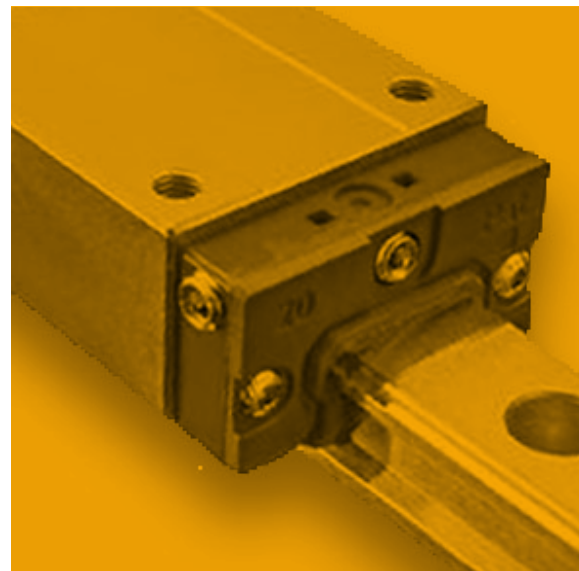




THE SOURCE
FOR INDUSTRY

BEARINGS





Since 2003, Advantiv have been supplying parts, providing multi skilled engineers and saving energy for clients across all commercial, industrial and manufacturing sectors. We service the UK nationwide, 24 hours a day, 7 days a week, 365 days a year. Our team is made up of experienced staff who know what's needed to provide the service your business expects.

From branches in Newbury and South Wales, Advantiv provide services split across 3 key areas:

- **Industrial MRO parts supply**
- **Engineering Site Services**
- **Energy Efficiency Solutions**

Our supply chain distributorships provide buyers with access to a wide range of MRO products at competitive prices. Our engineering team work with maintenance managers to solve problems and Energy Managers turn to Advantiv to drive down costs whilst complying with legislation.

It's all about understanding your needs, identifying a solution and working in partnership to help you solve that problem. Our aim is to make your investment in Advantiv contribute to your business by reducing your costs, increasing production up time and improving your efficiency.

HEAD OFFICE

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Pembroke Dock, Pembrokeshire SA72 6UN
Tel: 01646 689211 Email: wales@advantiv.co.uk

TAPERED ROLLER BEARINGS

These accept high radial loads and axial loads in one direction. They are generally fitted opposite a bearing of the same type. Load capacity depends on contact angle.

1 ROW OF TAPERED BEARINGS



Metric dimensions: ISO 355 and JIS B 1512 standards

Available with contact angles, spread from 10° to 30° and a large contact angle 40° (suffix D by NTN)

Inch dimensions: ABMA standard (including J metric series)

Can be equipped with flanges

2 ROWS OF TAPERED BEARINGS



Appears in the same form as two single-row bearings

Fitted face-to-face or back-to-back, with metric or inch dimensions

One-piece outer or inner rings

Single-row assemblies with spacers also exist

4 ROWS OF TAPERED BEARINGS



Composed of two double cones, two single flanges and one double flange

Extended life cycle thanks to the use of case hardened steel, hollow rollers and pin-type cages

Very high load capacities, adapted to rolling type applications

Available in sealed version (-LL)

ECO-TOP RANGE

Series meeting the need to protect the environment

Optimised design, enhanced life cycle, more compact bearing and reduced energy consumption



NTN BOWER RANGE

Wide range of tapered roller bearings with inner diameters up to 16 inches

Steel

Through hardened bearing steel (ECO-H)

Vacuum degassed case hardened steel (4T, ET) and special heat treatment for a longer life cycle (ETA / ECO)

Cage

Generally equipped with a cage in pressed sheets

Solid or steel pin-type cages for large bearings

Fibre glass reinforced polyamide cage possible depending on the application for smaller bearings

Contact torque



Bearing identified with the suffix -ST:

- Reduced drag torque
- Reduced heating
- Improved seizure resistance
- Simplified adjustments at assembly

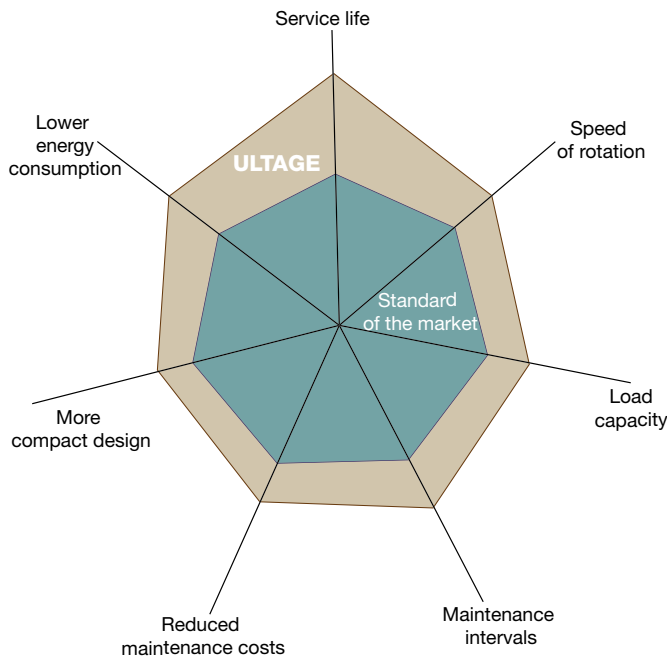
Sealing

Possible variant: sealing at the large shoulder (suffix -LX)

NTN-SNR ULTAGE : better performance for your applications

The ULTAGE name comes from a combination of the terms "ULTIMATE" and "STAGE". It is a name that provides you with optimised performance as standard, with respect to several technical criteria

PERFORMANCE COMPARISON

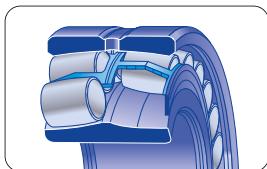


FROM 25 MM BORE UP TO 2180 MM EXTERNAL DIAMETER

NTN-SNR offers the widest range of spherical roller bearings on the market. They are available in a range of cage versions.

PRESSED STEEL CAGE (EA)

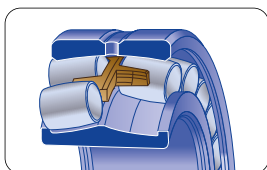
In two parts, centred on the inner ring



- > Reduced wear and friction
- > Optimum lubrication and high speeds

MACHINED SOLID BRASS CAGE (EM, L1)

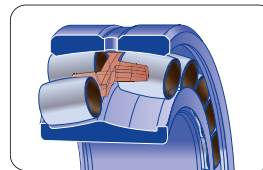
Single-piece cage, centred on the bearing housing or the inner ring



- > Extrem robustness for longer life in the most demanding environments.

SPECIAL CAGE FOR «VIBRATION APPLICATIONS» (EF800)

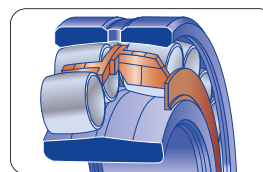
Single-piece cage with reduced bore, external diameter and radial clearance tolerances



- > Extremely accurate roller guides for longer service life.

POLYAMIDE CAGE (EG15)

Two-part, centred on the inner ring.



- > Performance and economy : elasticity and wrap-around profile for perfect guiding and reduced friction. (Max. running temperature 150°C)



THE FIRST SPHERICAL ROLLER BEARING WITH METALLIC SHIELDS

CUSTOMER BENEFITS

- Optimised production output due to longer service life
- Reduced maintenance costs
- Easy to use: **100% interchangeable** with open version

FIELD TESTS

1 Less bearing deterioration after twice service lifetime



QUARRY
Conveyor



2 Maximized profits



CEMENT PLANT
Bucket elevator

	Open spherical roller bearing	[KIZEI]
Life time	1 month	3 months
Production stops	12 times/year	4 times/year
Maintenance costs	100	30

Maintenance costs can be divided by 3

TECHNICAL FEATURES

7 GOOD REASONS TO CHOOSE KIZEI®

- **ULTAGE** load ratings and speed
- ISO dimensions
- High Quality nitrided steel cage and shields
- Wide working temperature range (-40° C up to +200° C)
- Easy lubrication (initial lubrication identical to open version)
- Optimal misalignment
- Simple mounting (same procedure and accessories than open version)



AVAILABLE RANGE

22208
22209
22210
22211
22212
22213
22215
22216
22217
22218
22220

- Cylindrical or tapered bore
- Normal or C3 internal clearance

	OPEN	[KIZEI]	SEALED
Dimensions	ISO	ISO	Special
Protection	0	+	++
Grease retention	0	+	++
Temperature range	-40°C to +200°C	-40°C to +200°C	-10°C to +120°C
Speed limit	++	++	+
Load rating	Ultage	Ultage	Ultage
Clearance check	Yes	Yes	No
Internal check	Yes	Yes	No
Sleeve & Nut	Standard	Standard	Special
Delivered with grease	No	No	Yes

* Suitable for solid dust proofing – no liquids.

Typical designation >> 22212EAKW33ZC3

Would you need an additional reference, please contact NTN-SNR

Download KIZEI® catalogue on our website:
www.ntn-snr.com



NEEDLE BEARINGS

These bearings are mainly selected for constructions requiring reduced radial dimensions and maximum rigidity and load capacity. They have little resistance for axial forces (except thrusts and combined bearings).

