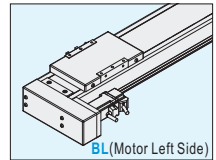
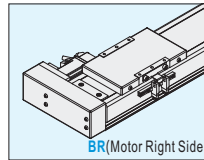
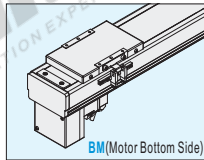
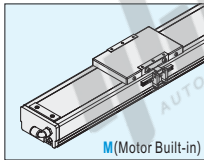
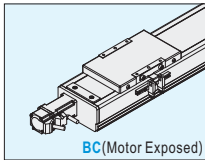


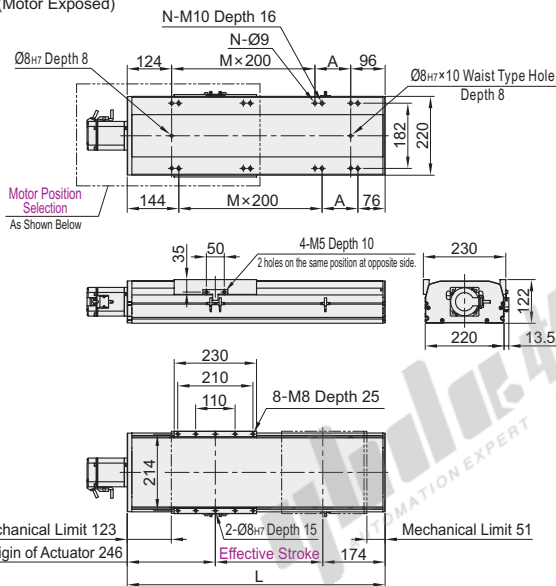
Code	Base		Guide		Slider		Cover		Operating Ambient
	Material	Surface Treatment	Material	Surface Treatment	Material	Surface Treatment	Material	Surface Treatment	
YBSC22	Aluminum Alloy	Anodize	Alloy Steel	—	Aluminum Alloy	Anodize	Aluminum Alloy	Anodize	0~40°C 35~85%RH No Condensation

[i] This product does not include motor, which need purchase additionally.

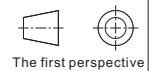
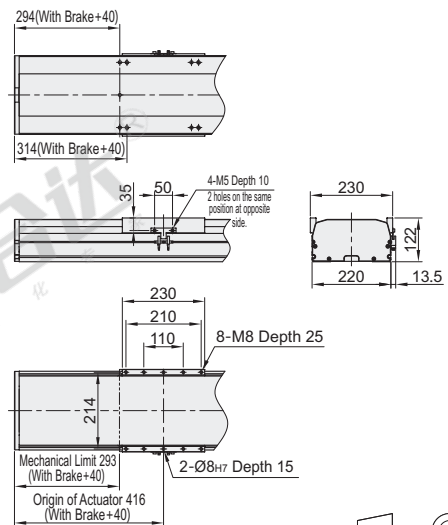


Motor Position :

BC(Motor Exposed)



M(Motor Built-in)



[i] Motor Position Selection

BM(Motor Bottom Side)	BR(Motor Right Side)	BL(Motor Left Side)
Technical drawing of the BM (Motor Bottom Side) configuration. Dimensions include: 86, 106, 230, 220, 13.5, 96.5, 122, 4-M5 Depth 10, 2 holes on the same position at opposite side, 35, 50, 210, 110, 8-M8 Depth 25, 214, 2-Ø8_{H7} Depth 15, Mechanical Limit 85, Origin of Actuator 208.	Technical drawing of the BR (Motor Right Side) configuration. Dimensions include: 86, 106, 230, 220, 13.5, 97.5, 122, 4-M5 Depth 10, 2 holes on the same position at opposite side, 35, 50, 210, 110, 8-M8 Depth 25, 214, 2-Ø8_{H7} Depth 15, Mechanical Limit 85, Origin of Actuator 208.	Technical drawing of the BL (Motor Left Side) configuration. Dimensions include: 86, 106, 230, 220, 13.5, 97.5, 122, 4-M5 Depth 10, 2 holes on the same position at opposite side, 35, 50, 210, 110, 8-M8 Depth 25, 214, 2-Ø8_{H7} Depth 15, Mechanical Limit 85, Origin of Actuator 208.

