

# T5

Standard High lead : Lead 20  
Origin at opposite of motor

## Robot ordering method

T5 - 12 - BK - 600 - 3L - ERCX - E - B

Model	Lead designation	Brake	Stroke	Cable length	Applicable controller	Usable for CE	Network option	Battery
	-12 : 12mm -6 : 6mm -2 : 2mm	-No entry : No brakes -BK : Brakes provided		-3L : 3.5m (Standard) -5L : 5m -10L : 10m -Lead 12, 6 : 50 to 600 (50mm pitch) -Lead 20 : 50 to 800 (50mm pitch)	-ERCX -ERCD	-No entry : Standard -E : CE specification	-No entry : None -CC : CC-Link -DN : DeviceNet -PB : Profibus -EN : Ethernet	-B1 : 700mAh -B2 : 2000mAh

Note : It will be a customer's choice.

## Basic specifications

AC servo motor output(W)	30		
Repeatability(mm) <sup>Note 1</sup>	+/-0.02		
Deceleration mechanism	Ball screw(Class C10)		
Ball screw lead(mm)	20	12	6
Maximum speed(mm/sec) <sup>Note 2</sup>	1200	800	400
Maximum payload(kg)	Horizontal	3	5
	Vertical	—	1.2
Rated thrust(N)	19	32	64
Stroke(mm)	50 to 800(50 pitch) <sup>Note 3</sup>		
Cable length(m)	3.5(Standard), 5, 10		
Controller	Horizontal	ERCX, ERCD	
	Vertical	ERCX, ERCD	

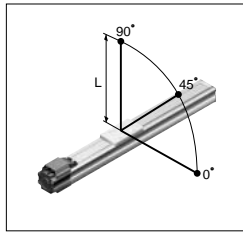
Note 1 : Repeatability for single oscillation.

Note 2 : When the stroke exceeds 650mm, although depending on the moving range, the ball screw may resonate (dangerous speed). If such resonance occurs, make an adjustment on the program to reduce the speed, using the maximum speed in the table on the right as a guide.

Note 3 : 650mm or longer stroke can be handled by the high lead specification (Lead 20) only.

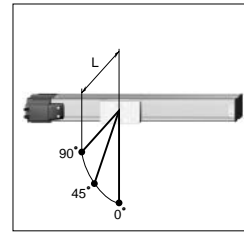
Stroke(mm)	Maximum speed(mm/sec)	Speed setting
650	960	80%
700	840	70%
750	720	60%
800	660	55%

## Tolerable overhang amount<sup>Note</sup>



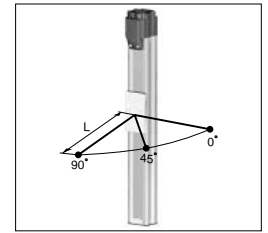
During horizontal use (Unit : mm)

	0°	45°	90°
Lead 20	1kg 550	488	774
	3kg 257	203	490
Lead 12	2kg 225	245	450
	5kg 90	105	170
Lead 6	3kg 280	325	950
	9kg 100	125	330



During wall installation use (Unit : mm)

	0°	45°	90°
Lead 20	1kg 840	464	525
	3kg 352	168	177
Lead 12	2kg 360	245	225
	5kg 135	105	90
Lead 6	3kg 760	325	280
	9kg 260	100	70



During vertical use (Unit : mm)

	0°	45°	90°
Lead 12	1.2kg 220	165	250
Lead 6	2.4kg 150	100	170

Note : Distance from center of slider top to center of gravity of object being transported.

Approx. 250 (Motor cable length)

127±.3

Effective stroke

74.5±.3

4-M4X0.7 Depth 9

2-#3H7 Depth 6

1.9 (Screw length)

1 cover : (Not installed when equipped with a brake)

(With brake)

15mm or less

SECT BB

Installation hole : N : #4.5, inner surface #8 counter bore depth 4.5

VIEW C

Note : Use M4 X 0.7 hexagonal socket bolts with 15mm or less nominal length for installation of the single axis robot.

Note 1 : Length from both ends to mechanical stopper position.  
 Note 2 : The minimum bend radius of the motor cable is R50.  
 Note 3 : This is the weight of the model without a brake.  
 The weight of the model equipped with a brake is 0.2kg heavier than this value.  
 Note 4 : When the effective stroke is 650mm to 800mm, it can be handled by the high lead specification (Lead 20).

Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650 <sup>Note 4</sup>	700 <sup>Note 4</sup>	750 <sup>Note 4</sup>	800 <sup>Note 4</sup>
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
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) <sup>Note 3</sup>	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