NEEDLE ROLLER AND CAGE ASSEMBLIES



A needle cage comprises an inseparable cage and needles and can be used to design very compact, light, constructions with maximum capacity. The shaft and housing act as a raceway and must be machined in compliance with hardness, geometry and roughness characteristics. The needles are guided precisely, therefore the needle cage can absorb much higher speeds of rotation than contact needles.

Depending on the application, different types of materials and cages are available:

Types	Characteristics	Suffixes
K	Fibre glass reinforced polyamide	-T2
K or KJ	Welded pressed steel cage	-S
GK / GPK	In two parts	
K	Two rows	-ZW
KBK	For piston pins application	
KV	For piston pins application	-S
PK / GPK	For crank pins application	
KMJ	For crank pins application	-S

Inch solutions are also available (PCJ).

DRAWN CUP NEEDLE ROLLER BEARINGS



Compact and light, mainly used in applications with low loads, needle sockets represent a low-cost bearing solution; the outer ring is not machined, but is obtained using precision pressing processes. It must be noted that the geometry of the raceway depends on the geometry of the housing (the low thickness of the outer ring only provides the hardness and roughness necessary for the raceway).

Standard (HK) and heavy (HMK) series, available with or without sealing, with open or closed ends (BK, BMK)

Some dimensions are delivered with 2 rows of needles (-ZW)

Inches versions with cage (DCL, SCE) and contact needle versions (HCK).

NTN drawn cup needle roller bearing offer:

- simplified adapting thanks to an ideal geometry
- an improved life cycle: specific treatment of the cage and needles

NEEDLE ROLLER BEARINGS WITH SOLID RINGS



Needle roller bearings with solid rings are mainly used in applications with high loads.

- Inseparable versions:** with or without an inner ring
 - Series 48, 49, 59 and 69. (Series 49 is also available with simple or double sealing)
 - NK series: also deliverable with the inner ring (NK+IR designation)
- If the bearing is used without an inner ring, the shaft will act as a raceway and must be machined appropriately

Separable versions: RNAO and NAO

With these versions, the inner and outer rings and the cage can be separated, opening up more assembly options.



The inner rings are delivered separately.

Versions with plunge grinding for seal support surfaces are also available.

These solid rings and needle bearings are also available in inch dimensions. (MR,MI)

NEEDLE AND ROLLER THRUST BEARINGS



Needle or roller thrust bearings are designed to absorb axial forces in one direction only. Support surfaces used as raceways must be ground and hardened.

- Needle thrust bearings: type AXK11
- Roller thrust bearings: series 811, 812, 874 and 893
Available with Polyamide cage (-T2), Aluminium alloy cage (-: lightness and enhanced performance when lack of lubricant) or pressed steel cage.

Washers:

- type **AS11** washers are thin (1 mm), therefore their support surfaces must be flat and rigid enough
- types **WS** (centered on the shaft) and **GS** (centered on the housing) are more rigid

COMBINED BEARINGS



When the application requires resistance to forces combined with substantial rigidity or minimum room, the use of combined bearings can lead to benefits. Depending on the type of bearings, axial forces may be absorbed in one or two directions.

● Uni-directional axial forces

The thrust part may comprise, either:

- a radial contact (NKX) or angular contact (NKIA) ball bearing
- rollers for high axial loads (NKXR)

If the unit must be inseparable, a flange (-Z) is proposed

Two-way axial forces

Depending on the intensity of the forces, the thrust part will consist of needles (AXN) or rollers (ARN)

CAM FOLLOWERS



Cam followers are used for applications requiring guidance with minimum contact with cam and the linear guidance systems.

Cam followers applications are very different to bearing applications. The cam followers is not fitted in a housing and its thicker outer ring rolls directly over a surface to provide guidance.

With or without a seal, with an outer ring with a convex or cylindrical profile, all cam followers are proposed:

- contact needle version (KRV-NATV) to accept significant loads
- cage version (KR-NATR) to accept higher speeds

Versions with two 2 rows of contact bearings also exist to increase capacity (NUTR, NUTW et NUKR)

- Stud Type: threaded shaft has a slot head or hex head screwdriver tightening system to simplify the attachment of the roller on the support surface. These rollers may be regreased by the shaft.
- Yoke Type: with or without lateral guidance



BEARING UNITS

www.ntn-snr.com



With You

With years of expertise, our wide range of bearing units and bearing inserts offers a complete choice to our customers.

BENEFITS

One stop shop for all your bearing unit needs

Full assortment of quality products from JIS and ISO ranges

Improve your reactivity thanks to short lead times

High level of product availability in our European Distribution Center

Optimize the output of your machines with our complete product expertise

Benefit from the advice of our highly skilled engineering team for your specific applications

BEARING UNIT RANGE



GREY CAST IRON THE POPULAR RANGE

- JIS & ISO ranges
- Available from shaft diameter 12 – 140 mm / ½ - 3 15/16 inch
- Equipped with universal G2 inserts
- Relubrication facilities as standard
- Blue painting with excellent anticorrosion properties
- Rigid protective covers from stainless steel
- Adapter sleeve already included



PRESSED STEEL FOR ECONOMICAL AND LIGHTWEIGHT CONSTRUCTIONS

- Two-piece housing made from zinc coated sheet steel
- Available as pillow block, flanged or take-up unit
- Equipped with universal G2 inserts
- Suitable for narrow ball bearing inserts set screw type US..G2, eccentric locking collar type ES..G2 and type CS with interference fit
- Made for low to moderate loads & speeds



HARSCH ENVIRONMENT STAINLESS STEEL

WHEN CORROSION RESISTANCE & OXIDATION PROTECTION IS NEEDED

- 100% stainless steel resistant to corrosion: will never chip and contaminate the end product
- Food-grade seal with additional slinger (SUC)
- USDA H1 grease fully compliant with FDA regulations
- Shaft fastening by set screw or eccentric locking collar
- Protective covers to provide additional protection against regular washdowns



ECONOMICAL SOLUTION THERMOPLASTIC

- 100% stainless steel bearing inserts resistant to corrosion: will never chip and contaminate the end product
- All metallic components made of high-quality stainless steel
- Housings equipped with grooves to snap protective covers into place
- USDA H1 grease fully compliant with FDA regulations
- Good friction and wear properties

BEARING INSERT SOLUTIONS BEYOND THE STANDARD



GREASED FOR LIFE



LUBSOLID®

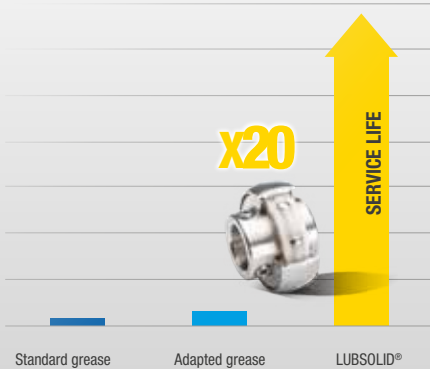
- Made of high-quality stainless steel
- Food grade lubricant with NSF certificate
- Anti-contamination effect: no lubricant leakage possible

BENEFITS

COST SAVINGS AND PRODUCTIVITY GAINS
 LOWER MAINTENANCE AND MATERIAL COSTS
 SUITED FOR LOCATIONS WITH DIFFICULT ACCESS:
 NO NEED FOR REGULAR MONITORING OR SERVICE



HYGIENE STANDARDS



For use with stainless steel and thermoplastic housings.

AGR

- High durability and resistant to strong impacts
- Maintenance-free
- Resistant to high pressure washing

BENEFITS

COST SAVING AND PRODUCTIVITY GAINS
 LOWER MAINTENANCE AND MATERIAL COSTS
 BETTER OPERATING PERFORMANCE



CAUTION

With a few exceptions, these bearing inserts fit most cast iron housings. For customized bearing units, please consult the technical department to let them check for feasibility.

Download our new catalogue on: www.ntn-snr.com

NTN-SNR ROULEMENTS - 1 rue des usines - 74000 Annecy
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www.ntn-snr.com

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With You



SNC PLUMMER BLOCK



Efficient, flexible and user friendly



With You

More than Standard!

Extend the life duration with the SNC plummer block housing range!

The optimized design provides excellent rigidity and stability, a vibration dampening and improves strength and heat dissipation characteristics in order to provide reduced stress levels in the bearing and a cooler running temperature of its lubricant and thereby extending operating and service life.

The solution for higher loads

Large SNC plummer block housings (from the size 520) are now also available in ductile iron EN-GJS-400-18. This SNC D designated housing features additional a factor 1.8 higher breaking loads.

The SNC plummer block housings are designed for installation of spherical roller bearings.

We recommend the use of our ULTAGE spherical roller bearings with higher increased load capacities and extended service life, to take advantage of the optimal characteristics of the SNC-Housings. We complete our range with the tools and solutions of Experts & Tools.



