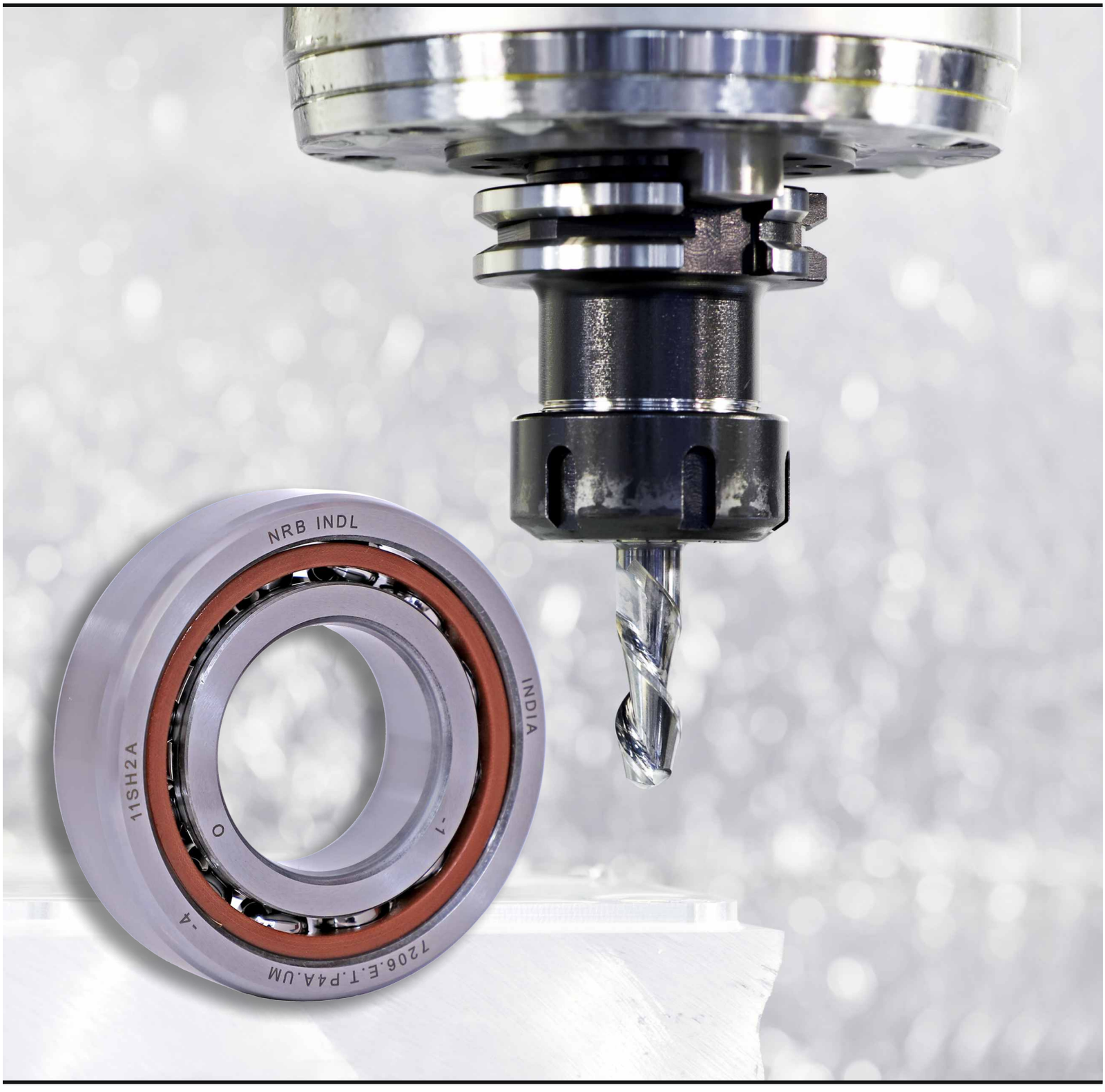
NRB INDUSTRIAL

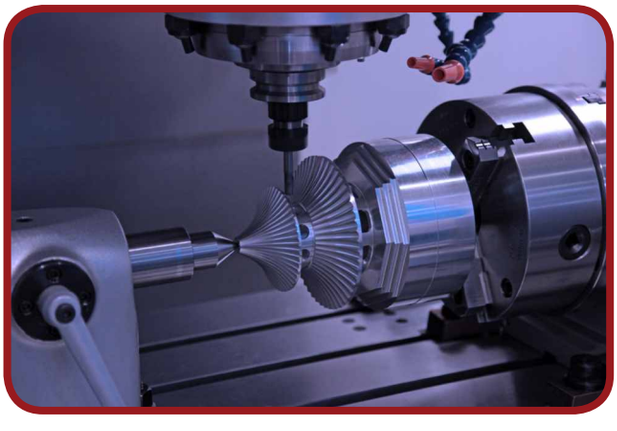
SUPER PRECISION SPINDLE BEARINGS

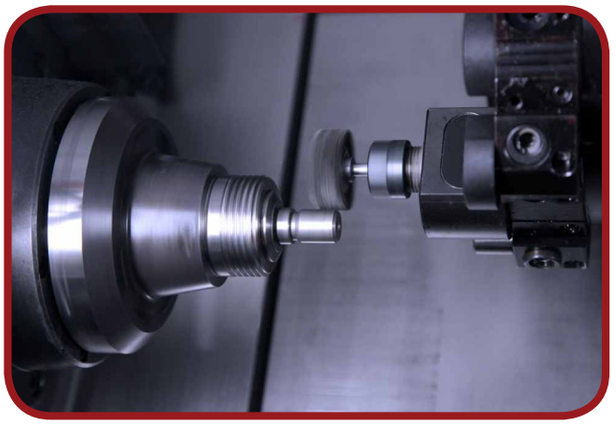


NIBL SUPER PRECISION SPINDLE BEARINGS

- Manufactured with high quality vacuum degassed bearing steel
- Manufactured with running accuracy corresponding to ABEC 9
- Interchangeable with major manufacturers FAG,NSK, SKF, Nachi, etc
- Bore & diameters are micron coded
- Phenolic resin and polyamide cages for Spindle Bearings
- Available in dimensional series 70,72,719
- Available with steel and ceramic balls.

FOR APPLICATIONS THAT REQUIRE THE HIGHEST PRECISION





WHY NIBL

NRB Industrial Bearings Limited (NIBL) is the first and only manufacturer of precision bearings in India. NIBL's roller bearings enhance the performance of high-speed spindles, ball screws, rotary tables and other demanding machine Tool applications that require the utmost precision. Our Super Precision Bearings are used in wide spectrum of Machine Tool applications like CNC machines, drill press, grinding machines, hobbing machines, honing machines, CNC lathes, screw machines, milling machines, shear, gear shaper, saws, broaching machines etc.

NIBL Super Precision Angular Contact Ball Bearings are designed for all bearing applications with great requirements on reliability, stiffness, speed capability and running accuracy.

Our product range allows machine tool manufacturers across different sectors of industry as well as special-purpose machine designers to optimize their spindles by focusing on the aspects that are most important to them.

NIBL's range of super precision bearings contain many different variations of single-row Super precision angular contact ball bearings 70,72,719 series ,with contact angle of 15° or 25° as standard. Customization, to suit a particular application, for contact angle, bearings with grease, seals, special pre-load or ceramic balls is also possible.

