

Linear Bearings

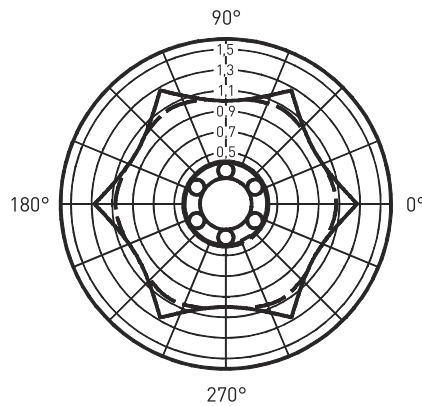
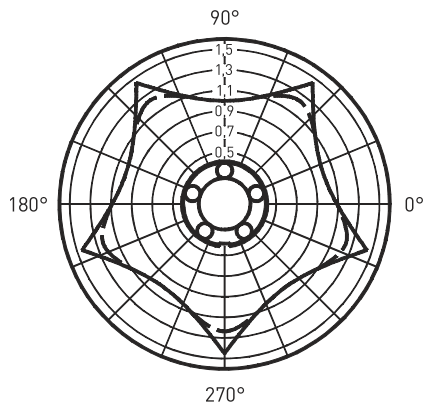
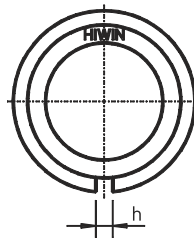
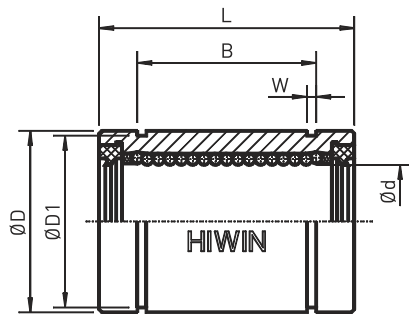
Designs

3.2 Configurable standard linear bearing UB..AJ

Configurable standard linear bearing

- Slotted solid outer ring
- Configurable radial air (use of a slotted configurable housing)
- Operating temperature: +10 °C to +80 °C
- High sealing effects of the wipers
- Low lubricant requirements

Standard: 2 wipers
On request: 1 wiper
without wiper



— f_{θ} (C_{dyn})
- - - $f_{\theta 0}$ (C_0)

