

AIP – ADDED VALUE PROGRAMME

INCREASE YOUR PROFITABILITY AND RELIABILITY



As one of the world's leading manufacturers of rolling bearings, linear technology components and steering systems, we can be found on almost every continent – with production facilities, sales offices and technology centres – because our customers appreciate short decision-making channels, prompt deliveries and local service.



The NSK company

NSK commenced operations as the first Japanese manufacturer of rolling bearings back in 1916. Ever since, we have been continuously expanding and improving not only our product portfolio but also our range of services for various industrial sectors. In this context, we develop technologies in the fields of rolling bearings, linear systems, components for the automotive industry and mechatronic systems. Our research and production facilities in Europe, The Americas and Asia are linked together in a

global technology network. Here we concentrate not only on the development of new technologies, but also on the continuous optimisation of quality – at every process stage.

Among other things, our research activities include product design, simulation applications using a variety of analytical systems and the development of different steels and lubricants for rolling bearings.

Added Value Programme – designed to increase your efficiency



NSK created its AIP programme to identify additional value for the customer

It unites our core competencies – almost 100 years of global expertise in engineering and high quality bearing solutions – in order to increase the efficiency and profitability of our partners. Through our comprehensive range of services, we can support you in identifying technical problems and work together with your team to find solutions for optimising ongoing operations and maintenance processes. Final checks verify and value the results to ensure that you achieve the desired benefits. By applying our AIP approach, you can save money and time whilst increasing efficiency.



Beyond the bearing

Determining the most efficient application of bearing solutions is a complex task. This continual improvement process follows formalised procedures defined in the AIP Value Cycle, which includes our wide range of added value services, the AIP Service Offering.

AIP Value Cycle – strictly customer-centric

The AIP Value Cycle is our formalised procedure to support the initial evaluation of your processes in order to offer the best possible solution from our service and product portfolio. The AIP Value Cycle is based on many years of experience working in partnership with our customers and helping them to solve their problems.



The AIP Service Offering – tailored to your needs

Besides our extensive product portfolio, NSK also offers a comprehensive range of added value services. Based on the results of the AIP Value Cycle approach we select the optimum tailored solution for your needs.



- › Stores Survey
- › Workshop Survey
- › Process Map
- › Bearing Cross Referencing



- › Application Reviews
- › Machine Design Support
- › OEM Part Conversion
- › Diagnostics



- › Product Training
- › Application of NSK Bearings
- › AIP Training
- › Industry Specific Training



- › Bearing Condition Analysis
- › Failed Bearing Analysis
- › Lubrication Analysis
- › Material & Dimensional Analysis

Surveys: a closer look



Sometimes customers have inherent problems that go undetected for years, driving up costs and reducing profitability. That's why we take a close look at your manufacturing processes, working practices and storage. We deliver a comprehensive review which highlights opportunities for improvement.

Service

Benefits

Stores Survey

- › Documented reviews
- › Bearing Condition Assessment
- › Recommended Best Practice
- › Consolidation of stock

Workshop Survey

- › Documented assessment
- › Certificated standard for bearings
- › Continuous improvement recommendation
- › Best Practice examples

Process Map

- › Documented survey of production line from start to finish
- › Bearing Condition Assessment
- › Documented report with photographic records
- › Identification of critical bearing problems

Bearing Cross Referencing

- › NSK equivalent listings
- › Alternative products offered to improve performance
- › Alternative products offered to improve delivery
- › Replacement of obsolete parts



Selection: the perfect pairing



We collect data on your operations and the condition of your machines so that we can recommend the optimum bearing solution for you. The data is then analysed to produce the best bearing recommendation, information on machine component design, available part numbers and running conditions.

