ACCELERATED







ABEG® Xspeed — MARATHON RUNNING AT TOP SPEED

Long service life, high rpm, guaranteed safety, low friction sealing technology, favourable price and short delivery times – these specifications have been bundled in the ABEG® Xspeed series of bearings for high speed applications. These stringent criteria were satisfied by modifying the proven bearing technology with seals for applications in high rpm ranges, and using special greases to minimise friction. The bearings satisfying Xspeed specifications succeed in boosting the actual service lives by around 50 % compared to reference values for conventional premium bearings.



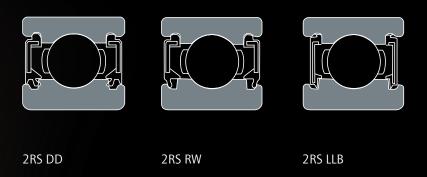


The Lubricant Makes the Difference

Improved running properties at high speeds go hand-in-hand with higher specifications for surface quality and the profiling of raceways. Xspeed bearings are therefore made to satisfy tolerance class P6 with higher precision and concentricity accuracy. The bearing clearance is adjusted to the high speeds by constraining the tolerance. A special highly pure, low viscosity and low noise grease with outstanding start-up properties ensures optimal operating conditions at high rpm (cf. Figure 1).

Optimal Protection

The self-heating of the bearing plays an important role in high speed applications. It changes the properties and performance of the lubricant and can be reduced by using the proper seals. Tests on the performance test station have also revealed that Xspeed type bearings have much lower vibration acceleration during the noise tests than the premium reference class. They also reach much lower operating temperatures under the same performance parameters.



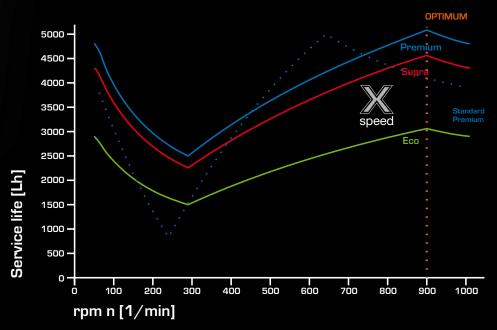


Figure 1



Inner Ring P6 (higher precision, standard for Xspeed)

Ø mm			Variations V _{dp} for diameter series pursuant to DIN 616			Variations V _{dmp}	Concentricity K _{ia}	Deviati dimer		Varia- tions V _{BS}	
Above	То	Upper	Lower		Max.			Max.	Upper	Lower	Max.
2,5	10	0	-7	9	7	5	5	6	0	- 120	15
10	18	0	-7	9	7	5	5	7	0	- 120	20
18	30	0	-8	10	8	6	6	8	0	- 120	20
30	50	0	-10	13 10 8			8	10	0	- 120	20
50	80	0	-12	15 15 9			9	10	0	- 120	25

Table 1

Inner Ring PO (normal precision for comparison)

Ø mm		Deviation $\Delta_{_{ m dmp}}$ dimensions		Variations V _{dp} for diameter series pursuant to DIN 616			Variations V _{dmp}	Concentricity K _{ia}		ion $\Delta_{_{ m BS}}$ nsions	Varia- tions V _{BS}
				68, 69	60	62, 63					R2
Above	То	Upper	Lower	Max.			Max.	Max.	Upper	Lower	Max.
2,5	10	0	-8	10	8	6	6	10	0	-120	15
10	18	0	-8	10	8	6	6	10	0	-120	20
18	30	0	-10	13	10	8	8	13	0	-120	20
30	50	0	-10	15	12	9	9	10	0	-120	20
50	80	0	-15	19	19	11	11	20	0	- 120	25

Table 2





Outer Ring P6 (higher precision, standard for Xspeed)

