

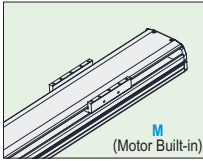
Single Axis Robots

◀ YTSC14 Series

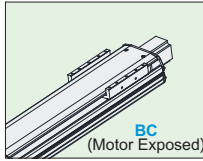
Lead Screw Drive, General Environment

Code	Base		Guide		Slider		Cover		Operating Ambient
	Material	Surface Treatment	Material	Surface Treatment	Material	Surface Treatment	Material	Surface Treatment	
YTSC14	Aluminum Alloy	Anodize	Iron	—	Aluminum Alloy	Anodize	Aluminum Alloy	Anodize	0~40°C 35~85%RH No Condensation

(I) This product does not include a motor, the motor must be purchased separately.



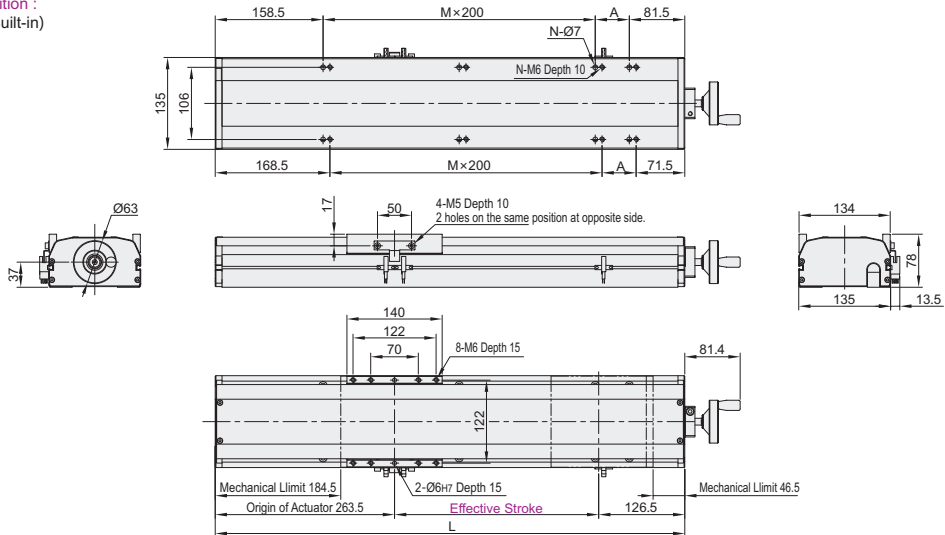
M
(Motor Built-in)



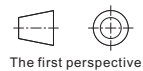
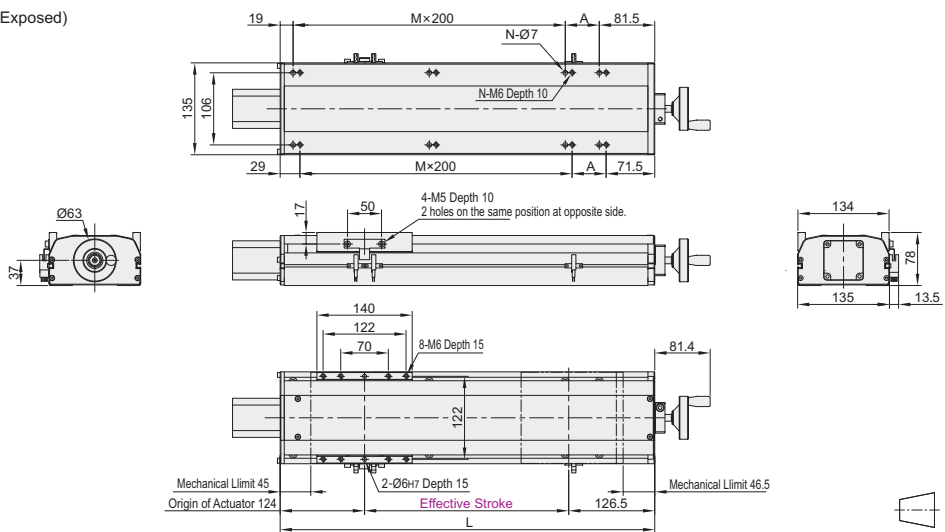
BC
(Motor Exposed)

Motor Position :

M(Motor Built-in)



BC(Motor Exposed)



