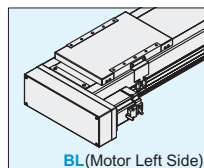
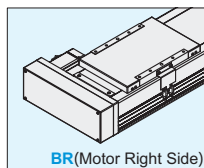
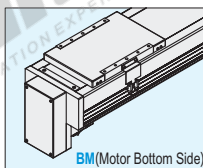
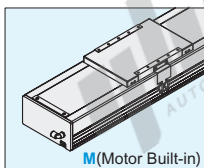
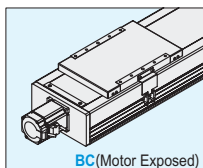
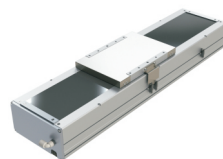


Code	Base		Guide		Slider		Cover		Operating Ambient
	Material	Surface Treatment	Material	Surface Treatment	Material	Surface Treatment	Material	Surface Treatment	
YCBSC22	Aluminum Alloy	Anodize	Alloy Steel	—	Aluminum Alloy	Anodize	Aluminum Alloy	Anodize	0~40°C 35~85%RH No Condensation

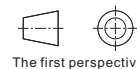
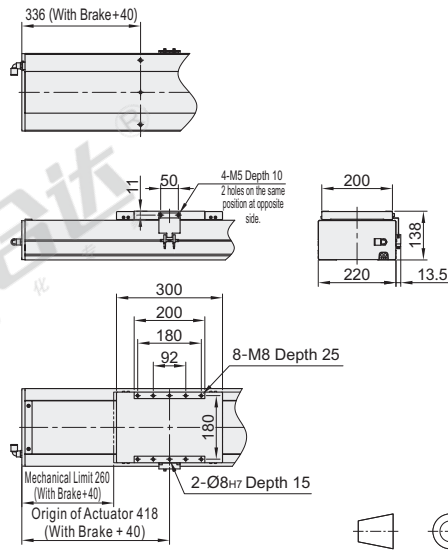
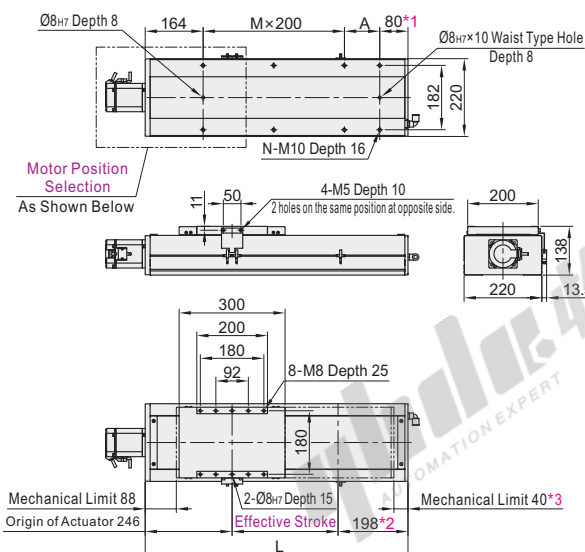
! This product does not contain a motor, the motor must be purchased separately.



Motor Position :
BC(Motor Exposed)

- *1: The **BM/BR/BL** size is 109.
- *2: The **BM/BR/BL** size is 227.
- *3: The **BM/BR/BL** size is 70.

M(Motor Built-in)



■ 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: 190, 200, 138, 13.5, 96.5, 220, 300, 200, 180, 92, 8-M8 Depth 25, 180, Mechanical Limit 115, Origin of Actuator 272, 2-Ø8H7 Depth 15.	Technical drawing of the BR (Motor Right Side) configuration. Dimensions include: 190, 200, 138, 13.5, 97.5, 220, 300, 200, 180, 92, 8-M8 Depth 25, 180, Mechanical Limit 115, Origin of Actuator 272, 2-Ø8H7 Depth 15.	Technical drawing of the BL (Motor Left Side) configuration. Dimensions include: 190, 200, 138, 13.5, 97.5, 220, 300, 200, 180, 92, 8-M8 Depth 25, 180, Mechanical Limit 115, Origin of Actuator 272, 2-Ø8H7 Depth 15.

