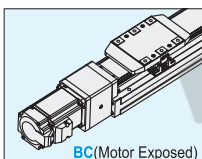


Single Axis Robots YCTH8 Series

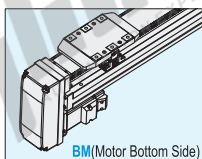
Built-in Guide Series, General Environment

Code	Base		Guide		Slider		Cover		Operating Ambient
	Material	Surface Treatment	Material	Surface Treatment	Material	Surface Treatment	Material	Surface Treatment	
YCTH8	Aluminum Alloy	Anodize	Alloy Steel	—	Aluminum Alloy	—	Aluminum Alloy	Anodize	0~40°C 35~85%RH No Condensation

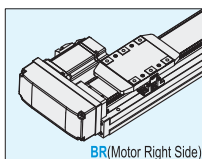
[!] This product does not include a motor, the motor must be purchased separately.



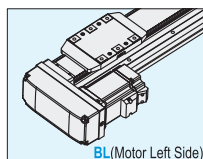
BC (Motor Exposed)



BM (Motor Bottom Side)



BR (Motor Right Side)

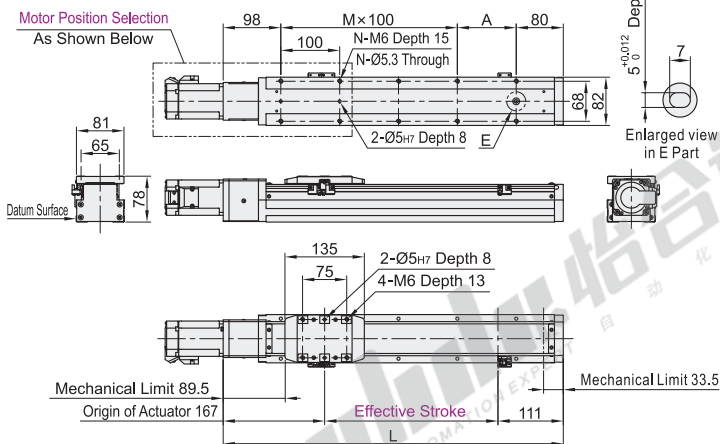


BL (Motor Left Side)

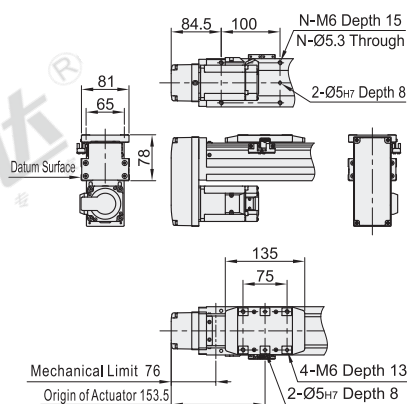
Motor Position :

BC (Motor Exposed)

Motor Position Selection
As Shown Below



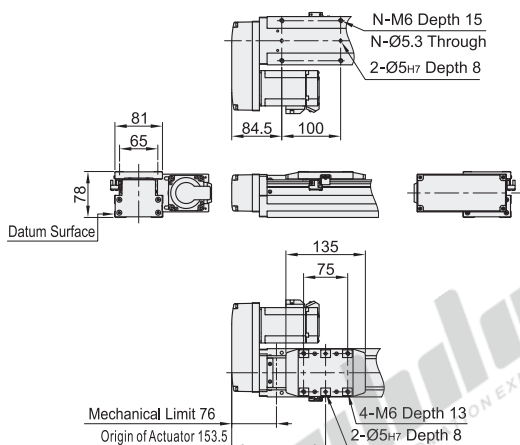
BM (Motor Bottom Side)



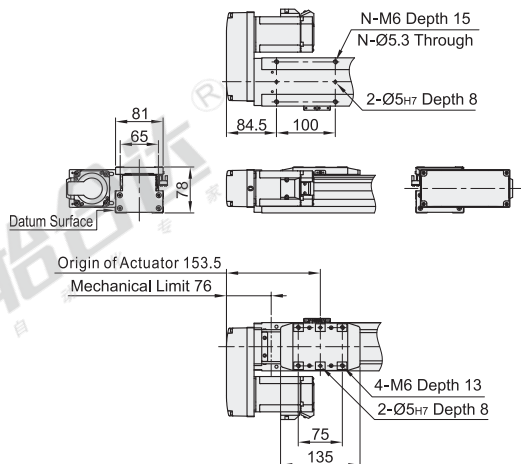
The first perspective

[■] Motor Position Selection

BR (Motor Right Side)



BL (Motor Left Side)