Service

Benefits

Application Reviews

- › Assessment of bearing condition
- › Selection of optimum bearing design
- › Lifetime calculations
- › Set up recommendations

Machine Design Support

- › Review of machine design
- › Recommended improvements for increased bearing performance
- › Preparation of drawings and data for housing and shaft fits
- › Documented technical report

OEM Part Conversion

- › Bearing replacement recommendations
- › Improved availability of bearing spares
- › Reduced inventory costs
- › Improved performance options

Diagnostics

- › Bearing running conditions
- › Early failure identification
- › Machine condition assessment
- › Engineering advice (performance, highlighting problems)



Training: improving your capabilities



We offer a complete range of training to support your team and make sure you achieve optimum performance – and genuine Total Cost of Ownership (TCO) savings – from our bearings in your machinery. NSK will assess your training needs and create a tailored programme to ensure your team develops the expertise required.

Service

Benefits

Product Training

- › Efficient online course
- › Perfect way to gain basic product knowledge
- › Enhances productivity (better skills in usage of Bearing Part Numbering, Problem Solver Bearings)

Application of NSK Bearings

- › Improved understanding of bearings in applications
- › Appreciation of Best Practice fitting of bearings
- › Improved knowledge of bearing failure modes
- › Understanding of bearing accuracy and its effects on bearing performance

AIP Training

- › Improves plant performance and profit
- › Structured and logical approach to solving bearing problems
- › Greater awareness of opportunities for continuous improvements
- › Genuine TCO savings

Industry Specific Training

- › Tailored training focussing on common industry applications, issues, equipment types and industry challenges
- › Examples of NSK solutions for specific industry sectors



Inspection: ready to improve



Many factors affect bearing performance. NSK analyses of used and failed bearings to identify the root cause of problems and makes recommendations for improving both the machine condition and the correct selection of bearings.

Service

Benefits



Bearing Condition Analysis

- › Visual and tactile test results
- › Early wear indication
- › Non destructive tests
- › Fully documented report

Failed Bearing Analysis

- › Full investigation into failure root cause
- › Problem solving solutions
- › Detailed engineering explanation
- › Fully documented report

Lubrication Analysis

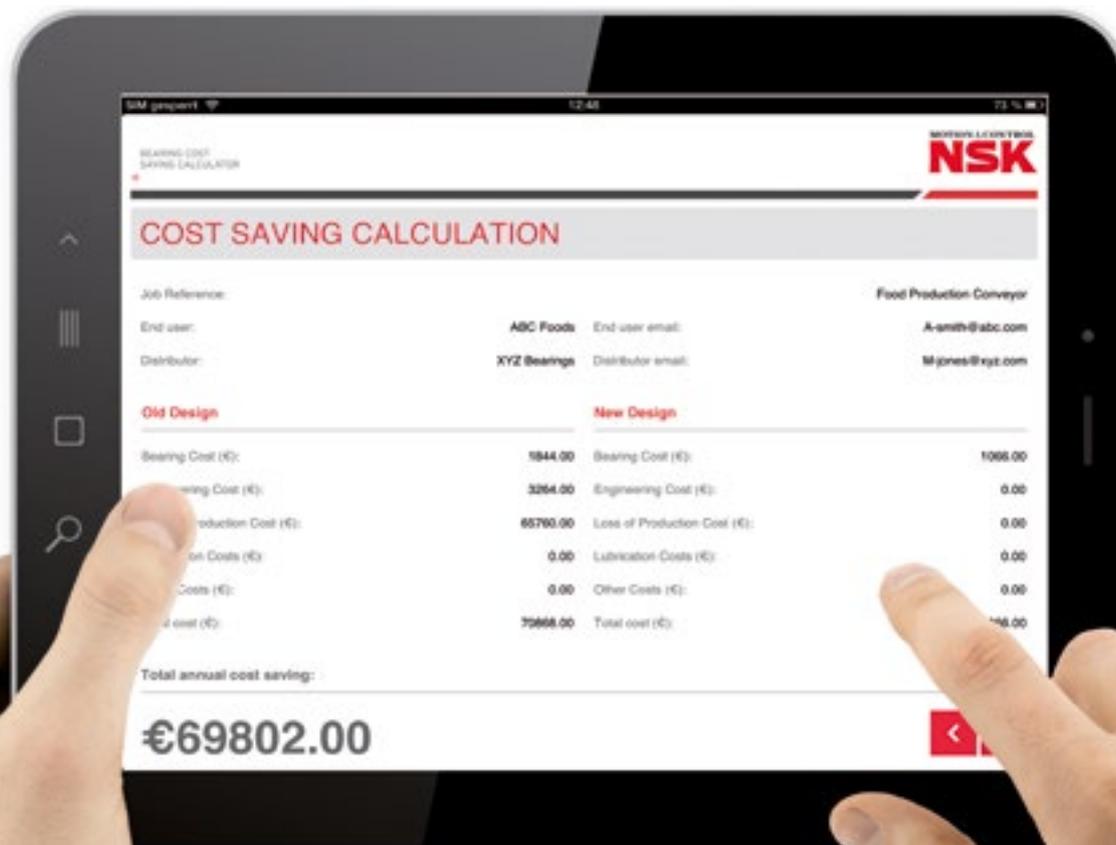
- › Lubrication identification
- › Water contamination indicators
- › Particle contamination indication
- › Lubrication condition report
- › Investigation into failure root cause