Single Axis Robots

YCBSC22 Series

Ball Screw Drive, Clean Room Environment

Part Number		Effective Stroke (50 mm Inc.)	Motor Position Selection	Motor Brand	Motor Output	Brake	Home Sensor	Limit Sensor
Code	Ball Screw Lead							
YCBSC22	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)	In Side 1(1 Pc) 2(2 Pcs)
	10						Out Side C (Motor Side) D (Opposite Motor Side)	Out Side 3(1 Pc) 4(2 Pcs)
	25						No Sensor E(No Sensor)	No Sensor 5(No Sensor)
	40							

Specification

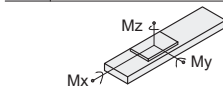
Recommended Motor Output		750W Servo			
Spec	Positioning Repeatability	±0.01			
	Ball Screw Lead	5	10	25	40
	Maximum Speed(mm/s)	250	500	1250	2000
	Maximum Payload(kg)	Horizontal	150	150	120
		Vertical	55	45	20
	Rated Thrust (N)	2100	1050	420	262
Parts	Effective Stroke(mm)	100~1500(50mm Pitch)			
	Ball Screw Outer Diameter	25			
	Linear Guide Rail	23x18 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.

② Load allowable moment table (unit: mm)

Allowable Moment Table

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

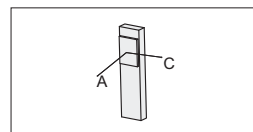
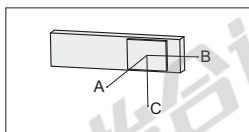
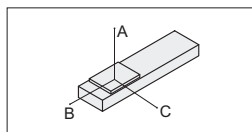


The torque value in the table is dynamic allowable torque based on the running life of sliding table of 10000km.

Torque conditions:

$Mx/Mxd + My/Myd + Mz/Mzd \leq 1$

(Mx, My, Mz are the actual moments in each direction)



Horizontal installation	A	B	C
Lead 5	100kg	5000	633
	125kg	3880	491
	150kg	3357	396
Lead 10	100kg	3220	563
	125kg	2554	434
	150kg	2113	349
Lead 25	65kg	1522	614
	85kg	1136	451
	105kg	893	350
Lead 40	18kg	2445	1616
	30kg	1436	938
	43kg	978	630

Wall-mounted installation	A	B	C
Lead 5	110kg	500	569
	130kg	412	469
	150kg	347	396
Lead 10	110kg	427	503
	130kg	351	414
	150kg	295	349
Lead 25	70kg	420	564
	90kg	315	420
	105kg	262	350
Lead 40	15kg	1272	1955
	24kg	778	1190
	43kg	412	630

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

Dimension Table

Motor Position	Dimension	Stroke															
		100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	
M (Motor Built-in)	L	716	766	816	866	916	966	1016	1066	1116	1166	1216	1266	1316	1366	1416	
	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	
BC (Motor Exposed)	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	
	L	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	
	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	
BM (Motor Bottom Side)	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	
	L	599	649	699	749	799	849	899	949	999	1049	1099	1149	1199	1249	1299	
	A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	
BR (Motor Right 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	
	L	599	649	699	749	799	849	899	949	999	1049	1099	1149	1199	1249	1299	

Dimension Table

Motor Position	Dimension	Stroke													
		850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
M (Motor Built-in)	L	1466	1516	1566	1616	1666	1716	1766	1816	1866	1916	1966	2016	2066	2116
	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	1294	1344	1394	1444	1494	1544	1594	1644	1694	1744	1794	1844	1894	1944
	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	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
	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)※	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 Model	Driver Model
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 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.



Please order as shown

Part Number		Effective Stroke (50 mm Inc.)	Motor Position Selection	Motor Brand	Motor Output	Brake	Home Sensor	Limit Sensor
Code	Ball Screw Lead							
YCBSC22	5	100 ~ 1500	M(Motor Built-in)	P(Panasonic)	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)
	10		BC(Motor Exposed) SM(Motor Bottom Side)	Y(Yaskawa) M(Mitsubishi)				

YCBSC22-10-550-BM-M-75-N-C-4



Discount price

Per	1~4	5~
Price	100%	Additional quotation



Delivery

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