NIBL has tailored the internal design of its super precision angular contact ball bearings according to the requirements of the machine tool industry.

NIBL demonstrates its specialized engineering expertise through their respective state-of-the-art manufacturing and R&D Centres based in Shendra, Aurangabad, India. Our In-house NIBL R&D Centre is registered with Department of Scientific & Industrial Research, Government of India.

We are committed to develop customized solutions that help our customers increase uptime, efficiency and reliability for their equipment, keeping the operational cost low. With a dedicated sales force, a wide distribution network and industry engineering support, we offer customers the advantages in an increasingly competitive market scenario.

The NIBL Advantage

- Dimensional accuracy of P4A and running accuracy class of P2A
- Can be used in spindle design without any modifications
- Predictable performance by optimizing bearing & shaft fits.
- Improved stiffness & running accuracy resulting in better machining output.
- Can handle a wide range of machining applications.
- Faster delivery time due to indigenous manufacturing.
- In-house Application & Service support.

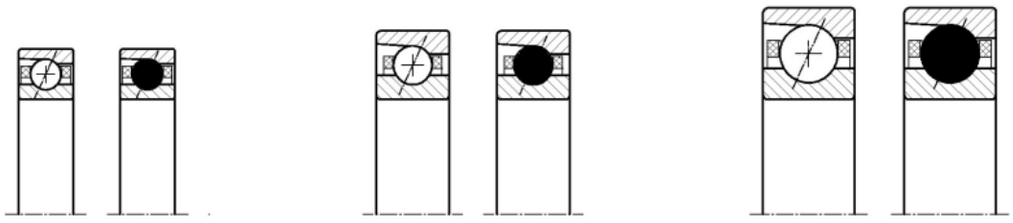
NIBL Designation Descriptive Organization	P5	P4	P4A	P2A
DIN (German Standard Institute)	P5	P4	P4S	P2
AFBMZA STD 20 (Anti-friction Bearing Manufacturer's Association)	ABEC5	ABEC7		ABEC9
ISO 482 (International Standards Organization)	Class 5	Class 4		Class 2
B8292 (British Standard Organization)	EP5	EP7		EP9

DESIGNATION SYSTEM

719..
CB 719..

70..
CB 70..

72..
CB 72..



CB	719	14	.E	.T	.P4A	X2	.UL
	70	10	.C	.P	.P4		.UM
	70	14	.E	.T	.P4A		.QBTM
	70	16	.C	.T	.P4		.DBL
	70	12	.E	.PX	.P4		.UX
	72	13	.E	.T	.P4A		.UF

Material

-	100 CR6 rolling elements & rings
CB	Si_3N_4 rolling elements

Dimensional Series

719...
70...
72...

