

◀ YCTB14 Series, Base Width 135 mm



The figure consists of six separate perspective drawings of the RCU-1000 robot arm, each illustrating a different motor connection configuration. The drawings are arranged in a 2x3 grid. Each drawing shows the robot arm with a specific motor connection point highlighted and labeled. The labels are: L (Motor Left Side), LU (Motor Left Upper Side), LD (Motor Left Lower Side), R (Motor Right Side), RU (Motor Right Upper Side), and RD (Motor Right Lower Side). The drawings are rendered in a light blue and grey color scheme.

Technical drawing of the LU (Motor Left Upper Side) showing three views: front, side, and top. Dimensions are in mm.

Front View Dimensions:

- Total width: 135
- Mounting flange width: 119
- Mounting hole diameter: 13.5
- Mounting flange height: 91
- Mounting flange thickness: 12.7

Side View Dimensions:

- Total height: 141.5
- Mounting flange height: 12.7
- Mounting hole diameter: 12.7

Top View Dimensions:

- Total length: 190
- Mounting flange length: 100
- Mounting hole diameter: 84
- Mounting flange thickness: 100

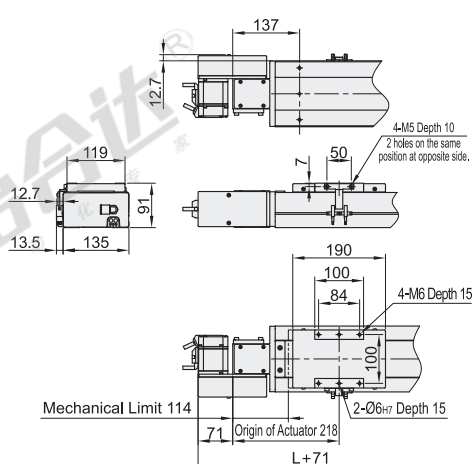
Notes:

- 4-M5 Depth 10
2 holes on the same position at opposite side.
- 4-M6 Depth 15
- 2-Ø67r Depth 15
- Mechanical Limit 117.5
- Origin of Actuator 221.5
- L+3.5



The first perspective

R(Motor Right Side)

