

T9H



- High lead: Lead 30
- Origin at non-motor side: Lead 20-30

Ordering method

T9H						SR1-X	10					
Model	Lead designation	Brake	Option	Stroke	Cable length ^{Note 2}	Controller	Driver	Usable for CE marking	Regenerative unit ^{Note 4}	I/O selection	Battery	
	30: 30mm 20: 20mm 10: 10mm 5: 5mm	No entry: No brakes BK: Brakes provided	None: Standard Z: Non-motor side ^{Note 1} Grease type None: Standard GC: Clean	150 to 1050 (50mm pitch)	3L: 3.5m (Standard) 5L: 5m 10L: 10m 3K/5K/10K ^{Note 2}	SR1-X TS-X ^{Note 3} RDX ^{Note 3}	10: 200W	No entry: Standard E: CE marking	No entry: None R: RG1 (SR1-X)	N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profibus YC: YC-Link ^{Note 5}	No entry: None (Incremental specification) B: Battery (Absolute specification)	

Note 1. If selecting 10mm/5mm lead specifications then the origin point cannot be changed to the non-motor side.
 Note 2. The robot cable is standard cable, but can be changed to bend-resistant cable. (not supported on RDX). See P.423 for details on robot cable.
 Note 3. To find TS-X, RDX selection options, see the ordering method listed on each controller's page (TS-X: P.355, RDX: P.365).
 Note 4. When using the SR1-X, TS-X, a regenerative unit is required. When using the RDX, the regenerative unit RBR1 is required regardless of the installation conditions.
 Note 5. Available only for the slave.

Specifications

AC servo motor output (W)	200			
Repeatability ^{Note 1} (mm)	±0.01			
Deceleration mechanism	Ball screw (Class C7)			
Ball screw lead (mm)	30	20	10	5
Maximum speed ^{Note 2} (mm/sec)	1800	1200	600	300
Maximum payload (kg)	Horizontal	25	40	80
	Vertical	-	8	20
Rated thrust (N)	113	170	341	683
Stroke (mm)	150 to 1050 (50mm pitch)			
Overall length (mm)	Horizontal	Stroke+273		
	Vertical	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 ^{Note 3}			
Resolution (Pulse/rotation)	16384			

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. 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^{Note}

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

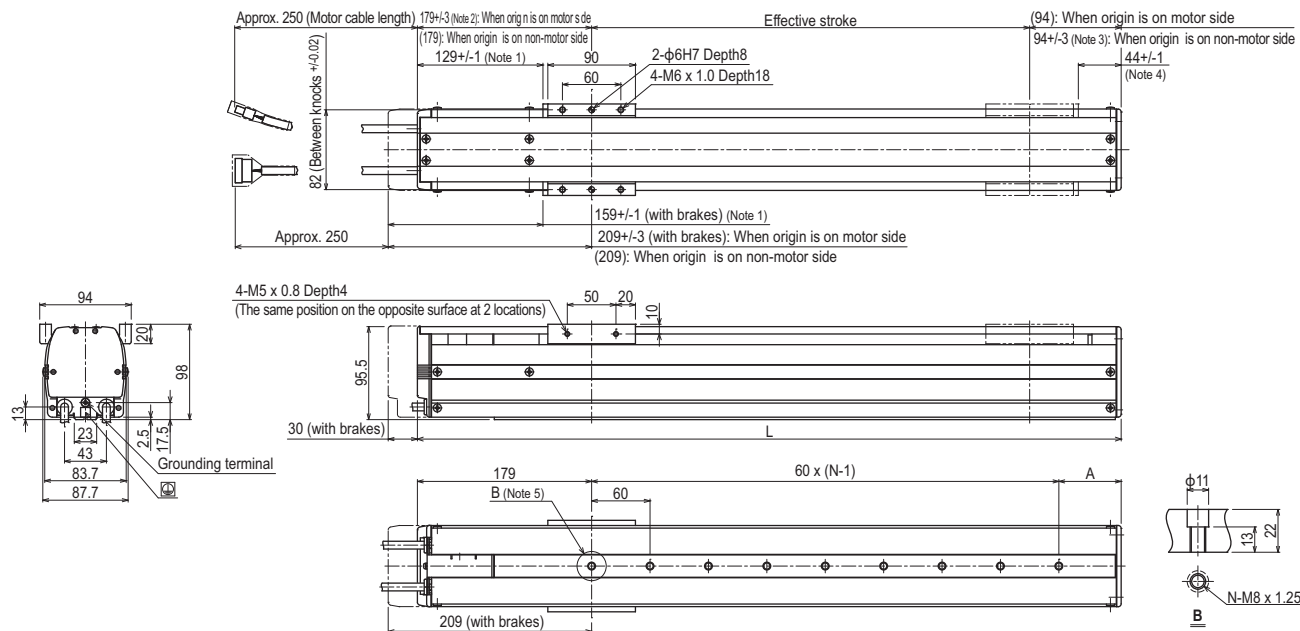
(Unit: N·m)		
MY	MP	MR
86	133	117

Controller

Controller	Operation method
SR1-X-10 ^{Note}	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X210 ^{Note}	I/O point trace
RDX-10-RBR1	Pulse train control

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

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Note 1. Distance from both ends to the mechanical stopper.
 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
	L	423	473	523	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173	1223	1273
A	64	54	44	94	84	74	64	54	44	94	84	74	64	54	44	94	84	74	64
N	4	5	6	6	7	8	9	10	11	11	12	13	14	15	16	16	17	18	19
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
Maximum speed ^{Note 8} (mm/sec)	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 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 above.