Self-Lube[®]- housed bearing units

Spherical seating to allow for Below is a pillow block unit, but NSK initial misalignment on mounting. offer a wide range of housed bearing units with various sealing options to suit the bearing application. One piece Nylon 66 cage as standard. Metal cage available for extremes of temperature. Re-lubrication facility as standard. Set screw shaft locking. "S" Lock, eccentric collar and taper sleeve lock also available as standard. Proven single lip seal. Triple lip seals and flingers also available. PROTECT

> Inner and outer rings through hardened, high quality steel.

Rigid one piece high quality cast iron housing.

'Protector' for added bearing protection and safety. Fits standard units.

Dowel pin positions.







EUROPEAN SALES OFFICES

UNITED KINGDOM

NSK UK LTD., EUROPEAN BEARING BUSINESS UNIT, NORTHERN ROAD, NEWARK, NOTTINGHAMSHIRE NG24 2JF, ENGLAND. TEL: 01636 605123 FAX: 01636 605000 E-MAIL: info-uk@nsk.com www.nskbearings.com

GERMANY

NSK DEUTSCHLAND GMBH, HAUPTVERWALTUNG, HARKORTSTRASSE 15, 40880 RATINGEN, DEUTSCHLAND. TEL: 0 2102 4810 FAX: 0 2102 4812290 E-MAIL: info-de@nsk.com

ITALY

NSK ITALIA S.P.A., VIA GARIBALDI, 215 C.P.103 20024 GARBAGNATE, MILANESE (MILANO), ITALIA. TEL: (02) 995 191 FAX: (02) 9902 5778 – 9902 8373 E-MAIL: info-it@nsk.com

SPAIN

NSK SPAIN, S.A. SOCIEDAD UNILATERAL, CALLE DE LA HIDRÁULICAS, 5, POLÍGONO INDUSTRIAL 'LA FERRERIA', 08110 MONTCADA I REIXAC, BARCELONA, ESPAÑIA. TEL: (93) 575 4041 FAX: (93) 575 0520 E-MAIL: info-es@nsk.com

FRANCE

NSK FRANCE S.A., QUARTIER DE L'EUROPE, 2 RUE GEORGES GUYNEMER, 78283 GUYANCOURT CEDEX, FRANCE. TEL: (01) 30 57 39 39 FAX: (01) 30 57 00 01 E-MAIL: info-fr@nsk.com

POLAND

NSK EUROPE LTD., WARSAW LIAISON OFFICE, ODDZIAL w WARSZAWIE, UL. MIGDALOWA 4 LOK. 73, 02-796 WARSAW, POLAND. TEL: 48 22 645 1525 FAX: 48 22 645 1529

TURKEY

NSK RULMANLARI ORTA DOĞU TIC. LTD. ŞTI. YALI MAH. FEVZI CAKMAK CAD., CAGLAR APT. NO 11/4, MALTEPE, ISTANBUL, 81530, TURKEY. TEL: +90 216 442 7106 FAX: +90 216 305 5505

www.nskbearings.com

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NSK CORPORATION.

3861 RESEARCH PARK DRIVE, PO BOX 1507, ANN ARBOR, M1 48108. TEL: 734 761 9500/800 366 7471 FAX: 734 761 9510

NSK LATIN AMERICA INC.

2500 NW 107 AVENUE, SUITE 300, MIAMI, FLORIDA 33172, USA. TEL: 305 261 7824 FAX: 305 261 6246

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RHP bearings Guide to RHP Self-Lube[®] bearings

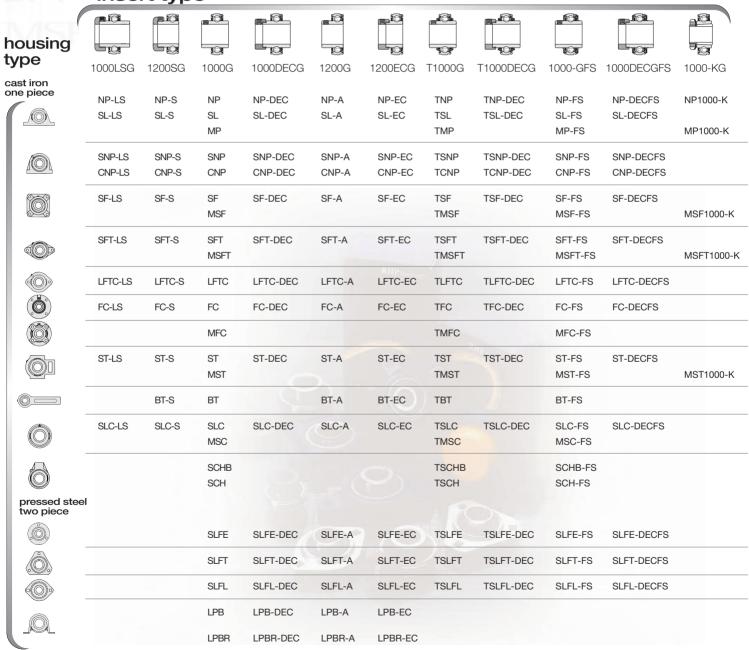


This leaflet introduces the RHP Self-Lube[®] range of mounted bearing units and wide inner ring bearings. Full technical details are available in our separate catalogue, 'RHP Self-Lube[®] Bearings'.

