



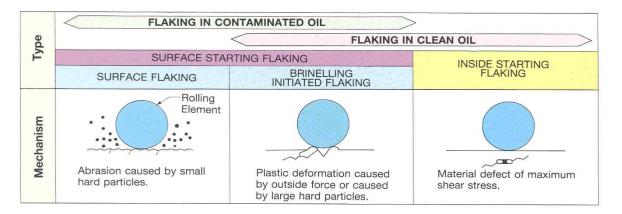
KOYO HIGH PERFORMANCE BEARING

KOYO SER

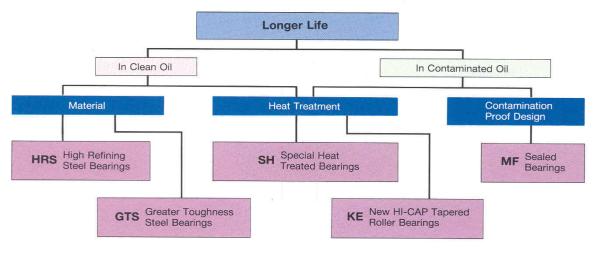
Koyo High Performance Bearings through new technology provide significantly longer bearing life and lower friction and improve various characteristics with minimum cost.

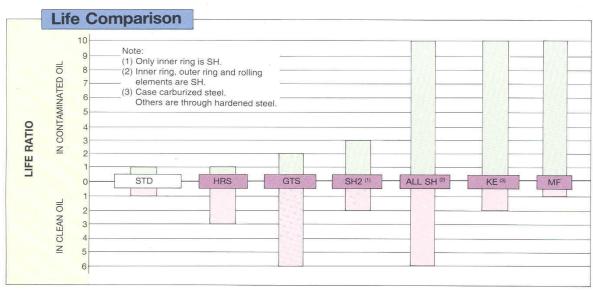
Improvement of Bearing Life

1-1 Mechanism of Flaking



1-2 Koyo Longer Life Bearings





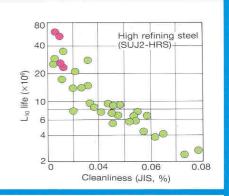


1-3 Characteristics

HRS

High Refining Steel Bearings

- Bearing life is increased to 3 time longer, being resulted by significant reduction of non-metallic inclusions which is accomplished by minimizing the impurity elements such as Oxygen, Titanium and Sulfur.
- Longer life can provide size reduction in the same application, which results weight saving and compacting the equipment. The bearing weight saving will be 30~40%.



GTS

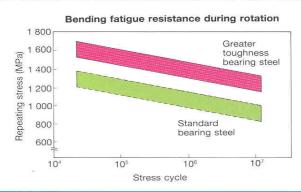
Greater Toughness Steel Bearings

Properties

Compound addition of Ni and Si, improves parent phase and annealing resistance.

Occurrence and progress of cracking are restrained.

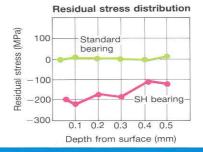
Rolling service life is extended.

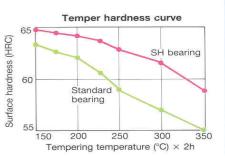


SH*

Special Heat Treated Bearings

- High residual compressive stress.
- 2) High hardness
- 3) High tempering resistance





KF*

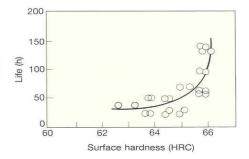
New HI-CAP Tapered Roller Bearings

HIGHER SURFACE HARDNESS

- Reduce plastic deformation
- Improve wear resistance

OPTIMIZED RETAINED AUSTENITE

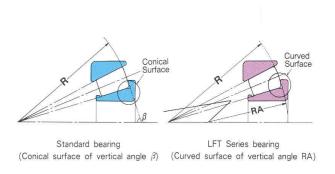
- Early disappearance of plastic deformation
- Slow down crack growth

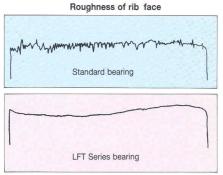


^{*}Especially recommended to use for T/M and axles.