Ø mn	Ø Deviatio mm dimen:		on $\Delta_{_{ ext{dmp}}}$ usions	Variations V _{dp} open bearing Diameter series pursuant to DIN 616 68, 69 60 62, 63 62, 63		Variations V _{dmp}	Concentri- city K _{ia}	Deviation $\Delta_{ extstyle{BS}}$ dimensions	Varia- tions V _{BS}					
Above	То	Upper	Lower				Max.	Max.						
6	18	0	-7	9	7	5	9	5	8					
18	30	0	-8	10	8	6	10	6	9					
30	50	0	-9	11	9	7	13	7	10					
50	80	0	-11	14	11	8	16	8	13	tolerances to inn				
80	120	0	-13	16	16	10	20	10	18	to iiii	ci iiig			
120	150	0	-15	19	19	11	25	11	20					
150	180	0	-18	23	23	14	30	14	23					

Table 3

Outer Ring PO (normal precision for comparison)

Ø mm		Deviatio dimen	on $\Delta_{_{ ext{dmp}}}$ isions	Variations V _{dp} open bearing Diameter series p 68, 69 60		Variations V _{dp} sealed bearing bursuant to DIN 616		Variations V _{dmp}	Concentri- city K _{ia}	Deviation $\Delta_{_{\mathrm{BS}}}$ dimensions	Varia- tions V _{BS}			
Above	То	Upper	Lower	33,33		1ax.	02,00	Max.	Max.					
6	18	0	-8	10	8	6	10	6	15					
18	30	0	-9	12	9	7	12	7	15					
30	50	0	-11	14	11	8	16	8	20					
50	80	0	-13	16	13	10	20	10	25	tolerances to inne				
80	120	0	-15	19	19	11	26	11	35	to iiii	or mig			
120	150	0	-18	23	23	14	30	14	40					
150	180	0	-25	31	31	19	38	19	45					

Table 4

Bearing Clearance Comparison

Dearin	Bearing Cicarance Companison													
	ore	Radial bearing clearance												
m	m	С	0	CN	Л*	С	3							
Above	То	Min.	Max.	Min.	Max.	Min.	Max.							
10	18	3	18	4	11	11	25							
18	24	5	20	5	12	13	28							
24	30	5	20	5	12	13	28							
30	40	6	20	9	17	15	33							
40	50	6	32	9	17	18	36							
50	65	8	28	12	22	23	43							
65	80	10	30	12	22	25	51							

Ra	Radial bearing clearance (bore < 10 mm)										
М	C2	M	C3	MC5							
Min.	Max.	Min.	Max.	Min.	Max.						
3	8	5	10	13	20						

Table 6

* Xspeed standard Table 5



Load Rating and Loads

In addition to practical service life tests on the bearing performance test station, the increase in performance can also be demonstrated by the extended service life calculation pursuant to DIN ISO 281. The nominal service life calculation is unsuitable because it always calculates false and excessively high service life values under extreme conditions. Because of the high rpm, there is also an inevitable rise in the operating temperature of the bearing, which in turn reduces the overall service life. To compensate for this effect, Xspeed models exclusively use special low-friction seals which, when combined with low viscous grease, tremendously boost the service life because of a reduction in self heating. Design engineers can work this out with the following calculation principles. If the rpm is above the normal rpm limit, please contact our Applications Engineering department.

Static Load Rating C_{stat}

The static load rating $C_{\rm stat}$ is a purely radial bearing loading (or purely axial in case of axial bearings), which causes a permanent deformation of 0.01% of the bearing diameter at the mostly stressed point of contact between balls and raceway, while bearings are static.

Dynamic Load Rating C_{dvn}

The dynamic load rating $C_{\rm dyn}$ states the bearing load arising from a nominal service life of one million revolutions pursuant to the ISO definition. It is determined by the fatigue behaviour of the bearing material. The service life of a bearing is defined as the time it takes for fatigue symptoms to appear. It depends on load, operating conditions and the statistical occurrence of damage. If local stress on parts of material impacted by balls continually exceeds acceptable stress, damage will occur, which leads to failure.

Dynamic Equivalent Load P

The dynamic equivalent load P is calculated from the radial load F_r and the axial load F_a of the bearing according to the following expression:

$$P = X * F_r + Y * F_a$$

X and Y are determined pursuant to DIN ISO 281 Supplementary Sheet 2

Service Life Calculation

Nominal service life L₁₀

$$L_{10} = (C_{dyn}/P)^p$$
 (in 10^6 revolutions)
p = bearing exponent (in case of deep groove ball bearings: p = 3)

Nominal service life L

$$L_{10h} = (16.666/n) * (C_{dyn}/P)^p$$
 (in hours h)
n = number of revolutions (RPM)



Use our ABEG® Quickfinder *professional* software solution for carrying out software-supported calculations. This takes variable RPM into consideration, fluctuating loads and temperatures, as well as more than 350 different types of grease and oil. Please contact our distribution staff.