Bore Code

00	10mm	01	15mm
02	12mm	03	17mm

from the bore code 04:4x5=20mm

Contact Angle

C	15° Contact Angle
E	25° Contact Angle

Cage

Pocket cages, guided on outer ring

T	Fabric reinforced phenolic resin
PX	Polyamide fibre glass reinforced

Accuracy

P4	High Accuracy
P4A	Higher Accuracy

Preload universally faced bearing

UX	extra light
UL	light
UM	medium
UF	medium high

Angular Contact Ball Bearing Sets

-	Single Bearing
D	Duplex set
T	Triplex set
Q	Quadruplex set
P	Pentaplex set

Sorting, restricted tolerances

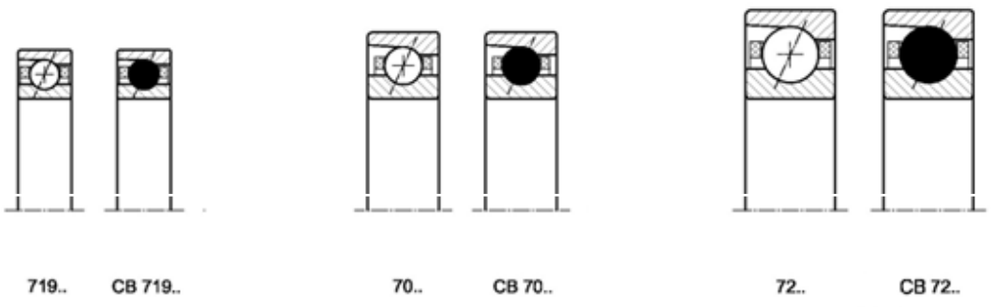
-	No sorting
X1,X3	Sorting of restricted tolerances
X5	for tolerance zone ≤ 5µm
X6,X8	
X1	Sorting of restricted tolerances
to	for tolerance zone ≤ 5µm
X9	

PRODUCT RANGE

719..
CB 719..

70..
CB 70..

72..
CB 72..



Production Series									
d	719...			70...			72...		
		D	B		D	B		D	B
mm		mm			mm			mm	
15							7202	35	11
17				7003	35	10	7203	40	12
20	71904	37	9	7004	42	12	7204	47	14
25	71905	42	9	7005	47	12	7205	52	15
30	71906	47	9	7006	55	13	7206	62	16
35	71907	55	10	7007	62	14	7207	72	17
40	71908	62	12	7008	68	15	7208	80	18
45	71909	68	12	7009	75	16	7209	85	19
50	71910	72	12	7010	80	16	7210	90	20
55	71911	80	13	7011	90	18	7211	100	21
60	71912	85	13	7012	95	18	7212	110	22
65	71913	90	13	7013	100	18	7213	120	23
70	71914	100	16	7014	110	20	7214	125	24
75	71915	105	16	7015	115	20	7215	130	25
80	71916	110	16	7016	125	22	7216	140	26
85	71917	120	18	7017	130	22			
90	71918	125	18	7018	140	24			
95	71919	130	18						
100	71920	140	20						

NRB INDUSTRIAL

BALL SCREW SUPPORT BEARINGS

NIBL BALL SCREW SUPPORT BEARINGS

- High Axial Rigidity : Greater number of balls with polyamide cage provides increased rigidity
- Compact Design : 60° contact angle allows the bearing to carry thrust load & some amount of radial load. This allows to have a compact design.
- Low Noise: The high quality of surface roughness achieved on the races combined with polyamide cage enables these bearings to have low noise.
- Ease of Assembly: Initial pre-loading of bearing provides ease of assembly without any adjustment
- Pre-packed grease: The bearings are packed with a measured quantity of grease so that the bearings can be installed out of the box
- Interchangeability: The bearings are easily interchangeable with any reputed manufacturers without any modifications in design.
- Universal Ground Set: The bearings are available in universal ground set so that they can be mounted in any combination

FOR HIGH PRECISION BALL SCREWS

WHY NIBL

NRB Industrial Bearings Limited (NIBL) is the first and only manufacturer of precision bearings in India. NIBL's roller bearings enhance the performance of high-speed spindles, ball screws, rotary tables and other demanding machine Tool applications that require the utmost precision. Our Super Precision Bearings are used in wide spectrum of Machine Tool applications like CNC machines, drill press, grinding machines, hobbing machines, honing machines, CNC lathes, screw machines, milling machines, shear, gear shaper, saws, broaching machines etc.

NIBL Super precision 60° - angular contact thrust ball bearings are developed to meet the requirements of high thrust load for ball screw support applications. The large contact angle of 60° allows high thrust loads with great stiffness.

NIBL Super precision 60° - angular contact thrust ball bearings are manufactured for universal matching - they can be rearranged and mounted in any arrangement. Our ball screw support bearings have a medium or high preload and a V-marking.

The bore and outer diameter are manufactured to precision class P4A. The axial run out is restricted to P2. These bearings have a ball guided polyamide cage which can sustain a temperature of -30° to 120°C. NIBL's ball screw support bearings are supplied with pre-packed grease GH62 for ready-to-use condition.