Low Friction Tapered Roller Bearings 2-1 Features of LFT

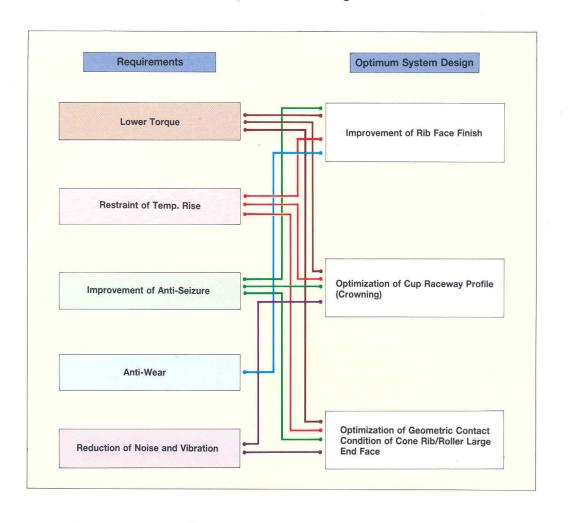
High performance tapered roller bearings attained by the improvement of the roughness and geometry of the cone back face rib through quite a new manufacturing method.





2-2 Koyo New LFT

Koyo New LFT Bearings with optimum system design are particularly advantageous in applications of powertrain such as automotive transmissions, axles and other gear drives.

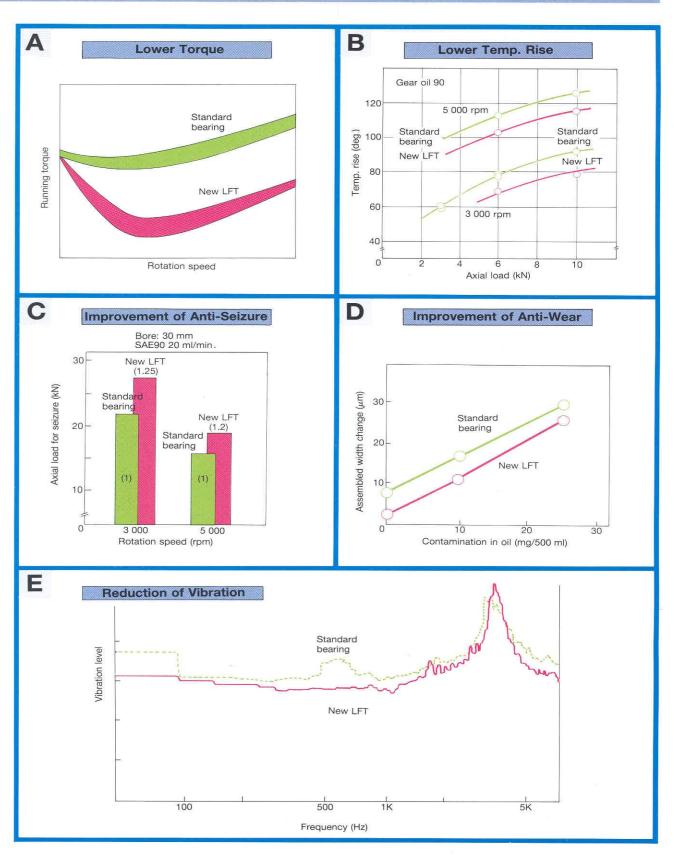


New LFT

Koyo

2-3 Advantages

Examples of TRB





INTERNATIONAL NETWORK

KOYO SEIKO CO., LTD. HEAD OFFICE

No. 5-8, Minamisemba 3-chome, Chuo-ku, Osaka 542-8502, JAPAN TEL : 81-6-245-6087 FAX: 81-6-244-0814 TLX : 63040 (KOYO OSJ)

KOYO CANADA INC.

5324 South Service Road, Burlington, Ontario L7L 5H5, CANADA TEL: 1-905-681-1121 FAX: 1-905-681-1392

**KOYO CORPORATION OF U.S.A.

29570 Clemens Road, Westlake, OH 44145, U.S.A. TEL: 1-440-835-1000 FAX: 1-440-835-9211 TLX: 0985461 (AMKOY RKVR)

** KOYO CORPORATION OF U.S.A. (AUTO SALES & TECHNICAL CENTER)

47771 Halyard Drive, Plymouth, MI 48170, U.S.A. TEL: 1-734-454-1500 FAX: 1-734-454-4076

KOYO DE MÉXICO, S.A.

