



Ordering method

T4L							ERCD			
Model	Lead designation	Brake	Origin position change	Grease type	Stroke	Cable length ^{Note1}	Controller	I/O connector specification		
	12: 12mm 6: 6mm Z: 2mm	No entry: No brakes BK: Brakes provided	None: Standard Z: Non-motor side	None: Standard GC: Clean	50 to 400 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)		CN1: I/O flat cable 1m (Standard) CN2: Twisted-pair cable 2m (pulse train function)		

Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable.

Specifications

AC servo motor output (W)	30		
Repeatability ^{Note 1} (mm)	+/- 0.02		
Deceleration mechanism	Ball screw $\phi 8$ (Class C10)		
Ball screw lead (mm)	12	6	2
Maximum speed (mm/sec)	720	360	120
Maximum payload (kg)	Horizontal	4.5	6
	Vertical	1.2	2.4
Rated thrust (N)	Horizontal	32	64
	Vertical	64	153
Stroke (mm)	50 to 400 (50mm pitch)		
Overall length (mm)	Horizontal	Stroke+198	
	Vertical	Stroke+236	
Maximum dimensions of cross section of main unit (mm)	W45 x H53		
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 2}		
Resolution (Pulse/rotation)	16384		

Note 1. Positioning repeatability in one direction.

Note 2. 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		A	B	C		A	C		
Lead 12	2kg	433	87	180	2kg	149	54	376	Lead 12	1.2kg	125	125
	4.5kg	223	33	75	4.5kg	50	1	148				
Lead 6	3kg	515	58	135	3kg	107	24	380	Lead 6	2.4kg	56	57
	6kg	340	26	62	6kg	31	0	195				
Lead 2	3kg	1585	58	142	3kg	113	24	1180	Lead 2	3kg	41	42
	6kg	755	27	66	6kg	32	0	440				

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

Note. Service life is calculated for 300mm stroke models.

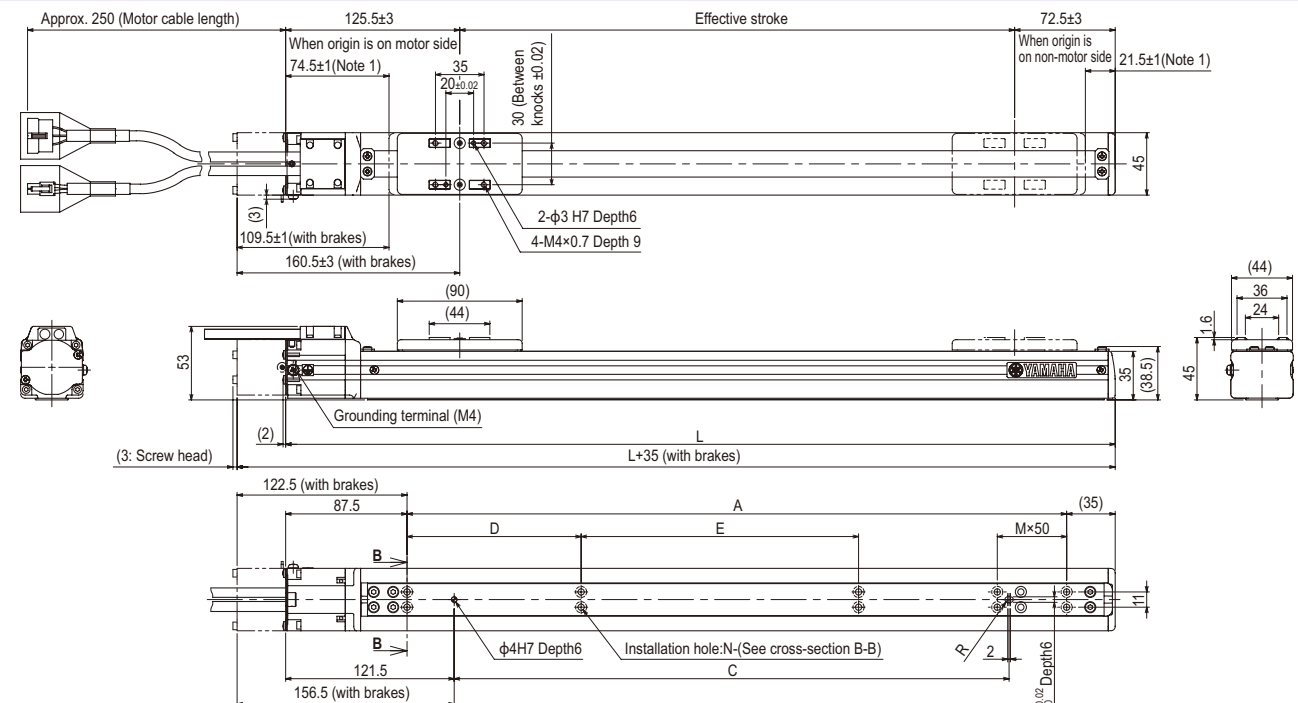
Static loading moment

(Unit: N·m)		
MY	MP	MR
15	19	18

Controller

Controller	Operation method
ERCD	Pulse train control / Programming / I/O point trace / Remote command / Operation using RS-232C communication

T4L



Effective stroke	50	100	150	200	250	300	350	400
L	248	298	348	398	448	498	548	598
A	125.5	175.5	225.5	275.5	325.5	375.5	425.5	475.5
C	50	100	150	200	250	300	350	400
D	-	-	-	-	125.5	125.5	125.5	125.5
E	-	-	-	-	-	-	200	200
M	0	1	2	3	0	1	0	1
N	4	6	8	10	6	8	8	10
Weight (kg) ^{Note 3}	1.1	1.2	1.4	1.5	1.6	1.7	1.8	1.9
Maximum speed for each stroke (mm/sec)	Lead 12	720						
	Lead 6	360						
	Lead 2	120						

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

Note 2. Minimum bend radius of motor cable is R30.

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. The under-head length of the hex socket-head bolt (M4×0.7) to be used for the installation work is 12mm or less.

Note 5. External view of T4LH is identical to T4L.