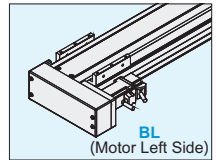
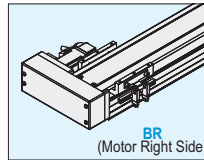
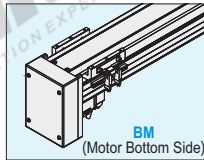
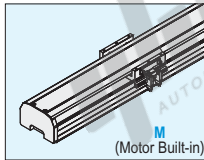
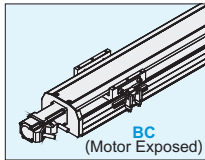


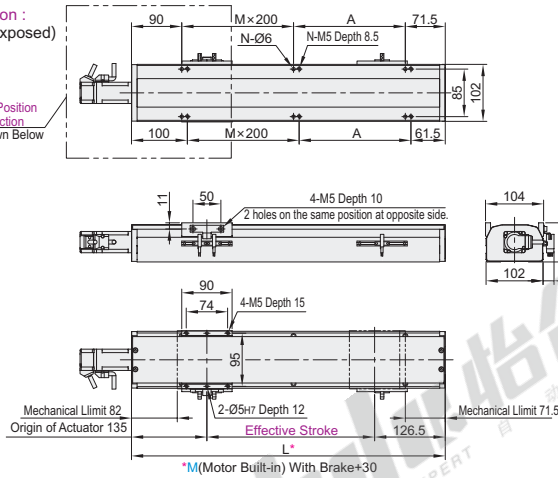
Code	Base		Guide		Slider		Cover		Operating Ambient
	Material	Surface Treatment	Material	Surface Treatment	Material	Surface Treatment	Material	Surface Treatment	
YBSC12	Aluminum Alloy	Anodize	Iron	—	Aluminum Alloy	Anodize	Aluminum Alloy	Anodize	0~40°C 35~85%RH No Condensation

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

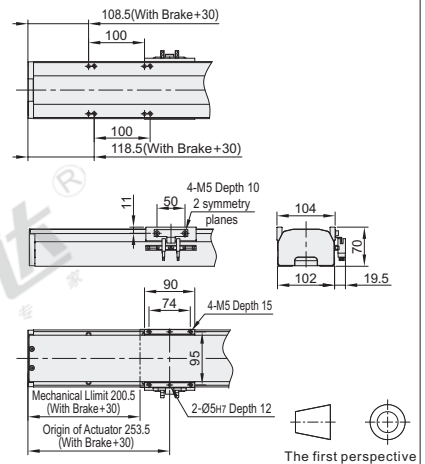


Motor Position :
BC (Motor Exposed)

Motor Position Selection
As Shown Below



M (Motor Built-in)



(2) Motor Position Selection

BM (Motor Bottom Side)		BR (Motor Right Side)		BL (Motor Left Side)	

Part Number		Effective Stroke (50 mm Increment)	Motor Position Selection	Motor Brand	Motor Output	Brake	Home Sensor	Limit Sensor
Code	Ball Screw Lead							
YBSC12	5	100~1050 Non-standard stroke can be customized	M (Motor Built-in) * BC (Motor Exposed) BM (Motor Bottom Side) BR (Motor Right Side) BL (Motor Left Side) *M (Motor Built-in) Motor Output are not suitable for 57 stepper motors.	P (Panasonic) Y (Yaskawa) M (Mitsubishi) T (Delta) H (Inovance) L (Leadshine)	10 (100W Servo) 57 (57 Stepping) (1) 57 Stepping Only applicable to Leadshine brand. (2) 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.	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)
	10							
	16							
	20							

Single Axis Robots

YBSC12 Series

Ball Screw Drive, General Environment

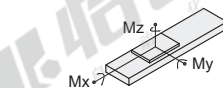
Specification

Recommended Motor Output		100W Servo			
Spec	Positioning Repeatability	±0.01			
	Ball Screw Lead	5	10	16	20
	Maximum Payload(kg)	Horizontal	50	30	22
		Vertical	12	8	5
	Rated Thrust (N)	340	170	106	85
Parts	Ball Screw Outer Diameter	16			
	Linear Guide Rail	20x8 Two Branch, Double Slide Blocks			
	Home Sensor	Out Side	EE-SX672(NPN)		
		In Side	EE-SX674(NPN)		

① Please contact us for OMRON Brand or PNP Sensor.

Allowable Moment Table

Mxd	130 N.m
Myd	150 N.m
Mzd	150 N.m



The torque value in the table is dynamic allowable torque based on the running life of sliding table of 10000km.

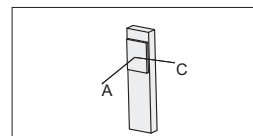
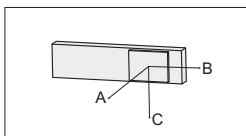
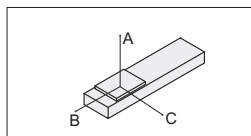
Torque conditions:

$Mx/Mxd + My/Myd + Mz/Mzd \leq 1$
(Mx, My, Mz are the actual moments in each direction)

Explanation :

- The actual load shall meet the following conditions:
(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.
- 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.

