

C14

Origin on the non-motor side is selectable



Ordering method

C14	Model	Lead	Brake	Option	Stroke	Cable length	TSX	SR1-X	RDV-X	05	05	RBR1
		20: 20mm 10: 10mm 5: 5mm	No entry: With no brake BK: With brake	Origin position change None: Standard Z: Non-motor side	150 to 1050 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	Positioner TS-X	Controller SR1-X	Driver RDV-X	Power-supply voltage / Power capacity 05: 100W or less	Driver: Power capacity 05: 100W or less	Regenerative unit RBR1
							Driver: Power-supply voltage / Power capacity 105: 100V/100W or less 205: 200V/100W or less	Usable for CE No entry: Standard E: CE marking	Power-supply voltage 2: AC200V		Usable for CE No entry: None R: With RGT	Regenerative unit No entry: None R: With LCD
								Regenerative unit No entry: None R: With RGT			Regenerative unit No entry: None R: With RGT	Regenerative unit No entry: None R: With RGT
											I/O selection N: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board	I/O selection N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS
											I/O selection N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	I/O selection N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS
											Battery B: With battery (Absolute) N: None (Incremental)	Battery B: With battery (Absolute) N: None (Incremental)

Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.594 for details on robot cable.
Note 2. See P.498 for DIN rail mounting bracket.
Note 3. Select this selection when using the gateway function. For details, see P.60.

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)	1000 500 250
Maximum payload (kg)	Horizontal 30 55 80 Vertical 4 10 20
Rated thrust (N)	84 169 339
Stroke (mm)	150 to 1050 (50mm 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
Intake air (Nl/min)	30 to 90

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 (0.1um base), when suction blower is used.
Note 4. The necessary intake amount varies depending on the use conditions and environment.

Allowable overhang

Lead	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	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	8kg 1216	943	
	40kg 857	179	215	40kg 127	49	363	10kg 503	390	
	55kg 932	138	182	55kg 79	16	296	15kg 370	287	
Lead 5	50kg 2017	250	335	50kg 233	103	1033	20kg 268	208	
	60kg 1477	134	192	60kg 75	13	433			
	80kg 1452	106	157	80kg 35	0	242			

Note. 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

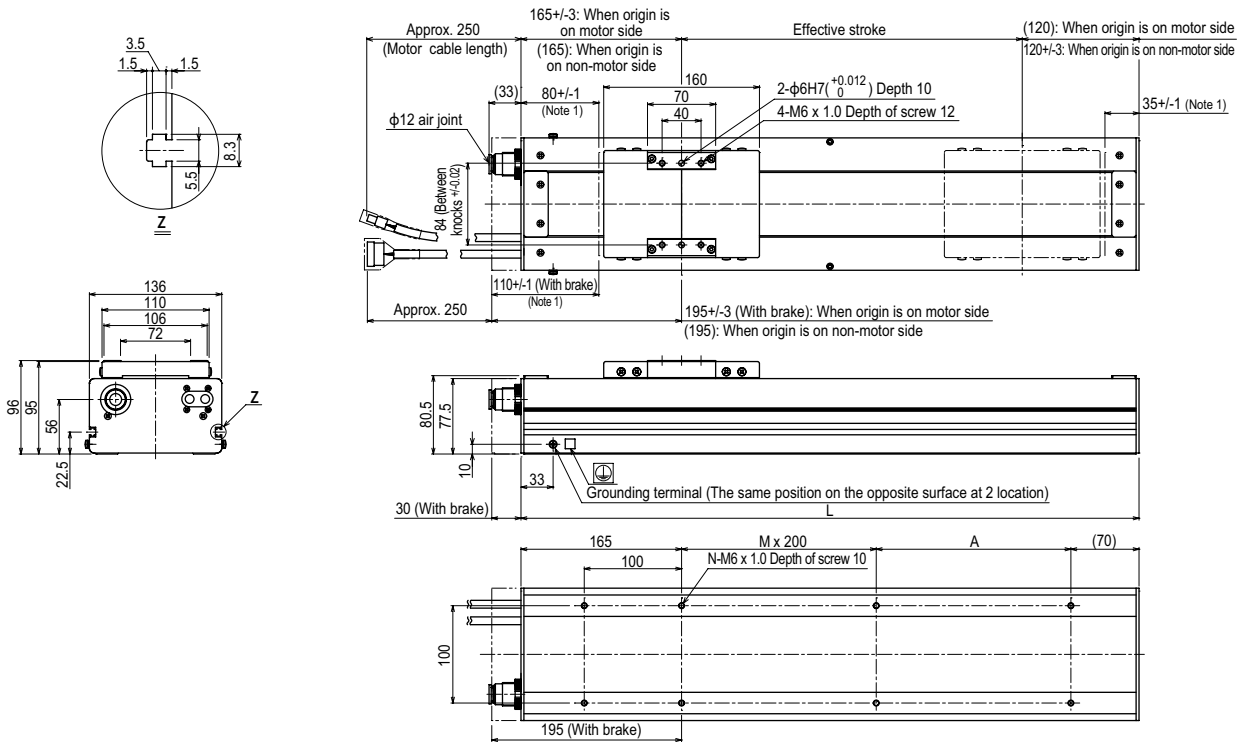
(Unit: N·m)		
MY	MP	MR
232	233	204

Controller

Controller	Operation method
SR1-X-05	Programming / I/O point trace / Remote command / Operation using RS-232C communication
RCX21/222 / RCX240/340	I/O point trace / Remote command
TS-X105 / TS-X205	Pulse train control
RDV-X205-RBR1	

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

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Effective stroke	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	
L	435	485	535	585	635	685	735	785	835	885	935	985	1035	1085	1135	1185	1235	1285	1335	
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	
N	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	
Weight (kg)	9.2	9.9	10.5	11.2	11.7	12.4	13.0	13.7	14.3	15.0	15.5	16.2	16.8	17.5	18.1	18.8	19.3	20.0	20.6	
Maximum speed (mm/sec)	Lead 20	1000																		
	Lead 10	500																		
	Lead 5	250																		
	Speed setting	95% 95% 75% 75% 60% 60% 50%																		

Note 1. Stop positions are determined by the mechanical stoppers at both ends.
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.

Controller

SR1-X ▶ 516 TS-X ▶ 490 RDV-X ▶ 504