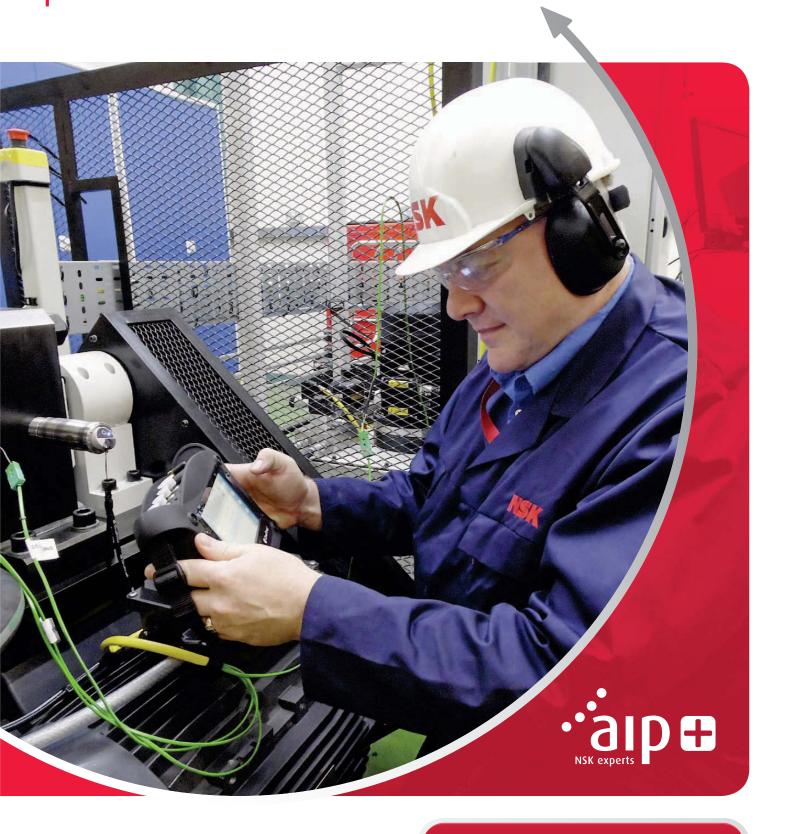
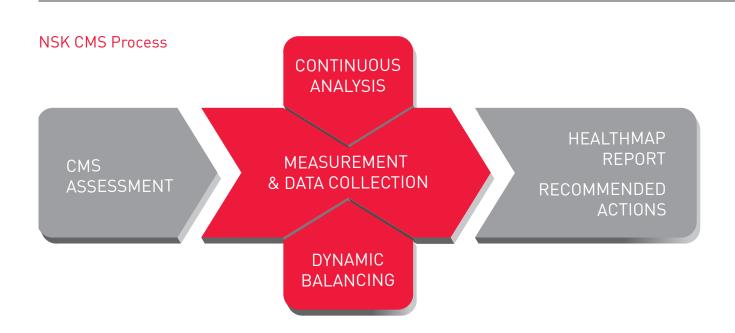


CONDITION MONITORING INCREASE THE UPTIME OF YOUR MACHINES



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NSK's Condition Monitoring Services (CMS)



NSK employs a consistent process to its Condition Monitoring Service. This ensures that all equipment is assessed for suitability to ensure that CMS results will give you the maximum benefits. Working closely with NSK will help you to tailor your maintenance schedule to achieve optimum machine performance.



1. CMS Assessment

Using NSK Mapping Tools to define the monitoring route



2. Data Collection

Vibration, temperature and speed data collected using NSK equipment



3. Data Analysis

NSK performs detailed analysis and the data to check machinery health

4. Reporting

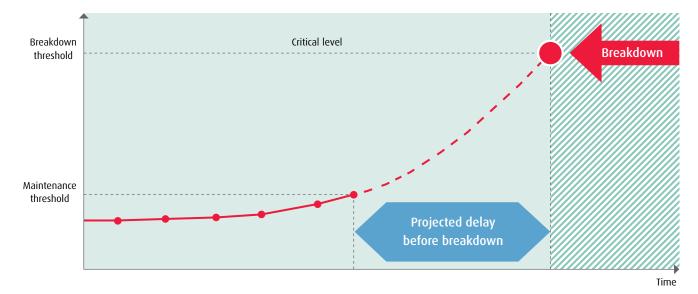
NSK delivers a full CMS report showing a machinery health map, analysis and recommendation

Services

Condition Monitoring

is a recommended technique to ensure your machines are integrated into a reliability centered maintenance program. In most cases a periodic analysis is recommended. With this method NSK experts will prepare a monitoring route with all measurement points defined and labeled. They will also give a recommendation for the frequency of measurement. This allows a machinery trend history to be set up allowing an accurate assessment of bearing maintenance requirements. This not only saves money in terms of reduction of unneccessary maintenance operations but also allows a better planning for spares and resource procurement.

In some cases a spot analysis can be implemented to identify existing defects or symptoms. It will pinpoint faults in bearings and related components and aid the target maintenance actions.



The benefits of periodic CMS

Out of balance

is one condition that will be highlighted by Condition Monitoring. This can be detrimental to the performance and the lifetime of a machine. NSK experts can utilise their monitoring equipment to perform a full dynamic balancing correction. This is a 3-stage-process and normally requires the addition or subtraction of weight to the machine rotor and a re-assessment of the unbalanced magnitude. This is particularly useful for pump or fan applications, where there are large rotating masses.

Cost Savings



Reduced Maintenance Costs

NSK Condition Monitoring Service is a real opportunity to save money in your plant. A typical maintenance budget can range between 15 to 40% of annual turnover having a major effect on profitability.

NSK performs a comprehensive survey of your plant before conducting condition monitoring. This allows a thorough calculation of your machine criticality considering maintenance complexity, contribution to line performance and bearing content. This results in the right predictive maintenance strategy being applied. NSK can apply a number of techniques from its AIP portfolio including critical spares planning, bearing application analysis, user training, dynamic balancing, lubrication solutions and laser alignment. All of this is complemented by NSK's Condition Monitoring Service which oversees machinery health.

€ 69802.00 CMS Cost Saving Example

A large manufacturer of Metal roll products was experiencing irregular performance on their ingot preparation process. As a critical part of the manufacturing process, this initiated regular maintenance reducing process uptime and increasing costs. NSK reviewed this situation and highlighted an issue with the main oven fan drives. Once identified, NSK triggered a more regular CMS review which allowed the customer to implement a predictive maintenance regime with the necessary NSK spares and resource, choosing the optimum timing to minimise effect on production, resulting in an overall cost reduction.





The complete bearing care package



NSK focuses on the care of your bearings with the comprehensive aip+ package. The different maintenance and service tools will give you support for optimum machine performance resulting in life long operation.

CONDITION MONITORING

Condition Monitoring

NSK's Condition Monitoring Service keeps track on the pulse of your machine, providing the best health check for running machinery.



Mounting Tools

NSK's range of bearing tools ensures that all components are handled correctly without damage. Having the correct tools for the job ensures that machines are assembled and dismantled correctly and efficiently.

Laser Alignment

NSK's alignment tools minimise losses and ensure your machine gives optimum performance with the lowest energy. Over 50% of machines run out of alignment which causes higher loading resulting in lower overall performance.

Lubrication Solutions

Keeping your bearings lubricated is essential for extended lifetime. NSK's range of lubricant solutions will help you achieve the best performance.



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 & Benelux

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, 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 I 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 Cuerpo 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