Your benefits:

Circular reinforcement:

- excellent stability + rigidity
- optimal vibration behavior
- effective heat dissipation



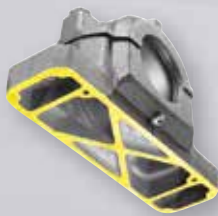
Connection options:

- delivered with 2 lubrication holes
- 2 grease nipples (1x tapered, 1x flat headed nipple) added
- all bores sealed with screws
- drain hole



X-support:

- reinforced bearing seat
- uniform load distribution
- extended life in service



Larger diameter bolts:

- higher radial loads to be supported by the housing cap



Optional grease regulation disc:

- achieves the normal operating temperature more quickly
- at high rotational speeds: reduces the operating temperature
- extends the operating and service life of the bearing

Sealing options

A variety of sealing options is available, adapted to your application



SC..DS
Double lip seal
allround use

SC..FS
Felt strip seal
high rotation speed

SC..SV
V-Ring seal
low friction

SC..LA
Labyrinth seal
high temperatures

SC..TA
Taconite seal
large dust pollution

With our ULTAGE spherical roller bearings you will have a perfect combination for your application, like for ex.:

- Industrial ventilators
- Mining and quarry
- etc.
- Conveyor systems
- Steel industry



SNC PLUMMER BLOCK









Efficient, flexible and user friendly



With You

SNR ↔ SKF
Interchange list
Split plummer block units

Shaft outlet-Ø	Typ	SNR ↔ SKF Interchange list		SNR		SKF	
		SNC 	SNL 	DS 	G 	FS 	C 
20	505	SNC505	SNL505	SC505DS	TSN505G	SC505FS	TSN505C
20	605	SNC506-605	SNL506-605	SC605DS	TSN605G	SC605FS	TSN605C
25	506	SNC506-605	SNL506-605	SC506DS	TSN506G	SC506FS	TSN506C
25	606	SNC507-606	SNL507-606	SC606DS	TSN606G	SC606FS	TSN606C
30	205	SNC205	SNL205	SC205DS	TSN205G	SC205FS	-
30	305	SNC206-305	SNL206-305	SC507DS	TSN305G	SC305FS	-
30	507	SNC507-606	SNL507-606	SC507DS	TSN507G	SC507FS	TSN507C
30	607	SNC508-607	SNL508-607	SC607DS	TSN607G	SC607FS	TSN607C
35	206	SNC206-305	SNL206-305	SC206DS	TSN206G	SC206FS	-
35	306	SNC507-606	SNL507-606	SC206DS	TSN206G/306G	SC206FS	-
35	508	SNC508-607	SNL508-607	SC508DS	TSN508G	SC508FS	TSN508C
35	608	SNC510-608	SNL510-608	SC608DS	TSN608G	SC608FS	TSN608C
45	207	SNC207-306	SNL207	SC207DS	TSN207G	SC207FS	-
45	307	SNC208-307	SNL208-307	SC510DS	TSN307G	SC307FS	-
40	509	SNC509	SNL509	SC509DS	TSN509G	SC509FS	TSN509C
40	609	SNC511-609	SNL511-609	SC609DS	TSN609G	SC609FS	TSN609C
50	208	SNC208-307	SNL208-307	SC208DS	TSN208G	SC208FS	-
50	308	SNC510-608	SNL510-608	SC208DS	TSN208G/308G	SC208FS	-
45	510	SNC510-608	SNL510-608	SC510DS	TSN510G	SC510FS	TSN510C
45	610	SNC512-610	SNL512-610	SC610DS	TSN610G	SC610FS	TSN610C
55	209	SNC209	SNL209	SC209DS	TSN209G	SC209FS	-
55	309	SNC511-609	SNL511-609	SC209DS	TSN209G/309G	SC209FS	-
50	511	SNC511-609	SNL511-609	SC511DS	TSN511G	SC511FS	TSN511C
60	611	SNC513-611	SNL513-611	SC611DS	TSN611G	SC611FS	TSN611C
60	210	SNC210-308	SNL210	SC210DS	TSN210G	SC210FS	-
60	310	SNC512-610	SNL512-610	SC210DS	TSN210G/310G	SC210FS	-
55	512	SNC512-610	SNL512-610	SC512DS	TSN512G	SC512FS	TSN512C
55	612	SNC515-612	SNL515-612	SC612DS	TSN612G	SC612FS	TSN612C
65	211	SNC211-309	SNL211	SC211DS	TSN211G	SC211FS	-
65	311	SNC513-611	SNL513-611	SC211DS	TSN211G/311G	SC211FS	-
60	513	SNC513-611	SNL513-611	SC513DS	TSN513G	SC513FS	TSN513C
60	613	SNC516-613	SNL516-613	SC613DS	TSN613G	SC613FS	TSN613C
70	212	SNC212-310	SNL212	SC212DS	TSN212G	SC212FS	-
70	312	SNC515-612	SNL515-612	SC212DS	TSN212G/312G	SC212FS	-
65	515	SNC515-612	SNL515-612	SC515DS	TSN515G	SC515FS	TSN515C
65	615	SNC518-615	SNL518-615	SC615DS	TSN615G	SC615FS	TSN615C
75	213	SNC213-311	SNL213	SC213DS	TSN213G	SC213FS	-
75	313	SNC516-613	SNL516-613	SC213DS	TSN213G/313G	SC213FS	-
70	516	SNC516-613	SNL516-613	SC516DS	TSN516G	SC516FS	TSN516C
70	616	SNC519-616	SNL519-616	SC616DS	TSN616G	SC616FS	TSN616C
80	214	SNC214	-	SC214DS	-	SC214FS	-
80	314	SNC517	SNL517	SC214DS	TSN314G	SC214FS	-
75	517	SNC517	SNL517	SC517DS	TSN517G	SC517FS	TSN517C
75	617	SNC520-617	SNL520-617	SC617DS	TSN617G	SC617FS	TSN617C
85	215	SNC215-312	SNL215	SC215DS	TSN215G	SC215FS	-
85	315	SNC518-615	SNL518-615	SC215DS	TSN215G/315G	SC215FS	-
80	518	SNC518-615	SNL518-615	SC518DS	TSN518G	SC518FS	TSN518C
80	618	SNC318-618	-	SC618DS	-	SC618FS	-
90	216	SNC216-313	SNL216	SC216DS	TSN216G	SC216FS	-
90	316	SNC219-316	SNL519-616	SC316DS	TSN316G	SC316FS	-
85	519	SNC519-616	SNL519-616	SC519DS	TSN519G	SC519FS	TSN519C
85	619	SNC522-619	SNL522-619	SC619DS	TSN619G	SC619FS	TSN619C
95	217	SNC217-314	SNL217	SC217DS	TSN217G	SC217FS	-
95	317	SNC220-317	SNL520-617	SC317DS	TSN317G	SC317FS	-
90	520	SNC520-617	SNL520-617	SC520DS	TSN520G	SC520FS	TSN520C
90	620	SNC524-620	SNL524-620	SC620DS	TSN620G	SC620FS	TSN620C
100	218	SNC218-315	SNL218	SC218DS	TSN218G	SC218FS	-
100	318	SNC318-618	-	SC318DS	-	SC318FS	-
110	319	SNC222-319	SNL522-619	SC319DS	-	SC319FS	-
110	219	SNC519-616	-	SC219DS	-	SC219FS	-
100	522	SNC522-619	SNL522-619	SC522DS	TSN522G	SC522FS	TSN522C
115	220	SNC520-617	SNL520-617	SC220DS	TSN220G	SC220FS	-
115	320	SNC224-320	SNL524-620	SC320DS	-	SC320FS	-
110	524	SNC524-620	SNL524-620	SC524DS	TSN524G	SC524FS	TSN524C
125	222	SNC522-619	SNL522-619	SC222DS	TSN222G	SC222FS	-
115	526	SNC226-526	SNL526	SC526DS	TSN526G	SC526FS	TSN526C
135	224	SNC524-620	SNL524-620	SC224DS	TSN224G	SC224FS	-
125	528	SNC228-528	SNL528	SC528DS	TSN528G	SC528FS	TSN528C
145	226	SNC226-526	SNL526	SC226DS	TSN226G	SC226FS	-
135	530	SNC230-530	SNL530	SC530DS	TSN530G	SC530FS	TSN530C
140	532	SNC232-532	SNL532	SC532DS	TSN532G	SC532FS	TSN532C
155	228	SNC228-528	SNL528	SC228DS	TSN228G	SC228FS	-
165	230	SNC230-530	SNL530	SC230DS	TSN230G	SC230FS	-
175	232	SNC232-532	SNL532	SC232DS	TSN232G	SC232FS	-