Self-Lube[®] units provide simple and effective bearing arrangements capable of accomodating moderate initial misalignment from mounting errors. The range of inserts and housings cover a wide variety of styles, heavy or light applications and metric or inch sizes.

The reliability, simplicity and ease of assembly of items in the Self-Lube[®] range has resulted in their popularity for applications such as process and automation equipment, extraction, agricultural and construction machinery.

A corrosion resistant range of bearings and housings, the RHP Silver-Lube[®] is available for applications where frequent thorough washdowns are necessary, optimum hygiene standards are required and good chemical resistance is important. Details of these are covered in our separate brochure RHP Silver-Lube[®] Corrosion Resistant Bearing Units.







200

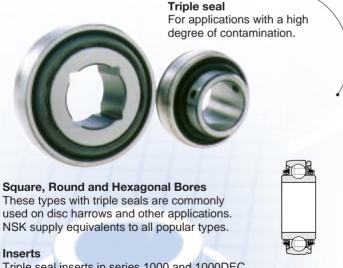


pillow	/ blocks			flang	e units		
	cast iron, one	e piece		SF MSF	cast iron, one pi		0
			ZE RANGE				ZE RANGE
NP series	Normal duty	BORE SIZ	ZE RANGE	SF series	Normal duty	BORE SI 12-75 mm	ZE RANGE
NP series SL series	Normal duty Low centre height			SF series MSF series			
		12-90 mm	¹ / ₂ -3 ¹ / ₂ in			12-75 mm	1/2 -3 in
SL series	Low centre height	12-90 mm 12-75 mm	¹ / ₂ -3 ¹ / ₂ in			12-75 mm 25-100 mm	1/2 -3 in
SL series MP series	Low centre height Heavier duty SNP CNP	12-90 mm 12-75 mm 25-100 mm	¹ / ₂ -3 ¹ / ₂ in ¹ / ₂ -2 ¹⁵ / ₁₆ in 1-4 in		Heavier duty	12-75 mm 25-100 mm	1/2 -3 in
SL series MP series	Low centre height Heavier duty SNP CNP Metric thread	12-90 mm 12-75 mm	¹ / ₂ -3 ¹ / ₂ in ¹ / ₂ -2 ¹⁵ / ₁₆ in 1-4 in ³ / ₄ -2 ⁷ / ₁₆ in	MSF series	Heavier duty	12-75 mm 25-100 mm	1/2 -3 in
SL series MP series	Low centre height Heavier duty SNP CNP Metric thread	12-90 mm 12-75 mm 25-100 mm	¹ / ₂ -3 ¹ / ₂ in ¹ / ₂ -2 ¹⁵ / ₁₆ in 1-4 in	MSF series	Heavier duty FC OF MF Normal duty, METRIC SPIGOT	12-75 mm 25-100 mm =C	¹ / ₂ -3 in 1-4 in
SL series MP series	Low centre height Heavier duty SNP CNP Metric thread	12-90 mm 12-75 mm 25-100 mm 20-60 mm	¹ / ₂ -3 ¹ / ₂ in ¹ / ₂ -2 ¹⁵ / ₁₆ in 1-4 in ³ / ₄ -2 ⁷ / ₁₆ in	MSF series	Heavier duty FC OF MF Normal duty, METRIC SPIGOT	12-75 mm 25-100 mm =C	¹ / ₂ -3 in 1-4 in

inserts with triple lip seals

NP

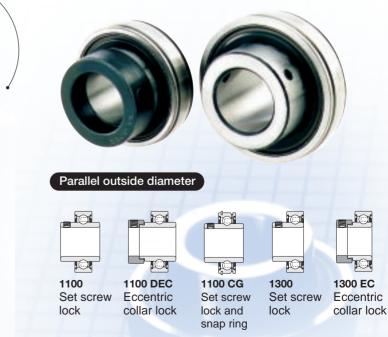
SNF CNF



Triple seal inserts in series 1000 and 1000DEC are available in bearing groups 1025, 1030, 1035, 1040, 1045, 1050, 1055, 1060, 1070 and 1080.

They can be fitted into the housings shown in this guide and are designated with a prefix 'T'. e.g. T1040-40G = insert only e.g. TNP40 = complete unit

inserts with single lip seals





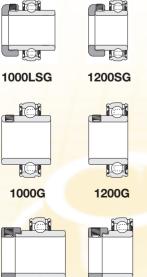
_ube[®]- the quality proc



inserts with single lip seals

Spherical outside diameter

Suitable for use with most housing types.







Integral set screw lock.

Eccentric collar lock.

inserts HLT



HLT inserts

HLT Self-Lube[®] inserts are designed to operate reliably at extreme temperatures, with upper and lower limits of +180^oC and -40^oC.