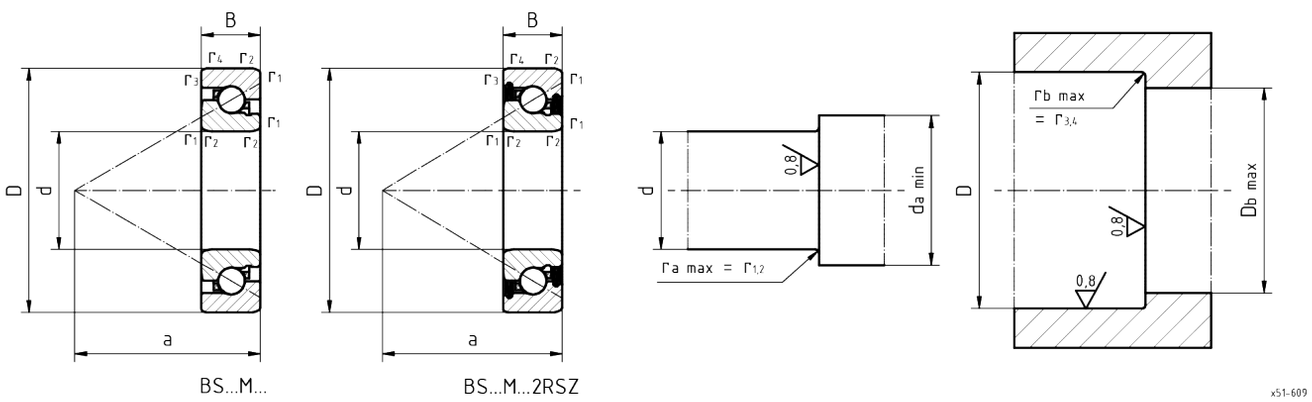
NIBL demonstrates its specialized engineering expertise through their respective state-of-the-art manufacturing and R&D Centres based in Shendra, Aurangabad, India. Our In-house NIBL R&D Centre is registered with Department of Scientific & Industrial Research, Government of India.

We are committed to develop customized solutions that help our customers increase uptime, efficiency and reliability for their equipment, keeping the operational cost low. With a dedicated sales force, a wide distribution network and industry engineering support, we offer customers the advantages in an increasingly competitive market scenario.

The NIBL Advantage

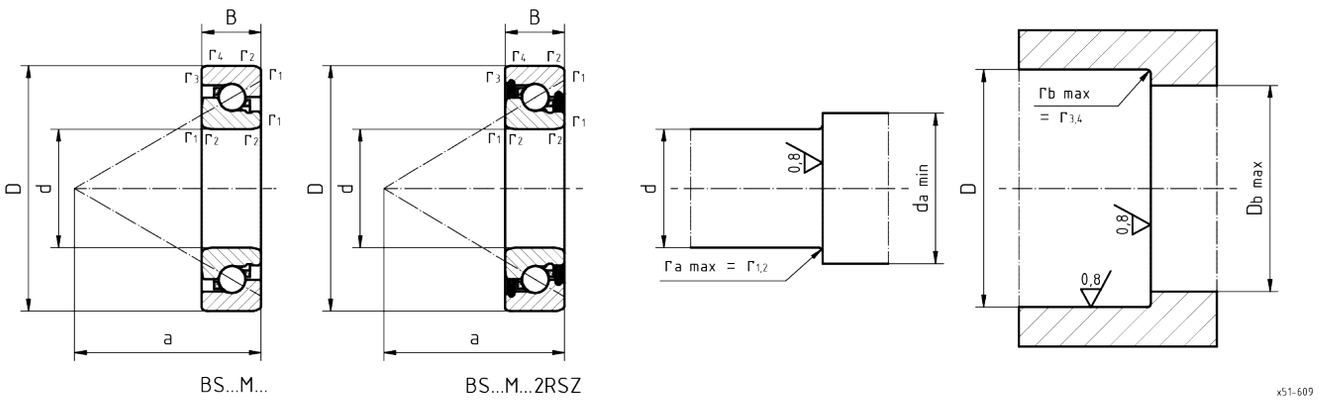
- Dimensional accuracy of P4A and running accuracy class of P2A
- Can be used in Existing housing without any modifications
- Interchangeable with major manufacturers FAG,NSK, SKF, Nachi, etc
- Bore & diameters are micron coded
- Polyamide cages for Ball Screw Bearings
- Universally Ground Bearings.

DIMENSIONAL TABLE



Basic Dimensions			Basic Designation	Load Ratings			Weight	Mounting dimensions					
				dyn.	stat	fatigue limit							
d	D	B		C_o	C_{oa}	C_μ	m	a	r_{12min}	r_{34min}	d_{amin}	d_{amax}	d_{bmax}
	mm						kg						
17	47	15	BS17M47	23,400	33,800	1,250	0.13	36.5	0.6	0.6	26	38	40
20	47	15	BS20M47	23,400	33,800	1,250	0.15	36.5	0.6	0.6	28	38	40
25	52	15	BS 25M52	24,900	39,400	1,460	0.22	39	1	0.6	34	44	45
25	62	15	BS25M62	28,200	49,800	1,840	0.27	46.5	1	0.6	34	52	54
30	62	15	BS30M62	28,200	49,800	1,840	0.25	46	1	0.6	38	52	54
30	72	15	BS30M72	30,600	62,100	2,300	0.32	56	1	0.6	39	63	64
35	72	15	BS35M72	30,600	62,100	2,300	0.29	56	1	0.6	43	63	64
35	100	20	BS35M100	63,100	1,33,000	4,930	1.05	75	1	0.6	47	86	89
40	72	15	BS40M72	30,600	62,100	2,300	0.28	56	1	0.6	48	63	64
40	90	20	BS40M90	54,000	1,13,800	4,210	0.64	71.5	1	0.6	49	80	82
40	100	20	BS40M100	63,100	1,33,000	4,930	1.00	75	1	0.6		86	89
45	75	15	BS45M75	44,300	85,700	3,170	0.29	60	1	0.6	53	65	67
45	100	20	BS45M100	63,100	1,33,000	4,930	0.95	75	1	0.6	54	86	89
50	90	20	BS50M90	54,000	1,13,800	4,210	0.60	71.5	1	0.6	59	80	82
50	100	20	BS50M100	64,300	1,40,000	5,190	0.89	75	1	0.6		86	89
55	90	15	BS55M90	47,900	1,05,600	3,910	0.42	73	1	0.6	64	78	81
55	100	20	BS55M100	64,300	1,40,000	5,190	0.71	75	1	0.6	65	86	89
55	120	20	BS55M120	86,200	1,89,500	7,020	1.43	88	1	0.6		106	108
60	120	20	BS60M120	89,300	1,91,400	7,090	1.36	88	1	0.6	70	100	108
75	110	15	BS75M110	52,000	1,34,400	4,980	0.48	89	1	0.6	85	98	100

