

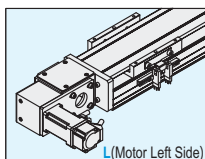
YTB14 Series, Base Width 135 mm

Timing Belt Series, General Environment

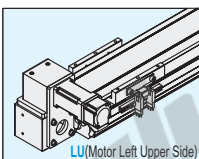
Single Axis Robots

Code	Base		Guide		Slider		Cover		Operating Ambient
	Material	Surface Treatment	Material	Surface Treatment	Material	Surface Treatment	Material	Surface Treatment	
YTB14	Aluminum Alloy	Anodize	Alloy Steel	—	Aluminum Alloy	Anodize	Aluminum Alloy	Anodize	0~40°C 35~85%RH No Condensation

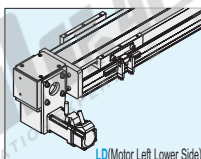
⚠ This product does not include a motor, the motor must be purchased separately.



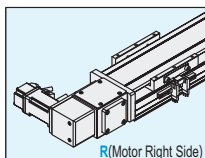
L(Motor Left Side)



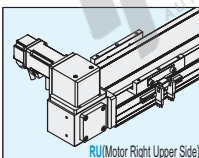
LU(Motor Left Upper Side)



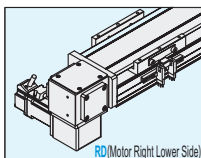
LD(Motor Left Lower Side)



R(Motor Right Side)



RU(Motor Right Upper Side)

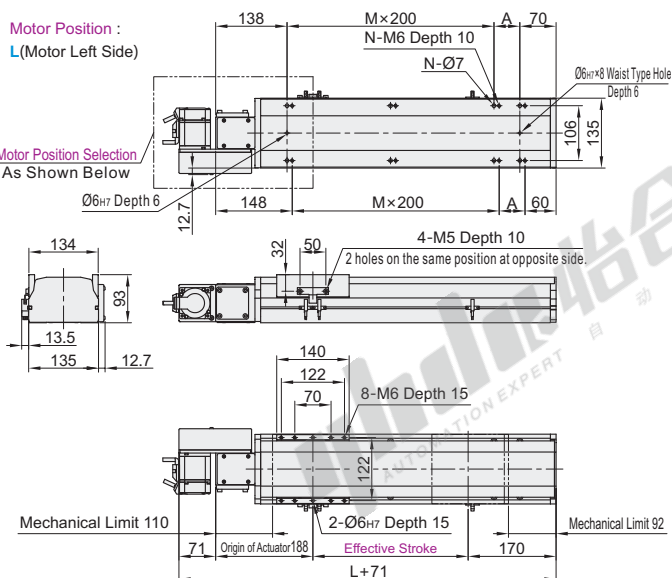


RD(Motor Right Lower Side)

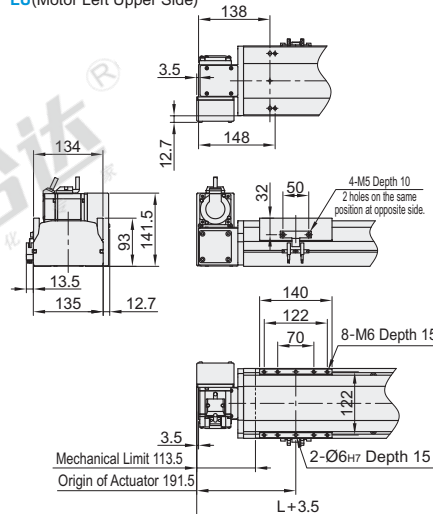
Motor Position :

L(Motor Left Side)

Motor Position Selection
As Shown Below



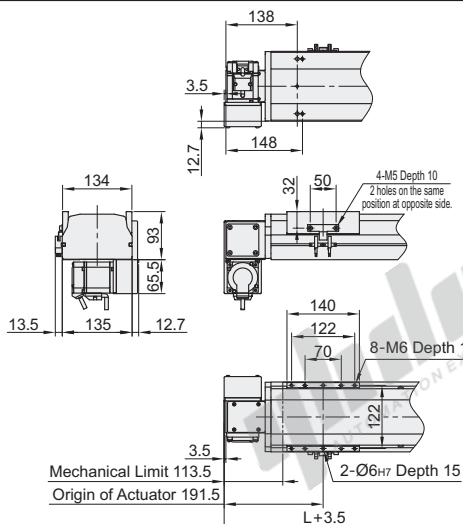
LU(Motor Left Upper Side)



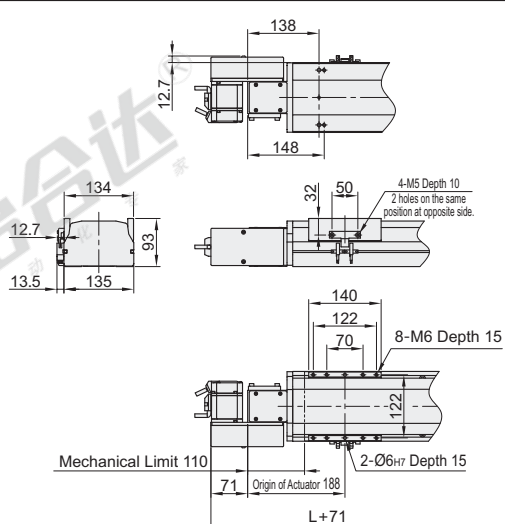
The first perspective

Motor Position Selection

LD(Motor Left Lower Side)



