

Single Axis Robots

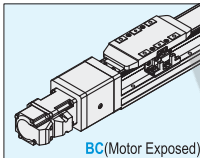
YCTH5 Series

Built-in Guide Series, General Environment

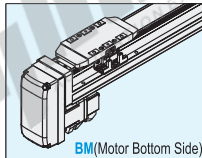


Code	Base		Guide		Slider		Cover		Operating Ambient
	Material	Surface Treatment	Material	Surface Treatment	Material	Surface Treatment	Material	Surface Treatment	
YCTH5	Aluminum Alloy	Anodize	Alloy Steel	—	Aluminum Alloy	—	Aluminum Alloy	Anodize	0~40°C 35~85%RH No Condensation

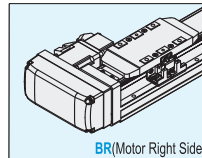
[!] This product does not include a motor, the motor must be purchased separately.



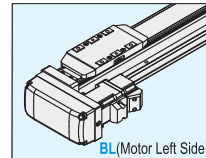
BC(Motor Exposed)



BM(Motor Bottom Side)



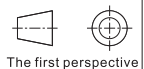
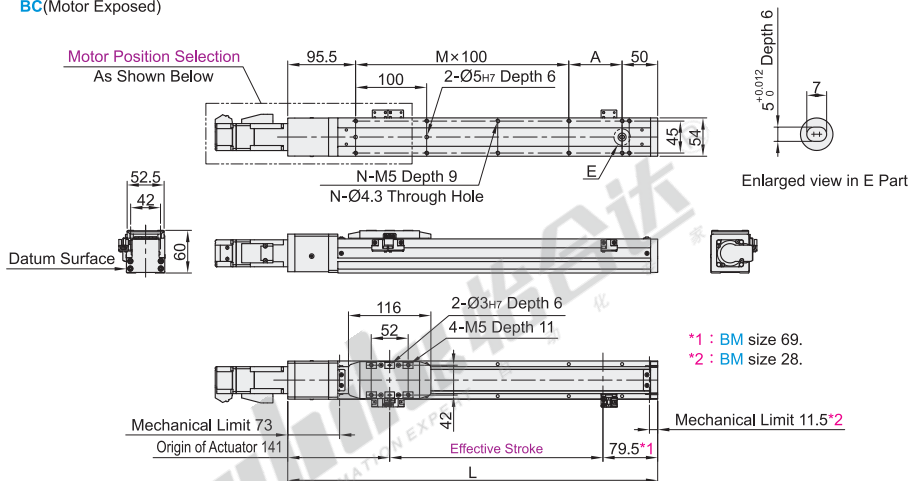
BR(Motor Right Side)



BL(Motor Left Side)

Motor Position :

BC(Motor Exposed)



[!] Motor Position Selection

BM(Motor Bottom Side)	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				
YCTH5	5	50~800 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)	10 (100W Servo) 42 (42 Stepping) 42 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) No Sensor 5 (No Sensor)

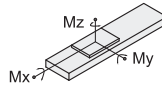
Specification

Recommended Motor Output		42 Stepping	100W Servo
Spec	Positioning Repeatability (mm)	±0.01	±0.01
	Ball Screw Lead (mm)	5 10 5 10	5 10
	Max Speed (mm/s)	250 500 250 500	
	Maximum Payload (kg)	Horizontal 30 15 30 15 Vertical 10 5 10 5	
	Rated Thrust (N)	341 170 341 170	
	Effective Stroke (mm)	50~800 (50mm Pitch)	
Parts	Ball Screw O.D. (mm)	12	
	Guide Type	Built-in	
	Home Sensor	Out Side	EE-SX674 (NPN)

Please contact us for OMRON Brand or PNP Sensor.

Allowable Moment Table

Mxd	144N.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	103N.m	
Mzd	103N.m	



The torque value in the table is dynamic allowable torque based on the running life of sliding table of 10000km.
 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															
		50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
BC (Motor Exposed)	L	270.5	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5
	A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
	M	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
	Weight(kg)※	2.23	2.42	2.62	2.82	3.01	3.21	3.41	3.6	3.8	4	4.19	4.39	4.59	4.78	4.98	5.18
BM (Motor Bottom Side)	L	250.5	300.5	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5
	A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
	M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
	N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
	Weight(kg)※	2.4	2.59	2.79	2.99	3.18	3.38	3.58	3.77	3.97	4.17	4.36	4.56	4.76	4.95	5.15	5.35
BR (Motor Right Side)	L	250.5	300.5	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5
	A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
	M	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
	Weight(kg)※	2.4	2.59	2.79	2.99	3.18	3.38	3.58	3.77	3.97	4.17	4.36	4.56	4.76	4.95	5.15	5.35
BL (Motor Left Side)	L	250.5	300.5	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5
	A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
	M	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
	Weight(kg)※	2.4	2.59	2.79	2.99	3.18	3.38	3.58	3.77	3.97	4.17	4.36	4.56	4.76	4.95	5.15	5.35

※ 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)	100W	MSMF012L1U2M	MADLN05SE
		With Brake (Vertical)		MSMF012L1V2M	
Mitsubishi	M	Without Brake (Horizontal)		HG-KN13J-S100	MR-JE-10A
		With Brake (Vertical)		HG-KN13BJ-S100	
Delta (B2)	T	Without Brake (Horizontal)		ECMA-C20401GS	ASD-B2-0121-B
		With Brake (Vertical)		ECMA-C20401FS	

Please consult our staff for other types of motor.

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.

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							Out Side 3 (1 Pc) 4 (2 Pcs) No Sensor 5 (No Sensor)

YCTH5-10-550-BM-M-10-N-C-4



Please order as shown



Discount price

Per	1~4	5~
Price	100%	Additional quotation



Delivery

9