

## Linear Motion Bearings

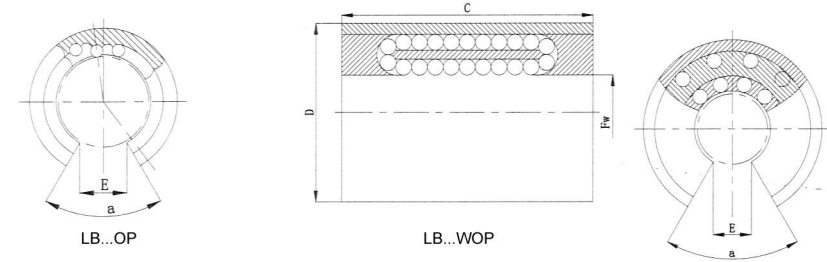
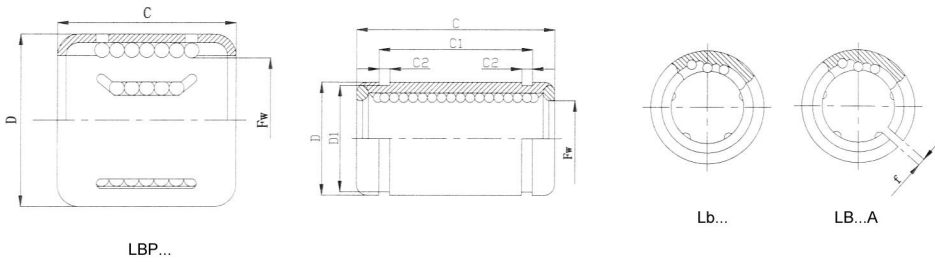
Linear motion bearings support the linear movement of a mechanism. The rolling element of linear motion bearings are steel balls and they are circulating inside the sealed raceways of one cylindrical bearing around the shaft.

Bearings for linear motion are suitable for following applications:

- ◆ Steady and low friction movement, no crawling and vibration;
- ◆ Little driving force needed when linear movement of the bearing relative to shaft

Through correct selection of different bearings for linear motion, above requirements and other application requirements would be matched, such as closed bearings, open bearings or adjustable bearings.

Please contact UBC for special requirements or bearing applications.



Designation	Principal dimensions		
	F <sub>w</sub>	D	C
LBP.....			
LBP 3710	3	7	10
LBP 4812	4	8	12
LBP 51015	5	10	15
LBP 61219	6	12	19
LBP 81524	8	15	24
LBP 101726	10	17	26
LBP 121928	12	19	28
LBP 162430	16	24	30
LBP 202830	20	28	30
LBP 253540	25	35	40
LBP 304050	30	40	50
LBP 405260	40	52	60
LBP 506270	50	62	70
LBP 607585	60	75	85
LBP 122024	12	20	24
LBP 162528	16	25	28
LBP 203030	20	30	30
LBP 253737	25	37	37
LBP 304444	30	44	44
LBP 405656	40	56	56

Note: the table size be used LB..... and LB.....AJ bearing

Designation			Principal dimensions								open wrapping angle $\alpha$ min(°)
LB...	LB... AJ	LB... OP	F <sub>w</sub>	D	C	C <sub>1</sub>	C <sub>2min</sub>	C <sub>1min</sub>	f	E <sub>min</sub>	
LB 51222	LB 51222AJ	-	5	12	22	14.2	1.1	11.5	1	-	-
LB 51322	LB 61322AJ	-	6	13	22	14.2	1.1	12.4	1	-	-
LB 81625	LB 81625AJ	-	8	16	25	16.2	1.1	15.2	1	-	-
LB 101929	LB 101929AJ	LB 101929 OP	10	19	29	21.6	1.3	18	1	6	65
LB 122232	LB 122232AJ	LB 122232 OP	12	22	32	22.6	1.3	21	1.5	6.5	65
LB 162636	LB 162636AJ	LB 162636 OP	16	26	36	24.6	1.3	24.9	1.5	9	50
LB 203245	LB 203245AJ	LB 203245 OP	20	32	45	31.2	1.6	30.5	2	9	50
LB 254058	LB 254058AJ	LB 254058 OP	25	40	58	43.7	1.85	38.5	2	11	50
LB 304768	LB 304768AJ	LB 304768 OP	30	47	68	51.7	1.85	44.5	2	12.5	50
LB 355270	LB 355270AJ	LB 355270 OP	35	52	70	49.2	2.15	49	2.5	15	50
LB 406280	LB 406280AJ	LB 406280 OP	40	62	80	60.3	2.15	59	2.5	16.5	50
LB 5075100	LB 5075100AJ	LB 5075100 OP	50	75	100	77.3	2.65	72	2.5	21	50
LB 6090125	LB 6090125AJ	LB 6090125 OP	60	90	125	101.3	3.15	86.5	3	26	50
LB 80120165	LB 80120165AJ	LB 80120165 OP	80	120	165	133.3	4.15	116	3	36	50
LB 100150175	LB 100150175AJ	LB 100150175 OP	100	150	175	143.3	4.15	145	3	45	50

Note: The bearings of opening and revision , D and D<sub>1max</sub> is mounting in shaft diameter for D, not deviation of thick walled tube by sleeve

Designation	Principal dimensions				open wrapping angle $\alpha$ min(°)
	F <sub>w</sub>	D	C	E <sub>min</sub>	
LB...WOP					
LB 306075 WOP	30	60	75	14	72
LB 4075100 WOP	40	75	100	19.5	72
LB 5090125 WOP	50	90	125	24.5	72
LB 60110150 WOP	60	110	150	29	72
LB 80145200 WOP	80	145	200	39	72

Note: D is mounting in shaft diameter for D, not deviation of thick walled tube by sleeve.