Calculations for the eXtreme Series

Extended service life calculations:

Under ideal operating conditions, calculating the nominal service life is adequate for dimensioning a conventional bearing. However, to take real conditions into consideration with the aim of producing better results, it is necessary to use the extended service life calculation method pursuant to DIN ISO 281 Supplementary Sheet 1. This modifies the nominal service life of a bearing by using additional coefficients.

$$L_{nmh} = a_1 \times a_{ISO} \times L_{10h}$$

 \mathbf{L}_{nmh} = Extended modified service life in hours

a₁ = Factor for failure probability (cf. Table 1)

a_{rso} = Factor for operating conditions (cf. calculation)

L_{10h} = Nominal service life in hours

$$a_{ISO} = f (e_c \times C_u/P, \kappa)$$

e = Contamination coefficient (cf. Table 2)

C_u = Fatigue load limit (cf. bearing type table)

 κ = Viscosity ratio (cf. diagrams 1, 2 and 3)

Failure probability in %	10	5	4	3	2	1
Failure runtime	L ₁₀	L ₅	L ₄	L ₃	L ₂	L ₁
Factor a ₁	1,00	0,62	0,53	0,44	0,33	0,21

Table 7

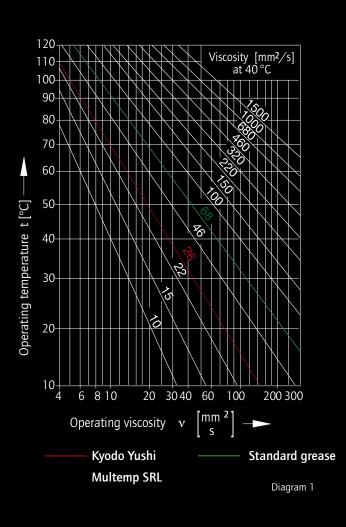
		Coefficient e _c					
Degree of contami	nation	$\rm d_m \leq 100~mm$	$d_{_{m}} \geq 100 \text{ mm}$				
Very clean	Sealed and greased bearings, circulating oil lubrication with ultrafine filtering of returning oil.	0,8 - 0,6	0,9 - 0,8				
Normal cleanliness	Greased bearings with cover discs, oil bath or oil splash lubrication from the oil sump.	0,6 - 0,5	0,8 - 0,6				
Typical contamination	Bearing contaminated with abrasion particles from other machine parts.	0,3 - 0,1	0,4 - 0,2				

d_: average bearing diameter Table 8



Operating Viscosity $\boldsymbol{\nu}$

Reference Viscosity v_1



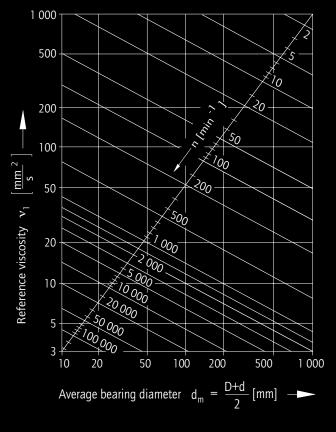


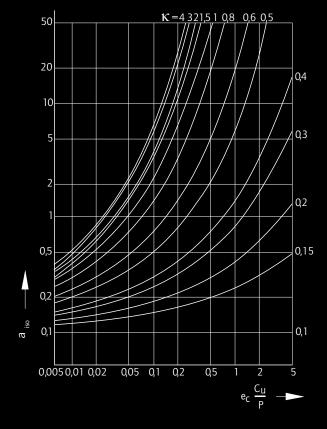
Diagram 2

Grease type	Thickener	Base oil	Viscosity [40 °C in mm/s]	Price
Multemp SRL*	Lithium complex soap	Ester oil	26	+
Klüberquiet BQ 42-32	Lithium soap	Ester oil	25	0
Klüberquiet BQ 72-72	Polyurea	Ester oil	70	0
Klüberspeed BF 72-22	Polyurea	Ester oil, PAO	22	0
Klüberspeed BF 42-12	Lithium complex soap	Ester oil, PAO	24	0