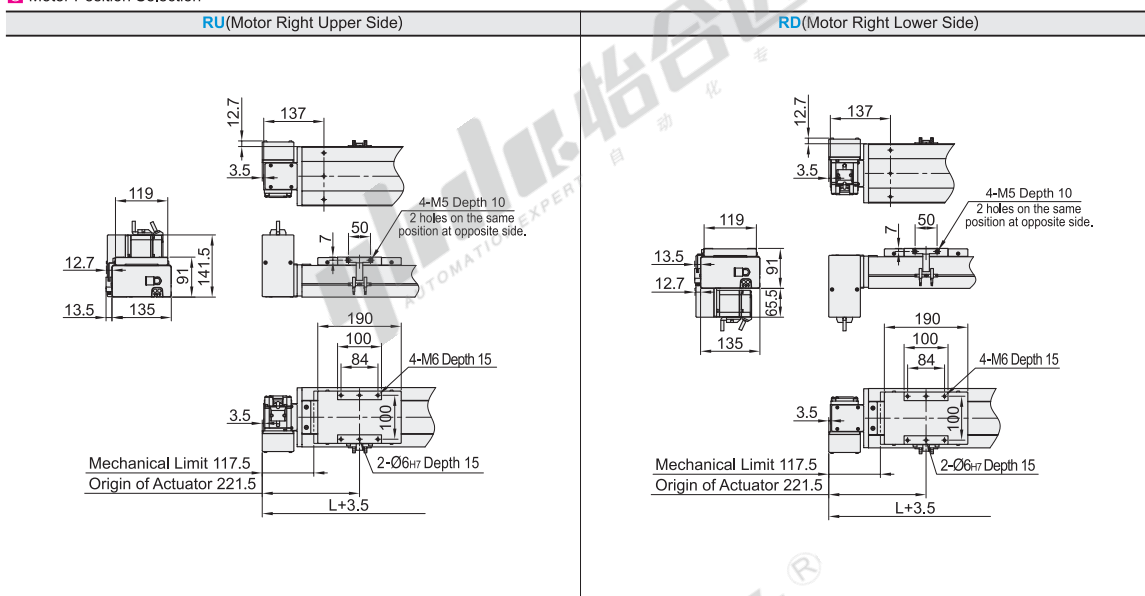


YCTB14 Series, Base Width 135 mm

Timing Belt Series, Clean Room Environment

Single Axis Robots

Motor Position Selection



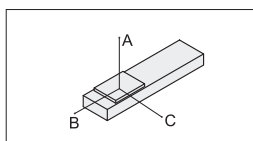
Part Number		Effective Stroke (50 mm Inc.)	Motor Position Selection	Motor Brand	Motor Output	Home Sensor	Limit Sensor
Code	Ball Screw Lead						
YCTB14	40	100 ~ 3050 Non-standard stroke can be customized	L(Motor Left Side)	P(Panasonic)	20(200W Servo)		
			LU(Motor Left Upper Side)	Y(Yaskawa)	57(57 Stepping)	Out Side	Out Side
			LD(Motor Left Lower Side)	M(Mitsubishi)	57 Stepping only applicable to Leadshine brand.	C(Motor Side)	3(1 Pc)
			R(Motor Right Side)	T(Delta)	57 series stepper motors are used, it is recommended to choose the model with the maximum static torque greater than 0.64 N.m.	D(OppoSite Motor Side)	4(2 Pcs)
			RU(Motor Right Upper Side)	H(Inovance)	Please consult our company for other output spec.	No Sensor	No Sensor
			RD(Motor Right Lower Side)	L(Leadshine)		E(No Sensor)	5(No Sensor)

Specification

Recommend Motor Output			57 Stepping	200W Servo
Spec	Positioning Repeatability(mm)		±0.04	±0.04
	Ball Screw Lead(mm)		40	40
	Max Speed(mm/s)		333	2000
	Maximum	Horizontal	25	25
	Payload(kg)	Vertical	—	
	Rated Thrust(N)		50	100
	Effective Stroke(mm)		100~3050(50mm Pitch)	
Parts	Belt Width(mm)		22	
	Linear Guide Rail		15×12.5 Two Branch Double Slide Blocks	
	Home Sensor	Out Side	EE-SX672(NPN)	
		In Side	—	

Please contact us for OMRON Brand or PNP Sensor.

Load allowable moment table (unit: mm)



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

Allowable Moment Table

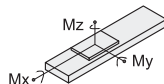
Mxd	485N.m
Myd	552N.m
Mzd	551N.m

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.

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)



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

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Timing Belt Series, Clean Room 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
L	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
Weight(kg)	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6

Dimension	Stroke																		
	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
L	1488	1538	1588	1638	1688	1738	1788	1838	1888	1938	1988	2038	2088	2138	2188	2238	2288	2338	2388
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10
N	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24
Weight(kg)	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1	25.6	26.1	26.7	27.3	27.9	28.5	29.1	29.7	30.3	30.9	31.5

Dimension	Stroke																		
	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000
L	2488	2538	2588	2638	2688	2738	2788	2838	2888	2938	2988	3038	3088	3138	3188	3238	3288	3338	3388
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15
N	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34
Weight(kg)	32.7	33.3	33.9	34.5	35.1	35.7	36.3	36.9	37.5	38.1	38.7	39.3	39.9	40.5	41.1	41.7	42.3	42.9	43.5

Not include motor weight.



Please order as shown

Part Number	Effective Stroke	Motor Position	Motor Brand	Motor Output	Home Sensor	Limit Sensor
Code	(50 mm Inc.)	Selection				
YCTB14	40	L (Motor Left Side) LU (Motor Left Upper Side)	P (Panasonic) Y (Yaskawa) M (Mitsubishi)	30 (100W Servo) 57 (57 Stepping)	Out Side D (Opposite Motor Side)	Out Side 3 (1 Pc) 4 (2 Pcs)

YCTB14-40-550-LU-M-20-C-4



Discount price

Per	1~4	5~
Price	100%	Additional quotation



Delivery

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