DIMENSIONAL TABLE



Basic Dimensions			Basic Designation	Preload F_V			Axial Stiffness S_{ax}			Speed with grease n_F			Drag Torque M_r		
d	D	B		L	M	H	L	M	H	L	M	H	L	M	H
mm				N			N/µm			N/µm			N/µm		
17	47	15	BS17M47	450	1,010	2,020	430	570	730	16,250	13,000	6,500	0.03	0.05	0.09
20	47	15	BS20M47	450	1,010	2,020	430	570	730	16,250	13,000	6,500	0.03	0.05	0.09
25	52	15	BS 25M52	520	1,070	2,340	480	640	810	14,000	11,200	5,600	0.03	0.06	0.11
25	62	15	BS25M62	660	1,490	2,980	580	760	970	11,750	9,400	4,700	0.05	0.08	0.15
30	62	15	BS30M62	660	1,490	2,980	580	760	970	11,750	9,400	4,700	0.05	0.08	0.15
30	72	15	BS30M72	820	1,850	3,700	710	940	1,200	9,750	7,800	3,900	0.06	0.10	0.19
35	72	15	BS35M72	820	1,850	3,700	710	940	1,200	9,750	7,800	3,900	0.06	0.10	0.19
35	100	20	BS35M100	1,760	3,960	7,920	1,000	1,350	1,700	7,500	6,000	3,000	0.19	0.31	0.62
40	72	15	BS40M72	820	1,850	3,700	710	940	1,200	9,750	7,800	3,900	0.06	0.10	0.19
40	90	20	BS40M90	1,500	3,380	6,760	950	1,250	1,580	8,000	6,400	3,200	0.15	0.25	0.49
40	100	20	BS40M100	1,760	3,960	7,920	1,000	1,350	1,700	7,500	6,000	3,000	0.11	0.31	0.62
45	75	15	BS45M75	1,130	2,540	5,080	780	1,030	1,300	9,250	7,400	3,700	0.19	0.25	0.34
45	100	20	BS45M100	1.760	3,960	7,920	1,000	1,350	1,700	7,500	6,000	3,000	0.06	0.31	0.62
50	90	20	BS50M90	1,500	3,380	6,760	950	1,250	1,580	8,000	6,400	3,200	0.15	0.25	0.49
50	100	20	BS50M100	1,850	4,160	8,320	1,080	1,420	1,800	7,500	6,000	3,000	0.10	0.17	0.33
55	90	15	BS55M90	1,390	3,130	6,260	920	1,220	1,540	8,000	6,400	3,200	0.14	0.22	0.44
55	100	20	BS55M100	1,850	4,160	8,320	1,080	1,420	1,800	7,500	6,000	3,000	0.10	0.17	0.33
55	120	20	BS55M120	2,500	5,630	11,260	1,220	1,610	2,050	6,000	4,800	2,400	0.33	0.53	1.05
60	120	20	BS60M120	2,530	5,690	11,380	1,200	1,580	2,000	6,000	4,800	2,400	0.34	0.55	1.10
75	110	15	BS75M110	1,770	3,980	7,960	1,200	1,590	2,020	5,750	4,600	2,300	0.17	0.27	0.54

DESIGNATION SYSTEM

BS	75 M	110	2RSZ	.P4A	.D	.M	.OX
BS	30 M	62		.P4A	.U	.M	
BS	50 M	100		.P4A.	.Q	.M	
BS	25 M	62		P4A	.D	.M	.GH2G

Basic Series Design

BS	60° angular contact ball bearings

Bore Code

25M	Metric Bore 25 mm

Outer diameter

only for metric bearings

Seals

-	open bearing
2RSZ	light friction seals, both sides
2RZ	non touching seal

Accuracy

P4A	According to DN 628-6

Lubrication

-	50% / GH62 (standard) GN21G 30-35% / GN21
OX	only corrosion protected

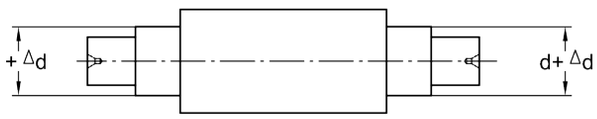
Preload

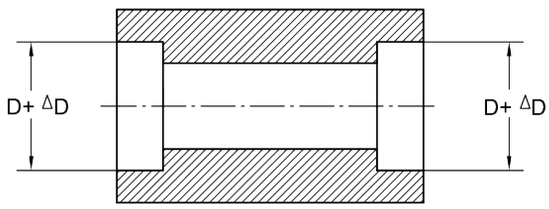
L	Light preload
M	Medium preload
H	High preload

