



Ordering method

C8					
Model	Lead	Brake Note 1	Option	Stroke	Cable length Note 2
	20: 20mm 12: 12mm 6: 6mm	No entry: With no brake BK: With brake	Origin position None: Standard Z: Non-change motor side	150 to 800 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)

TSX			
Positioner Note 3	Driver: Power supply voltage / Power capacity 105: 100V/100W or less 205: 200V/100W or less	LCD monitor No entry: None L: With LCD	I/O selection NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board Note 4
			Battery B: With battery (Absolute) N: None (Incremental)
SR1-X	05		
Controller	Driver: Power capacity 05: 100W or less	Usable for CE No entry: Standard E: CE marking	I/O selection N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS
			Battery B: With battery (Absolute) N: None (Incremental)
RDV-X	2	05	RBR1
Driver	Power supply voltage 2: AC200V	Driver: Power capacity 05: 100W or less	Regenerative unit

Note 1. The model with a lead of 20mm cannot select specifications with brake (vertical specifications).

Note 2. 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 3. See P.498 for DIN rail mounting bracket.

Note 4. Select this selection when using the gateway function. For details, see P.60.

Basic specifications

AC servo motor output (W)	100			
Repeatability Note 1 (mm)	±0.02			
Deceleration mechanism	Ball screw (Class C10)			
Ball screw lead (mm)	20	12	6	
Maximum speed (mm/sec)	1000	720	360	
	Horizontal	12	20	40
Maximum payload (kg)	Vertical	-	4	8
	84	141	283	
Rated thrust (N)	150 to 800 (50mm pitch)			
Stroke (mm)	150 to 800 (50mm pitch)			
Overall length (mm)	Horizontal	Stroke+320		
	Vertical	Stroke+355		
Maximum outside dimension of body cross-section (mm)	W80 × H75			
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 600mm, 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 Note

Horizontal installation (Unit: mm)				
	A	B	C	
Lead 20	5kg	245	85	146
	10kg	131	39	69
	12kg	115	31	57
Lead 12	5kg	364	92	192
	10kg	207	43	92
	15kg	144	26	41
Lead 6	10kg	406	47	124
	20kg	225	20	54
	30kg	162	11	31
40kg	168	7	20	

Wall installation (Unit: mm)				
	A	B	C	
Lead 20	5kg	121	71	211
	10kg	42	24	88
	12kg	29	16	66
Lead 12	5kg	164	78	328
	10kg	62	29	158
	15kg	26	12	83
Lead 6	10kg	87	33	353
	20kg	18	6	127
	30kg	0	0	0
40kg	0	0	0	

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

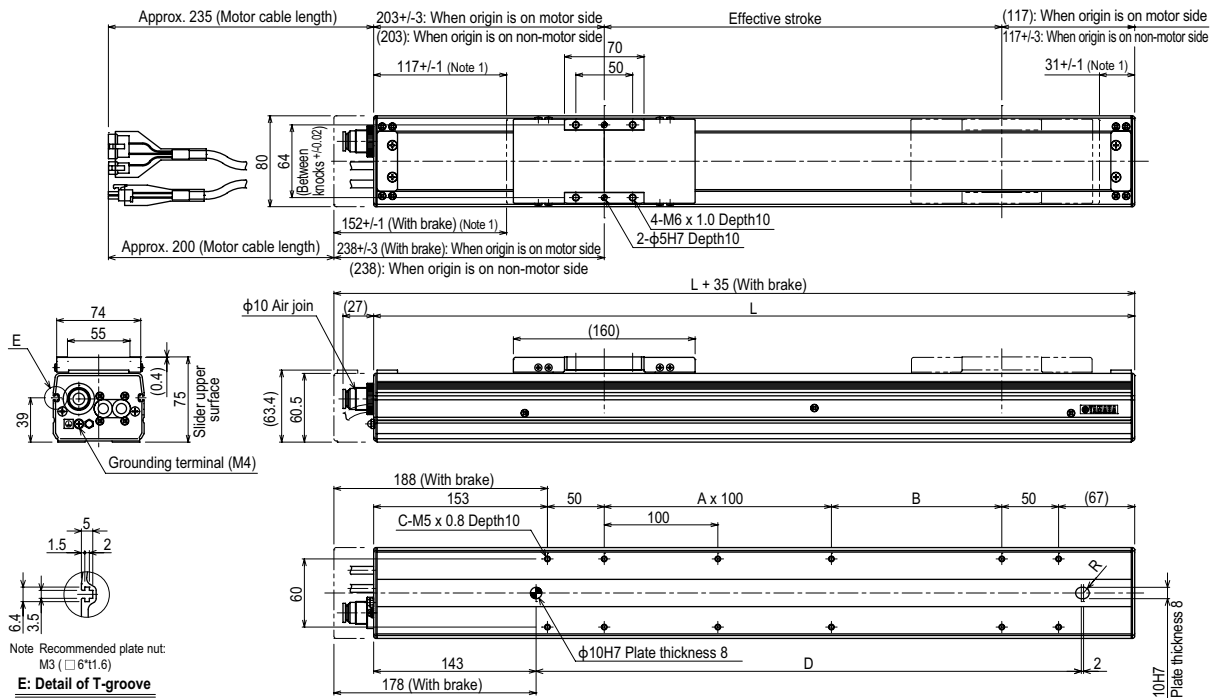
Static loading moment

	(Unit: N·m)		
	MY	MP	MR
	70	95	110

Controller

Controller	Operation method
SR1-X05 RCX221/222 RCX240/340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X105	I/O point trace / Remote command
TS-X205	
RDV-X205-RBR1	Pulse train control

C8



Note. Recommended plate nut: M3 (□6×1.6)

E: Detail of T-groove

Effective stroke	150	200	250	300	350	400	450	500	550	600	650	700	750	800	
	L	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120
A	0	1	1	2	2	3	3	4	4	5	5	6	6	7	
B	150	100	150	100	150	100	150	100	150	100	150	100	150	100	
C	8	10	10	10	12	14	14	16	16	18	18	20	20	22	
D	280	330	380	430	480	530	580	630	680	730	780	830	880	930	
Weight (kg) Note 3	Lead 20	3.6	3.9	4.1	4.4	4.7	5.0	5.3	5.6	5.9	6.2	6.4	6.7	7.0	7.3
	1000	950 800 700 650													
Maximum speed Note 4 (mm/sec)	Speed setting	95% 80% 70% 65%													
	Lead 12	720 648 540 468 360													
	Lead 6	360 324 270 234 216 180													
	Speed setting	90% 75% 65% 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 0.3 kg heavier than the models with no brake shown in the table.

Note 4. When the stroke is longer than 600mm, 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.