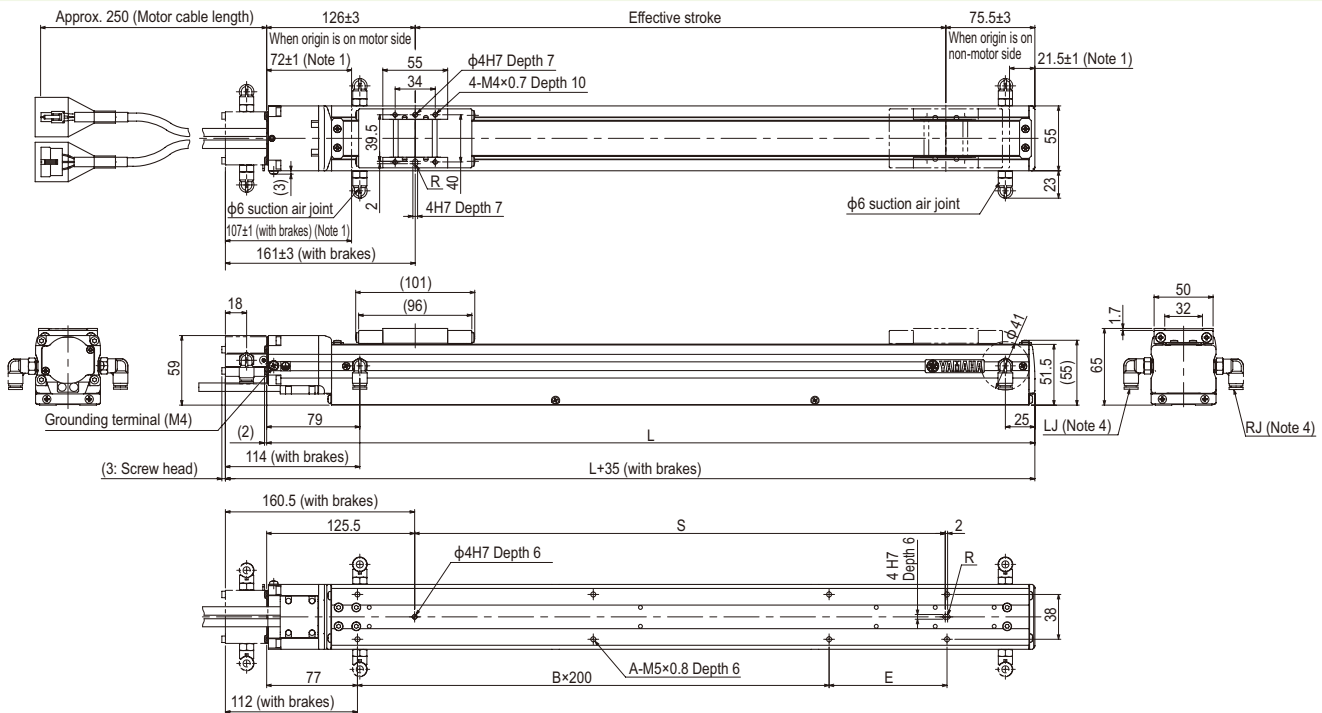Note. Service life is calculated for 600mm stroke models.

Static loading moment

(Unit: N·m)

MY	MP	MR
30	34	40

Controller

Controller	Operation method
SR1-X05	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X105 TS-X205	I/O point trace / Remote command
RDX-05	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	10	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 Note 5 (mm/sec)																	
Lead 20	1000													900	800	700
Speed setting	-													90%	80%	70%
Lead 12	800												640	560	480	440
Lead 6	400												320	280	240	220
Speed setting	-												80%	70%	60%	55%

Note 1. Distance from both ends to the mechanical stopper.
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 φ6 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.