*Standard - less suitable



Service Life Coefficient a_{iso}



Viscosity Ratio $\boldsymbol{\kappa}$

The viscosity ratio κ indicates to what extent adequate lubrication is provided by the selected oil. When $\kappa > 1$, complete lubrication is achieved at the operating temperature, and the oil is suitable for the application and for a product of the Xspeed series. If $\kappa < 1$, the lubricant must be precisely selected for the specific application conditions. In this case, contact our Applications Engineering department.

Viscosity ratio
$$\kappa = \frac{v}{v_1}$$



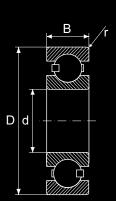
Diagram 3

Temperature range [°C]	Water resistance	Corrosion protection	Pressure resistance	Noise behaviour	RPM
-40 °C to 150 °C	+	++	-	+	++
-50 °C to 150 °C	++	+	0	+++	++
-45 °C to 180 °C	+++	++	+	++	++
-50 °C to 120 °C	+++	++	+	++	+++
-50 °C to 120 °C	+	++	-	0	+++



ABEG® Deep Groove Ball Bearings 60/62/63/68/69

Xspeed series miniature



Desig- nation		Model		Bore diameter	Outside diameter	Wid	dth	Cham- fer	Limit Speed		Mass		Load rating		Limit load
Туре	O ¹⁾	ZZ	2RS	d (mm)	D (mm)	B (mm) open	B (mm) covered	r (mm)	nG _{grease} (min ·1)	nG _{oil} (min ⁻¹)	m (g) open		C _{stat} (N)	C _{dyn} (N)	C _u (N)
603	Χ	Χ	Χ	3	9	3,0	5,0	0,15	56.000	67.000	0,84	1,13	189	571	*
623	Х	Χ	Χ	3	10	4,0	4,0	0,15	50.000	60.000	1,45	1,65	219	631	*
683	Х	Χ	Χ	3	7	2,0	3,0	0,10	63.000	75.000	0,32	0,45	112	311	*
693	Х	Χ	Χ	3	8	3,0	4,0	0,15	60.000	67.000	0,60	0,80	180	558	7
604	Х	Χ	Χ	4	12	4,0	4,0	0,20	48.000	56.000	2,19	2,34	350	957	15
624	Х	Χ	Χ	4	13	5,0	5,0	0,20	40.000	48.000	3,10	3,20	488	1.301	20
634	Х	Χ	Χ	4	16	5,0	5,0	0,30	36.000	43.000	5,24	5,44	523	1.340	*
684	Х	Χ	Χ	4	9	2,5	4,0	0,10	53.000	63.000	0,65	1,00	227	641	*
694	Х	Χ	Χ	4	11	4,0	4,0	0,15	48.000	56.000	1,69	1,75	350	957	11
605	Χ	Χ	Χ	5	14	5,0	5,0	0,20	40.000	50.000	3,46	3,75	507	1.329	21
625	Х	Χ	Χ	5	16	5,0	5,0	0,30	36.000	43.000	4,95	5,10	675	1.729	28
635	Χ	Χ	Χ	5	19	6,0	6,0	0,30	32.000	40.000	8,50	8,89	896	2.336	37
685	Х	Χ	Χ	5	11	3,0	5,0	0,15	45.000	53.000	1,16	1,93	282	716	11
695	Х	Χ	Χ	5	13	4,0	5,0	0,20	43.000	50.000	2,39	2,61	432	1077	18
606	Х	Χ	Χ	6	17	6,0	6,0	0,30	38.000	45.000	5,94	6,89	846	2.263	36
626	Х	Χ	Χ	6	19	6,0	6,0	0,30	32.000	40.000	8,12	8,65	896	2.336	37
686	Х	Χ	Χ	6	13	3,5	5,0	0,15	40.000	50.000	1,87	2,68	442	1082	18
696	Х	Χ	Χ	6	15	5,0	5,0	0,20	40.000	45.000	3,85	4,65	523	1.340	22
607	Х	Χ	Χ	7	19	6,0	6,0	0,30	36.000	43.000	7,80	8,24	896	2.336	38
627	Х	Χ	Χ	7	22	7,0	7,0	0,30	30.000	36.000	12,70	13,10	1.379	3.287	58
687	Х	Χ	Χ	7	14	3,5	5,0	0,15	40.000	50.000	2,03	2,95	513	1.173	21
697	Х	Χ	Χ	7	17	5,0	5,0	0,30	36.000	43.000	5,26	5,41	719	1.605	29
608	Х	Χ	Χ	8	22	7,0	7,0	0,30	34.000	40.000	11,80	12,90	1.379	3.293	58
628	Х	Χ	Χ	8	24	8,0	8,0	0,30	28.000	34.000	17,10	18,50	1.423	3.333	66
688	Χ	Χ	Χ	8	16	4,0	5,0	0,20	36.000	43.000	3,11	4,05	592	1.252	24
698	Χ	Χ	Χ	8	19	6,0	6,0	0,30	36.000	43.000	7,12	7,57	917	2.237	36
609	Χ	Χ	Χ	9	24	7,0	7,0	0,30	32.000	38.000	14,70	16,00	1.444	3.356	60
629	Χ	Χ	Χ	9	26	8,0	8,0	0,60	28.000	34.000	19,00	21,80	1.983	4.563	82
689	Χ	Χ	Χ	9	17	4,0	5,0	0,20	36.000	43.000	3,41	4,38	688	1.327	34
699	Χ	Χ	Χ	9	20	6,0	6,0	0,30	34.000	40.000	8,38	8,54	1.081	2.467	45