SNC PLUMMER BLOCK



Efficient, flexible and user friendly



With You

							
SNR SV	SKF A	SNR LA	SKF S	SNR TA	SKF ND	SNR EC	SKF ANSH
SC505SV	TSN505A	SC505LA	TSN505S	SC505TA	TSN505ND	SC505EC	ASNH505
SC605SV	TSN605A	SC605LA	TSN605S	SC605TA	TSN605ND	SC506-605EC	ASNH506-605
SC506SV	TSN506A	SC506LA	TSN506S	SC506TA	TSN506ND	SC506-605EC	ASNH506-605
SC606SV	TSN606A	SC606LA	TSN606S	SC606TA	TSN606ND	SC507-606EC	ASNH507-606
-	-	SC205LA	TSN205S	SC205TA	TSN205ND	SC506-605EC	ASNH506-605
SC305SV	TSN305A	SC305LA	TSN305S	SC305TA	TSN305ND	SC507-606EC	ASNH507-606
SC507SV	TSN507A	SC507LA	TSN507S	SC507TA	TSN507ND	SC507-606EC	ASNH507-606
SC607SV	TSN607A	SC607LA	TSN607S	SC607TA	TSN607ND	SC508-607EC	ASNH508-607
SC206SV	TSN206A	SC206LA	TSN206S	SC206TA	TSN206ND	SC507-606EC	ASNH507-606
SC206SV	TSN206A/306A	SC206LA	TSN206S/306S	SC206TA	TSN206ND/306ND	SC507-606EC	ASNH507-607
SC508SV	TSN508A	SC508LA	TSN508S	SC508TA	TSN508ND	SC508-607EC	ASNH508-607
SC608SV	TSN608A	SC608LA	TSN608S	SC608TA	TSN608ND	SC510-608EC	ASNH510-608
SC207SV	TSN207A	SC207LA	TSN207S	SC207TA	TSN207ND	SC509EC	ASNH509
SC307SV	TSN307A	SC307LA	TSN307S	SC307TA	TSN307ND	SC510-608EC	ASNH510-608
SC509SV	TSN509A	SC509LA	TSN509S	SC509TA	TSN509ND	SC509EC	ASNH509
SC609SV	TSN609A	SC609LA	TSN609S	SC609TA	TSN609ND	SC511-609EC	ASNH511-609
SC208SV	TSN208A	SC208LA	TSN208S	SC208TA	TSN208ND	SC510-608EC	ASNH510-608
SC208SV	TSN208A/308A	SC208LA	TSN208S/308S	SC208TA	TSN208ND/308ND	SC510-608EC	ASNH510-609
SC510SV	TSN510A	SC510LA	TSN510S	SC510TA	TSN510ND	SC510-608EC	ASNH510-608
SC610SV	TSN610A	SC610LA	TSN610S	SC610TA	TSN610ND	SC512-610EC	ASNH512-610
SC209SV	TSN209A	SC209LA	TSN209S	SC209TA	TSN209ND	SC511-609EC	ASNH511-609
SC209SV	TSN209A/309A	SC209LA	TSN209S/309S	SC209TA	TSN209ND/309ND	SC511-609EC	ASNH511-610
SC511SV	TSN511A	SC511LA	TSN511S	SC511TA	TSN511ND	SC511-609EC	ASNH511-609
SC611SV	TSN611A	SC611LA	TSN611S	SC611TA	TSN611ND	SC513-611EC	ASNH513-611
SC210SV	TSN210A	SC210LA	TSN210S	SC210TA	TSN210ND	SC512-610EC	ASNH512-610
SC210SV	TSN210A/310A	SC310LA	TSN210S/310S	SC210TA	TSN210ND/310ND	SC512-610EC	ASNH512-611
SC512SV	TSN512A	SC512LA	TSN512S	SC512TA	TSN512ND	SC512-610EC	ASNH512-610
SC612SV	TSN612A	SC612LA	TSN612S	SC612TA	TSN612ND	SC515-612EC	ASNH515-612
SC211SV	TSN211A	SC211LA	TSN211S	SC211TA	TSN211ND	SC513-611EC	ASNH513-611
TSN211A/311A	SC211LA	TSN211S/311S	SC211TA	TSN211ND/311ND	SC513-611EC	ASNH513-612	ASNH513-611
SC513SV	TSN513A	SC513LA	TSN513S	SC513TA	TSN513ND	SC513-611EC	ASNH513-611
SC613SV	TSN613A	SC613LA	TSN613S	SC613TA	TSN613ND	SC516-613EC	ASNH516-613
SC212SV	TSN212A	SC212LA	TSN212S	SC212TA	TSN212ND	SC515-612EC	ASNH515-612
SC212SV	TSN212A/312A	SC212LA	TSN212S/312S	SC212TA	TSN212ND/312ND	SC515-612EC	ASNH515-613
SC515SV	TSN515A	SC515LA	TSN515S	SC515TA	TSN515ND	SC515-612EC	ASNH515-612
SC615SV	TSN615A	SC615LA	TSN615S	SC615TA	TSN615ND	SC518-615EC	ASNH518-615
SC213SV	TSN213A	SC213LA	TSN213S	SC213TA	TSN213ND	SC516-613EC	ASNH516-613
SC213SV	TSN213A/313A	SC213LA	TSN213S/313S	SC213TA	TSN213ND/313ND	SC516-613EC	ASNH516-614
SC516SV	TSN516A	SC516LA	TSN516S	SC516TA	TSN516ND	SC516-613EC	ASNH516-613
SC616SV	TSN616A	SC616LA	TSN616S	SC616TA	TSN616ND	SC519-616EC	ASNH519-616
SC214SV	-	SC214LA	-	SC214TA	-	SC517EC	-
SC214SV	TSN314A	SC214LA	TSN314A	SC214TA	TSN314ND	SC517EC	ASNH516
SC517SV	TSN517A	SC517LA	TSN517S	SC517TA	TSN517ND	SC517EC	ASNH517
SC617SV	TSN617A	SC617LA	TSN617S	SC617TA	TSN617ND	SC520-617EC	ASNH520-617
SC215SV	TSN215A	SC215LA	TSN215S	SC215TA	TSN215ND	SC518-615EC	ASNH518-615
SC215SV	TSN215A/315A	SC215LA	TSN215S/315S	SC215TA	TSN215ND/315ND	SC518-615EC	ASNH518-614
SC518SV	TSN518A	SC518LA	TSN518S	SC518TA	TSN518ND	SC518-615EC	ASNH518-615
SC618SV	-	SC618LA	-	SC618TA	-	SC318-618EC	-
SC216SV	TSN216A	SC216LA	TSN216S	SC216TA	TSN216ND	SC216-613EC	ASNH216
SC316SV	TSN316A	SC316LA	TSN316S	SC316TA	TSN316ND	SC519-616EC	ASNH519-616
SC519SV	TSN519A	SC519LA	TSN519S	SC519TA	TSN519ND	SC519-616EC	ASNH519-616
SC619SV	TSN619A	SC619LA	TSN619S	SC619TA	TSN619ND	SC522-619EC	ASNH522-619
SC217SV	TSN217A	SC217LA	TSN217S	SC217TA	TSN217ND	SC217-314EC	ASNH217
SC317SV	TSN317A	SC317LA	TSN317S	SC317TA	TSN317ND	SC520-617EC	ASNH520-617
SC520SV	TSN520A	SC520LA	TSN520S	SC520TA	TSN520ND	SC520-617EC	ASNH520-617
SC620SV	TSN620A	SC620LA	TSN620S	SC620TA	TSN620ND	SC524-620EC	ASNH524-620
SC218SV	TSN218A	SC218LA	TSN218S	SC218TA	TSN218ND	SC218-315EC	ASNH218
SC318SV	-	SC318LA	-	SC318TA	-	SC318-618EC	-
SC319SV	TSN319A	SC319LA	TSN319S	SC319TA	TSN319ND	SC522-619EC	ASNH522-619
SC219SV	-	SC219LA	-	SC219TA	-	SC519-616EC	-
SC522SV	TSN522A	SC522LA	TSN522S	SC522TA	TSN522ND	SC522-619EC	ASNH522-619
SC220SV	TSN220A	SC220LA	TSN220S	SC220TA	TSN220ND	SC520-617EC	ASNH520-617
SC320SV	TSN320A	SC320LA	TSN320S	SC320TA	TSN320ND	SC524-620EC	ASNH524-620
SC524SV	TSN524A	SC524LA	TSN524S	SC524TA	TSN524ND	SC524-620EC	ASNH524-620
SC222SV	TSN222A	SC222LA	TSN222S	SC222TA	TSN222ND	SC522-619EC	ASNH522-619
SC526SV	TSN526A	SC526LA	TSN526S	SC526TA	TSN526ND	SC226-626EC	ASNH526
SC224SV	TSN224A	SC224LA	TSN224S	SC224TA	TSN224ND	SC524-620EC	ASNH524-620
SC528SV	TSN528A	SC528LA	TSN528S	SC528TA	TSN528ND	SC228-528EC	ASNH528
SC226SV	TSN226A	SC226LA	TSN226S	SC226TA	TSN226ND	SC226-526EC	ASNH526
SC530SV	TSN530A	SC530LA	TSN530S	SC530TA	TSN530ND	SC230-530EC	ASNH530
SC532SV	TSN532A	SC532LA	TSN532S	SC532TA	TSN532ND	SC232-532EC	ASNH532
SC228SV	TSN228A	SC228LA	TSN228S	SC228TA	TSN228ND	SC228-528EC	ASNH528
SC230SV	TSN230A	SC230LA	TSN230S	SC230TA	TSN230ND	SC230-530EC	ASNH530
SC232SV	TSN232A	SC232LA	TSN232S	SC232TA	TSN232ND	SC232-532EC	ASNH532

THE BEARING BOX



www.ntn-snr.com



With You



BEBOX

With the help of our experts, you boost the operational efficiency of your business:

- **By cutting** your maintenance costs
- **By training you** in best practise
- **Decrease machinery** down time
- **Identify root** cause issues

Training:

- **100% adapted** to your needs
- **Theory:** Basics, bearing technology, bearing life, lubrication, clearance
- **Practical:** Training, demonstration with tools
- **Bearing lubrication**



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Wellington Crescent, Fradley Park,
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Reserve the Bearing Box today!
Talk to us to discuss the tailored training options to suit your requirements.

