

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
	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)
					Cable length
					3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)

TSX				
Positioner	Driver: Power-supply voltage Power capacity	Regenerative unit	LCD monitor	I/O selection
TS-X	110: 100V/200W 210: 200V/200W	No entry: None R: With RGT	No entry: None L: With LCD	N: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board
				Battery
				B: With battery (Absolute) N: None (Incremental)
SR1-X 10				
Controller	Driver: Power capacity	Usable for CE	Regenerative unit	I/O selection
	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
				Battery
				B: With battery (Absolute) N: None (Incremental)
RDV-X 2		10		RBR1
Driver	Power-supply voltage	Driver: Power capacity	Regenerative unit	
	2: AC200V	10: 200W or less		

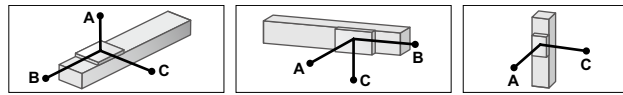
- Note 1. The model with a lead of 30mm cannot select specifications with brake (vertical specifications).
- Note 2. If selecting 10mm-5mm lead specifications then the origin point cannot be changed to the non-motor side.
- Note 3. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.614 for details on robot cable.
- Note 4. See P.522 for DIN rail mounting bracket.
- Note 5. Select this selection when using the gateway function. For details, see P.66.

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	
	25	40	80
Rated thrust (N)	113	170	341
Stroke (mm)	150 to 1250 (50mm pitch)		
Overall length (mm)	Stroke+273		
	Stroke+303		
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.

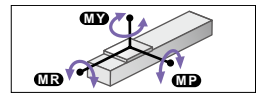
Allowable overhang



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	10kg	415	515
		20kg	270	105	93		41	0	123	6kg	334	334
		10kg	667	244	225	10kg	170	128	549	8kg	244	244
		20kg	330	112	107	20kg	46	0	182	10kg	217	217
Wall	30	40kg	162	42	47	40kg	0	0	0	15kg	133	133
		20kg	392	75	81	20kg	52	0	335	20kg	90	90
		10kg	297	40	44	25kg	24	0	235	15kg	135	135
		80kg	265	21	24	30kg	0	0	108	20kg	92	92
Vertical	30	60kg	477	22	37	20kg	54	0	710	30kg	49	49
		80kg	412	22	25	25kg	25	0	505			
		100kg	362	16	18	30kg	0	0	355			

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



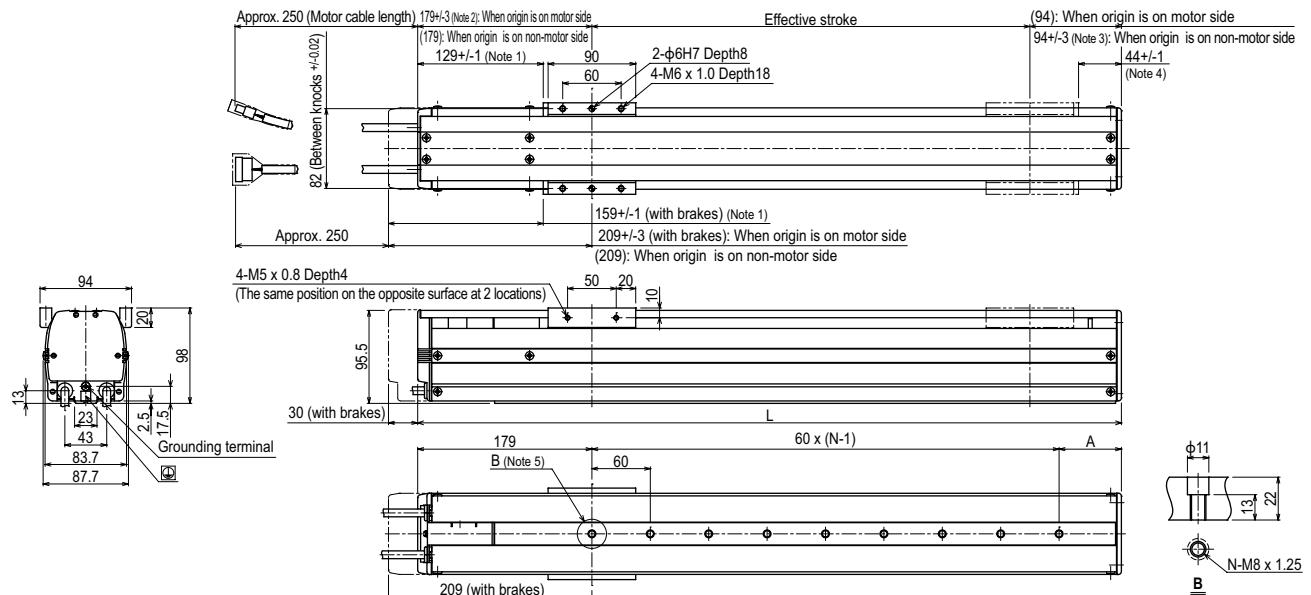
(Unit: N·m)		
MY	MP	MR
86	133	117

Controller

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

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±0.4 when the high lead specification (Lead 30) is used.
- Note 3. 94±0.4 when the high lead specification (Lead 30) is used.
- Note 4. 41.5±0.1 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	1523
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															1440	1170	900	810			
	Lead 20	1200															960	780	600	540			
	Lead 10	600															480	390	300	270			
	Lead 5	300															240	195	150	135			
Speed setting	-															80%	65%	50%	45%				

- 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.