

Note 1. The model with a lead of 20mm cannot select specifications with brake (vertical specifications).

Note 2. The robot cable is flexible and resists bending. See P.732 for details on robot cable.

■ Specifications										
AC servo motor	output (W)	30								
Repeatability Not	e 1 (mm)	+/-0.02								
Deceleration me	echanism	Ball screw \$12								
Ball screw lead		20	12	6						
Maximum speed ^N	ote 2 (mm/sec)	1200	800	400						
Maximum	Horizontal	3	5	9						
payload (kg)	Vertical	-	1.2	2.4						
Rated thrust (N)		19	32	64						
Stroke (mm)		50 to 800 (50mm pitch)								
Overall length	Horizontal	Stroke+201.5								
(mm)	Vertical	Stroke+239.5								
Maximum dimensi section of main ur	W55×H52									
Cable length (m	Standard: 3.5 / Option: 1,5,10									
Linear guide typ	2 rows of gothic arch grooves × 1 rail									
Position detector	Resolvers Note 3									
Resolution (Puls	se/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

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.

B A C				A C				A C			Œ			
Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)						
		Α	В	С			Α	В	С			Α	С	N
120	1kg	600	323	683	Lead 20	1kg	600	291	600	Lead 12	4.01	242	240	3
Lead 20	3kg	675	103	247	Leac	3kg	215	73	589	Leac	1.2kg	242	240	
ead 12	2kg	1170	159	406	ead 12	2kg	368	127	1082	9 p	0.41	112	112	
Leac	5kg	555	59	155	Leac	5kg	127	30	449	Lead	2.4kg	113	113	Cor

54

73 970

> 0 400

9ka Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

3kg 263

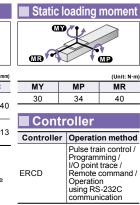
Note. Service life is calculated for 600mm stroke models.

3kg 1498 104 294

31 89

9kg 628

■ Allowable overhang Note



to the maximum speeds shown in the table at the left. Note 6. External view of T5LH is identical to T5L.

T₅L Approx. 250 (Motor cable length) 127+/-3 Effective stroke 74.5+/-3 When origin is on motor side 35 (Between knocks +/-0.02) When origin is on non-motor side 73+/-2(Note 1) 20.5+/-2(Note 1) 25+/-0.02 • 2-ф3 H7 Depth6 108+/-2 (with brakes) (Note 1) 4-M4×0.7 Depth9 162+/-3 (with brakes) (96)(55)42 (45.5) (A) YAMAHA ⊕ Grounding terminal (M4) (2) L+35 (with brakes) (3: Screw head) 122 (with brakes) (34.5) 15 mm or less (Note 4) <u>B</u> > Installation hole:N-(See cross-section B-B) M×50 **⊚** ⊚⊕ ⊚ ⊚ В 2 φ4H7 Depth6 135.5 Cross-section B-B 170.5 (with brakes) Note 1. Stop positions are determined by the mechanical stoppers at both
 Effective stroke
 50
 100
 150
 200
 250
 300
 350
 400
 450
 500
 550
 600
 650
 700
 750
 800

 L
 251,5301,5351,5401,5851,5501,5551,5601,5651,5701,5771,5771,5801,5851,5901
 5701,5771,5751,5801,5851,5901,5951,51001,5
 480
 530
 680
 630
 680
 730
 780
 830
 880

 C
 50
 100
 150
 200
 250
 300
 350
 400
 450
 500
 550
 600
 650
 700
 750
 800
 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. 230 230 230 230 230 0 1 2 3 4 6 8 10 12 14 | 230 | 230 | 230 | 230 | 6 | 7 | 8 | 9 | 18 | 20 | 22 | 24 | 3.7 | 3.8 | 4.0 | 4.2 | 960 | 840 | 720 | 660 | 640 | 560 | 480 | 440 | 320 | 280 | 240 | 220 | 80% | 70% | 60% | 55% | Note 4. The under-head length of the hex socket-head bolt (M4×0.7) to In the under-head length of the hex socket-head bolt (M4×0.7) to be used for the installation work is 15mm or less.

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 Weight (kg) Note 3
Maximum Lead 20
speed for Lead 12
Lead 6
stroke Note 5 Note 5 800

(mm/sec) Speed setting