C5

Origin at non-motor side

Ordering method

C5 - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - ERCX - [ ] - [ ] - [ ]

Model	Lead	Brake	Direction of air coupler installation	Option	Stroke	Cable length Note 1	Controller	Usable for CE	Network option	Battery
	12: 12mm 6: 6mm	No entry: With no brake BK: With brake	LJ: Left (Standard) RJ: Right	Origin position None: Standard Z: Non-motor side	50 to 600 (50mm pitch)	3L: 3.5m (Standard) 5L: 5m 10L: 10m	ERCX ERCD Note 2	No entry: Standard E: CE marking	No entry: None CC: CC-Link DN: DeviceNet PB: Profibus EN: Ethernet	B1: 700mAh B2: 2000mAh

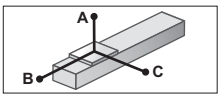
Note 1. The robot cable is standard cable and may be changed to a flex-resistant type. (consult factory)
Note 2. To find ERCD selection options, see the ordering method listed on each contrller page.

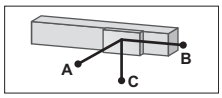
Basic specifications

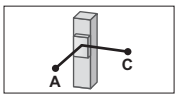
AC servo motor output (W)		30	
Repeatability Note 1 (mm)		+/-0.02	
Deceleration mechanism		Ball screw (Class C10)	
Ball screw lead (mm)		12	6
Maximum speed (mm/sec)		800	400
Maximum payload (kg)	Horizontal	5	9
	Vertical	1.2	2.4
Rated thrust (N)		32	64
Stroke (mm)		50 to 600 (50mm pitch)	
Overall length (mm)	Horizontal	Stroke+201.5	
	Vertical	Stroke+236.5	
Maximum outside dimension of body cross-section (mm)		W55 × H65	
Cable length (m)		Standard: 3.5 / Option: 5, 10	
Degree of cleanliness		CLASS 10 Note 2	
Intake air (Nℓ/min)		20 to 30 Note 3	

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 12	2kg	1166	159	406
	5kg	551	59	155
Lead 6	3kg	1194	104	294
	9kg	624	31	89

Wall installation (Unit: mm)

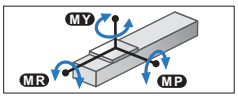
		A	B	C
Lead 12	2kg	364	126	1073
	5kg	123	28	438
Lead 6	3kg	259	72	354
	9kg	50	0	154

Vertical installation (Unit: mm)

		A	C
Lead 12	1.2kg	246	245
Lead 6	2.4kg	110	110

Note 1. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

Static loading moment



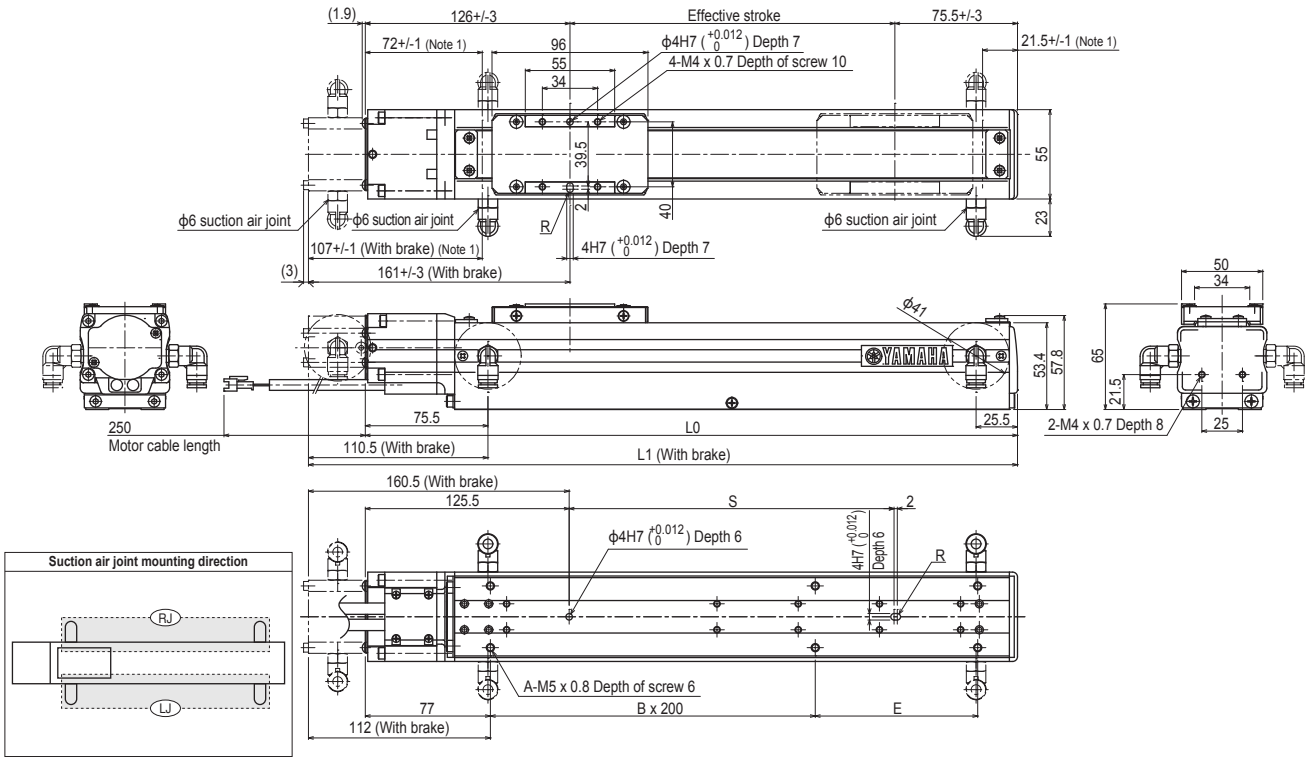
(Unit: N·m)

