

T9H

● High lead: Lead 30

● Origin on the non-motor side is selectable: Lead 20-30

Note. Strokes longer than 1050mm are special order items. Please consult us for delivery time.



Ordering method

T9H		Model		Lead designation		Brake		Origin position change		Grease type		Stroke		Cable length		
				30: 30mm	20: 20mm	10: 10mm	5: 5mm	No entry/No brakes	BK: Brakes provided	None: Standard	Z: Non-motor side	None: Standard	GC: Clean	Lead 20/10/5: 150 to 1050 (50mm pitch)	Lead 30: 150 to 1250 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)

TSX		Model		Positioner		Driver		Regenerative unit		LCD monitor		I/O selection		Battery	
				TSX: TS-X		Driver: Power-supply voltage Power capacity	110: 100V/200W 210: 200V/200W	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	B: With battery (Absolute) N: None (Incremental)				

- Note 1. The model with a lead of 30mm cannot select specifications with brake (vertical specifications).
 Note 2. If selecting 10mm-5mm lead specifications then the origin point cannot be changed to the non-motor side.
 Note 3. 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 4. See P.634 for DIN rail mounting bracket.
 Note 5. Select this selection when using the gateway function. For details, see P.96.

SR1-X		Model		Controller		Driver		Usable for CE		Regenerative unit		I/O selection		Battery	
				10		Driver: Power capacity	10: 200W	No entry: Standard E: CE marking	No entry: None R: With RGT	N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	B: With battery (Absolute) N: None (Incremental)				

Specifications

AC servo motor output (W)	200		
Repeatability (mm)	±0.01		
Deceleration mechanism	Ball screw φ15		
Ball screw lead (mm)	30	20	10
Maximum speed (mm/sec)	1800	1200	600
Maximum payload (kg)	Horizontal	Vertical	
Rated thrust (N)	113	170	341
Stroke (mm)	150 to 1250 (50mm pitch)		
Overall length (mm)	Horizontal	Vertical	
Maximum dimensions of cross section of main unit (mm)	W94 × H98		
Cable length (m)	Standard: 3.5 / Option: 5.10		
Linear guide type	4 rows of circular arc grooves × 1 rail		
Position detector	Resolvers		
Resolution (Pulse/rotation)	16384		

- Note 1. Positioning repeatability in one direction.
 Note 2. When the stroke is longer than 700mm, 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. Strokes longer than 1050mm are available only for high lead (Lead 30). (Special order item)
 Note 4. Position detectors (resolvers) are common to incremental and absolute specifications. If the controller has a backup function then it will be absolute specifications.

Allowable overhang

Installation	Lead	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)				
		A	B	C	A	B	C	A	B	C		
Horizontal	30	10kg	415	286	183	10kg	140	120	323	4kg	515	515
	20	20kg	270	105	93	20kg	41	0	123	6kg	334	334
	10	10kg	667	244	225	10kg	170	128	549	8kg	244	244
	5	20kg	330	112	107	20kg	46	0	182	10kg	217	217
Wall	30	40kg	162	42	47	40kg	0	0	0	15kg	133	133
	20	30kg	392	75	81	20kg	52	0	335	20kg	90	90
	10	50kg	297	40	44	25kg	24	0	235	15kg	135	135
	5	80kg	265	21	24	30kg	0	0	108	20kg	92	92
Vertical	30	60kg	477	22	37	20kg	54	0	710	30kg	49	49
	20	80kg	412	22	25	25kg	25	0	505			
	10	100kg	362	16	18	30kg	0	0	355			
	5											