DEEP GROOVE BALL BEARINGS TOPLINE



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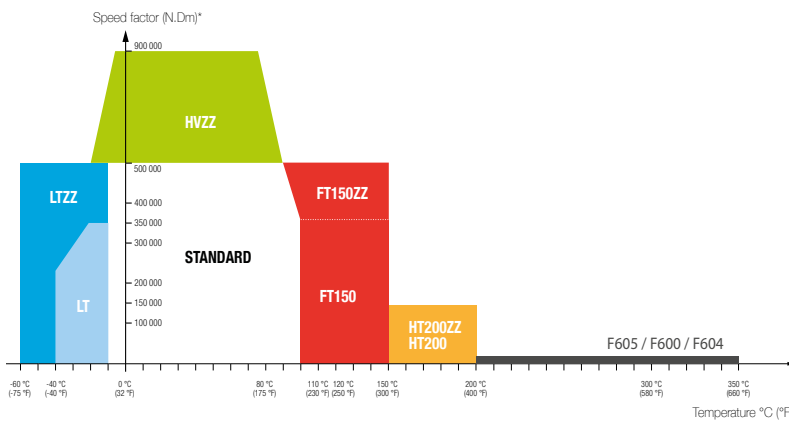
With You

Since 1997, TOPLINE has been the unique range of bearings for extreme applications. In 2020, it will be renewed thanks to two technical evolutions.

STRENGTHS

A HIGHLY TECHNICAL RANGE READY TO USE AND AVAILABLE FROM STOCK.

OUR RANGE



TECHNICAL FACTSHEET

Series: 6000, 6200, 6300

Diameters: bore code 00 to 13 **

Sealing type: seals or shields, except F600 and F605

Types :

HVZZ : High Speed up to 900 000 N.Dm

LT : Low Temperature -40°C

FT150 : High temperature up to 150°C

HT200 : High temperature up to 200°C

F60x : Up to 350°C

* N.Dm is a speed factor where N is the speed of rotation in rpm and Dm is the average diameter of the bearing (d + D)/2

** Variable according to types and series

BENEFITS AND 2020 IMPROVEMENTS

BY RENEWING OUR TECHNICAL CHOICES ON GREASES,
WE IMPROVE PERFORMANCE OF TWO OF OUR RANGES:



FT150 : Quieter with a noise level reduced by a factor of 4

Able to propose the best solution for your customers increasing demands



Up to 140rpm for F604 - Performance x 3

Target a range of wider applications

Download our new catalogue on: www.ntn-snr.com

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With You

TECHNICAL CHARACTERISTICS

We use the best technologies available, so that each product is ideally geared towards your needs.

Products	Cage	Internal clearance	Grease	Sealing	Other	Temperature range
HVZZ	Glass fibre reinforced polyamide 6.6	C3	Superior quality. Lithium thickener + synthetic base oil	Steel shields	Precision P6, P5. High-precision balls (<= Class 10)	-20°C to +120°C
LT LTZZ	Steel	C3	Suited to low temperatures + presence of humidity. Lithium thickener + synthetic base oil	Nitrile rubber seals (NBR) or steel shields	-	LT: -40°C to +100°C LTZZ: -60°C to +120°C
FT150 FT150ZZ	Steel	C3	Adapted to high temperatures. Polyurea thickener + synthetic base oil	Fluoroelastomer seals (FKM) or steel shields	-	-30°C to +150°C
HT200 HT200ZZ	Steel	C4	Adapted to high temperatures. PTFE solid lubricant and PFPE oil	Fluoroelastomer seals (FKM) or steel shields	Specific heat treatment	-40°C to +200°C
F605	Steel	Multiple of C5*	**	-	Brand is stamped	Temperature range between +200°C and +350°C (continuous or cyclic)
F600	Steel	Multiple of C5*		-	Specific surface treatment (phosphatisation + MoS2 deposition)***	
F604	Steel	Multiple of C5*		Suitable for very high temperatures. Polyalkylene glycol base oil + solid additive	Steel shields	

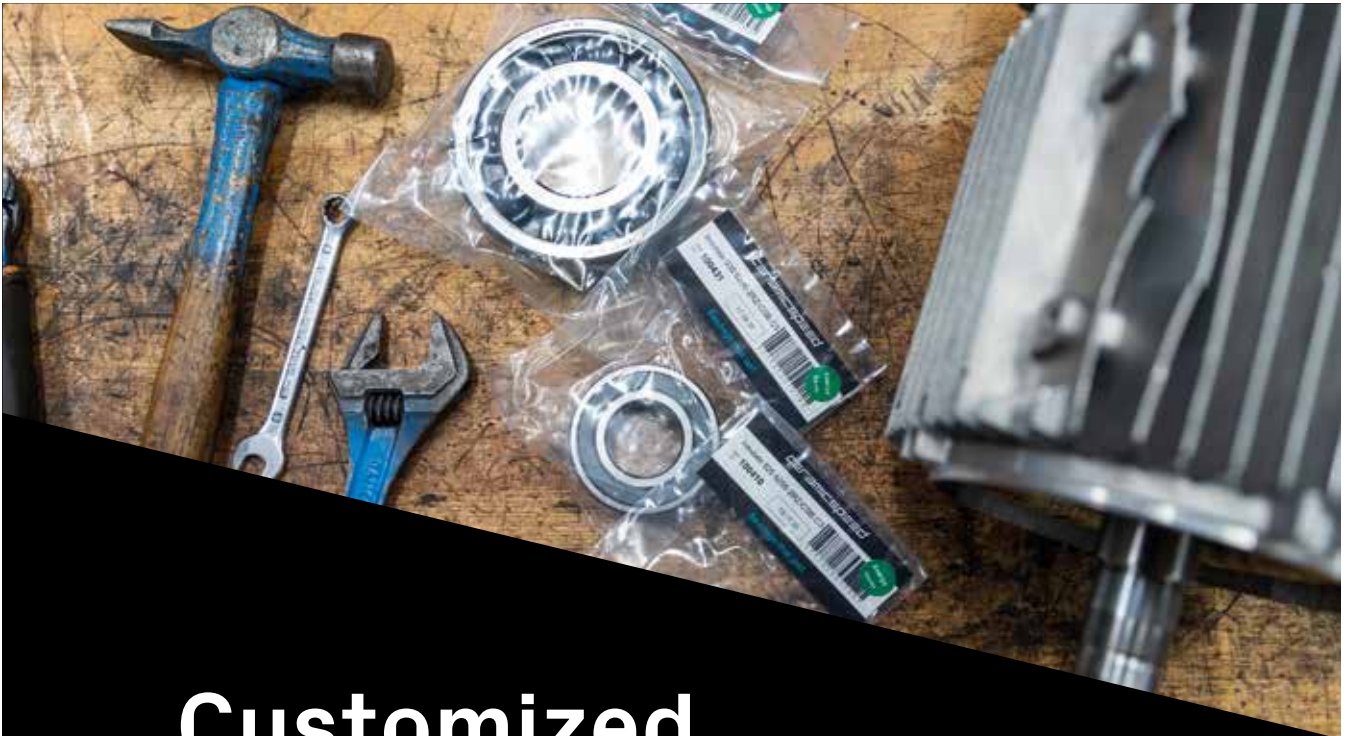
For more information about the temperature ranges, please contact us.



* Significantly increased internal clearance to offset the material's expansion effects.

** In case of F600 and F605, if additional lubrication is required, an appropriate amount of grease may be introduced into the bearing. Contact NTN-SNR for more information.

*** Surface treatment for greater oxidation resistance and improved lubrication. Caution: F600 and F604 products must be used with care in damp environments, since MoS2 may react with water to produce sulphuric acid.



Customized Hybrid Bearings - With Short Lead time



Food & Beverage




E-motor



Special Applications

We offer fully customizable ceramic hybrid bearing solutions down to single unit inquiries for both e-motors, food and beverage and special application. We have more than 12 years of experience in the development of ceramic hybrid bearings for any application that does not fit the standard product categories and we take pride in the quality of our bearings and to hand build the right bearing for our customers.

 Hand Built in Denmark

CERAMICSPEED



Barden Spindle Bearings

The Barden Corporation (UK) Ltd has more than 70 years of market-leading expertise in the design and manufacture of super precision ball bearings. Working together with international partners, Barden shares best practices and knowledge, delivering high-end bearings and assemblies tailor-made to the demands and requirements of customers.

Barden bearings are manufactured to the highest quality standards and the company offers a full range of engineering support services. Barden has a fast and flexible mindset which is rooted in all areas of the business.



Products

Barden specialises in production of spindle ball bearings manufactured to the highest tolerance standards. The product range covers bearings from 3mm inner diameter up to 180mm outer diameter. The bearings are designed to offer exceptionally long lifetimes, extreme corrosion resistance if required and are suitable for high operating speeds.

Barden bearings are suitable for applications including motorised spindles, belt driven mechanical spindles, and specialist applications such as rotary unions for machine tool spindles. They provide excellent performance under the most demanding conditions.