ABEG® Deep Groove Ball Bearings 60/62/63/68/69

Xspeed series

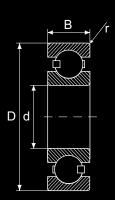
Desig- nation		Model		Bore diameter	Outside diameter	Width	Chamfer	Limit	Limit Speed		Load rating		Limit load
Туре	O ¹⁾	ZZ	2RS	d (mm)	D (mm)	B (mm)	r (mm)	nG _{graese} (min ⁻¹)	nG _{oil} (min ⁻¹)	m (kg)	C _{stat} (N)	C _{dyn} (N)	C _u (N)
6000	Χ	Χ	Χ	10	26	8	0,30	30.000	36.000	0,019	1.960	4.750	82
6200	Χ	Χ	Χ	10	30	9	0,60	25.000	30.000	0,030	2.390	5.400	100
6300	Χ	Χ	Χ	10	35	11	0,60	23.000	27.000	0,054	3.500	8.520	146
6800	Χ	Χ	Χ	10	19	5	0,30	33.000	40.000	0,005	925	1.830	38
6900	Χ	Χ	Χ	10	22	6	0,30	32.000	38.000	0,009	1.270	2.700	53
6001	Χ	Χ	Χ	12	28	8	0,30	29.000	33.000	0,021	2.360	5.400	100
6201	Χ	Χ	Χ	12	32	10	0,60	23.000	28.000	0,036	3.100	7.280	127
6301	Χ	Χ	Χ	12	37	12	1,00	21.000	25.000	0,060	4.200	10.100	176
6801	Χ	Χ	Χ	12	21	5	0,30	32.000	38.000	0,006	1.040	1.920	43
6901	Χ	Χ	Х	12	24	6	0,30	31.000	36.000	0,011	1.460	2.890	61
6002	Χ	Χ	Χ	15	32	9	0,30	25.000	29.000	0,030	2.850	5.850	119
6202	Χ	Χ	Х	15	35	11	0,60	20.000	25.000	0,046	3.750	8.060	150
6302	Χ	Χ	Х	15	42	13	1,00	19.000	22.000	0,082	5.450	11.900	228
6802	Χ	Χ	Х	15	24	5	0,30	28.000	32.000	0,007	1.260	2.080	52
6902	Χ	Χ	Х	15	28	7	0,30	27.000	31.000	0,016	2.240	4.360	86
6003	Χ	Χ	Χ	17	35	10	0,30	23.000	26.000	0,039	3.350	6.800	140
6203	Χ	Χ	Χ	17	40	12	0,60	18.000	22.000	0,065	4.750	9.950	192
6303	Χ	Χ	Χ	17	47	14	1,00	16.000	19.000	0,113	6.550	14.300	274
6803	Χ	Χ	Х	17	26	5	0,30	25.000	30.000	0,008	1.720	2.810	72
6903	Χ	Χ	Х	17	30	7	0,30	25.000	29.000	0,018	2.580	4.650	108