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

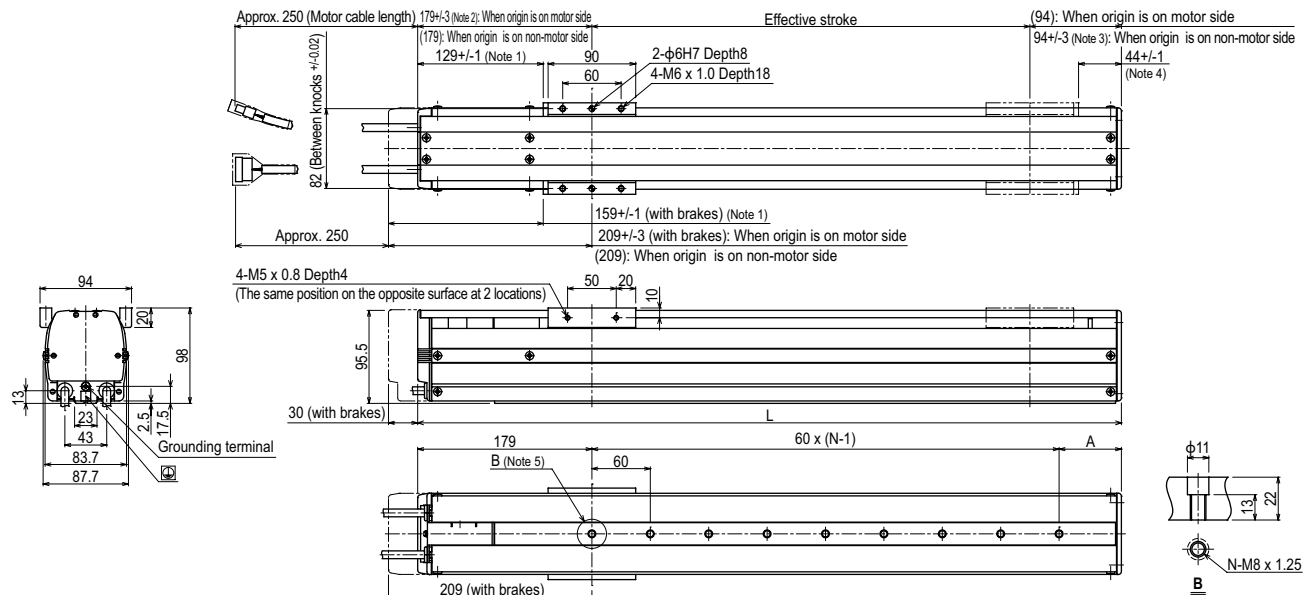
Moment	(Unit: N·m)		
	MY	MP	MR
86	133	117	

Controller

Controller	Operation method
SR1-X10 Note	Programming / I/O point trace / Remote command / Operation using RS-232C communication
RXC320	
RXC221/222	
RCX340	
TS-X110 Note	I/O point trace / Remote command
TS-X210 Note	Pulse train control
RDV-X210-RBR1	

Note. When using the unit vertically, a regeneration unit is required.

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- Note 1. Stop positions are determined by the mechanical stoppers at both ends.
 Note 2. 181.5+/-4 when the high lead specification (Lead 30) is used.
 Note 3. 94+/-4 when the high lead specification (Lead 30) is used.
 Note 4. 41.5+/-1 when the high lead specification (Lead 30) is used.
 Note 5. When installing the unit, washers, etc., cannot be used in the φ11 counter bore hole.
 Note 6. Minimum bend radius of motor cable is R5.
 Note 7. Weight of models with no brake. The weight of brake-attached models is 0.5 kg heavier than the models with no brake shown in the table.

Effective stroke	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100 ^{Note 9}	1150 ^{Note 9}	1200 ^{Note 9}	1250 ^{Note 9}
	L	423	473	523	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173	1223	1273	1323	1373	1423	1473
A	64	54	44	94	84	74	64	54	44	94	84	74	64	54	44	94	84	74	64	54	44	94	84
N	4	5	6	6	7	8	9	10	11	11	12	13	14	15	16	16	17	18	19	20	21	21	22
Weight (kg) ^{Note 7}	5.8	6.2	6.5	6.9	7.3	7.7	8.0	8.4	8.8	9.1	9.5	9.9	10.2	10.6	11.0	11.4	11.7	12.1	12.5	12.9	13.3	13.7	14.1
Maximum speed (mm/sec) ^{Note 8}	Lead 30	1800																					
	Lead 20	1200																					
	Lead 10	600																					
	Lead 5	300																					
Speed setting	80%																						

- Note 8. When the stroke is longer than 700mm, 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 above.
 Note 9. Strokes longer than 1050mm are special order items. Please contact us for speed setting.