

T6

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



Ordering method

T6						SR1-X	05					
Model	Lead designation 20: 20mm 12: 12mm 6: 6mm	Brake No entry: No brakes BK: Brakes provided	Option None: Standard Origin position change Z: Non-motor side Grease type None: Standard GC: Clean	Stroke Lead 12: 6: 50 to 600 (50mm pitch) Lead 20: 50 to 800 (50mm pitch)	Cable length <small>Note 1</small> 3L: 3.5m (Standard) 5L: 5m 10L: 10m 3K/5K/10K <small>Note 2</small>	Controller SR1-X TS-X <small>Note 2</small> RDX <small>Note 2</small>	Driver 05: 100W or less	Usable for CE No entry: Standard E: CE marking	Regenerative unit No entry: None	I/O selection N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profibus YC: YC-Link <small>Note 3</small>	Battery 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. (not supported on RDX). 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)	60		
Repeatability <small>Note 1</small> (mm)	±0.02		
Deceleration mechanism	Ball screw (Class C10)		
Ball screw lead (mm)	20	12	6
Maximum speed <small>Note 2</small> (mm/sec)	1333	800	400
Maximum payload (kg)	Horizontal	12	30
	Vertical	4	8
Rated thrust (N)	51	85	170
Stroke (mm)	50 to 800 <small>Note 3</small> (50mm pitch)		
Overall length (mm)	Horizontal	Stroke+247.5	
	Vertical	Stroke+285.5	
Maximum dimensions of cross section of main unit (mm)	W65 × H56		
Cable length (m)	Standard: 3.5 / Option: 5.10		
Linear guide type	2 rows of gothic arch grooves × 1 rail		
Position detector	Resolvers <small>Note 4</small>		
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

Installation	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)				
	A	B	C	A	B	C	A	B	C		
Lead 20	2kg	319	184	234	234	152	265	1kg	355	352	
	6kg	98	37	77	61	13	71	2kg	165	165	
	10kg	64	0	55	30	0	42	4kg	70	72	
Lead 12	3kg	624	125	335	3kg	293	96	510	2kg	171	172
	8kg	273	41	121	8kg	89	14	210	4kg	73	74
	12kg	216	24	77	12kg	43	0	130	8kg	23	26
Lead 6	5kg	694	73	236	5kg	204	45	530			
	10kg	374	33	109	10kg	72	0	245			
	30kg	159	0	25	30kg	0	0	0			

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

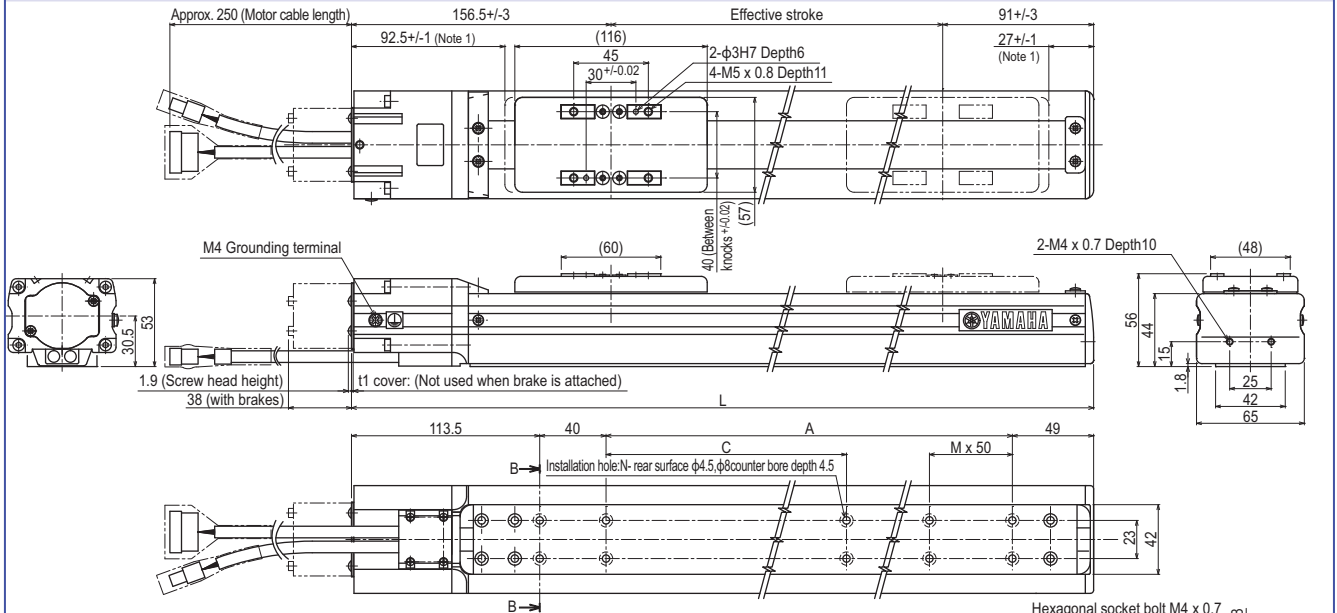
Static loading moment

MY	MP	MR
35	40	50

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-RBR1	Pulse train control

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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 <small>Note 4</small>	700 <small>Note 4</small>	750 <small>Note 4</small>	800 <small>Note 4</small>
	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
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) <small>Note 3</small>	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 <small>Note 5</small> (mm/sec)	Lead 20	1333											1133	1000	866	800
	Lead 12	800											-	-	-	-
	Lead 6	400											-	-	-	-
	Speed setting	-											85%	75%	65%	60%

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.