ABEG® Deep Groove Ball Bearings 60/62/63/68/69

Xspeed series



Desig- nation	Model			Bore diameter	Outside diameter	Width	Chamfer	Limit Speed		Mass	Load rating		Limit load
Туре	O ¹⁾	ZZ	2RS	d (mm)	D (mm)	B (mm)	r (mm)	nG _{grease} (min ⁻¹)	nG _{oil} (min ⁻¹)	m (kg)	C _{stat} (N)	C _{dyn} (N)	C _u (N)
6004	Χ	Χ	Χ	20	42	12	0,60	18.000	21.000	0,069	5.050	9.950	211
6204	Χ	Χ	Χ	20	47	14	1,00	16.000	18.000	0,107	6.650	13.500	278
6304	Χ	Χ	Χ	20	52	15	1,10	14.000	17.500	0,142	7.900	16.800	331
6804	Χ	Χ	Χ	20	32	7	0,30	23.000	28.000	0,015	2.470	4.030	103
6904	Χ	Χ	Χ	20	37	9	0,30	20.000	24.000	0,036	3.700	6.400	155
6005	Χ	Χ	Χ	25	47	12	0,60	16.000	19.000	0,080	6.550	11.900	245
6205	Χ	Χ	Χ	25	52	15	1,00	13.000	16.000	0,125	7.850	14.800	328
6305	Χ	Χ	Χ	25	62	17	1,10	12.000	14.000	0,226	11.600	23.400	456
6805	Χ	Χ	Χ	25	37	7	0,30	18.000	23.000	0,020	2.950	4.360	123
6905	Χ	Χ	Χ	25	42	9	0,30	17.000	21.000	0,042	4.550	7.050	190
6006	Χ	Χ	Χ	30	55	13	1,00	13.000	15.000	0,114	8.300	13.800	347
6206	Χ	Χ	Χ	30	62	16	1,00	12.000	14.000	0,200	11.300	20.300	473
6306	Χ	Χ	Χ	30	72	19	1,10	10.000	12.000	0,350	16.000	29.600	628
6806	Χ	Χ	Χ	30	42	7	0,30	16.000	19.000	0,025	3.650	4.700	152
6906	Χ	Χ	Χ	30	47	9	0,30	16.000	19.000	0,048	5.000	7.280	209
6007	Χ	Χ	Χ	35	62	14	1,00	12.000	14.000	0,150	10.300	16.800	431
6207	Χ	Χ	Χ	35	72	17	1,10	10.000	12.000	0,290	15.300	27.000	641
6307	Χ	Χ	Χ	35	80	21	1,50	8.800	10.000	0,460	19.100	35.100	800
6807	Χ	Χ	Χ	35	47	7	0,30	13.000	17.000	0,029	4.050	4.900	169
6907	Χ	Χ	Χ	35	55	10	0,30	13.000	17.000	0,074	7.450	11.200	312
6008	Χ	Χ	Χ	40	68	15	1,00	10.000	12.000	0,190	11.600	17.800	481
6208	Χ	Χ	Χ	40	80	18	1,10	8.800	10.000	0,370	19.000	32.500	754
6308	Χ	Χ	Χ	40	90	23	1,50	7.800	9.200	0,650	24.000	42.300	1.005
6808	Χ	Χ	Χ	40	52	7	0,30	12.000	15.000	0,033	4.400	5.100	184
6908	Χ	Χ	Χ	40	62	12	0,30	11.000	13.000	0,110	10.200	14.600	427
6009	Χ	Χ	Χ	45	75	16	1,00	9.200	11.000	0,240	15.100	22.100	632
6209	Χ	Χ	Х	45	85	19	1,10	7.800	9.200	0,420	21.600	35.100	854
6309	Χ	Χ	Х	45	100	25	1,50	7.000	8.200	0,840	32.000	55.300	1.340



