

T6

High lead: Lead 20

Origin at non-motor side



Ordering method

T6 - [] - [] - [] - [] - SR1-X - 05 - [] - [] - [] - []											
Model	Lead designation	Brake	Option	Stroke	Cable length ^{Note 1}	Controller	Driver	Usable for CE	Regenerative unit	I/O selection	Battery
	20: 20mm 12: 12mm 6: 6mm	No entry: No brakes BK: Brakes provided	Origin position None: Standard Z: Non-motor side Grease type None: Standard GC: Clean	Lead 12: 6: 50 to 600 (50mm pitch) Lead 20: 50 to 800 (50mm pitch)	3L: 3.5m (Standard) 5L: 5m 10L: 10m	SR1-X TS-X ^{Note 2}	05: 100W or less 105 (TS-X)	No entry: Standard E: CE marking	No entry: None	N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profibus YC: YC-Link ^{Note 3}	No entry: None (Incremental specification) B: Battery (Absolute specification)

Note 1. The robot cable is standard cable, but can be changed to bend-resistant cable. (consult factory)

Note 2. To find TS-X, see the ordering method listed on each controller's page.

Note 3. Available only for the SR1-X slave.

Basic specifications

AC servo motor output (W)	60		
Repeatability ^{Note 1} (mm)	+/-0.02		
Deceleration mechanism	Ball screw (Class C10)		
Ball screw lead (mm)	20	12	6
Maximum speed ^{Note 2} (mm/sec)	1333	800	400
Maximum payload (kg)	Horizontal	10	12
	Vertical	-	4
Rated thrust (N)	51	85	170
Stroke (mm)	50 to 800 ^{Note 3} (50mm pitch)		
Overall length (mm)	Horizontal	Stroke+247.5	
	Vertical	Stroke+285.5	
Maximum dimensions of cross section of main unit (mm)	W65 x H56		
Cable length (m)	Standard: 3.5 / Option: 5, 10		
Linear guide type	2 rows of gothic arch grooves x 1 rail		
Position detector	Resolvers ^{Note 4}		
Resolution (Pulse/rotation)	16384		

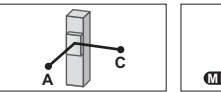
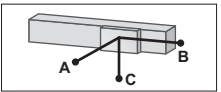
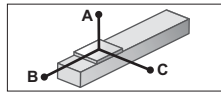
Note 1. Positioning repeatability in one direction.

Note 2. When the stroke is longer than 650mm, 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. 650mm or longer strokes are only available with high lead specifications (Lead 20).

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^{Note}



Horizontal installation (Unit: mm)		A	B	C
Lead 20	2kg	319	184	234
	6kg	98	37	77
	10kg	64	0	55
Lead 12	3kg	624	125	335
	8kg	273	41	121
	12kg	216	24	77
Lead 6	5kg	694	73	236
	10kg	374	33	109
	30kg	159	0	25

Wall installation (Unit: mm)		A	B	C
Lead 20	2kg	234	152	265
	6kg	61	13	71
	10kg	30	0	42
Lead 12	3kg	293	96	510
	8kg	89	14	210
	12kg	43	0	130
Lead 6	5kg	204	45	530
	10kg	72	0	245
	30kg	0	0	0

Vertical installation (Unit: mm)		A	C
Lead 12	1kg	355	352
	2kg	165	165
	4kg	70	72
	2kg	171	172
Lead 6	4kg	73	74
	8kg	23	26

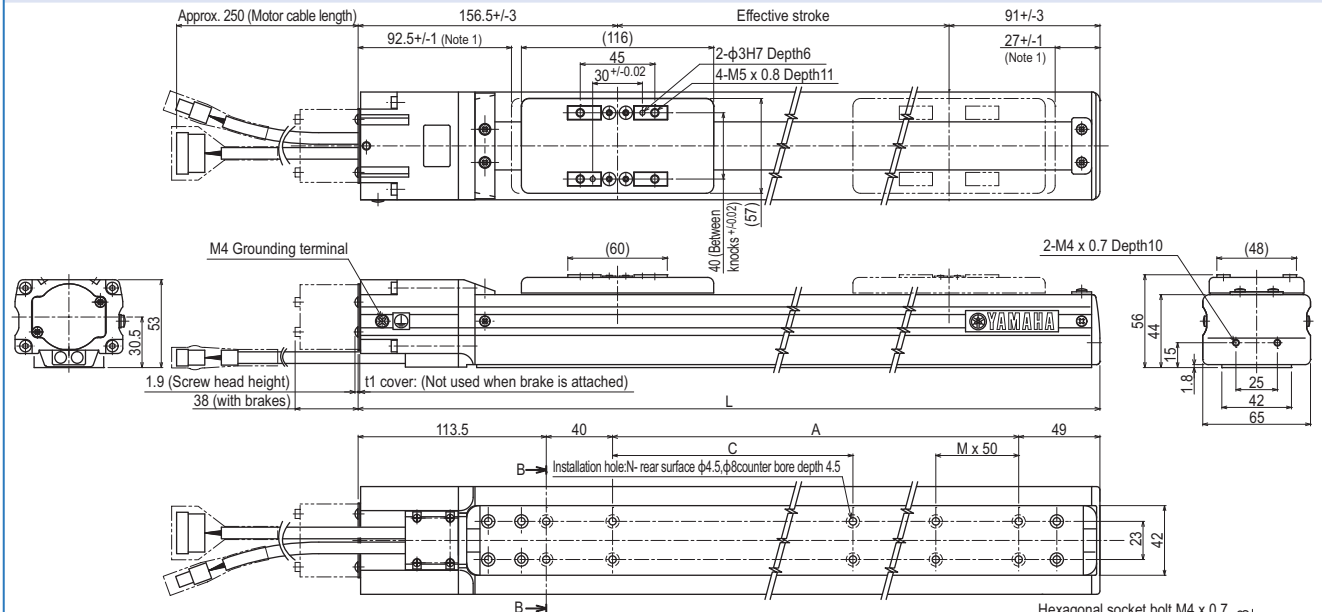
Static loading moment

Static loading moment (Unit: N-m)		
MY	MP	MR
35	40	50

Controller

Controller	Operation method
SR1-X-05	Programming / I/O point trace (BCD) / Remote command / Operation using RS-232C communication
TS-X105	I/O point trace (BCD)

T6



Note 1. Distance from both ends to the mechanical stopper.

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 0.2 kg heavier than the models with no brake shown in the table.

Note 4. Effective strokes of 650 to 800 mm are only available with high lead specifications (Lead 20).

Note 5. When the stroke is longer than 650mm, 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.

Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650 ^{Note 4}	700 ^{Note 4}	750 ^{Note 4}	800 ^{Note 4}
L	297.5	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5	897.5	947.5	997.5	1047.5
A	95	145	195	245	295	345	395	445	495	545	595	645	695	745	795	845
C	-	-	-	-	-	-	195	195	195	195	195	195	195	195	195	195
M	0	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9
N	6	8	10	12	14	16	8	10	12	14	16	18	20	22	24	26
Weight (kg) ^{Note 3}	2.5	2.7	3.1	3.3	3.5	3.7	4.0	4.2	4.5	4.7	5.0	5.2	5.5	5.7	6.0	6.2
Maximum speed ^{Note 5} (mm/sec)	Lead 20	1333														
	Lead 12	800														
	Lead 6	400														
	Speed setting	-														
													85%	75%	65%	60%