The first perspective

Part Number		Effective Stroke (50 mm Increment)	Motor Position Selection	Motor Brand	Motor Output	Brake	Home Sensor	Limit Sensor
Code	Screw Lead							
YTSC14	4 Lead Screw Drive	100~1050 Non-standard stroke can be customized	M (Motor Built-in) BC (Motor Exposed) (I) The ultra-short manual sliding table that does not reserve motor installation space can be customized.	L (Leadshine)	57 (57 Stepping)	N (Without Brake) B (With Brake)	In Side A (Motor Side) B (Opposite Motor Side) Out Side C (Motor Side) D (Opposite Motor Side) No Sensor E (No Sensor)	In Side 1 (1 Pc) 2 (2 Pcs) Out Side 3 (1 Pc) 4 (2 Pcs) No Sensor 5 (No Sensor)

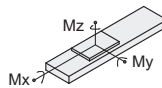
Specification

Recommended Motor Output		57 Stepping
Spec	Positioning Repeatability	±0.01
	Screw Lead	4
	Maximum Payload(kg)	Horizontal Vertical
		32 20
	Rated Thrust (N)	680
Parts	Lead Screw Outer Diameter	20
	Linear Guide Rail	15×12.5 Two Branch, Double Slide Blocks
	Home Sensor	Out Side In Side
		EE-SX672(NPN) EE-SX674(NPN)

① Please contact us for OMRON Brand or PNP Sensor.

Allowable Moment Table

Mxd	124 N.m
Myd	99 N.m
Mzd	99 N.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)

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.
 - 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.
 - Rated acceleration of the slide table is 0.3G, and the short-stroke slide table may not work reach top speed.
 - If the sliding table is used vertically, please choose the belt brake motor.

Maximum Speed

Screw Outer Diameter	Motor Output	Lead	Stroke																							
			100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
20	57 Stepping	4	32																							

Dimension Table

Motor Position	Dimension	Stroke											
		100	150	200	250	300	350	400	450	500	550	600	650
M (Motor Built-in)	L	490	540	590	640	690	740	790	840	890	940	990	1040
	A	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
	N	6	6	6	6	8	8	8	8	10	10	10	10
	Weight (kg)※	7.6	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1
Motor Position	Dimension	Stroke											
		700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
M (Motor Built-in)	L	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640
	A	50	100	150	200	50	100	150	200	50	100	150	200
	M	4	4	4	4	5	5	5	5	6	6	6	6
	N	12	12	12	12	14	14	14	14	16	16	16	16
	Weight (kg)※	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1
Motor Position	Dimension	Stroke											
		100	150	200	250	300	350	400	450	500	550	600	650
BC (Motor Exposed)	L	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5
	A	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
	N	6	6	6	6	8	8	8	8	10	10	10	10
	Weight (kg)※	7.6	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1
Motor Position	Dimension	Stroke											
		700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
BC (Motor Exposed)	L	950.5	1000.5	1050.5	1100.5	1150.5	1200.5	1250.5	1300.5	1350.5	1400.5	1450.5	1500.5
	A	50	100	150	200	50	100	150	200	50	100	150	200
	M	4	4	4	4	5	5	5	5	6	6	6	6
	N	12	12	12	12	14	14	14	14	16	16	16	16
	Weight (kg)※	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1

※ Not include motor weight.

List of servo motor which should be matched

Brand	Motor Mark	Brake	Watt	Servo Motor Part Number	Driver Part Number
Panasonic	P	Without Brake(Horizontal)	100W	MSMF012L1U2M	MADLN05SE
		With Brake(Vertical)		MSMF012L1V2M	
Mitsubishi	M	Without Brake(Horizontal)	100W	HG-KN13J-S100	MR-JE-10A
		With Brake(Vertical)		HG-KN13BJ-S100	
Delta(B2)	T	Without Brake(Horizontal)	100W	ECMA-C20401GS	ASD-B2-0121-B
		With Brake(Vertical)		ECMA-C20401FS	

① Please consult our staff for other types of motor .

① The part number listed in the table are motor and driver part number 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 Selection	Motor Brand	Motor Output	Brake	Home Sensor	Limit Sensor
Code	Screw Lead	(50 mm Increment)						
YTSC14	4	100~1250	M(Motor Built-in) BC(Motor Exposed)	L(Leadshine)	57(57 Stepping)	N(Without Brake) B(With Brake)	Out Side C(Motor Side) D (Opposite Motor Side)	Out Side 3(1 Pc) 4(2 Pcs)

YTSC14-4-550-BC-L-57-N-C-4



Discount price	Per 1~4	5~
Price 100%	Additional quotation	



Delivery	15
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① Quantity (1~4 Pcs)