

C14

Origin at non-motor side



Ordering method

C14						SR1-X	05				
Model	Lead	Brake	Option	Stroke	Cable length	Controller	Driver	Usable for CE	Regenerative unit	Input/Output selection	Battery
	20: 20mm 10: 10mm 5: 5mm	No entry: With no brake BK: With brake	Origin position None: Standard Z: Non-motor side	150 to 1050 (100mm 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	No entry: None R: RGI (SR1-X) R: RGT (TS-X)	N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profibus YC: YC-Link ^{Note 4}	No entry: None (Incremental specification) B: With battery (Absolute specification)

- The robot cable is a standard cable and may be changed to a flex-resistant type. (consult factory)
- To find TS-X selection options, see the ordering method listed on each controller's page.
- When using SR1-X or TS-X, if the moving stroke of the vertical model is 700mm or longer, a regeneration unit is required.
- Available only for the SR1-X slave.

Basic specifications

AC servo motor output (W)	100		
Repeatability ^{Note 1} (mm)	+/-0.01		
Deceleration mechanism	Ball screw (Class C7)		
Ball screw lead (mm)	20	10	5
Maximum speed ^{Note 2} (mm/sec)	1000	500	250
Maximum payload (kg)	Horizontal	30	55
	Vertical	4	10
Rated thrust (N)	Horizontal	84	169
	Vertical	169	339
Stroke (mm)	150 to 1050 (100mm pitch)		
Overall length (mm)	Horizontal	Stroke+285	
	Vertical	Stroke+315	
Maximum outside dimension of body cross-section (mm)	W136 x H96		
Cable length (m)	Standard: 3.5 / Option: 5, 10		
Degree of cleanliness	CLASS 10 ^{Note 3}		
Intake air (Nl/min)	30 to 90 ^{Note 4}		

- Note 1. Positioning repeatability in one direction.
 Note 2. When the stroke is longer than 750mm, 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 below.
 Note 3. Per 1cf (0.1µm base), when suction blower is used.
 Note 4. The necessary intake amount varies depending on the use conditions and environment.

Allowable overhang^{Note}

	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)					
	A	B	C	A	B	C	A	C				
Lead 20	5kg	2127	1384	968	5kg	1047	968	1553	Lead 20	1kg	600	600
	15kg	1177	459	425	15kg	387	264	748		2kg	1200	1200
	30kg	1247	242	291	30kg	206	97	633		4kg	1141	885
Lead 10	20kg	1120	349	353	20kg	299	180	658	Lead 10	4kg	1216	943
	40kg	857	179	215	40kg	127	49	363		8kg	621	482
	55kg	932	138	182	55kg	79	16	296		10kg	503	390
Lead 5	50kg	2017	250	335	50kg	233	103	1033	Lead 5	10kg	574	445
	60kg	1477	134	192	60kg	75	13	433		15kg	370	287
	80kg	1452	106	157	80kg	35	0	242		20kg	268	208

- 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

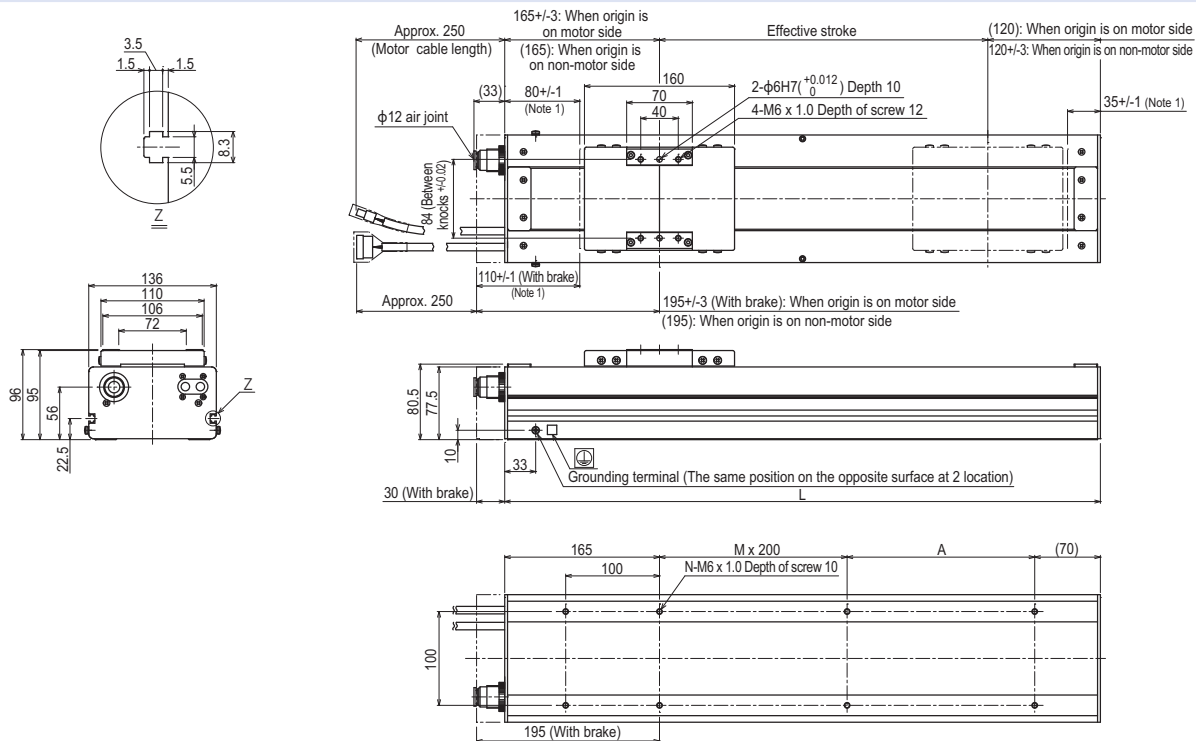
MY	MP	MR
232	233	204

Controller

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

- Note. Regenerative unit is required when the models used vertically and with 700mm or larger stroke.

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Effective stroke	150	250	350	450	550	650	750	850	950	1050
	L	435	535	635	735	835	935	1035	1135	1235
A	200	100	200	100	200	100	200	100	200	100
M	0	1	1	2	2	3	3	4	4	5
N	6	8	8	10	10	12	12	14	14	16
Weight (kg) ^{Note 3}	9.2	10.5	11.7	13.0	14.3	15.5	16.8	18.1	19.3	20.6
Maximum speed ^{Note 4} (mm/sec)	Lead 20	1000			950			750	600	500
	Lead 10	500			475			375	300	250
	Lead 5	250			237			187	150	125
	Speed setting	-			95%			75%	60%	50%

- Note 1. Distance from both ends to the mechanical stopper.
 Note 2. Minimum bend radius of motor cable is R50.
 Note 3. Weight of models with no brake. The weight of brake-attached models is 0.4 kg heavier than the models with no brake shown in the table.
 Note 4. When the stroke is longer than 750mm, 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.