Table 3.2 Specifications of UB..AJ linear bearings

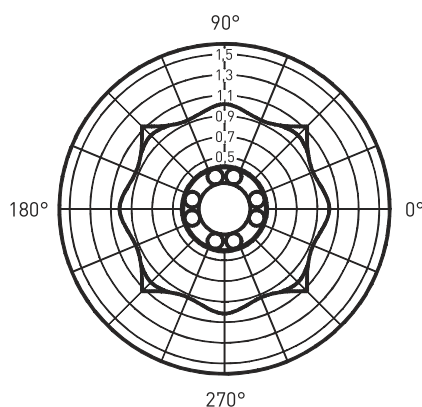
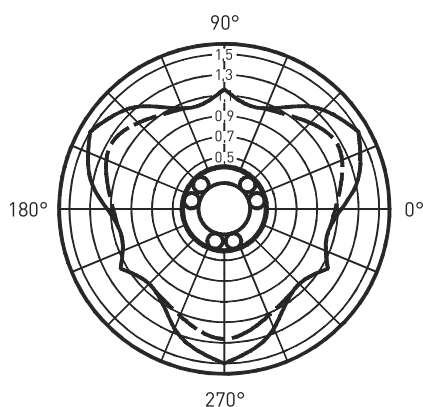
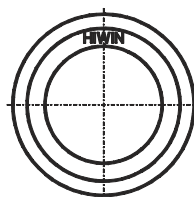
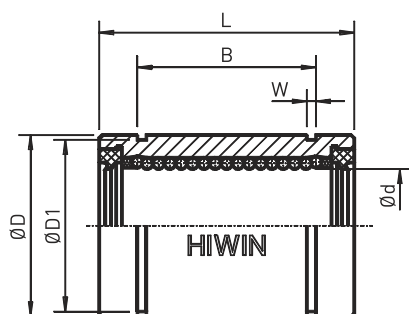
Shaft Ø	Article number			Rows of balls	Ø d [mm]	Ø D [mm]	L [mm]	B [mm]	W [mm]	Ø D1 [mm]	h [mm]	Dyn. load rating C_{dyn} [N]	Stat. load rating C_0 [N]
	With two wipers	With one wiper	Without wiper										
8	UB-8AJWW	UB-8AJW	UB-8AJ	4	8 ^{+0.008} ₀	16 ⁰ _{-0.008}	25 ⁰ _{-0.2}	16.5 ⁰ _{-0.2}	1.10	15.2	1.0	280	420
12	UB-12AJWW	UB-12AJW	UB-12AJ	5	12 ^{+0.008} ₀	22 ⁰ _{-0.009}	32 ⁰ _{-0.2}	22.9 ⁰ _{-0.2}	1.30	21.0	1.5	640	950
16	UB-16AJWW	UB-16AJW	UB-16AJ	5	16 ^{+0.009} _{-0.001}	26 ⁰ _{-0.009}	36 ⁰ _{-0.2}	24.9 ⁰ _{-0.2}	1.30	24.9	1.5	720	1,120
20	UB-20AJWW	UB-20AJW	UB-20AJ	5	20 ^{+0.009} _{-0.001}	32 ⁰ _{-0.011}	45 ⁰ _{-0.2}	31.5 ⁰ _{-0.2}	1.60	30.3	2.0	920	1,480
25	UB-25AJWW	UB-25AJW	UB-25AJ	6	25 ^{+0.011} _{-0.001}	40 ⁰ _{-0.011}	58 ⁰ _{-0.3}	44.1 ⁰ _{-0.3}	1.85	37.5	2.0	1,070	1,670
30	UB-30AJWW	UB-30AJW	UB-30AJ	6	30 ^{+0.011} _{-0.001}	47 ⁰ _{-0.011}	68 ⁰ _{-0.3}	52.1 ⁰ _{-0.3}	1.85	44.5	2.0	1,630	2,850
40	UB-40AJWW	UB-40AJW	UB-40AJ	6	40 ^{+0.013} _{-0.002}	62 ⁰ _{-0.013}	80 ⁰ _{-0.3}	60.6 ⁰ _{-0.3}	2.15	59.0	3.0	2,250	4,200
50	UB-50AJWW	UB-50AJW	UB-50AJ	6	50 ^{+0.013} _{-0.002}	75 ⁰ _{-0.013}	100 ⁰ _{-0.3}	77.6 ⁰ _{-0.3}	2.65	72.0	3.0	3,950	8,200

3.3 Closed heavy load linear bearing UBM..A

Closed heavy load linear bearing

- Heavy load version
- Solid outer ring
- Minimised radial air
- Operating temperature: +10 °C to +80 °C
- High sealing effects of the wipers
- Low lubricant requirements

Standard: 2 wipers
On request: 1 wiper
without wiper



— f_0 (C_{dyn})
- - - f_{00} (C_0)

Table 3.3 Specifications of UBM..A linear bearings

Shaft Ø	Article number			Rows of balls	Ø d [mm]	Ø D [mm]	L [mm]	B [mm]	W [mm]	Ø D1 [mm]	Dyn. load rating C_{dyn} [N]	Stat. load rating C_0 [N]
	With two wipers	With one wiper	Without wiper									
12	UBM-12AWW	UBM-12AW	UBM-12A	6	12 $^{+0.008}_0$	22 $^0_{-0.009}$	32 $^0_{-0.2}$	22.9 $^0_{-0.2}$	1.30	21.0	660	1,310
16	UBM-16AWW	UBM-16AW	UBM-16A	6	16 $^{+0.009}_{-0.001}$	26 $^0_{-0.009}$	36 $^0_{-0.2}$	24.9 $^0_{-0.2}$	1.30	24.9	800	1,480
20	UBM-20AWW	UBM-20AW	UBM-20A	6	20 $^{+0.009}_{-0.001}$	32 $^0_{-0.011}$	45 $^0_{-0.2}$	31.5 $^0_{-0.2}$	1.60	30.3	1,050	2,280
25	UBM-25AWW	UBM-25AW	UBM-25A	8	25 $^{+0.011}_{-0.001}$	40 $^0_{-0.011}$	58 $^0_{-0.3}$	44.1 $^0_{-0.3}$	1.85	37.5	1,370	3,470
30	UBM-30AWW	UBM-30AW	UBM-30A	8	30 $^{+0.011}_{-0.001}$	47 $^0_{-0.013}$	68 $^0_{-0.3}$	52.1 $^0_{-0.3}$	1.85	44.5	2,100	5,920
40	UBM-40AWW	UBM-40AW	UBM-40A	8	40 $^{+0.013}_{-0.002}$	62 $^0_{-0.013}$	80 $^0_{-0.3}$	60.6 $^0_{-0.3}$	2.15	59.0	3,820	9,250