Angular contact ball bearing sets

U...	universal single
D...	duplex set
T...	triplex set
Q...	quadruplex set
P...	pentaplex set

TOLERANCES

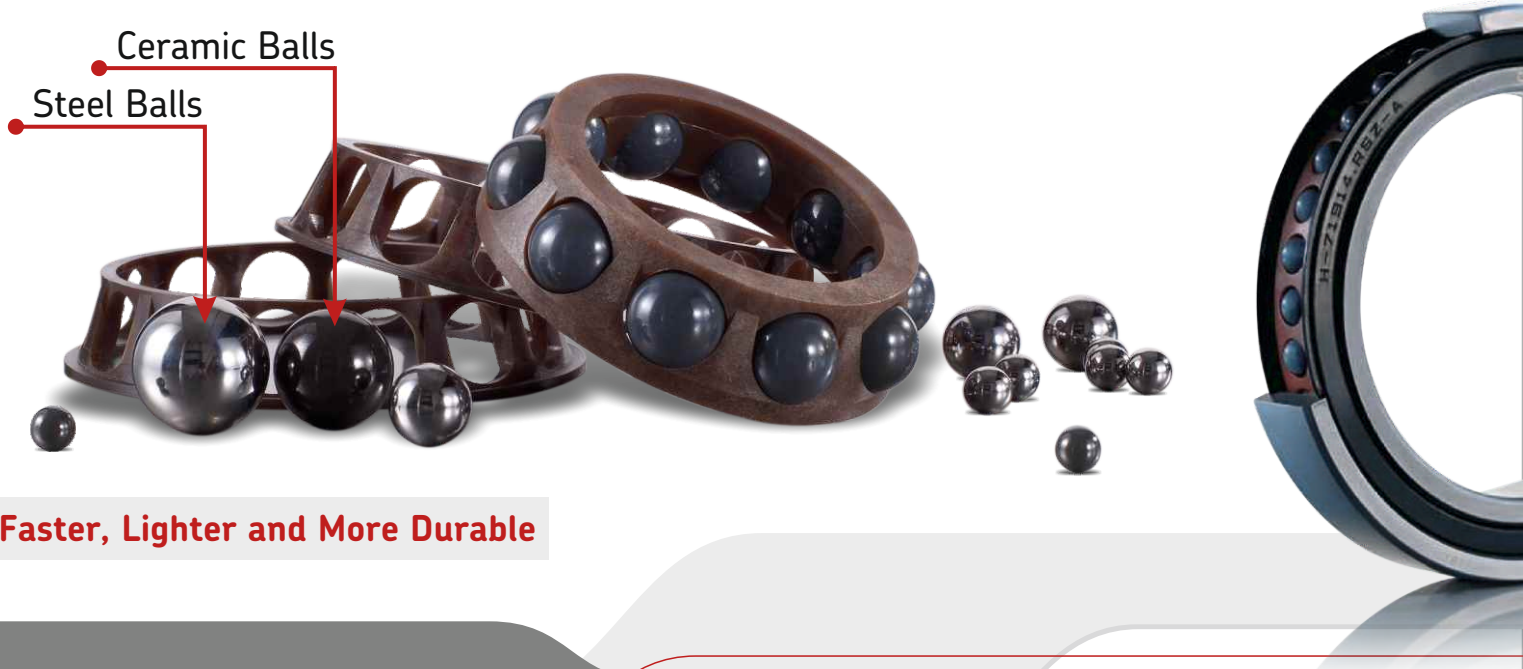




Nominal Shaft Diameter d in mm	Tolerance Class	From incl	- 10	10 18	18 30	30 50	50 80	80 120	120 180
Shaft tolerance Δd_1 fixed bearing	P4A	max min	-3 -7	-3 -7	-3 -7	-4 -8	-4 -9	-5 -10	-6 -12

Nominal Shaft Diameter d in mm	Tolerance Class	From incl	18 30	30 50	50 80	80 120	120 150	150 180	180 250
Housing tolerance ΔD_G in mm	P4A	max min	+5 0	+5 0	+5 0	+5 -1	+7 -1	+7 -2	+7 -2

Hybrid Ceramic Ball Bearings



Faster, Lighter and More Durable

Ceramic Bearings

There has been a surge in the demand for Hybrid Ceramic Bearing to meet the grueling demands from various high speed machine applications. Machinery speeds increase as production demands maximum efficiency and reliability with the highest output quality. As a result, loads and operational environments become more demanding. NIBL's Hybrid Ceramic Bearings using Silicon Nitride Balls (Si3N4) meet and exceed today's requirements, offering a long list of characteristics far superior to that of conventional all-steel bearings.

With a combination of traditional 52100 Steel Rings and Ceramic Silicon Nitride Balls (Si3N4), NIBL's Hybrid Ceramic Ball Bearings not only increases the speed of the bearings but also provides a longer service life. Many of the issues associated with metal to metal contact between the races and the balls are reduced or completely eliminated as the bearing components are produced from dissimilar materials.

The stiffness of hybrid bearings is significantly higher at identical preload as compared to steel ball bearings, because of the harder ceramic rolling elements.

The Ceramic material has unique combination of extreme hardness, high mechanical strength, resistance to corrosion and abrasion, low thermal and electric conductivity and a low specific weight make silicon nitride (Ceramic) the ideal material for use in rolling bearings. In addition, silicon nitride has a lower adhesion compared to steel and therefore puts less strain on the lubricant.