Single Axis Robots

YBSC22 Series

Ball Screw Drive, General Environment

Part Number		Effective Stroke	Motor Position	Motor Brand	Motor Output	Brake	Home Sensor	Limit Sensor
Code	Ball Screw Lead	(50 mm Increment)	Selection					
YBSC22	5	100 ~ 1500 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)	P (Panasonic) Y (Yaskawa) M (Mitsubishi) T (Delta) H (Inovance) L (Leadshine)	75(750W Servo)	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							
	25							
	40							

Specification

Recommended Motor Output			750W Servo			
Spec	Positioning Repeatability		±0.01			
	Ball Screw Lead(mm)		5	10	25	40
	Maximum Payload(kg)	Horizontal	150	150	120	60
		Vertical	55	45	20	10
	Rated Thrust(N)		2100	1050	420	262
	Effective Stroke(mm)		100~1500(50mm Pitch)			
Parts	Ball Screw O.D.(mm)		25			20
	Linear Guide Rail		23x18 Two Branch,Double Slide Blocks			
	Home Sensor	Out Side	EE-SX672(NPN)			
		In Side	EE-SX674(NPN)			

Allowable Moment Table

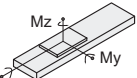
Mxd	1810N.m
Myd	2052N.m
Mzd	2052N.m

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.

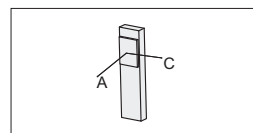
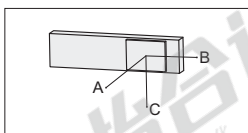
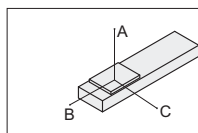
The torque value in the table is dynamic allowable torque based on the running life of sliding table of 10000km.

Torque conditions: $M_x/M_{xd} + M_y/Myd + M_z/M_{zd} \leq 1$
 (Mx, My, Mz are the actual moments in each direction)



Please contact us for OMRON Brand or PNP Sensor.

Load allowable moment table (unit: mm)



Horizontal installation		A	B	C
Lead 5	100kg	5000	633	557
	125kg	3880	491	431
	150kg	3357	396	347
Lead 10	100kg	3220	563	474
	125kg	2554	434	367
	150kg	2113	349	295
Lead 25	65kg	1522	614	458
	85kg	1136	451	336
	105kg	893	350	262
Lead 40	18kg	2445	1616	1052
	30kg	1436	938	613
	43kg	978	630	412

Wall-mounted installation		A	B	C
Lead 5	110kg	500	569	4500
	130kg	412	469	3711
	150kg	347	396	3357
Lead 10	110kg	427	503	2900
	130kg	351	414	2444
	150kg	295	349	2113
Lead 25	70kg	420	564	1404
	90kg	315	420	1066
	105kg	262	350	893
Lead 40	15kg	1272	1955	2948
	24kg	778	1190	1813
	43kg	412	630	978

Vertical installation		A	C
Lead 5	30kg	2355	2355
	40kg	1768	1768
	55kg	1288	1288
Lead 10	25kg	2505	2505
	35kg	1795	1795
	45kg	1396	1396
Lead 25	15kg	2711	2711
	20kg	2033	2033
Lead 40	7kg	3511	3511
	12kg	2055	2055

Maximum Speed

Screw Outer Diameter	Motor Output	Lead	Stroke													
			100~850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
25	750W servo	5	250	250	225	225	200	200	175	175	150	150	125	126	100	100
		10	500	500	450	450	400	400	350	350	300	300	250	250	200	200
		25	1250	1250	1125	1125	1000	1000	875	875	750	750	625	625	500	500
20		40	2000	1800	1800	1600	1600	1400	1400	1200	1200	1000	1000	800	800	600