Material & Dimensional Analysis

- › Metallurgical examination
- › Failure initiation identification
- › Dimensional analysis
- › Investigation into failure root cause

Savings at your fingertips

Changing a bearing design can result in huge savings. We measure these for you. Elimination of downtime and production losses generates the biggest cost reductions. We dig deep to propose the perfect solution to you, always on a TCO and ROI basis, which we then illustrate with our specially designed NSK app. It allows our engineers to collect data directly at your facility and give you an instant savings estimate for a new design.



NSK Sales Offices – Europe, Middle East and Africa

UK

NSK UK Ltd.
Northern Road, Newark
Nottinghamshire NG24 2JF
Tel. +44 (0) 1636 605123
Fax +44 (0) 1636 643276
info-uk@nsk.com

France

NSK France S.A.S.
Quartier de l'Europe
2, rue Georges Guynemer
78283 Guyancourt Cedex
Tel. +33 (0) 1 30573939
Fax +33 (0) 1 30570001
info-fr@nsk.com

Germany, Austria, Switzerland, Benelux, Nordic

NSK Deutschland GmbH
Harkortstraße 15
40880 Ratingen
Tel. +49 (0) 2102 4810
Fax +49 (0) 2102 4812290
info-de@nsk.com

Italy

NSK Italia S.p.A.
Via Garibaldi, 215
20024 Garbagnate
Milanese (MI)
Tel. +39 02 995 191
Fax +39 02 990 25 778
info-it@nsk.com

Middle East

NSK Bearings Gulf Trading Co.
JAFZA View 19, Floor 24 Office 2/3
Jebel Ali Downtown,
PO Box 262163
Dubai, UAE
Tel. +971 (0) 4 804 8205
Fax +971 (0) 4 884 7227
info-me@nsk.com

Poland & CEE

NSK Polska Sp. z o.o.
Warsaw Branch
Ul. Migdałowa 4/73
02-796 Warszawa
Tel. +48 22 645 15 25
Fax +48 22 645 15 29
info-pl@nsk.com

Russia

NSK Polska Sp. z o.o.
Russian Branch
Office 1 703, Bldg 29,
18th Line of Vasilievskiy Ostrov,
Saint-Petersburg, 199178
Tel. +7 812 3325071
Fax +7 812 3325072
info-ru@nsk.com

South Africa

NSK South Africa (Pty) Ltd.
27 Galaxy Avenue
Linbro Business Park
Sandton 2146
Tel. +27 (011) 458 3600
Fax +27 (011) 458 3608
nsk-sa@nsk.com

Spain

NSK Spain, S.A.
C/ Tarragona, 161 Cuerdo Bajo
2ª Planta, 08014 Barcelona
Tel. +34 93 2892763
Fax +34 93 4335776
info-es@nsk.com

Turkey

NSK Rulmanları Orta Doğu Tic. Ltd. Şti
19 Mayıs Mah. Atatürk Cad.
Ulya Engin İş Merkezi No: 68/3 Kat. 6
P.K.: 34736 - Kozyatağı - İstanbul
Tel. +90 216 4777111
Fax +90 216 4777174
turkey@nsk.com

Please also visit our website: www.nskeurope.com
Global NSK: www.nsk.com