Load allowable moment table (unit: mm)



Horizontal installation		A	B	C
Lead 5	30kg	882	65	78
	40kg	606	43	51
	50kg	437	29	35
	15kg	875	138	157
Lead 10	25kg	485	73	83
	30kg	386	56	64
	5kg	1300	450	456
Lead 16	10kg	650	210	215
	22kg	310	95	100
	5kg	1160	384	386
Lead 20	10kg	561	180	181
	18kg	288	88	89

Wall-mounted installation		A	B	C
Lead 5	25kg	100	84	1102
	35kg	63	52	725
	50kg	35	29	433
	10kg	250	221	1311
Lead 10	20kg	110	97	633
	30kg	64	56	385
	5kg	465	450	1050
Lead 16	10kg	250	245	650
	22kg	95	94	295
	6kg	317	316	955
Lead 20	12kg	147	144	455
	18kg	89	88	288

Vertical installation		A	C
Lead 5	5kg	544	544
	8kg	341	341
	12kg	227	227
Lead 10	4kg	606	606
	8kg	303	303
Lead 16	2kg	1085	1085
	5kg	655	655
Lead 20	2kg	961	961
	3kg	639	639

Maximum Speed

Screw Outer Diameter	Motor Output	Lead	Stroke													
			100	150	200	250	300	350	400	450	500	550	600	650	700	750
16	100W Servo	5	250										225	200	175	150
		10	500										450	400	350	300
		16	800										720	640	560	480
		20	1000										900	800	700	600

Dimension Table

Motor Position	Dimension	Stroke													
		100	150	200	250	300	350	400	450	500	550	600	650	700	750
M (Motor Built-in)	L	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130
	A	200	50	100	150	200	50	100	150	200	50	100	150	200	50
	M	0	1	1	1	1	2	2	2	3	3	3	3	3	4
	N	4	6	6	6	6	8	8	8	8	10	10	10	10	12
	Weight (kg)※	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11	11.4	11.8
BC (Motor Exposed)	L	361.5	411.5	461.5	511.5	561.5	611.5	661.5	711.5	761.5	811.5	861.5	911.5	961.5	1011.5
	A	200	50	100	150	200	50	100	150	200	50	100	150	200	50
	M	0	1	1	1	1	2	2	2	3	3	3	3	3	4
	N	4	6	6	6	6	8	8	8	8	10	10	10	10	12
	Weight (kg)※	5.8	6.2	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11
BM (Motor Bottom Side)	L	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5	897.5	947.5	997.5
	A	200	50	100	150	200	50	100	150	200	50	100	150	200	50
	M	0	1	1	1	1	2	2	2	3	3	3	3	3	4
	N	4	6	6	6	6	8	8	8	8	10	10	10	10	12
	Weight (kg)※	5.7	6.1	6.5	6.9	7.3	7.7	8.1	8.5	8.9	9.3	9.7	10.1	10.5	10.9
BR (Motor Right Side)	L	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5	897.5	947.5	997.5
	A	200	50	100	150	200	50	100	150	200	50	100	150	200	50
	M	0	1	1	1	1	2	2	2	3	3	3	3	3	4
	N	4	6	6	6	6	8	8	8	8	10	10	10	10	12
	Weight (kg)※	5.7	6.1	6.5	6.9	7.3	7.7	8.1	8.5	8.9	9.3	9.7	10.1	10.5	10.9
BL (Motor Left Side)	L	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5	897.5	947.5	997.5
	A	200	50	100	150	200	50	100	150	200	50	100	150	200	50
	M	0	1	1	1	1	2	2	2	3	3	3	3	3	4
	N	4	6	6	6	6	8	8	8	8	10	10	10	10	12
	Weight (kg)※	5.7	6.1	6.5	6.9	7.3	7.7	8.1	8.5	8.9	9.3	9.7	10.1	10.5	10.9

※ 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	

☐ Please consult our staff for other types of motor .

☐ 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.



Please order as shown

Part Number		Effective Stroke	Motor Position	Motor	Motor Output	Brake	Home Sensor	Limit Sensor
Code	Ball Screw Lead	(50 mm Increment)	Selection	Brand				
YBSC12	5	100~1050	M(Motor Built-in) BC(Motor Exposed) BM(Motor Bottom Side)	P(Panasonic) Y(Yaskawa) M(Mitsubishi)	10(100W Servo) 57(57 Stepping)	N(Without Brake) B(With Brake)	C(Motor Side) D (Opposite Motor Side)	Out Side 3(1 Pc) 4(2 Pcs)
	10							

YBSC12 — 10 — 550 — BM — M — 10 — N — C — 4



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



Delivery	
	11

☐ Quantity (1~4 Pcs)