Quality

The tolerances for size, geometry and running accuracy of Barden spindle bearings fully comply with international ISO 492 and national DIN 620 standards, as well as American ABEC classes. Bearings are fitted with balls which meet the highest tolerance standards, 'Grade 5' as a minimum, and manufactured to ISO P4S as standard and up to P2 where required.

Barden has world leading systems and processes in place and a flexible approach to manufacturing. This, combined with large stocks of different product types, means customer demands can be fully met and product delivered quickly.



Angular Contact Ball Bearings

Available in P4, P4S and P2 precision grade with 15° and 25° contact angles. Steel balls are supplied as standard. Universally ground for interchangeable mounting arrangements or in dedicated matched bearing sets.

Optional Versions

Sealed Bearings

Seals exclude contamination, contain lubricants and protect the bearing from internal damage during handling. Sealed and greased using non-contact seals, these bearings offer optimum performance in challenging applications.

Direct Lubrication Version

Designed for maximum speed where radial oil lubrication systems are featured. As a rule the use of DLR (Direct Lube) bearings results in a reduction of running costs and proves more reliable than systems using axial oil supply.

Ceramic Ball (Hybrid) Bearings

Ceramic balls used in place of steel balls can radically improve bearing performance in several ways:

- **Low vibration and noise.** Vibration levels can be up to seven times lower than conventional steel ball bearings. This is because ceramic balls are 60% lighter than steel balls and their surface finish is almost perfectly smooth.
- **High running speeds.** Ceramic hybrid bearings run at significantly lower operating temperatures, allowing running speeds to increase by up to 50%.
- **Low wear and long operating life.** Bearings with ceramic balls have been proven to last up to five times longer than conventional steel ball bearings. The inherent properties of silicon nitride mean the balls drastically reduce the predominant cause of surface wear in conventional bearings. Lower operating temperatures also help extend lubricant life and they provide excellent performance where there is insufficient lubrication.
- Systems equipped with ceramic hybrids show higher rigidity and higher natural frequency making them less sensitive to vibration.

Applications and Industries

Barden super precision ball bearings are found throughout industry in applications where superior performance and reliability under challenging conditions is essential.

- | | | |
|--|--|--|
| <ul style="list-style-type: none"> ■ Machine Tools: <ul style="list-style-type: none"> ■ Grinding ■ Milling ■ Turning ■ Machining Centres ■ Ball Screw Supports | <ul style="list-style-type: none"> ■ Aerospace & Defence Industries ■ Satellite Positioning Applications ■ Vacuum Pump Technologies ■ Textile Equipment ■ Food Processing ■ Robotics | <ul style="list-style-type: none"> ■ Medical & Dental Equipment ■ High Speed Electric Motors ■ Spindle Repairers & Rebuilders ■ Machine Tool Repairers ■ Energy Generation Systems ■ Other Specialist Applications |
|--|--|--|





AUSTRIAN QUALITY COMBINED WITH ADVANCED TECHNOLOGY



NKE AUSTRIA GmbH is a premium bearing manufacturer with headquarters in Steyr, Austria. The company was founded in 1996 by a group of senior staff members of the former Steyr Wälzlager.

NKE manufactures both standard and special bearings for all industrial applications. Our core competences - engineering, product development, final processing of components, assembly, quality assurance, logistics, sales and marketing - are centralised in Steyr. The site is accredited with ISO 9001:2015 (design, development, manufacturing and distribution of bearings), ISO 14001:2015 and OHSAS 18001.

NKE bearings are distributed through international representative offices and more than 240 distribution outlets in over 60 countries.

We offer:

- / Standard bearings with a comprehensive stock range.
- / Tailor-made bearings for special requirements.
- / Technical service (e.g. consulting, documentation, training etc.)

100% Made in Austria



All NKE bearings are manufactured with state-of-the-art equipment. They undergo stringent and documented quality inspection. By using advanced testing and measuring equipment and applying a rigorous quality policy, we can guarantee that every single batch of bearings delivered is of the highest quality standards.

Bearings move the world

Bearings are versatile and have contributed to change the world and make it as technologically advanced as it is today. Indeed, bearings move the world. The perfect combination of **quality, innovation** and **experience** in NKE bearings, are the **ideal choice for our distributors. Together: We are experts in bearing solutions!**

NKE Austria GmbH, in order to offer a complete range of bearings to its customers, regularly adds new products. The **stock programme** is **continuously changing and growing**. Greater availability of different types and sizes is one of NKE's goals.

In NKE's stock programme you can find:

Deep groove ball bearings (single and double row)	Washers
Cylindrical roller bearings including full complement	Conical sleeves
Needle roller bearings	Four point contact bearings
Insert bearings	Spherical roller bearings
Bearing housings	Self-aligning ball bearings
Axial cylindrical roller bearings	Thrust ball bearings
Spherical plain bearings	Angular contact ball bearings (single and double row)
Cam and track rollers, cam and track followers	Cylindrical roller thrust bearings
Locknuts	Tapered roller bearings

Imperials: LJ, MJ, LJT, MJT, LRJ, MRJ

Many of the advantages of rolling element bearings are:

- / Less starting torque, energy conservation
- / Capability to take on combined radial and axial loads
- / Greater load carrying capabilities
- / Maintenance free, sealed "for-life" design
- / Less lubrication consumption
- / Precise guidance of shafts
- / Suitable for greater operating temperatures

Since 2018 NKE is part of the Fersa Group, **present in more than 100 countries** with **4 factories** and **8 logistic centres** all over the world **with the only aim to be close to its customers.**

NKE develops and manufactures **premium quality** bearings for a wide spectrum of **industrial applications.**



NKE electrically insulated bearings – efficient and effective

NKE provides bearings with oxide ceramic insulating layers on the bearing ring. Applied with plasma technology, the insulation has a guaranteed breakdown resistance of at least 1000V AC or DC.

Two variants are available:

- / SQ77: Insulation on the outer ring
- / SQ77E: Insulation on the inner ring (Fig. right)



Bearings for traction motors and railway gearboxes

Traction motor bearings must demonstrate long service life, whereas gearbox bearings that operate under high speeds and loads, must endure shocks, vibrations and high temperatures. Equipped with engineering know-how and manufacturing expertise, NKE bearings for gearboxes and traction motors are usually produced with special specifications. (e.g. SQ1 for traction motors).