Product Range and Technical Data

Basic dimensions			Basic designation	Load ratings		Fatique limit load	Speed	
				dyn.	stat.		grease	oil/air
d	D	B		C	C_0	C_u (radial)	n_G	n_O
mm				N		N	min^{-1}	
20	37	9	CB 71904 C T P4A UL	7,200	3,000	111	53,300	81,300
20	42	12	CB 7004 C T P4A UL	10,600	4,300	159	47,500	70,200
25	42	9	CB 71905 C T P4A UL	8,000	3,900	144	46,800	68,900
25	47	12	CB 7005 C T P4A UL	15,000	6,500	241	40,300	59,800
30	47	9	CB 71906 C T P4A UL	8,500	4,400	163	40,300	61,100
30	55	13	CB 7006 C T P4A UL	15,000	7,200	267	34,200	52,700
35	55	10	CB 71907 C T P4A UL	12,500	7,000	259	33,800	51,400
35	62	14	CB 7007 C T P4A UL	18,800	9,400	348	29,400	48,400
40	62	12	CB 71908 C T P4A UL	15,800	8,400	311	29,900	45,500
40	68	15	CB 7008 C T P4A UL	20,500	11,200	415	26,400	45,500
45	68	12	CB 71909 C T P4A UL	16,200	9,400	348	27,000	41,000
45	75	15	CB 7009 C T P4A UL	27600	15000	556	22100	36400
50	72	12	CB 71910 C T P4A UL	17,000	10,500	389	24,700	37,700
50	80	16	CB 7010 C T P4A UL	28,700	16,100	596	21,900	35,900
55	80	13	CB 71911 C T P4A UL	19,300	12,600	467	22,800	34,200
55	90	18	CB 7011 C T P4A UL	37,800	21,700	804	19,800	32,500

*Also Available in Sealed Version (2RSZ – Sealed on Both Sides.)

**Available with Contact Angle 15° / 25° (C=15° / E=25°)

Product Range and Technical Data

Basic dimensions			Basic designation	Load ratings		Fatique limit load	Speed	
				dyn.	stat.		grease	oil/air
d	D	B		C	C_0	C_u (radial)	n_G	n_O
mm				N		N	min^{-1}	
60	85	13	CB 71912 C T P4A UL	19,500	13,100	485	20,800	31,900
60	95	18	CB 7012 C T P4A UL	39,000	23,500	870	18,200	29,900
65	90	13	CB 71913 C T P4A UL	20,500	14,500	537	19,500	29,900
65	100	18	CB 7013 C T P4A UL	40,300	25,000	926	16,900	26,000
70	100	16	CB 71914 C T P4A UL	28,500	19,600	726	18,000	27,300
70	110	20	CB 7014 C T P4A UL	50,500	30,400	1,126	16,300	25,800
75	105	16	CB 71915 C T P4A UL	29,000	20,600	763	16,900	25,800
75	115	20	CB 7015 C T P4A UL	51,000	32,500	1,204	16,300	24,700
80	110	16	CB 71916 C T P4A UL	29,500	21,700	804	16,300	24,500
80	125	22	CB 7016 C T P4A UL	62,500	40,600	1,504	14,700	23,400
85	120	18	CB 71917 C T P4A UL	39,500	28,700	1,063	15,400	22,800
85	130	22	CB 7017 C T P4A UL	62,000	42,000	1,556	14,300	21,900
90	125	18	CB 71918 C T P4A UL	42,000	32,500	1,204	14,300	21,500
90	140	24	CB 7018 C T P4A UL	76,300	50,200	1,859	12,500	21,500

*Also Available in Sealed Version (2RSZ – Sealed on Both Sides.)

**Available with Contact Angle 15° / 25° (C=15° / E=25°)

Details of Ceramic Material:

- Hardness : 1600 HV
- Density : 3.24 g/cm3
- Thermal conductivity : 25 W/(m K)
- Electric Resistance Coefficient : 1013 cm
- Coefficient of Thermal Expansion : 3.4 · 10-6/K
- Young's Modulus : 300000 N/mm2
- Elastic Limit : 1050 N/mm2
- Poisson's Ratio : 0.27

Benefits:

- Extended service life by 4-8 times than the normal bearing
- Have the ability to run at 40-60% higher speeds
- Extend grease life by 2 times or more
- Reduced wear
- Low friction
- High resistance to contamination and corrosion
- Less maintenance - reduces costs
- Improved production efficiency

APPLICATION:

- High Speed Vmc
- Grinding Spindles
- High Speed Router & Wood Woking Spindles
- High Speed Driven Tools

NRB INDUSTRIAL BEARINGS LTD.

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INTRODUCING
HIGH SPEED SEALED
ANGULAR CONTACT BALL BEARING

Machine tools are subjected to harsh working environments, spindle being the heart of the machine tool it is important to protect the spindle bearings against ingress of coolant, chips and muck to prevent premature failure of bearings .

To solve the above problems and to add extra protection, NRB Industrial Bearings (NIBL) has introduced a non-contact sealed angular contact ball bearings with grease lubricated for life. The non-contact seal (2RSZ) on both sides of ACBB ensures that the bearing is in the best possible condition, free of contamination, before and during operation to provide high level machining performance. This sealed type of ACBB eliminates the operation to inject grease into the bearing during application assembly, and also the seal ring of seal bearing prevents the grease from splashing to the outside of the bearing. The bearing is just ready for immediate installation and operation, subject to normal grease running-in procedure. The optimally filled grease is of a high performance standard, covering wide range of operating temperatures. The permitted operating temperature of these seals, which are made of oil-resistant and wear-resistant acrylonitrile butadiene rubber (NBR) and are supported by a reinforced steel plate to provide rigidity, lies between -40° and 120°C.