Dimension Table

Motor Position	Dimension	Stroke															
		100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	
M (Motor Build-in)	L	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	
	A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	
	M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	
	N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	
	Weight(kg)※	24.1	25.3	26.5	27.7	28.9	30.1	31.3	32.5	33.7	34.9	36.1	37.3	38.5	39.7	40.9	
BC (Motor Exposed)	L	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	
	A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	
	M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	
	N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	
	Weight(kg)※	22.1	23.3	24.5	25.7	26.9	28.1	29.3	30.5	31.7	32.9	34.1	35.3	36.5	37.7	38.9	
BM (Motor Bottom Side)	L	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132	1182	
BR (Motor Right Side)	A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	
BL (Motor Left Side)	M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	
	N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	
	Weight(kg)※	20.3	21.5	22.7	23.9	25.1	26.3	27.5	28.7	29.9	31.1	32.3	33.5	34.7	35.9	37.1	

Dimension Table

Motor Position	Dimension	Stroke													
		850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
M (Motor Build-in)	L	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090
	A	50	100	150	200	50	100	150	200	50	100	150	200	50	100
	M	5	5	5	5	6	6	6	6	7	7	7	7	8	8
	N	14	14	14	14	16	16	16	16	18	18	18	18	20	20
	Weight(kg)※	42.1	43.3	44.5	45.7	46.9	48.1	49.3	50.5	51.7	52.9	54.1	55.3	56.5	57.7
BC (Motor Exposed)	L	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720	1770	1820	1870	1920
	A	50	100	150	200	50	100	150	200	50	100	150	200	50	100
	M	5	5	5	5	6	6	6	6	7	7	7	7	8	8
	N	14	14	14	14	16	16	16	16	18	18	18	18	20	20
	Weight(kg)※	40.1	41.3	42.5	43.7	44.9	46.1	47.3	48.5	49.7	50.9	52.1	53.3	54.5	55.7
BM (Motor Bottom Side)	L	1232	1282	1332	1382	1432	1482	1532	1582	1632	1682	1732	1782	1832	1882
	A	50	100	150	200	50	100	150	200	50	100	150	200	50	100
BR (Motor Right Side)	M	5	5	5	5	6	6	6	6	7	7	7	7	8	8
	N	14	14	14	14	16	16	16	16	18	18	18	18	20	20
BL (Motor Left Side)	Weight(kg)※	38.3	39.5	40.7	41.9	43.1	44.3	45.5	46.7	47.9	49.1	50.3	51.5	52.7	53.9

※ 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)	750W	MSMF082L1U2M	MCDLN35SE
		With Brake(Vertical)		MSMF082L1V2M	
Mitsubishi	M	Without Brake(Horizontal)	750W	HG-KN73J-S100	MR-JE-70A
		With Brake(Vertical)		HG-KN73BJ-S100	
Delta(B2)	T	Without Brake(Horizontal)	750W	ECMA-C20807RS	ASD-B2-0721-B
		With Brake(Vertical)		ECMA-C20807SS	

① Please consult our staff for other types of motor .

② 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 Code	Ball Screw Lead 50 mm Increment	Effective Stroke (50 mm Increment)	Motor Position Selection	Motor Brand	Motor Output	Brake	Home Sensor	Limit Sensor
YBSC22	5	100~1500	M(Motor Built-in) BC(Motor Exposed) BM(Motor Bottom Side)	P(Panasonic) Y(Yaskawa) M(Mitsubishi)	75(750W Servo)	N(Without Brake) B(With Brake)	Out Side C(Motor Side) D (Opposite Motor Side)	Out Side 3(1 Pc) 4(2 Pcs)

YBSC22-10-550-BM-M-75-N-C-4



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



Delivery	
	13