

# C14H

● Origin on the non-motor side is selectable: Lead 20 • 10



## Ordering method

<b>C14H</b>	<b>Model</b>	<b>Lead</b> 20: 20mm 10: 10mm 5: 5mm	<b>Brake</b> No entry: With no brake BK: With brake	<b>Option</b> Origin position change None: Standard Z: Non-motor side <sup>Note 1</sup>	<b>Stroke</b> 150 to 1050 (50mm pitch)	<b>Cable length</b> <sup>Note 2</sup> 3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	<b>TSX</b> <b>Positioner</b> <sup>Note 3</sup> TS-X	<b>Driver: Power-supply voltage / Power capacity</b> 110: 100V/200W 210: 200V/200W	<b>Regenerative unit</b> No entry: None R: With RGT	<b>LCD monitor</b> No entry: None L: With LCD	<b>I/O selection</b> NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board <sup>Note 4</sup>	<b>Battery</b> B: With battery (Absolute) N: None (Incremental)
	<b>SR1-X</b>	<b>10</b>					<b>Controller</b> SR1-X	<b>Driver: Power capacity</b> 10: 200W	<b>Usable for CE</b> No entry: Standard E: CE marking	<b>Regenerative unit</b> No entry: None R: With RG1	<b>I/O selection</b> N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	<b>Battery</b> B: With battery (Absolute) N: None (Incremental)
	<b>RDV-X</b>	<b>2</b>					<b>Driver</b> RDV-X	<b>Power-supply voltage</b> 2: AC200V		<b>10</b>	<b>RBR1</b>	<b>Regenerative unit</b>

Note 1. If selecting 5mm lead specifications then the origin point cannot be changed to the non-motor side.  
 Note 2. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.732 for details on robot cable.  
 Note 3. See P.634 for DIN rail mounting bracket.  
 Note 4. Select this selection when using the gateway function. For details, see P.96.

## Basic specifications

AC servo motor output (W)	200
Repeatability <sup>Note 1</sup> (mm)	+/-0.01
Deceleration mechanism	Ball screw φ15
Ball screw lead (mm)	20    10    5
Maximum speed <sup>Note 2</sup> (mm/sec)	1000    500    250
Maximum payload (kg)	Horizontal: 40, 80, 100 Vertical: 8, 20, 30
Rated thrust (N)	170    341    683
Stroke (mm)	150 to 1050 (50mm pitch)
Overall length (mm)	Horizontal: Stroke+349 Vertical: Stroke+379
Maximum outside dimension of body cross-section (mm)	W136 × H96
Cable length (m)	Standard: 3.5 / Option: 5, 10
Degree of cleanliness	CLASS 10 <sup>Note 3</sup>
Intake air (Nl/min)	30 to 90 <sup>Note 4</sup>

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 <sup>Note</sup>

	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)		
	A	B	C	A	B	C	Lead 20	A	C
Lead 20	10kg	2247	1675	987	1210	1678	4kg	2400	2008
	20kg	1397	855	497	548	958	6kg	1687	1358
	40kg	1037	445	247	217	598	8kg	1287	1033
Lead 10	30kg	1937	583	402	328	1238	10kg	1347	1088
	50kg	1637	364	227	152	878	15kg	887	718
	80kg	1717	242	119	74	678	20kg	657	538
Lead 5	60kg	2443	311	197	108	1308	20kg	747	608
	80kg	2193	242	127	53	1008	25kg	663	484
	100kg	2000	202	85	20	788	30kg	491	396

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

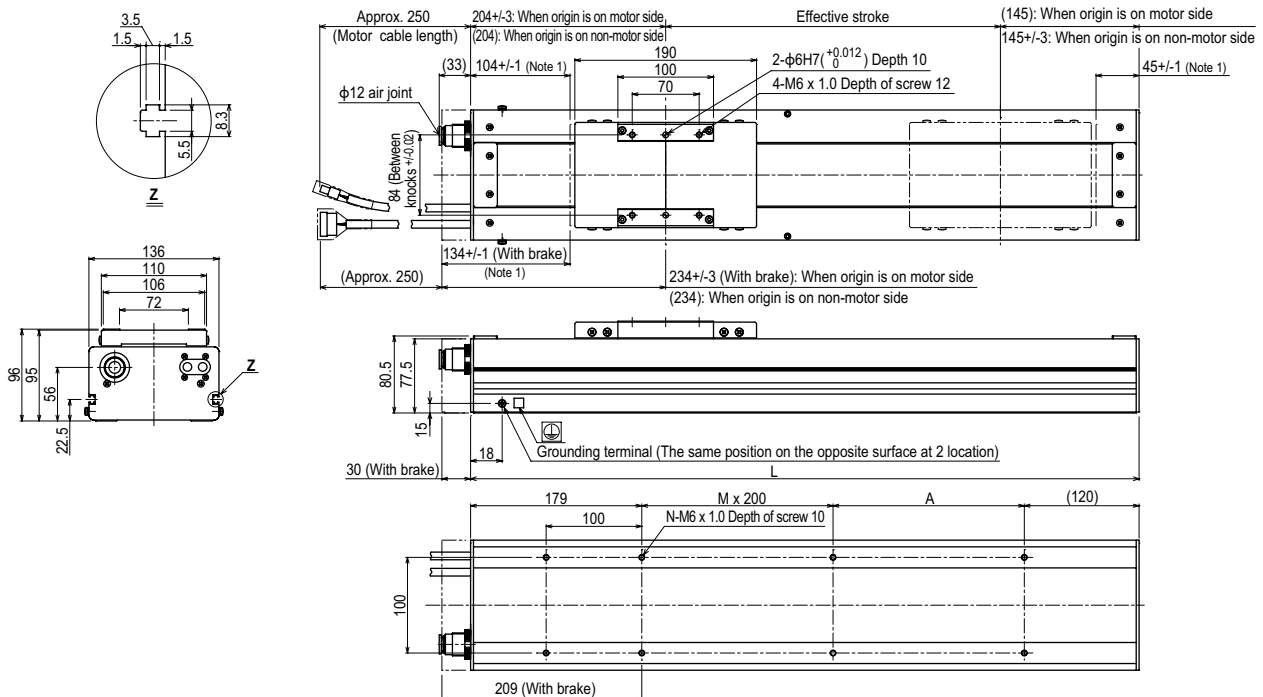
(Unit: N·m)		
MY	MP	MR
293	294	258

## Controller

Controller	Operation method
SR1-X10 <sup>Note</sup>	Programming / I/O point trace / Remote command
RCX320	Operation using RS-232C communication
RCX221/222	
RCX340	
TS-X110 <sup>Note</sup>	I/O point trace / Remote command
TS-X210 <sup>Note</sup>	
RDV-X210-RBR1	Pulse train control

Note. Regenerative unit is required when used vertically.

## C14H



Effective stroke	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
	L	499	549	599	649	699	749	799	849	899	949	999	1049	1099	1149	1199	1249	1299	1349
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) <sup>Note 3</sup>	10.7	11.4	12.0	12.7	13.2	13.9	14.5	15.2	15.8	16.5	17.0	17.7	18.3	19.0	19.6	20.3	20.8	21.5	22.1
Maximum speed <sup>Note 4</sup> (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.  
 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.