

T9

● High lead: Lead 30

● Origin on the non-motor side is selectable: Lead 10-20-30

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

Ordering method

T9	Model	Lead designation 30: 30mm 20: 20mm 10: 10mm 5: 5mm	Brake ^{Note 1} No entry: No brakes BK: Brakes provided	Origin position change None: Standard Z: Non-motor side ^{Note 2}	Grease type None: Standard GC: Clean	Stroke Lead 20-10-5: 150 to 1050 (50mm pitch) Lead 30: 150 to 1250 (50mm pitch)	Cable length ^{Note 3} 3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	TSX	Positioner ^{Note 4} TS-X	Driver: Power-supply voltage Power capacity 105: 100V/100W or less 205: 200V/100W or less	Regenerative unit No entry: None R: With RGT	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 5}	Battery B: With battery (Absolute) N: None (Incremental)	
								SR1-X	Controller	05	Driver: Power capacity 05: 100W or less	Usable for CE No entry: Standard E: CE marking	Regenerative unit No entry: None R: With RG1	I/O selection N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	Battery B: With battery (Absolute) N: None (Incremental)
								RDV-X	Driver	2	Power-supply voltage 2: AC200V	05	Driver: Power capacity 05: 100W or less	RBR1	Regenerative unit

- Note 1. The model with a lead of 30mm cannot select specifications with brake (vertical specifications).
 Note 2. If selecting 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)	100
Repeatability ^{Note 1} (mm)	+/-0.01
Deceleration mechanism	Ball screw $\phi 15$
Ball screw lead (mm)	30 20 10 5
Maximum speed ^{Note 2} (mm/sec)	1800 1200 600 300
Maximum payload (kg)	Horizontal 15 30 55 80 Vertical - 4 10 20
Rated thrust (N)	56 84 169 339
Stroke (mm)	150 to 1250 ^{Note 3} (50mm pitch)
Overall length (mm)	Horizontal Stroke+259 Vertical Stroke+289
Maximum dimensions of cross section of main unit (mm)	W94 x H98
Cable length (m)	Standard: 3.5 / Option: 5.10
Linear guide type	4 rows of circular arc grooves x 1 rail
Position detector	Resolvers ^{Note 4}
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

	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)			
	A	B	C	A	B	C	A	B	C	
Lead 30										
5kg	864	501	383	5kg	348	384	776	1kg	600	600
15kg	491	156	140	15kg	87	40	306	2kg	1098	1098
Lead 20										
5kg	1292	505	462	5kg	416	388	1186	4kg	545	545
15kg	572	158	151	15kg	92	42	386	8kg	280	280
30kg	455	73	75	30kg	0	0	61	10kg	217	217
Lead 10										
20kg	617	119	127	10kg	193	132	910	10kg	221	221
40kg	422	53	59	20kg	53	0	400	15kg	135	135
55kg	420	36	40	30kg	0	0	109	20kg	92	92
50kg	722	42	47	10kg	197	133	2360			
60kg	657	33	37	20kg	54	0	985			
80kg	577	23	25	30kg	0	0	427			

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

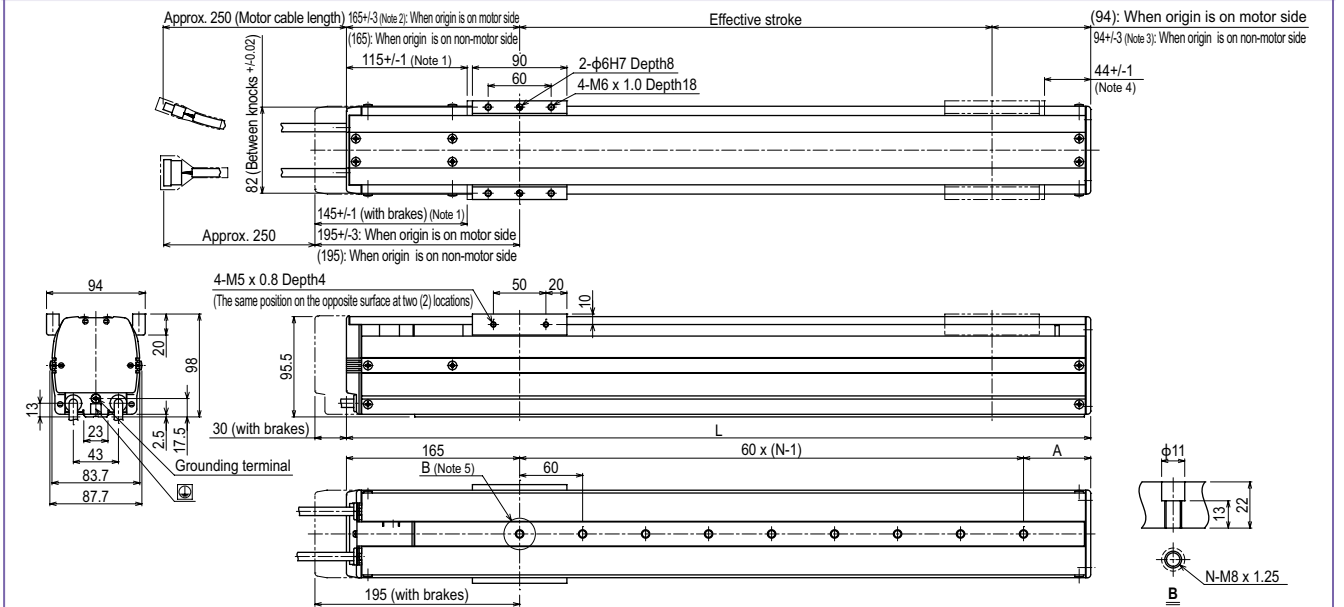
	MY	MP	MR
(Unit: N-m)	86	133	117

Controller

Controller	Operation method
SR1-X05 ^{Note}	Programming / I/O point trace / Remote command / Operation using RS-232C communication
RCX320	
RCX221/222	
RCX340	
TS-X105 ^{Note}	I/O point trace / Remote command
TS-X205 ^{Note}	
RDV-X205-RBR1	Pulse train control

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

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- Note 1. Stop positions are determined by the mechanical stoppers at both ends.
 Note 2. 167.5+/-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 $\phi 11$ 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	Stroke (mm)																				1100 ^{Note 9}	1150 ^{Note 9}	1200 ^{Note 9}	1250 ^{Note 9}	
	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050						
L	409	459	509	559	609	659	709	759	809	859	909	959	1009	1059	1109	1159	1209	1259	1309	1359	1409	1459	1509		
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}	5.5	5.9	6.2	6.6	6.9	7.3	7.6	8.0	8.3	8.7	9.0	9.4	9.7	10.0	10.3	10.7	11.0	11.4	11.7	12.1	12.5	12.9	13.3		
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 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.