Desig- nation	Model			Bore diameter	Outside diameter	Width	Chamfer	Limit Speed		Mass	Load rating		Limit load
Туре	O ¹⁾	ZZ	2RS	d (mm)	D (mm)	B (mm)	r (mm)	nG _{grease} (min ⁻¹)	nG _{oil} (min ⁻¹)	m (kg)	C _{stat} (N)	C _{dyn} (N)	C _u (N)
6010	Χ	Χ	Х	50	80	16	1,00	8.400	9.800	0,260	16.600	22.900	695
6210	Χ	Χ	Χ	50	90	20	1,10	7.100	8.300	0,470	23.200	37.100	971
6310	Χ	Χ	Χ	50	110	27	2,00	6.400	7.500	1,090	38.500	65.000	1612
6011	Χ	Χ	Χ	55	90	18	1,10	7.700	9.000	0,370	21.200	29.600	888
6211	Χ	Χ	Χ	55	100	21	1,50	6.400	7.600	0,610	29.200	46.200	1.223
6311	Χ	Χ	Χ	55	120	29	2,00	5.800	6.800	1,350	45.000	74.100	1885
6012	Χ	Χ	Χ	60	95	18	1,10	7.100	8.300	0,390	23.200	30.700	971
6212	Χ	Χ	Χ	60	110	22	1,50	6.000	7.300	0,800	36.000	55.300	1.508
6312	Χ	Χ	Χ	60	130	31	2,10	5.400	6.300	1,700	52.000	85.200	2.178
6013	Χ	Χ	Χ	65	100	18	1,10	6.700	8.000	0,440	25.000	31.900	1.047
6213	Χ	Χ	Χ	65	120	23	1,50	5.500	7.000	0,990	40.500	58.500	1.696
6313	Χ	Χ	Χ	65	140	33	2,10	5.000	6.000	2,100	60.000	97.500	2.513
6014	Χ	Χ	Χ	70	110	20	1,10	6.300	7.100	0,600	31.000	39.700	1.298
6214	Χ	Χ	Χ	70	125	24	1,50	5.100	6.100	1,100	45.000	63.700	1.885
6314	Χ	Χ	Χ	70	150	35	2,10	4.500	5.300	2,500	68.000	111.000	2.848
6015	Χ	Χ	Χ	75	115	20	1,10	5.800	7.000	0,640	33.500	41.600	1.403
6215	Χ	Χ	Χ	75	130	25	1,50	4.800	5.600	1,200	49.000	68.900	2.052
6315	Χ	Χ	Χ	75	160	37	2,10	4.300	5.000	3,000	76.500	119.000	3.204
6016	Χ	Χ	Χ	80	125	22	1,10	5.500	6.500	0,850	40.000	49.400	1.675
6216	Χ	Χ	Χ	80	140	26	2,00	4.500	5.300	1,400	55.000	72.800	2.220
6316	Χ	Χ	Χ	80	170	39	2,10	4.000	4.800	3,600	86.500	130.000	3.623

¹⁾ O = This model is open and therefore ungreased (only preserved)

Please inquire directly about bearings with a

bore diameter of 55 mm and above because
these are not held in stock









HIGH PERFORMANCE AS STANDARD

Extreme Situations Demand Extreme Measures: ABEG® eXtreme.

With the ABEG® eXtreme series, the market now has especially long-lasting high performance bearings for very specific operating conditions. This was achieved by optimising tried-and-tested ABEG® bearing technology and equipping the series with a special combination of greasing and sealing elements.

To create alternatives to costly standard premium products or customised solutions with long delivery times, the development process also specifically focused on achieving the best possible acquisition and delivery conditions. The ABEG® eXtreme product line therefore provides ideal solutions which had never been available in the past: bearings that are not only efficient with long service lives, but also economical and available at short notice.

Other Products of the ABEG® eXtreme Series:



higher service lives with high loads and low RPM



higher service lives under extreme heat or cold conditions



special models for clean room applications and wash-down applications

Technical modifications and errors excepted 11 / 201

Whenever the Going Gets Very Tough: The ABEG® eXtreme Series.