Part Number	Effective Stroke	Motor Position	Motor Brand	Motor Output	Brake	Home Sensor	Limit Sensor
Code	Ball Screw Lead	(50 mm Inc.)	Selection				
YCTH8	5	50~1050 Non-standard stroke can be customized	BC (Motor Exposed) BM (Motor Bottom Side) BR (Motor Right Side) BL (Motor Left 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.	N (Without Brake) B (With Brake) If the sliding table is used vertically, please choose the belt brake motor.	Out Side C (Motor Side) D (Opposite Motor Side) No Sensor E (No Sensor)
	10						
	20						
							Out Side 3 (1 Pc) 4 (2 Pcs) No Sensor 5 (No Sensor)

Specification

Recommended Motor Output	57 Stepping	200W Servo
Positioning Repeatability (mm)	±0.01	±0.01
Ball Screw Lead (mm)	5 10 20	5 10 20
Max Speed (mm/s)	250 500 1000	250 500 1000
Maximum Horizontal	50 30 12	50 30 12
Payload (kg) Vertical	15 8 2.5	15 8 2.5
Rated Thrust (N)	683 341 174	683 341 174
Effective Stroke (mm)	50~1050 (50 mm Pitch)	
Ball Screw O.D. (mm)	16	
Couplings	10×14/11 (Note 1)	
Guide Type	Built-in	
Home Sensor	Out Side	
	EE-SX674 (NPN)	

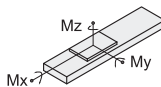
① When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.

① Note 1: Motor (200W) Shaft Diameter: Panasonic: 11mm; Other: 14mm.

① Please contact us for OMRON Brand or PNP Sensor.

Allowable Moment Table

Mxd	626N.m	Explanation 1. The actual load shall meet the following conditions: (a) Meet the maximum load condition in the "Specification" table. (b) Satisfy the torque condition in the "allowable Moment Table" if beyond the conditions of use will greatly reduce the life of the slide table. 2. The data in the table is based on the rated life of 10000km. 3. The repeated positioning accuracy in the table is a unidirectional value. 4. The maximum speed of the lead screw drive slider is reached after a certain travel. Need to be reduced. In order to avoid the resonance of the sliding table, different travel corresponding please refer to the table below for the maximum speed. 5. Rated acceleration of the slide table is 0.3G, and the short-stroke slide table may not work reach top speed. 6. If the sliding table is used vertically, please choose the belt brake motor.
Myd	318N.m	
Mzd	318N.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)

Dimension Table

Motor Position	Dimension	Stroke																	
BC (Motor Exposed)	L	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178
	A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
	M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
	N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22
	Weight(kg)※	5.18	5.54	5.91	6.27	6.64	7	7.37	7.73	8.1	8.46	8.83	9.19	9.56	9.92	10.29	10.65	11.02	11.38
BM (Motor Bottom Side)	L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5
	A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
	M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
	N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22
	Weight(kg)※	5.19	5.6	6.12	6.64	7.16	7.68	8.2	8.72	9.24	9.76	10.28	10.8	11.32	11.84	12.36	12.88	13.4	13.92
BR (Motor Right Side)	L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5
	A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
	M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
	N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22
	Weight(kg)※	5.19	5.6	6.12	6.64	7.16	7.68	8.2	8.72	9.24	9.76	10.28	10.8	11.32	11.84	12.36	12.88	13.4	13.92
BL (Motor Left Side)	L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5
	A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
	M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
	N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22
	Weight(kg)※	5.19	5.6	6.12	6.64	7.16	7.68	8.2	8.72	9.24	9.76	10.28	10.8	11.32	11.84	12.36	12.88	13.4	13.92

※ Not include motor weight.

List of servo motor which should be matched

Brand	Motor Mark	Brake	Watt	Servo Motor Model	Driver Model
Panasonic	P	Without Brake(Horizontal)	200W	MSMF022L1U2M	MADLN15SE
		With Brake(Vertical)		MSMF022L1V2M	
Mitsubishi	M	Without Brake(Horizontal)		HG-KN23J-S100	MR-JE-20A
		With Brake(Vertical)		HG-KN23BJ-S100	
Delta(B2)	T	Without Brake(Horizontal)		ECMA-C20602RS	ASD-B2-0221-B
		With Brake(Vertical)		ECMA-C20602SS	

① Please consult our staff for other types of motor.

① The models listed in the table are motor and driver models sold on our official website. Only modular mechanical parts are provided for standard single axis robot models, without motors and drivers.

Part Number	Effective Stroke	Motor Position	Motor Brand	Motor Output	Brake	Home Sensor	Limit Sensor
Code	Ball Screw Lead	(50 mm Inc.)	Selection				
YCTH8	5	50~1050	BC (Motor Exposed) BM (Motor Bottom Side) BR (Motor Right Side) BL (Motor Left 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.	N (Without Brake) B (With Brake) If the sliding table is used vertically, please choose the belt brake motor.	Out Side C (Motor Side) D (Opposite Motor Side) No Sensor E (No Sensor)
	10						
							Out Side 3 (1 Pc) 4 (2 Pcs)

YCTH8-10-550-BM-M-20-N-C-4



Per	1~4	5~
Price	100%	Additional quotation