MY	MP	MR
30	34	40

Controller

Controller	Operation method
ERCX	Programming / I/O point trace (BCD)/ Remote command / Operation using RS-232C communication
ERCD	Pulse train control / Programming / I/O point trace (BCD)/ Remote command / Operation using RS-232C communication

C5



Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600
A	4	4	4	6	6	6	6	8	8	8	8	10
B	0	0	0	1	1	1	1	2	2	2	2	3
E	100	200	200	100	100	200	200	100	100	200	200	100
L0	251.5	301.5	351.5	401.5	451.5	501.5	551.5	601.5	651.5	701.5	751.5	801.5
L1	286.5	336.5	386.5	436.5	486.5	536.5	586.5	636.5	686.5	736.5	786.5	836.5
S	50	100	150	200	250	300	350	400	450	500	550	600
Weight (kg) Note 4	2.3	2.4	2.6	2.8	2.9	3.1	3.3	3.4	3.6	3.8	3.9	4.1

Note 1. Distance from both ends to the mechanical stopper.
Note 2. Either right or left can be selected for the installation direction for the φ6 intake air joint.
Note 3. Minimum bend radius of motor cable is R50.
Note 4. 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.

C5H

Origin at non-motor side

Ordering method

C5H - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - SR1-X - 05 - [ ] - [ ] - [ ]

Model	Lead	Brake	Direction of air coupler installation	Option	Stroke	Cable length Note 1	Controller	Driver	Usable for CE	Input/Output selection	Battery
	12: 12mm 6: 6mm	No entry: With no brake BK: With brake	LJ: Left (Standard) RJ: Right	Origin position: None: Standard Z: Non-motor side	50 to 600 (50mm pitch)	3L: 3.5m (Standard) 5L: 5m 10L: 10m	SR1-X TS-X Note 2	05: 100W or less 105 (TS-X)	No entry: Standard E: CE marking	N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profibus YC: YC-Link Note 3	No entry: None (Incremental specification) B: With battery (Absolute specification)

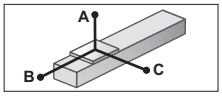
1. The robot cable is a standard cable and may be changed to a flex-resistant type. (consult factory)
2. To find TS-X selection options, see the ordering method listed on each controller's page.
3. Available only for the SR1-X slave.