FERSAGROUP

NKE BEARINGS

A SPANISH-AUSTRIAN COMPANY

USA

Technical and sales offices
Logistics Center

SPAIN

Fersa Headquarters
Technology Center
Manufacturing plant
Logistics Center

AUSTRIA

NKE Headquarters
Technology Center
Manufacturing plant
Logistics Center

BRAZIL

Technical and sales offices
Logistics Center

CHINA - Shenyang

Technology Center
Manufacturing plant
Logistics Center

CHINA - Jiaxing

Technology Center
Manufacturing plant
Logistics Center

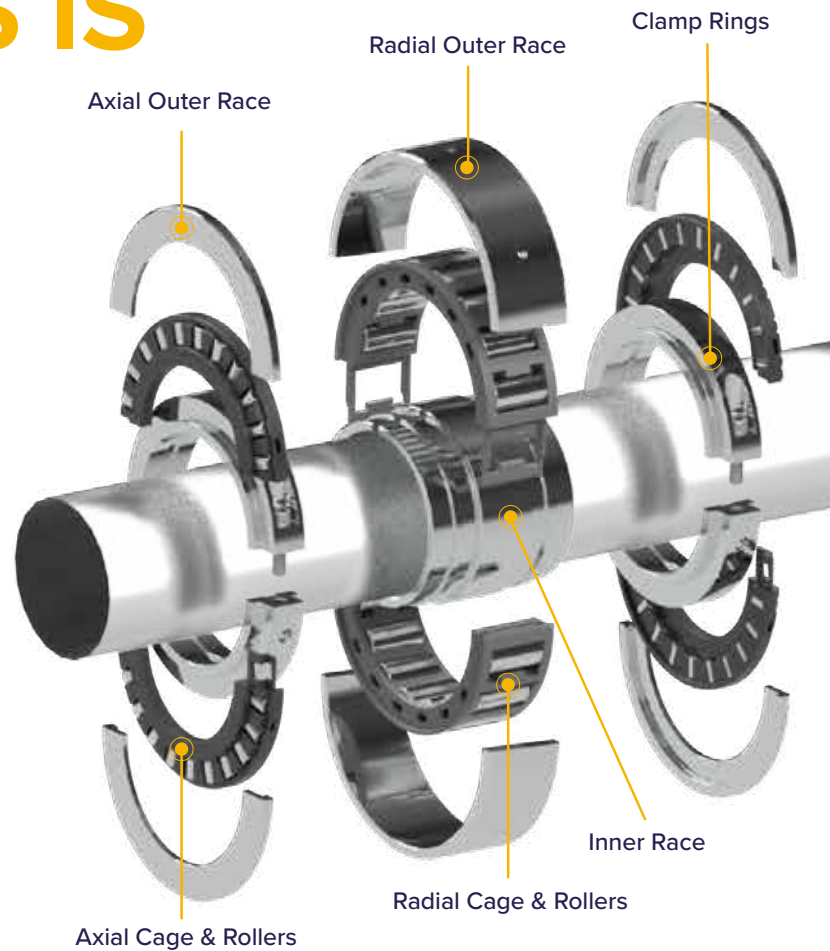
INDIA

Quality Center

THE FUTURE OF SPLIT BEARINGS IS HERE



2 Year Warranty
Parts and Labour

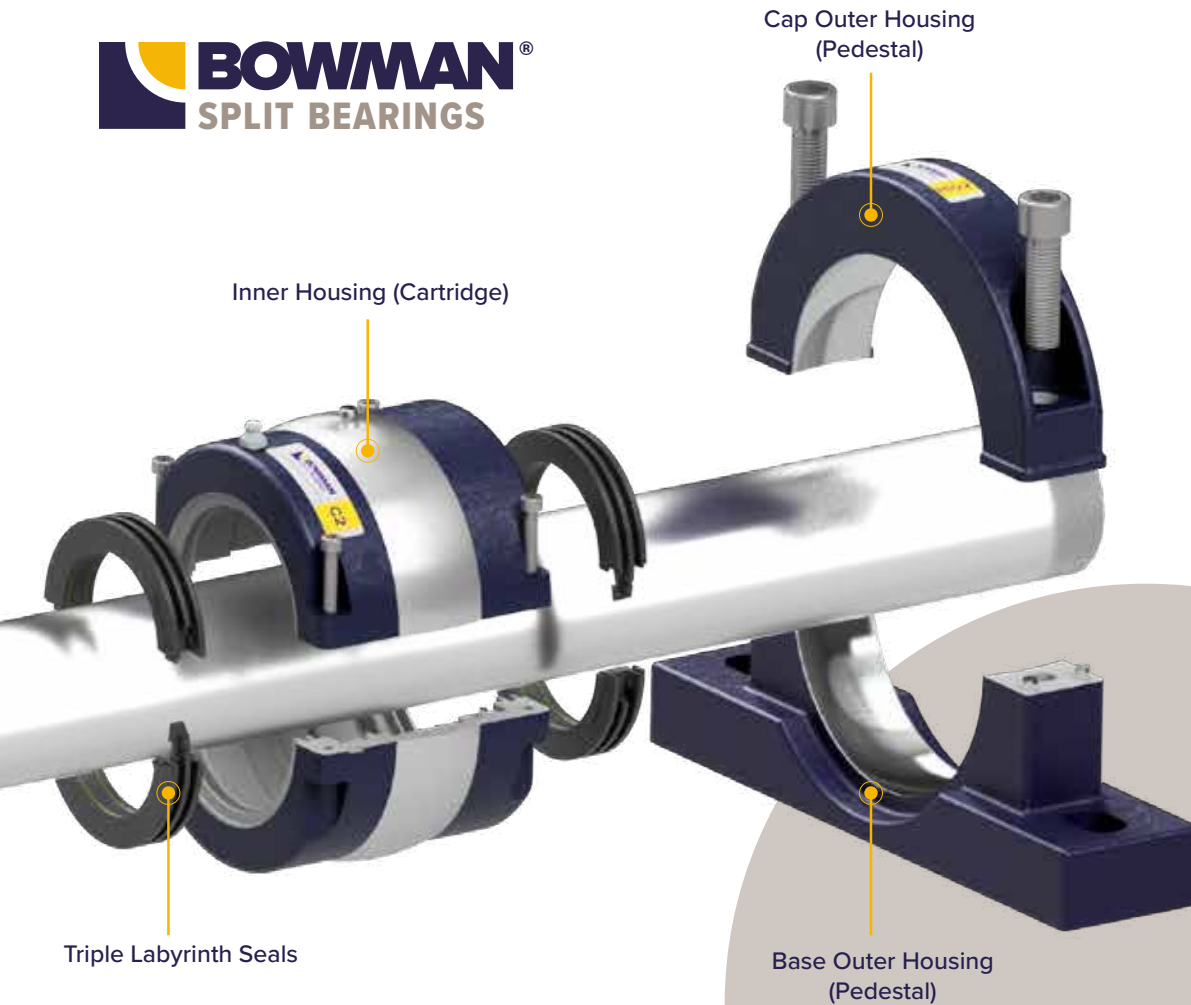


ADVANCED SPHERICAL SPLIT ROLLER BEARINGS

Dramatically Reduced Downtime

Advanced Spherical Split Roller Bearing kits drop directly into the existing SN, SAF, SNL and SD housings. This has revolutionised the replacement of industrial and marine units as it allows the bearings to be replaced without having to remove the shaft or surrounding equipment.

 Design and Manufactured in the UK



ADVANCED SPLIT ROLLER BEARINGS

Up to 75% Higher Radial Load Capacity and Up to a 1000% Increase in Axial Load Capacity in Both Directions

- ▶ Dramatically reduced downtime
- ▶ The axial bearing design enables calculation of L10 life
- ▶ Stronger ductile (SG) cartridges and pedestals as standard
- ▶ Direct interchange with existing manufacturers outer housing
- ▶ Different Mounting Options
- ▶ Metric and Imperial Sizes
- ▶ Adaptions of the design can be accomdated
- ▶ Special extended seals are available which overcome worn shafts



The industry standard

Oilite® has been acknowledged as the undisputed market leader in self-lubricating bearings for more than 80 years, and today sets the standard for other products with its quality and reliability.

The extensive technical knowledge and manufacturing resources behind Oilite® have resulted in a vast array of sophisticated, high quality components that are supplied to a wide range of industries, throughout the world.

Widest range in Europe

As well as being the UK's number one choice, Oilite® bearings are also produced for other EU markets and offer the widest choice of self-lubricating bearings anywhere in Europe. Standard stock ranges are available in metric and inch. To ensure that customers have the benefit of fast delivery, a large range of European sizes are always stocked.

- 1000 European standard sizes
- Stock holding for fast delivery

There are now five standard stock ranges, ISO Metric, Inch, DIN 1850, French Metric and Scandinavian Metric.

Bespoke products

Where customer requirements are not met by stock items, our bespoke service enables us to produce both bronze and iron bearings and customer specified structural parts that are specifically designed to meet individual requirements.

Manufacturing quality and efficiency

Our manufacturing facilities are highly automated for maximum efficiency and competitiveness. Rigorous quality control procedures are adopted at all stages of manufacture.

Custom Machining

We also specialise in machining Oilite® self-lubricating bearings and plates to meet individual specifications and tolerances. This service provides, for example, one-off requirements in machine maintenance or limited production runs in the OEM design field or for prototype testing before committing to tooling. Specialist tools and machining techniques are employed. This maintains the performance characteristics and physical properties which are the prerequisite of these components.

Certification

The company is certified to the Quality Management Systems requirement of ISO 9001:2008 by LRQA Certificate No. LRQ0960929 and is approved for use by:

- Augusta Westland
- Messier Dowty
- Hawker Beechcraft Corporation

Certificates of conformity & Certificates of material analysis are supplied by request.

Special Lubricants & Additives

The standard stock range of Oilite® bearings is impregnated with a mineral oil SAE 30 viscosity; all machined Oilite® bearings and plates are supplied fully impregnated after machining. A wide range of lubricants with varying temperature ranges are available to meet specific requirements. Lubricant additives are also available to impart anti-wear properties in marginal lubrication conditions such as stainless steel shaft applications.

Technical Advice

Extensive technical resources are available to resolve bearing problems. Engineers are always available to discuss projects in detail, without obligation.

Oilite® conforms to DIN 1850/ISO 2795

Oilite® metric bearings are manufactured to the tolerances set out in ISO 2795 - Plain Bearings from Sintered Material. The German stock range of bearings conform to DIN 1850.

Material Choice

Standard Oilite® - oil retaining tin bronze is the generally specified material. It gives a good balance between strength, wear resistance, conformability and durability in operation. Ideal in a wide variety of applications where "self lubricating" properties are required over a long period of time.

Super Oilite® - an iron copper material suited to high static loads and slow oscillatory motion.

Iron Oilite® - 100% iron oil-retaining bearings provide an ideal solution in high stress low revolution applications.

WMU® and W/MLF Self Lubricated Bearings WMX® Externally Lubricated Bearings



(Dimensions and tolerances to ISO 3547)

Stock range includes

- Metric plain
- Metric flanged
- Metric washers
- Metric strip
- Imperial plain
- Imperial washers
- Imperial strip*



(Dimensions and tolerances to ISO 3547)

Stock range includes

- Metric plain
- Metric washers
- Metric strip
- Imperial plain*
- Imperial washers*
- Imperial strip*

Structure	Steel support strip S.A.E 1010. Sintered Bronze layer. PTFE.
Static load	250 N/mm ²
Dynamic load	140 N/mm ²
Maximum sliding speed	2.5 m/s dry 5.0 m/s with oil
Operating temperature	-200°C to +280°C
Thermal conductivity	46 W/mK
Coefficient of friction	
W/MU Dry	0.02 to 0.20
W/MU Oiled	0.02 to 0.15
W/MLF Dry	0.04 to 0.30
W/MLF Oiled	0.02 to 0.10
Recommended housing tolerance	4.5mm/5.5mm H6 7.0mm/305mm H7
Recommended shaft tolerance	3.0mm/4.0mm h6 5.0mm/75mm f7 80mm/300mm h8
Recommended shaft finish	Ra ≤ 0.4um (N5)
Recommended shaft hardness	HB > 200

Structure	Steel support strip S.A.E 1010. Sintered Bronze layer. Co-Acetal polymer.
Static load	140 N/mm ²
Dynamic load	70 N/mm ²
Maximum sliding speed	2.5 m/s with grease
Operating temperature	-40°C to +110°C
Intermittent maximum temperature	130°C
Thermal conductivity	2W/mK
Coefficient of friction	0.05 to 0.12 with grease
Recommended housing tolerance	H7
Recommended shaft tolerance	h8
Recommended shaft finish	HB > 200
Recommended shaft hardness	HB > 200

W/MUB Bronze Support Strip instead of Steel

Has greater resistance to corrosion than standard W/MU product.