High performance grease Effective lubrication at extreme temperatures.

Efficient sealing and protection New durable silicone seal to proven 'S' type design up to 40 mm shafts, above this shaft size the 'M' type seal is used.

Special internal features Designed to function at temperature extremes.

1000DECG

1200ECG



duct with the widest c

other units

Special cast iron housings can also be produced for particular applications.



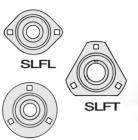


SLC MSC

cast iron, one piece

		BORES	SIZE RANGE
SLC series	Normal duty	12-65 mm	¹ / ₂ -2 ¹ / ₂ in
MSC series	Heavier duty	25-100mm	1-4 in
so so	CHB SCH		
SCHB series	Normal duty BSP thread	20-80 mm	³ / ₄ -3 ³ / ₁₆ in
SCH series	Normal duty Metric thread	20-80 mm	³ / ₄ -3 ³ / ₁₆ in

pressed steel units





SLFE

Two piece, zinc plated

		BORE SIZE RANGE		
SLFE series	Light duty	12-60 mm	1/2-27/16 in	
SLFT series	Light duty	25-35 mm	$^{7}/_{8}$ -1 $^{7}/_{16}$ in	
SLFL series	Light duty	12-40 mm	¹ / ₂ -1 ¹ / ₂ in	



LPB series	Light duty	12-35 mm	¹ /2 -1 ⁷ /16 in
LPBR series	Light duty	12-30 mm	¹ / ₂ -1 ¹ / ₄ in

The LPBR series has a rubber seating ring between the insert and housing, and is suitable for light applications where noise and vibration are present.

locking types



"S" Lock

The new RHP "S" Lock shaft locking arrangement is for use with Self-Lube[®] mounted bearing units and inserts, where Simple, Secure and Safe locking is required. The arrangement consists of a concentric collar fitted with two set screws, which contact the inner ring diameter when tightened. This action causes the collar and inner ring to move in opposite radial directions to lock the whole bearing assembly securely to the shaft.

The "S" Lock is designed as an alternative to the 'eccentric collar' type for the series 1200ECG and 1000DECG.

Set screw lock

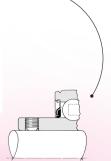
This simple locking system is suitable for most applications except where vibration is a problem. The locking arrangement consists of two knurled-cup point set screws fitted in the extended inner ring. These set screws are tightened down onto the shaft.

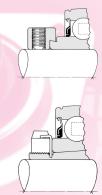
Eccentric collar lock

This locking system is often used when vibration is a problem. The locking arrangement consists of an eccentric diameter formed on the extended inner ring of the bearing which engages an eccentric diameter in the bore of a separate collar. The collar is then locked in position on the shaft with a knurled cup-point set screw.

Taper sleeve lock

This locking system is recommended when a positive concentric lock is required or when heavy vibration and/or shock load is present. The locking arrangement consists of a standard taper adaptor sleeve, locknut and lock washer (H300 series).





noice

seal types



Single lip seal (standard)

The 'S' type seal, has a moulded nitrile lip bonded to a strong steel pressing secured in the bearing outer ring.

For extremes of temperature, +180^oC to -40^oC, silicon seals made to the proven 'S' type design are available.

Single lip seal plus flinger seal

The 'Flinger Seal' has a nitrile moulded lip bonded to a steel former, which is pressed onto the bearing inner ring. This 'extra seal' gives added protection to the standard single lip seal to extend bearing life in arduous conditions without any loss in speed capability.





Single lip seal (above 40 mm shaft size)

The 'M' type seal consists of a nitrile fabric sealing element sandwiched between two metal pressings. This has been successfully proven over the years in a wide variety applications.

Triple lip seal

This seal is recommended where a high degree of contamination is present and consists of one piece nitrile moulding with three sealing lips bonded to a steel pressing. When secured in the outer ring it makes a highly efficient sealing arrangement. There is a restricted speed rating with this seal type.



cage types

Nylon cage

A one-piece high density injection moulded nylon 66 cage is fitted as standard. This specially developed cage has proved its reliability in a wide range of challenging applications throughout the world.

Bearing temperature limits are: HIGH +110°C LOW -20°C

Steel cage

Pressed steel cages are fitted to bearing inserts required to operate at extremes of temperature.

Bearing temperature limits are: HIGH +180°C LOW -40°C

protector

Self-Lube[®] Protector

The Self-Lube[®] Protector has been designed to protect the machine operator from the dangers of rotating shaft ends. It also provides additional protection to the bearing from contamination.

The Protector is made from mild steel coated with enamel for an attractive durable appearance.

The Protector fits easily and securely to most standard cast Self-Lube[®] units. It is difficult to dislodge. It can be removed without damage and refitted again and again. No special bearings or additional securing devices are required.

Protectors are available for bearing groups 1020, 1025, 1030, 1035, 1040, 1045, 1050, 1055 and 1060.



