

C10



● Origin at opposite of motor

Robot ordering method

C10 - [] - [] - [] - [] - [] - **SR1-X - 05** - [] Note

Model - **Lead designation** - **Brake** - **Option** - **Stroke** - **Cable length** - **Applicable controller** - **Driver**

Lead designation: 20 : 20mm, 10 : 10mm, 5 : 5mm
 Brake: No entry : No brakes, BK : Brakes provided
 Option: Origin position change: None : Standard, Z : At the reverse-side motor
 Stroke: 150 to 1050 (100mm pitch)
 Cable length: 3L : 3.5m (Standard), 5L : 5m, 10L : 10m
 Applicable controller: SR1-X, RDX
 Driver: []

Note : For the details of the controller, please refer to the catalog of Yamaha Controllers.

Basic specifications

AC servo motor output (W)	100		
Repeatability (mm)	±0.01		
Deceleration mechanism	Ball screw (Class C7)		
Ball screw lead (mm)	20	10	5
Maximum speed (mm/sec)	to 650st.	1000	500
	750st.	950	475
	850st.	750	375
	950st.	600	300
Maximum payload (kg)	Horizontal	20	40
	Vertical	4	10
Rated thrust (N)	Horizontal	84	169
	Vertical	39	39
Stroke (mm)	150 to 1050 (100 pitch)		
Total length (mm)	Stroke + 283		
Maximum dimensions of cross section of main unit (mm)	104 x 85		
Cable length (m)	Standard : 3.5 Option : 5, 10		
Degree of cleanliness	CLASS10 ^{Note 1}		
Intake air (ℓ/min)	30 to 90 ^{Note 2}		

Note 1 : Per 1cf (0.1μm base), when the suction blower is used.
 The necessary intake amount varies depending on the use conditions and environment.

Tolerable overhang amount ^{Note}

Lead	During horizontal use (Unit: mm)			During wall installation use (Unit: mm)			During vertical use (Unit: mm)				
	A	B	C	A	B	C	A	C			
Lead 20	5kg	1875	530	510	5kg	496	451	1826	1kg	2461	2492
	10kg	1079	247	242	10kg	218	168	1002	2kg	1213	1244
	20kg	628	106	107	20kg	78	27	497	4kg	585	617
Lead 10	15kg	765	156	164	10kg	230	170	1036	4kg	627	658
	30kg	425	62	66	20kg	80	29	506	8kg	280	312
	40kg	350	38	42	30kg	30	0	311	10kg	210	242
Lead 5	30kg	960	63	68	10kg	234	170	2716	10kg	213	244
	50kg	565	25	28	20kg	82	29	1206	15kg	119	151
	60kg	470	16	17	30kg	31	0	711	20kg	72	104

Note : Distance from center of slider upper surface to conveyor center-of-gravity at a guide service life of 10,000 km.

Static load moment

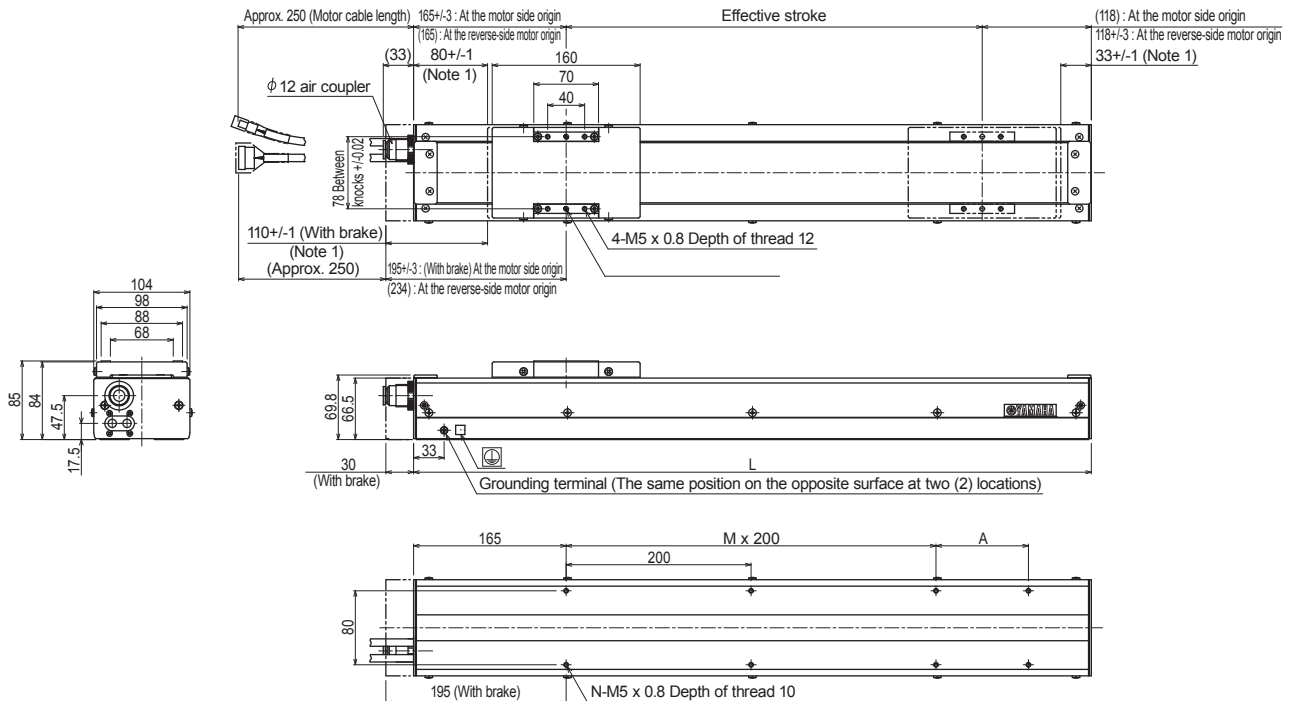
(Unit: mm)		
MY	MP	MR
119	119	105

Applicable controller

Controller	Operating method
RDX-05-RBR1	Pulse train
SR1-X05 ^{Note}	Program / point tracing

Note : RG1 is required when the models used vertically and with 700mm or larger stroke.

C10



Effective stroke	150	250	350	450	550	650	750	850	950	1050
L	433	533	633	733	833	933	1033	1133	1233	1333
A	200	100	200	100	200	100	200	100	200	100
M	0	1	1	2	2	3	3	4	4	5
N	4	6	6	8	8	10	10	12	12	14
Weight (kg) ^(Note 4)	4.4	5.5	6.7	7.8	9.0	10.1	11.3	12.4	13.6	14.7

Note 1 : Length from both ends to mechanical stopper position.
 Note 2 : For basic functions, please refer to the brochure or contact YAMAHA Motor Co., Ltd.
 Note 3 : The minimum bend radius of the motor cable is R50.
 Note 4 : This is the weight of the model without a brake.
 Note 5 : The weight of the model equipped with a brake is 0.4kg heavier than this value.