

T5LH

- High lead: Lead 20
- Origin on the non-motor side is selectable
- Controller: 100V / 200V



Ordering method

T5LH

Model	Lead designation	Brake	Origin position change	Grease type	Stroke	Cable length
	20: 20mm 12: 12mm 6: 6mm	No entry: No brakes BK: Brakes provided	None: Standard Z: Non-motor side	None: Standard GC: Clean	50 to 800 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)

TSX

Positioner	Driver: Power-supply voltage / Power capacity	LCD monitor	I/O selection	Battery
TS-X	105: 100V/100W or less 205: 200V/100W or less	No entry: None L: With LCD	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board	B: With battery (Absolute) N: None (Incremental)

SR1-X

Controller	Driver: Power capacity	Usable for CE	I/O selection	Battery
05	05: 100W or less	No entry: Standard E: CE marking	N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	B: With battery (Absolute) N: None (Incremental)

RDV-X

Driver	Power-supply voltage	Driver: Power capacity
2	2: AC200V	05: 100W or less

- Note 1. The model with a lead of 20mm cannot select specifications with brake (vertical specifications).
 Note 2. 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 3. See P.522 for DIN rail mounting bracket.
 Note 4. Select this selection when using the gateway function. For details, see P.66

Specifications

AC servo motor output (W)	30		
Repeatability (mm)	+/-0.02		
Deceleration mechanism	Ball screw ϕ 12		
Ball screw lead (mm)	20	12	6
Maximum speed (mm/sec)	1200	800	400
Maximum payload (kg)	Horizontal	3	5
	Vertical	-	1.2
Rated thrust (N)	Horizontal	19	32
	Vertical	-	64
Stroke (mm)	50 to 800 (50mm pitch)		
Overall length (mm)	Horizontal	Stroke+201.5	
	Vertical	Stroke+239.5	
Maximum dimensions of cross section of main unit (mm)	W55×H52		
Cable length (m)	Standard: 3.5 / Option: 5,10		
Linear guide type	2 rows of gothic arch 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 600mm, 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

Horizontal installation (Unit: mm)	Wall installation (Unit: mm)			Vertical installation (Unit: mm)	
	A	B	C	A	C
Lead 20	1kg 967	3kg 324	5kg 598	1kg 551	3kg 304
Lead 12	2kg 429	3kg 104	5kg 226	2kg 347	3kg 141
Lead 6	2kg 916	3kg 159	5kg 398	5kg 119	3kg 44
Lead 12	3kg 436	5kg 60	9kg 152	3kg 259	5kg 87
Lead 6	3kg 1194	5kg 105	9kg 294	5kg 50	9kg 15
Lead 12	9kg 624	31	89		

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 600mm stroke models.

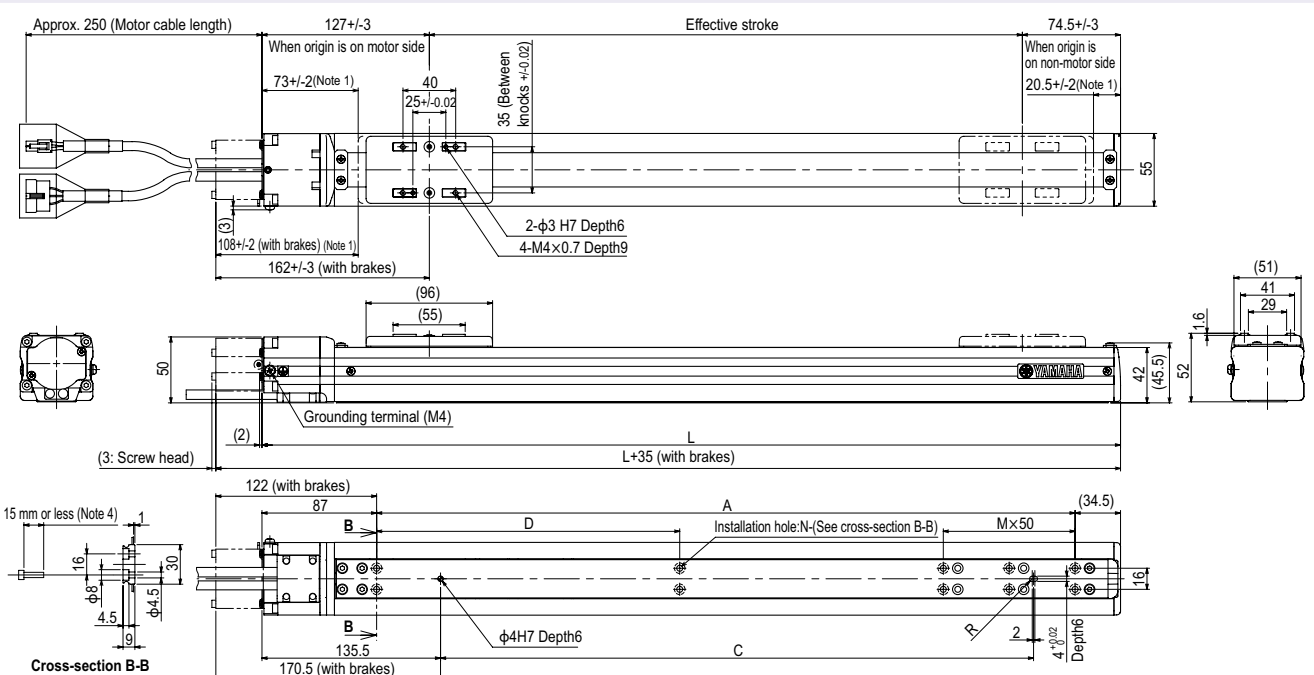
Static loading moment

(Unit: N·m)		
MY	MP	MR
30	34	40

Controller

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

T5LH



Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	
L	251	530	153	531	540	154	551	560	155	561	570	156	581	590	157	601	
A	130	180	230	280	330	380	430	480	530	580	630	680	730	780	830	880	
C	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	
D	-	-	-	-	-	230	230	230	230	230	230	230	230	230	230	230	
M	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
N	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	
Weight (kg)	1.7	1.8	2.0	2.2	2.3	2.5	2.7	2.8	3.0	3.2	3.3	3.5	3.7	3.8	4.0	4.2	
Maximum speed for each stroke (mm/sec)	Lead 20	1200															
	Lead 12	800															
	Lead 6	400															
Speed setting	80% 70% 60% 55%																

- Note 1. Stop positions are determined by the mechanical stoppers at both ends.
 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 15mm or less.
 Note 5. When the stroke is longer than 600mm, 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 at the left.
 Note 6. External view of T5LH is identical to T5L.