

T5H

- High lead: Lead 20
- Origin at non-motor side



Ordering method

T5H **SR1-X** **05**

Model	Lead designation	Brake	Option	Stroke	Cable length ^{Note 1}	Controller	Driver	Usable for CE	I/O selection	Battery
	20: 20mm 12: 12mm 6: 6mm	No entry: No brakes BK: Brakes provided	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 3K/5K/10K ^{Note 1}	SR1-X TS-X ^{Note 2} RDX ^{Note 2}	05: 100W or less	No entry: Standard E: CE marking	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. See P.423 for details on robot cable.
 Note 2. To find TS-X, RDX selection options, see the ordering method listed on each controller's page (TS-X: P.355, RDX: P.365).
 Note 3. Available only for the slave.

Specifications

AC servo motor output (W)	30	
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)	1200 800 400	
Maximum payload (kg)	Horizontal	3 5 9
	Vertical	- 1.2 2.4
Rated thrust (N)	19 32 64	
Stroke (mm)	50 to 800 ^{Note 3} (50mm pitch)	
Overall length (mm)	Horizontal	Stroke+201.5
	Vertical	Stroke+239.5
Maximum dimensions of cross section of main unit (mm)	W55 x H52	
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}	
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)	Wall installation (Unit: mm)			Vertical installation (Unit: mm)		
	A	B	C	A	B	C
Lead 20	1kg 600	323	683	1kg 600	291	600
Lead 12	3kg 675	103	247	3kg 215	73	589
Lead 6	2kg 1170	159	406	2kg 368	127	1082
	5kg 555	59	155	5kg 127	30	449
	3kg 1498	104	294	3kg 263	73	970
	9kg 628	31	89	9kg 54	0	400

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

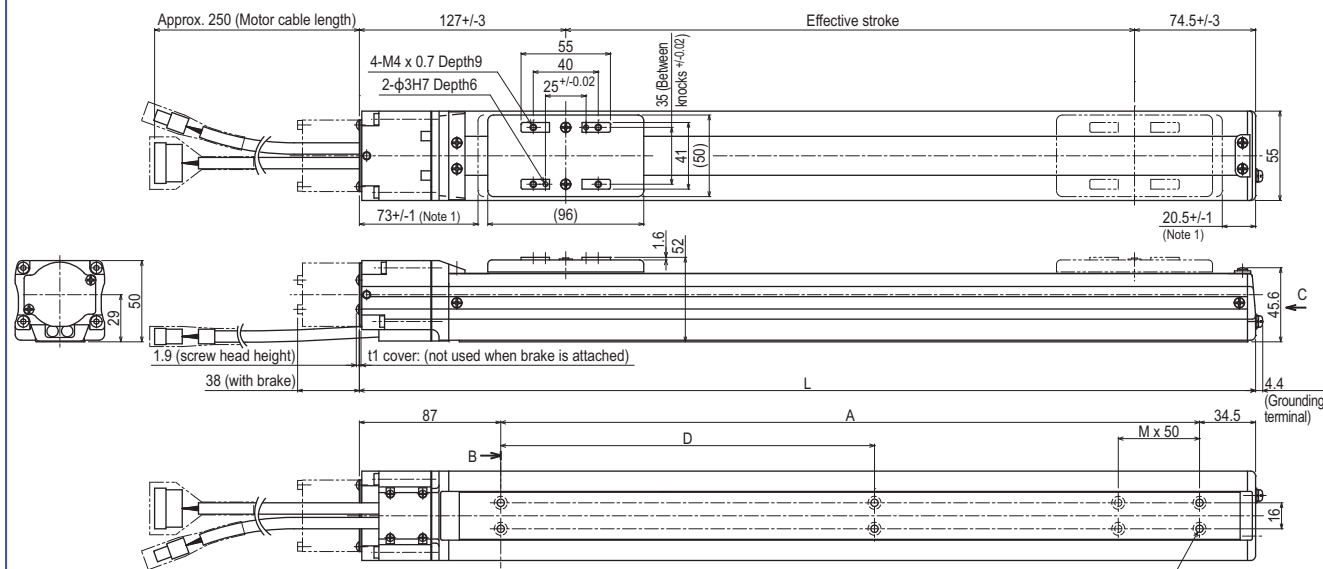
Static loading moment

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

Controller

Controller	Operation method
SR1-X-05	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X205	I/O point trace
RDX-05	Pulse train control

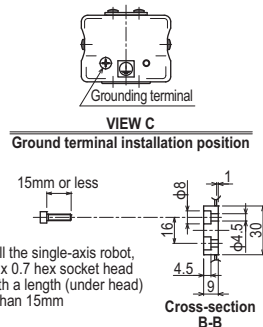
T5H



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).

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	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
A	130	180	230	280	330	380	430	480	530	580	630	680	730	780	830	880
D	-	-	-	-	-	230	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}	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5
Maximum speed for each stroke ^{Note 5} (mm/sec)	Lead 20	1200														
	Lead 12	800														
	Lead 6	400														
	Speed setting	80% 70% 60% 55%														

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.



APPLICATION
 Compact single-axis robots
 TRANSERO
 Single-axis robots
 FLIP-X
 Linear motor single-axis robots
 PHASER
 Cartesian robots
 XY-X
 SCARA robots
 YK-XG
 Pick & place robots
 YP-X
 CLEAN
 CONTROLLER INFORMATION
 T type
 F type
 N type
 B/YMS/R type