Range, dimensions and tolerances are as standard W/MU product.

Fitting Guidelines

1. Always use a fitting pin and fitting collar. See our fitting data sheet.
2. Lubricate back of bearing prior to assembly.
3. Chamfer lead in on housing to assist with assembly.



WMMX[®] Wrapped Imperial Plain. Acetal X Type

Reference	I.D. O.D.		Recommended Tolerances				Bearing Size when fitted		Oil hole	Standard Length Options (L)			
	Nominal		Housing		Shaft		Bore		Diameter	Tolerance +/- 0.010"			
	(inch)		(inch)				(inch)		(inch)	(inch)			
TFPI06TX x L	3/8	15/32	0.4694	0.4687	0.3648	0.3639	0.3694	0.3667	5/32	3/8	1/2	3/4	
TFPI07TX x L	7/16	17/32	0.5319	0.5312	0.4273	0.4263	0.4319	0.4292	5/32	1/2	3/4		
TFPI08TX x L	1/2	19/32	0.5944	0.5937	0.4897	0.4887	0.4944	0.4917	5/32	3/8	1/2	5/8	7/8
TFPI09TX x L	9/16	21/32	0.6569	0.6562	0.5522	0.5512	0.5569	0.5542	5/32	1/2	3/4		
TFPI10TX x L	5/8	23/32	0.7195	0.7187	0.6146	0.6136	0.6195	0.6167	5/32	1/2	3/8	3/4	7/8
TFPI11TX x L	11/16	25/32	0.7820	0.7812	0.6770	0.6760	0.6820	0.6792	5/32	7/8			
TFPI12TX x L	3/4	7/8	0.8758	0.8750	0.7390	0.7378	0.7444	0.7412	5/32	1/2	3/4	1	
TFPI14TX x L	7/8	1	1.0008	1.0000	0.8639	0.8627	0.8694	0.8662	1/4	3/4	7/8	1	
TFPI16TX x L	1	1 1/8	1.1258	1.1250	0.9888	0.9876	0.9944	0.9912	1/4	3/4	1	1 1/2	
TFPI18TX x L	1 1/8	1 9/32	1.2822	1.2812	1.1138	1.1126	1.1202	1.1164	1/4	3/4	1		
TFPI20TX x L	1 1/4	1 13/32	1.4072	1.4062	1.2387	1.2371	1.2452	1.2414	1/4	3/4	1	1 1/4	1 3/4
TFPI22TX x L	1 3/8	1 17/32	1.5322	1.5312	1.3635	1.3619	1.3702	1.3664	1/4	1	1 3/8	1 3/4	
TFPI24TX x L	1 1/2	1 21/32	1.6572	1.6562	1.4884	1.4868	1.4952	1.4914	5/16	1	1 1/4	1 1/2	2
TFPI26TX x L	1 5/8	1 25/32	1.7822	1.7812	1.6133	1.6117	1.6202	1.6164	5/16	1	1 1/2		
TFPI28TX x L	1 3/4	1 15/16	1.9385	1.9375	1.7393	1.7367	1.7461	1.7415	5/16	1	1 1/2	1 3/4	2
TFPI30TX x L	1 7/8	2 1/16	2.0637	2.0625	1.8632	1.8616	1.8713	1.8665	5/16	1	1 7/8	2 1/4	
TFPI32TX x L	2	2 1/16	2.1887	2.1875	1.9881	1.9863	1.9963	1.9915	5/16	1	1 1/2	2	2 1/2
TFPI36TX x L	2 1/4	2 7/16	2.4387	2.4375	2.2378	2.2360	2.2463	2.2415	5/16	2	2 1/4	2 1/2	
TFPI40TX x L	2 1/2	2 11/16	2.6887	2.6875	2.4875	2.4857	2.4963	2.4915	5/16	2	2 1/2		
TFPI44TX x L	2 3/4	2 15/16	2.9387	2.9395	2.7351	2.7333	2.7457	2.7393	5/16	2	2 1/2	3	3 1/2
TFPI48TX x L	3	3 3/16	3.1889	3.1875	3.9849	3.9831	2.9959	2.9893	3/8	2	3	3 3/4	
TFPI56TX x L	3 1/2	3 11/16	3.6889	3.6875	3.4844	3.4822	3.4959	3.4893	3/8	2 1/2	3	3 3/4	
TFPI64TX x L	4	4 3/16	4.1889	4.1872	4.9839	4.9817	3.9959	3.9893	3/8	3	3 3/4	4 3/4	

Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.



Lubricated Sliding Bearings



Oil or grease lubricated bearings. Carbon steel shell with sintered bronze layer with a co- acetal polymer layer. Available in metric and imperial sizes from stock.



Dry Sliding Bearings



Self lubricated plain & flanged bearings & strip. Carbon steel shell with sintered bronze layer filled with PTFE. Available in metric and imperial sizes from stock. Also bronze shell versions can be supplied to order.

White Metal Bearings



White metal bearings can be manufactured to order in various material grades.

Plastic Bearings Moulded & Machined



Available in metric sizes from stock. Can also be manufactured in many different types of plastic material to suit various applications. Machined for small quantities and moulded for large quantities.

Standard Wrapped Bearings



Oil or grease lubricated bearings. Carbon Steel shell with sintered bronze lining. Various metric and imperial sizes available from stock.



Ball Bearings



Ball bearings in chrome or stainless steel. ABEC 1, 3 or 5. With or without seals. Various ranges available from stock.

Machined Parts



Standard bearings modified. Custom shafts and bearings manufactured in cast bronze, plastic and other materials.

Cast Bronze Bearings with Solid Graphite Lubrication



Various material specifications are offered. Standard and special shapes are available.



Cast bronze bearings with solid graphite lubrication



All these bearings are made to order. Other shapes can be offered.

Graphite loaded bearings can withstand very high temperatures up to 425 °C (800 °F) as well as cryogenic temperatures down to -200°C (-400 °F) depending on the bronze material and graphite selected. This makes them ideal where conventional lubricants would carbonise. Please contact our technical department to ascertain which would be the most suitable combination to suit your application.

Typical applications are ovens, kilns, dryers, injection moulding machines, dust collectors, louvers and hot conveyors.

These bearings are also ideal in dry environments where contamination is undesirable. Typical applications would be printing, textile, and food machinery, as well as machines for making pills and cosmetic products.

They are also used extensively for wet applications where there is high humidity, or in submersed pumps, textile finishing machinery, lock gates, water turbines, chemical processing and plating applications.

This type of bearing is also useful where the bearings are in an inaccessible location, as they are lubricated for life.

Technical Data

Standard Material	Cu 65%, Zn 25%, Ai 6%, Mn 4%
Density	8 g/cm ³
Hardness	> 210 HB
Tensile Strength	750 N/mm ²
Elongation	> 12%
Linear Expansion	1.9 – 10 ⁻⁵ / °C
Max Temp	300 °C (570 °F)
Static Load	100 N/mm ²
Max Speed	15 m/s
PV	200 N/mm ² s m/s

Other cast bronze materials/specifications are available which can operate up to 425 °C.

Different shapes can be manufactured to suit customer requirements.

PULLERS

Bearing Removal Made Easy



With You

PULLER KIT FOR DEEP-GROOVE BALL BEARINGS



APPLICATION

Tool to extract deep groove ball bearings of 10-100mm bore from blind housings.

ADVANTAGES

Enables easy removal

Part Number:
TOOL BBPS 10-100 / Ball Bearing Puller Set



PULLER KITS FOR THE INTERNAL GRIPPING OF THE BORE OF A BEARING



APPLICATION

Tool to extract tightly fitted bearings from housings by pulling on the internal diameter. Range from 5-100mm

ADVANTAGES

Comprehensive range of Pullers adjustable to suit your application. Two sets (5-44mm) and (45-100mm)

Part Number:
TOOL BP Set 5-44 / Bore Puller Set
TOOL BP Set 45-100 / Bore Puller Set



SELF-CENTRING HYDRAULIC PULLERS 2/3 ARMS SELF-CENTRING HYDRAULIC PULLERS



APPLICATION

Tools to enable the extraction of large bearings and other components with an interference fit such as pulleys and gears. Maximum outside diameters ranging from 325 to 680mm.

ADVANTAGES

Sturdy, compact self-centering pullers with hydraulic assistance to enable dismantling with minimum effort. Convertable from 3 leg to 2 leg.

Part Number:
TOOL SCHP 4TONS / Self-Center hyd Puller
> also available in: 12.20 and 30 TONS



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Contact your local branch for full details on our range of products including those not listed in our catalogue.