Av. Primero de Mayo No. 153, 53500 Naucalpan Edo. de México, MEXICO TEL: 52-5368-0214, 0077 FAX: 52-5-576-8827, 8871

KOYO LATIN AMERICA, S.A.

P.O.Box 6-1797, El Dorado, Panama, PANAMA TEL: 507-264-0977, 0921 FAX: 507-264-2782, 269-7578

KOYO ROLAMENTOS DO BRASIL LTDA.

Av. Paulista, 1439, 7 And. Conj. 71, Sao Paulo-SP, BRASIL TEL: 55-11-287-4644, 4506, 4397 FAX: 55-11-288-3237

THAI KOYO CO., LTD.

193/53 Lake Rajada Office Complex, 14th Floor Unit B, Rachadapisek Road, Klongtoey, Bangkok 10110, THAILAND TEL: 66-2-264-0395, 66-2-661-9603 - 5 FAX: 66-2-661-9606

KOYO SINGAPORE BEARING (PTE.) LTD.

38 Tuas West Road, Singapore 638385, SINGAPORE TEL: 65-274-2200 FAX: 65-862-1623

PHILIPPINE KOYO BEARING CORPORATION

Room 504, Comfoods Building Gil Puyat Ave. Cor., & Pasong Tamo St. Makati City, Metro Manila, PHILIPPINES TEL: 63-2-817-8901, 8881 FAX: 63-2-867-3148

KOYO SEIKO CO., LTD. SEOUL BRANCH

Inwoo Building 6F, 539-11, Shinsa-Dong, Kangnam-ku, Seoul, KOREA TEL: 82-2-549-7922 FAX: 82-2-549-7923

KOYO SEIKO CO., LTD. BEIJING LIAISON OFFICE

Peace Hotel Room 2804 No.3 Jin Yu Hu Tong Wang Fu Jing, Beijing, CHINA TEL: 86-10-6512-5573,9401 FAX: 86-10-6512-5674

KOYO AUSTRALIA PTY. LTD.

P.O.Box 442, Rydalmere, 2116 N.S.W., AUSTRALIA TEL: 61-2-9638-2355 FAX: 61-2-9638-3368

KOYO SEIKO CO., LTD. EUROPEAN CENTRAL OFFICE

Markerkant 13-01, 1314 AL, Almere, THE NETHERLANDS TEL: 31-36-5383333 FAX: 31-36-5347212

KOYO KULLAGER SCANDINAVIA A.B.

Kanalvägen 1B, 194 61 Upplands-Väsby, SWEDEN TEL: 46-8-590-341-85 FAX: 46-3-590-309-69

*KOYO (U.K.) LIMITED

Whitehall Avenue, Kingston, Milton Keynes MK10 OAX UNITED KINGDOM TEL: 44-1908-289300 FAX: 44-1908-289333

EUROPA-KOYO B.V.

P.O.Box 1-2965 ZG, Nienwpoart, THE NETHERLANDS TEL: 31-184-606800, 606857 FAX: 31-184-602572

KOYO DEUTSCHLAND GMBH.

P.O.Box 73 06 60, D-22126 Hamburg, GERMANY TEL: 49-40-67-9090-0 FAX: 49-40-67-9203-0 TLX: 213138 (KOYO D)

KOYO FRANCE S.A.

8 Rue Guy Moquet, B.P.189 Z.I.95105 Argenteuil Cedex, FRANCE TEL: 33-1-3998-4222 FAX: 33-1-3998-4244

KOYO ESPAÑOLA, S.A.

Calle Aramayona S/N, Naves 1 y 2 Poligono Industrial "Las Mercedes", 28022 Madrid, SPAIN TEL: 34-91-329-0818 FAX: 34-91-747-1194

KOYO ITALIA S.R.L.

Via Bronzino 9, 20133 Milano, ITALY TEL: 39-02-2951-0844 FAX: 39-02-2951-0954



KOYO SEIKO CO., LTD. (Japan) is certified to ISO 9001 and QS-9000.

© QS-9000 certified.