C14

Origin on the non-motor side is selectable

Ordering method

C14 – [ ] – [ ] – [ ] – [ ] – [ ]

Model	Lead	Brake	Option	Stroke	Cable length Note 1
	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)

TSX – [ ] – [ ] – [ ] – [ ] – [ ] – [ ]

Positioner Note 2	Driver: Power-supply voltage / Power capacity	Regenerative unit	LCD monitor	I/O selection	Battery
TS-X	105: 100V/100W or less 205: 200V/100W or less	No entry: None R: With RGT	No entry: None L: With LCD	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board Note 3	B: With battery (Absolute) N: None (Incremental)

SR1-X – **05** – [ ] – [ ] – [ ] – [ ]

Controller	Driver: Power capacity	Usable for CE	Regenerative unit	I/O selection	Battery
	05: 100W or less	No entry: Standard E: CE marking	No entry: None R: With RG1	N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	B: With battery (Absolute) N: None (Incremental)

RDV-X – **2** – **05** – **RBR1**

Driver	Power-supply voltage	Driver: Power capacity	Regenerative unit
	2: AC200V	05: 100W or less	

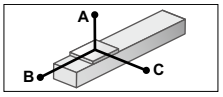
Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.692 for details on robot cable.
Note 2. See P.600 for DIN rail mounting bracket.
Note 3. Select this selection when using the gateway function.

Basic specifications

AC servo motor output (W)		100		
Repeatability Note 1 (mm)		+/-0.01		
Deceleration mechanism		Ball screw ϕ15		
Ball screw lead (mm)		20	10	5
Maximum speed Note 2 (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 × 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		

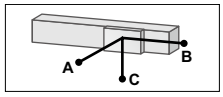
Note 1. Positioning repeatability in one direction.
Note 2. When the stroke is longer than 750mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.
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



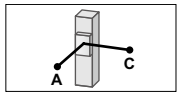
Horizontal installation (Unit: mm)

		A	B	C
Lead 20	5kg	2127	1384	968
	15kg	1177	459	425
	30kg	1247	242	291
Lead 10	20kg	1120	349	353
	40kg	857	179	215
	55kg	932	138	182
Lead 5	50kg	2017	250	335
	60kg	1477	134	192
	80kg	1452	106	157



Wall installation (Unit: mm)

		A	B	C
Lead 20	5kg	1047	968	1553
	15kg	387	264	748
	30kg	206	97	633
Lead 10	20kg	299	180	658
	40kg	127	49	363
	55kg	79	16	296
Lead 5	50kg	233	103	1033
	60kg	75	13	433
	80kg	35	0	242

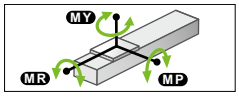


Vertical installation (Unit: mm)

		A	C
Lead 20	1kg	600	600
	2kg	1200	1200
	4kg	1141	885
Lead 10	4kg	1216	943
	8kg	621	482
	10kg	503	390
Lead 5	10kg	574	445
	15kg	370	287
	20kg	268	208

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)

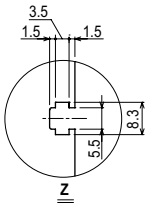
MY	MP	MR
232	233	204

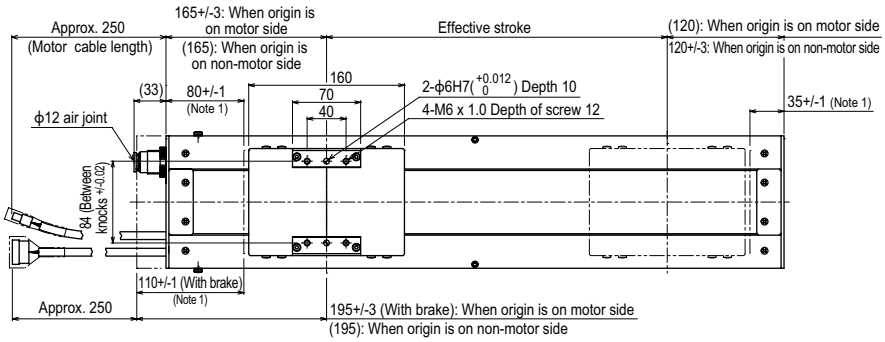
Controller

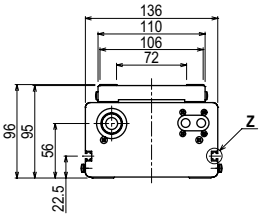
Controller	Operation method
SR1-X-05 Note RCX320 RCX340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X105 Note	I/O point trace /
TS-X205 Note	Remote command
RDV-X205-RBR1	Pulse train control

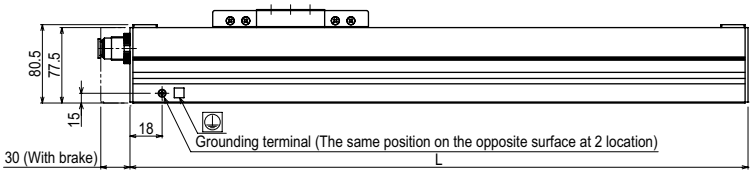
Note. Regenerative unit is required when the models used vertically and with 700mm or larger stroke.

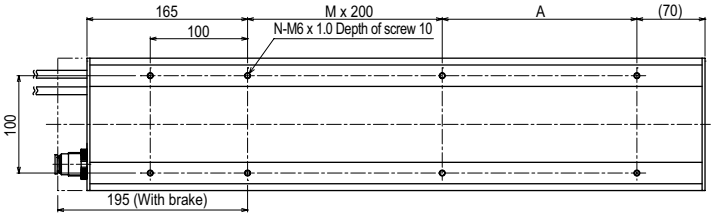
C14











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) Note 3		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 Note 4 (mm/sec)	Lead 20	1000												950	950	750	750	600	600	500
	Lead 10	500												475	475	375	375	300	300	250
	Lead 5	250												237	237	187	187	150	150	125
	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.

Controller | SR1-X ▸ 618 | TS-X ▸ 592 | RDV-X ▸ 606