R(Motor Right Side)



Single Axis Robots

YTB14 Series, Base Width 135 mm Timing Belt Series, General Environment

Motor Position Selection

RU (Motor Right Upper Side)	RD (Motor Right Lower Side)

Part Number		Effective Stroke (50 mm Inc.)	Motor Position Selection	Motor Brand	Motor Output	Home Sensor	Limit Sensor
Code	Ball Screw Lead						
YTB14	40	100 ~ 3050 Non-standard stroke can be customized	L(Motor Left Side) LU(Motor Left Upper Side) LD(Motor Left Lower Side) R(Motor Right Side) RU(Motor Right Upper Side) RD(Motor Right Lower Side)	P(Panasonic) Y(Yaskawa) M(Mitsubishi) T(Delta) H(Inovance) L(Leadshine)	20(200W Servo) 57(57 Stepping) 57 Stepping only applicable to Leadshine brand. If 57 series stepper motors are used, it is recommended to choose the model with the maximum static torque greater than 0.64 N.m. Please consult our company for other output spec.	Out Side C(Motor Side) D(OppoSite Motor Side) No Sensor E(No Sensor)	Out Side 3(1 Pc) 4(2 Pcs) No Sensor 5(No Sensor)

Specification

Recommended Motor Output	57 Stepping	200W Servo
Positioning Repeatability (mm)	±0.04	±0.04
Ball Screw Lead (mm)	40	40
Max Speed (mm/s)	333	2000
Maximum Payload (kg)	Horizontal 25	25
Rated Thrust (N)	50	100
Effective Stroke (mm)	100~3050 (50mm Pitch)	
Belt Width (mm)	22	
Linear Guide Rail	15x12.5 Two Branch Double Slide Blocks	
Home Sensor	Out Side	EE-SX672 (NPN)
	In Side	—

Please contact us for OMRON Brand or PNP Sensor.

Allowable Moment Table

Mxd	485N.m
Myd	552N.m
Mzd	551N.m

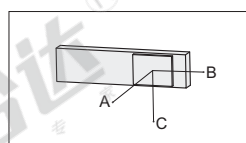
The torque value in the table is the dynamic allowable torque based on the 10000km running life of the sliding table.
Torque conditions:
 $Mx/Mxd + My/Myd + Mz/Mzd \leq 1$
(Mx, My, Mz are the actual moments in each direction)

Explanation

- The actual load shall meet the following conditions:
 - Meet the maximum load condition in the "Specification" table.
 - Satisfy the torque condition in the "allowable Moment Table" if beyond the conditions of use will greatly reduce the life of the slide table.
- The data in the table is based on the rated life of 10000km.
- The repeated positioning accuracy in the table is a unidirectional value.
- Rated acceleration of the slide table is 0.3G, and the short-stroke slide table may not work reach top speed.

Load allowable moment table (unit: mm)

Horizontal installation	A	B	C
10kg	1794	688	528
20kg	858	324	253
25kg	670	251	197



Wall-mounted installation	A	B	C
15kg	348	446	1170
18kg	285	365	961
25kg	197	251	670

YTB14 Series, Base Width 135 mm

Timing Belt Series, General Environment

Single Axis Robots

Dimension Table

Dimension	Stroke																			
	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
Weight(kg)※	8.6	9.2	9.7	10.3	10.8	11.4	12	12.5	13.1	13.6	14.2	14.8	15.3	15.9	16.4	17	17.6	18.1	18.7	19.2

Dimension	Stroke																			
	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050
L	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908	1958	2008	2058	2108	2158	2208	2258	2308	2358	2408
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10
N	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24
Weight(kg)※	19.8	20.4	20.9	21.5	22	22.6	23.2	23.7	24.3	24.8	25.5	26.1	26.6	27.2	27.7	28.3	28.9	29.4	30	30.5

Dimension	Stroke																			
	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2458	2508	2558	2608	2658	2708	2758	2808	2858	2908	2958	3008	3058	3108	3158	3208	3258	3308	3358	3408
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
Weight(kg)※	31.1	31.7	32.2	32.8	33.3	33.9	34.5	35	35.6	36.1	36.7	37.3	37.8	38.4	38.9	39.5	40.1	40.6	41.2	41.7

※ Not include motor weight.



Please order as shown

Part Number Code	Effective Stroke (50 mm Inc.)	Motor Position Selection	Motor Brand	Motor Output	Home Sensor	Limit Sensor
YTB14	40	100~3050	L (Motor Left Side) U (Motor Left Upper Side)	P (Panasonic) Y (Yaskawa) U (Mitsubishi)	20 (200W Servo) 57 (57 Stepping)	Out Side C (Motor Side) D (Opposite Motor Side)
						Out Side 3 (1 Pc) 4 (2 Pcs)

YTB14-40-550-LU-M-20-C-4



Discount price

Per	1~4	5~
Price	100%	Additional quotation



Delivery

13