

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



Ordering method

T5LH

Model	Lead designation 20: 20mm 12: 12mm 6: 6mm	Brake ^{Note 1} No entry: No brakes BK: Brakes provided	Origin position change None: Standard Z: Non-motor side	Grease type None: Standard GC: Clean	Stroke 50 to 800 (50mm pitch)	Cable length ^{Note 2} 3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)
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SR1-X

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

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

Positioner ^{Note 3} TSX: TS-X	Driver: Power-supply voltage / Power capacity 105: 100V/100W or less 205: 200V/100W or less	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 4}	Battery B: With battery (Incremental) N: None (Incremental)
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05

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

Driver: Power capacity 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.692 for details on robot cable.

Note 3. See P.600 for DIN rail mounting bracket.

Note 4. Select this selection when using the gateway function.

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See P.692 for details on robot cable.

Note 3. See P.600 for DIN rail mounting bracket.

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■ Specifications

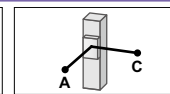
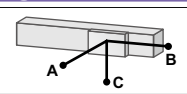
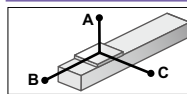
AC servo motor output (W)	30		
Repeatability ^{Note 1} (mm)	+/-0.02		
Deceleration mechanism	Ball screw φ12		
Ball screw lead (mm)	20	12	6
Maximum speed ^{Note 2} (mm/sec)	1200	800	400
Maximum payload (kg)	Horizontal	3	5
	Vertical	-	1.2
Rated thrust (N)		19	32
Stroke (mm)			64
Overall length (mm)	Horizontal	50 to 800 (50mm pitch)	
	Vertical	Stroke+201.5	
Maximum dimensions of cross section of main unit (mm)		Stroke+239.5	
Cable length (m)	W55×H52		
Linear guide type	Standard: 3.5 / Option: 5.10		
Position detector	2 rows of gothic arc grooves × 1 rail		
Resolution (Pulse/rotation)	Resolvers ^{Note 3}		
	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** ^{Note}



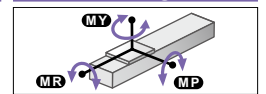
Horizontal installation		(Unit: mm)		
		A	B	C
Lead 20	1kg	967	324	598
	3kg	429	104	226
Lead 12	2kg	916	159	398
	5kg	436	60	152
Lead 6	3kg	1194	105	294
	9kg	624	31	89

Wall installation		(Unit: mm)		
		A	B	C
Lead 20	1kg	551	304	925
	3kg	185	89	378
Lead 12	2kg	347	141	800
	5kg	119	44	355
Lead 6	3kg	259	87	950
	9kg	50	15	385

		A	C
Lead 12	1.2kg	240	23
Lead 6	2.4kg	109	11

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

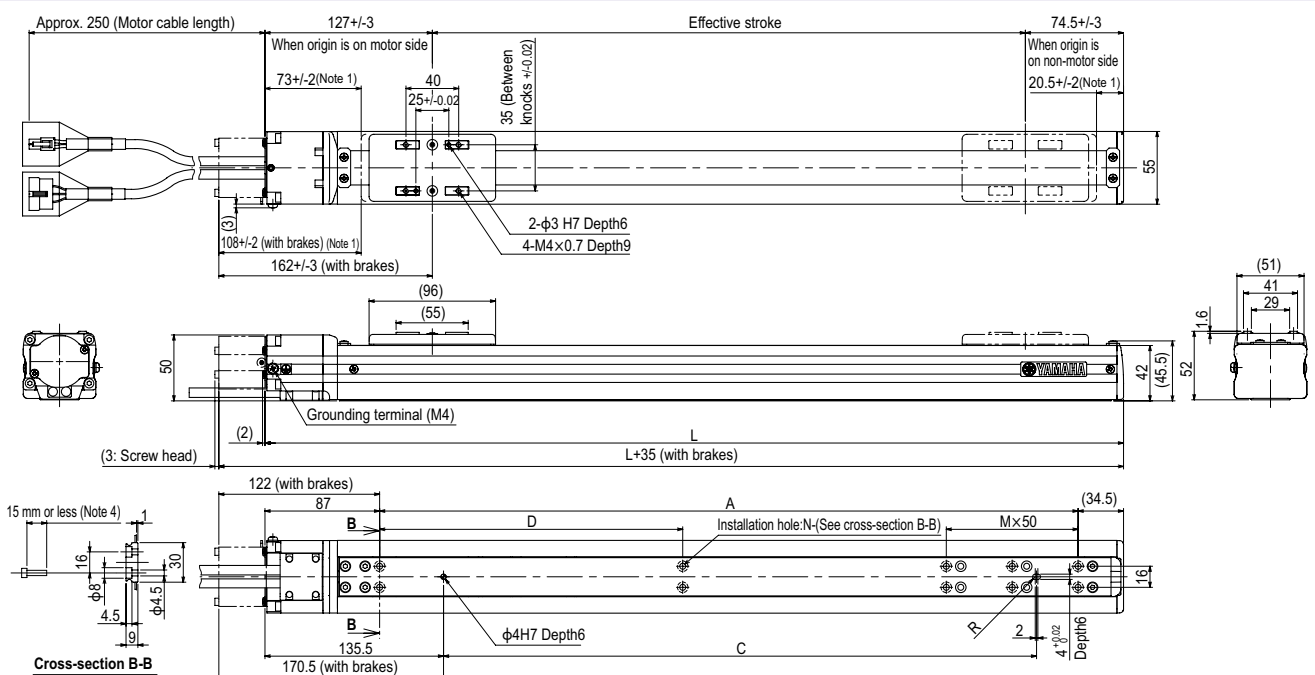


(Unit: N-m)		
MY	MP	MR
30	34	40

Controller

Controller	Operation method
SR1-X05 RCX320 RCX340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X105	I/O point trace /
TS-X205	Remote command
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	251.5	301.5	351.5	401.5	451.5	501.5	551.5	601.5	651.5	701.5	751.5	801.5	851.5	901.5	951.5	1001.5
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
M	0	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9
N	4	6	8	10	12	14	6	8	10	12	14	16	18	20	22	24
Weight (kg) ^{Note 3}	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 ^{Note 5}	Lead 20	1200											960	840	720	660
	Lead 12	800											640	560	480	440
	Lead 6	400											320	280	240	220
(mm/sec)	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 TSLH is identical to TSL.