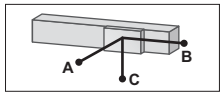
Basic specifications

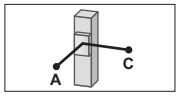
AC servo motor output (W)		30	
Repeatability Note 1 (mm)		+/-0.02	
Deceleration mechanism		Ball screw (Class C10)	
Ball screw lead (mm)		12	6
Maximum speed (mm/sec)		800	400
Maximum payload (kg)	Horizontal	5	9
	Vertical	1.2	2.4
Rated thrust (N)		32	64
Stroke (mm)		50 to 600 (50mm pitch)	
Overall length (mm)	Horizontal	Stroke+201.5	
	Vertical	Stroke+236.5	
Maximum outside dimension of body cross-section (mm)		W55 × H65	
Cable length (m)		Standard: 3.5 / Option: 5, 10	
Degree of cleanliness		CLASS 10 Note 2	
Intake air (Nℓ/min)		20 to 30 Note 3	

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
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	3kg	1194	104	294
Lead 6	9kg	624	31	89

Wall installation (Unit: mm)

		A	B	C
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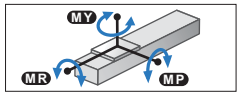
Static loading moment



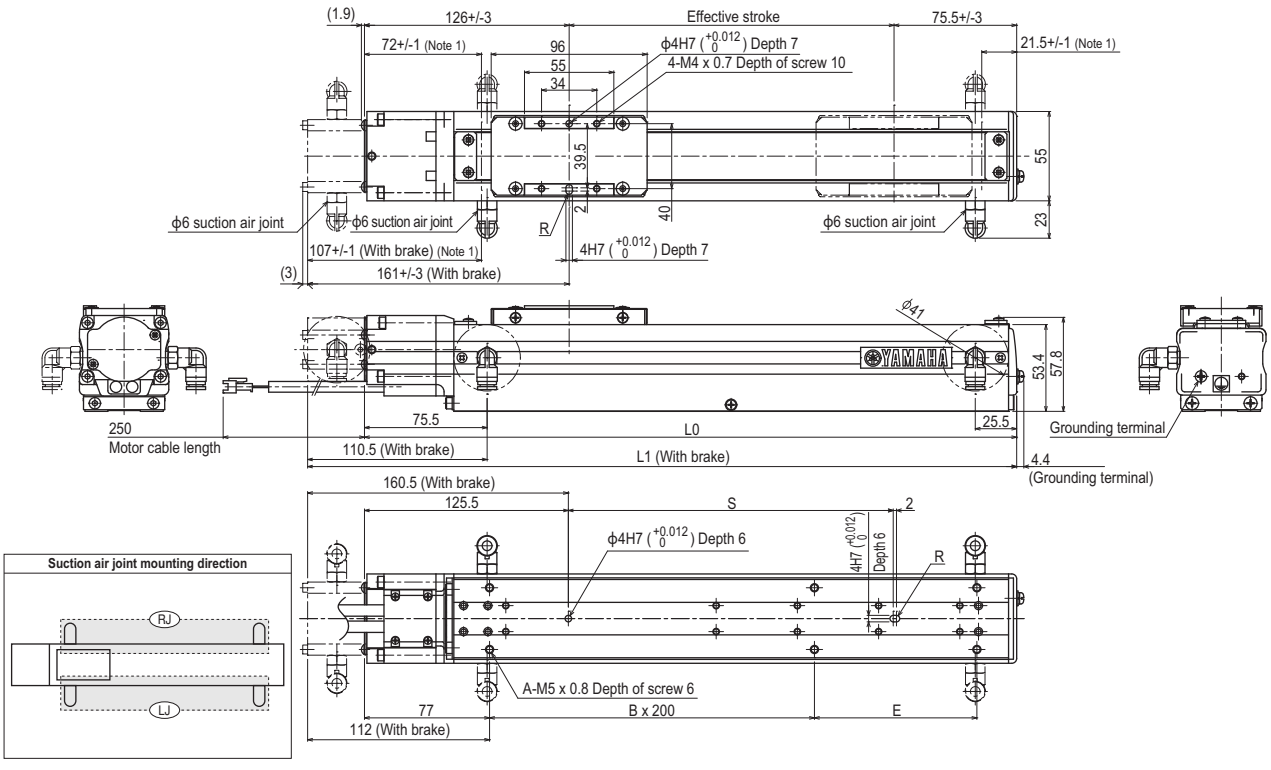
(Unit: N·m)

MY	MP	MR
30	34	40

Controller

Controller	Operation method
SR1-X-05	Programming / I/O point trace (BCD)/ Remote command / Operation using RS-232C communication
TS-X105	I/O point trace (BCD)

C5H



Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600
A	4	4	4	6	6	6	6	8	8	8	8	10
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E	100	200	200	100	100	200	200	100	100	200	200	100
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