

microlinea® - serie DBL

Miniature precision linear bearings for linear motion
 automation, medical instrumentation, military and defense industry, space industry

Advantage
 High precision
 Low noise
 Low friction
 Cost effective
 Corrosion resistant

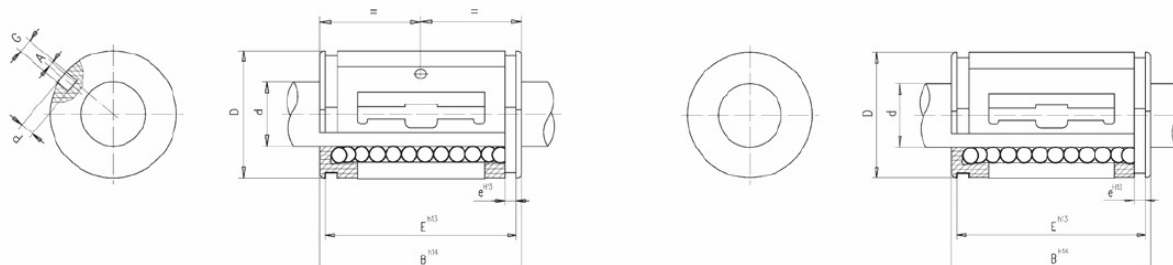
Reference	d [mm]	D [mm]	B [mm]	e [mm]	E [mm]	ØG [mm]	A [mm]	P [mm]	Load ratings		
									stat Co [N]	dyn C [N]	Ball rows
DBL 307X	3	7	10	-	-	1.0	0.0	0.75	27	26	3
DBL 408X	4	8	12	-	-	1.0	0.0	0.9	50	44	4
DBL 510X	5	10	15	-	-	1.2	0.1	1.0	84	72	4
DBL 612X	6	12	19	-	-	1.0	0.0	1.0	132	114	4
DBL 815X	8	15	24	1.1	23	1.5	0.85	1.0	204	167	5
DBL 1017X	10	17	26	1.1	25	1.5	0.85	1.2	234	186	5
DBL 1219X	12	19	28	1.3	26.4	1.5	1.25	1.2	257	202	6
DBL 1222X	12	22	32	1.3	22.60				352	310	6
DBL 1626X	16	26	36	1.3	24.60				440	372	7
DBL 2032X	20	32	45	1.6	31.20				689	591	7
DBL 2540X	25	40	58	1.85	43.70				1332	1162	7

Example of part number definition:

- DBL 307X precision linear bearing
- DBL 307X dimension: first digit bore = 3[mm]
- DBL 307X second 2 digits outer diameter = 7[mm]
- DBL 307X indicates stainless steel
- Housing polyamide
- balls and needles: stainless steel
- Lubrication Standard: Winsor Lube L245X (other oil on request)

Bearings are available with wipers on both sides.
 Please, indicate **-JR** on the part number (e.g. 1219X-JR).

Material: stainless steel / polyamide



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DBL	Recommended tolerances				Radial clearance with the proposed tolerances for the housing and shaft		
	Housing		Shaft		Nominal value	H5 / h5	H6 / h6
	H5 [µm]	H6 [µm]	h5 [µm]	h6 [µm]	[µm]	[µm]	[µm]
307	0/+6	0/+9	0/-4	0/-6	0/6	0/16	0/21
408	0/+6	0/+9	0/-5	0/-8	0/6	0/17	0/23
510	0/+6	0/+9	0/-5	0/-8	0/6	0/17	0/23
612	0/+8	0/+11	0/-5	0/-8	0/6	0/19	0/25
815	0/+8	0/+11	0/-6	0/-9	0/6	0/20	0/26
1017	0/+8	0/+11	0/-6	0/-9	0/6	0/20	0/26
1219	0/+9	0/+13	0/-8	0/-11	0/6	0/23	0/30
1222	0/+9	0/+13	0/-8	0/-11	0/6	0/23	0/30
1626	0/+9	0/+13	0/-8	0/-11	0/6	0/23	0/30
2032	0/+11	0/+16	0/-9	0/-13	0/6	0/26	0/35
2540	0/+11	0/+16	0/-9	0/-13	0/7	0/27	0/36