NIBL seal bearing has the advantages of high speed, low heat generation, extended service life, reduced maintenance and environmental cleanliness.

The application of High-Speed Sealed Angular Contact Ball Bearings for Machine Tool :

1. High speed metal cutting spindle (machining center, high-speed milling machine)
2. CNC lathe
4. High speed wood-working machines spindle
5. Grinding Machines.

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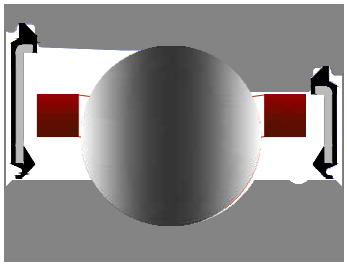

Product range and technical data

Basic dimensions			Basic designation	Load ratings dyn.	stat.	Fatigue limit load	Speed grease	oil/air
d	D	B		C	C_0	C_u (radial)	n_G	n_O
mm				N		N	min^{-1}	
17	35	10	7003.C.T.2RSZ.P4A.UL	8,800	5,000	185	43,000	63,000
20	42	12	7004.C.T.2RSZ.P4A.UL	10,600	6,200	230	36,500	54,000
25	47	12	7005.C.T.2RSZ.P4A.UL	15,000	9,300	344	31,000	46,000
30	55	13	7006.C.T.2RSZ.P4A.UL	15,000	10,300	381	26,300	40,500
35	62	14	7007.C.T.2RSZ.P4A.UL	18,800	13,500	500	22,600	37,200
40	68	15	7008.C.T.2RSZ.P4A.UL	20,500	16,100	596	20,300	35,000
45	75	15	7009.C.T.2RSZ.P4A.UL	27,600	21,500	796	17,000	28,000
50	80	16	7010.C.T.2RSZ.P4A.UL	28,700	23,000	852	16,800	27,600
55	90	18	7011.C.T.2RSZ.P4A.UL	37,800	31,000	1,148	15,200	25,000
60	95	18	7012.C.T.2RSZ.P4A.UL	39,000	33,700	1,248	14,000	23,000
65	100	18	7013.C.T.2RSZ.P4A.UL	40,300	35,800	1,326	13,000	20,000
70	110	20	7014.C.T.2RSZ.P4A.UL	50,500	43,500	1,611	12,500	19,800
75	115	20	7015.C.T.2RSZ.P4A.UL	51,000	46,500	1,722	12,500	19,000
80	125	22	7016.C.T.2RSZ.P4A.UL	62,500	58,000	2,148	11,300	18,000
85	130	22	7017.C.T.2RSZ.P4A.UL	62,000	60,000	2,222	11,000	16,800
90	140	24	7018.C.T.2RSZ.P4A.UL	76,300	71,800	2,659	9,600	16,500

**Available with Contact Angle 15° / 25° (C=15° / E=25°)

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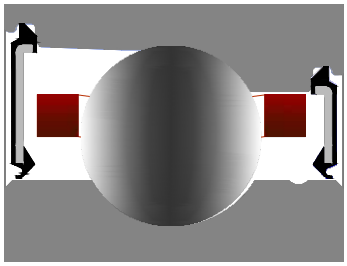

Product range and technical data

Basic dimensions			Basic designation	Load ratings		Fatigue limit load	Speed	
				dyn.	stat.		grease	oil/air
d	D	B		C	C_0	C_u (radial)	n_G	n_O
mm				N		N	min^{-1}	
20	47	14	7204.C.T.2RSZ.P4A.UL	15,000	8,500	315	31,500	47,300
25	52	15	7205.C.T.2RSZ.P4A.UL	15,800	9,500	352	28,500	41,000
30	62	16	7206.C.T.2RSZ.P4A.UL	23,500	14,900	552	24,000	38,500
35	72	17	7207.C.T.2RSZ.P4A.UL	25,600	18,100	670	21,000	35,000
40	80	18	7208.C.T.2RSZ.P4A.UL	32,300	22,500	833	18,500	31,000
45	85	19	7209.C.T.2RSZ.P4A.UL	41,000	30,000	1,111	18,000	27,000
50	90	20	7210.C.T.2RSZ.P4A.UL	43,000	31,500	1,167	16,800	25,500
55	100	21	7211.C.T.2RSZ.P4A.UL	53,000	40,000	148	15,300	22,800
60	110	22	7212.C.T.2RSZ.P4A.UL	64,000	49,000	1,815	13,800	20,600
65	120	23	7213.C.T.2RSZ.P4A.UL	73,200	58,800	2,178	12,700	19,500
70	125	24	7214.C.T.2RSZ.P4A.UL	79,300	64,800	2,400	12,200	19,000
75	130	25	7215.C.T.2RSZ.P4A.UL	83,000	70,000	2,593	11,600	17,500
80	140	26	7216.C.T.2RSZ.P4A.UL	93,200	77,600	2,874	10,700	16,500

**Available with Contact Angle 15° / 25° (C=15° / E=25°)

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