Optimizing your equipment and plant asset efficiency
SKF core technologies and services
SKF offers a complete approach to asset life cycle management

As the world leader and innovator in bearing technology for more than 100 years, SKF has a unique understanding of rotating equipment and how machine components and industrial processes are interrelated, in every major industry worldwide. This knowledge – coupled with our expertise in sealing solutions, lubrication systems, linear motion, machinery maintenance, mechatronics, and services – enables us to deliver real-world solutions that help maximize mechanical performance over the entire lifecycle of an asset.

As a result, SKF is your single source for off-the-shelf and customized technology products, solutions and services.

Global resources, local deployment
SKF is represented in more than 130 countries and has 15,000 distributor locations worldwide. Our global footprint provides local access to our extensive range of technologies and services and ensures that you can benefit from local support.

Industrial operations of every type and size, in every corner of the world, understand that in today’s business environment, effectively managing assets throughout their lifecycle can deliver real and on-going value and reduce Total Cost of Ownership. No single company is better prepared to help you achieve this than SKF.

Many of the core products and technologies covered in this brochure are available from your local SKF Authorized Distributor. Some of our more specialized products, systems and consultancy services are available by contacting your nearest SKF representative, or at our expanding network of SKF Solution Factories. Wherever and however we deliver them, SKF solutions can help your operation:

- Improve productivity
- Reduce maintenance costs
- Improve energy efficiency
- Optimize design
- Reduce time to market
- Reduce total cost of ownership
SKF offers a complete approach to asset life cycle management. During each phase of the asset lifecycle, SKF technologies and services help customers to optimize machine design and performance, reduce energy consumption and lower Total Cost of Ownership.

Delivering added value at each phase of the asset lifecycle

- Power transmission
- Linear motion
- Services and related products

Asset lifecycle management

1. Specification
2. Design and develop
3. Manufacture and test
4. Install and commission
5. Operate and monitor
6. Maintain and repair

During each phase of the asset lifecycle, SKF technologies and services help customers to optimize machine design and performance, reduce energy consumption and lower Total Cost of Ownership.
Bearings, units and housings

Backed by more than a century of bearing expertise, SKF is the world leader in the design, development and manufacture of high performance rolling bearings, plain bearings, bearing units and housings. Our products help companies in countless industries extend equipment lifecycles, increase uptime, reduce maintenance and cut total operating costs.

For additional information about SKF bearings, units and housings, contact your local SKF representative, or visit www.skf.com/bearings.

SKF bearings
Recognized worldwide for their superior quality and long service life, SKF ball, roller and plain bearings are the perfect choice for a wide range of applications. Depending on the bearing type, design and size, many SKF bearings are available in four performance classes: Standard, SKF Explorer, SKF Energy Efficient and SKF super-precision.

SKF Explorer bearings
In response to the ever-demanding performance requirements of modern machinery, SKF developed the SKF Explorer performance class of rolling bearings. SKF Explorer bearings reduce environmental impact by enabling downsizing and reducing both lubricant and energy consumption. Just as importantly, SKF Explorer bearings can reduce the need for maintenance and contribute to increased productivity.

SKF Energy Efficient bearings
To meet the ever-increasing demand to reduce friction and energy consumption, SKF has developed the SKF Energy Efficient (E2) performance class for rolling bearings. Bearings within this performance class are characterized by a frictional moment in the bearing that is at least 30% lower when compared to a same-sized standard SKF bearing.

SKF super-precision bearings
Bearings in the SKF super-precision performance class are designed and manufactured for machine tools, centrifuges, printing presses and other applications that require a high degree of running accuracy and long bearing service life.

SKF units and housings
SKF produces a wide range of ball and roller bearing units and housings to meet the needs of virtually any application. Bearing units, which consist of SKF bearings, housings, seals and lubricant, are pre-greased and pre-assembled for quick and easy installation.
Engineered solutions

SKF also offers unique engineered solutions to solve the problems typically found in specific types of applications like electric motors or industries (food and beverage). Some of these include:

**Extreme temperature bearings**

Developed for applications in which petroleum based lubricants are either ineffective or impractical, extreme temperature bearings can be used in either very hot or cold applications. They can also be used in food and pharmaceutical processing equipment without the fear of grease contaminating the product.

SKF extreme temperature bearings use graphite, which is baked into the free space of the bearing to act as a lubricant, protecting the bearing from contaminants and reducing environmental impact.

High-temperature bearings are also available with graphite paste; or in the case of ball bearings, with a self-sacrificing graphite cage.

**Solid Oil**

Solid Oil is specially formulated for applications that make traditional relubrication methods impractical.

Solid Oil reduces maintenance and environmental impact, and can:

- Supply more oil to the bearing than grease
- Keep contaminants out of the bearing cavity
- Eliminate the need for relubrication
- Eliminate the need for seals to retain lubricant
- Resist chemicals
- Withstand high g-forces

**INSOCOAT bearings**

INSOCOAT bearings are standard bearings that have been plasma-sprayed with a ceramic coating. The coating acts as an insulator to protect the bearing from the damaging effects of stray electric currents. The coating is then sealed to protect against the conductive effects of water and moisture.

Resistance ranges from 50 to 150 MW at a breakdown voltage between 1 000 and 3 000 V DC.

**SKF hybrid bearings**

SKF hybrid bearings combine steel rings with silicon nitride rolling elements. Silicon nitride is an extremely hard, non-conductive material that provides a number of benefits beyond its insulating properties. SKF hybrid bearings can accommodate higher speeds, run better under poor lubrication conditions, resist the damaging effects of contaminants and last significantly longer than all-steel bearings.
Sealing solutions

Being the world’s only bearing company with seal manufacturing capabilities, SKF supplies a wide range of sealing solutions for rotating, reciprocating and static applications to industries worldwide. Innovative SKF sealing solutions help customers to increase productivity and process reliability as well as to reduce Total Cost of Ownership.

Based on extensive knowledge and experience in material technology, design and manufacturing processes, SKF offers standard seals and custom engineered sealing solutions in a broad range of elastomers, thermoplastics and thermoplastic elastomers. Our dedicated local teams of experts are there to solve your challenging application demands.

For more information about SKF sealing solutions, please contact your local SKF representative, or visit www.skf.com/seals.

Seals for general industrial applications
With a variety of designs and materials, SKF can offer shaft sealing solutions for almost any power transmission application. Examples include standard metric rubber outside diameter seals and low-friction seals with the SKF WAVE lip design. SKF also offers solutions with PTFE sealing lips, withstanding aggressive environments, high temperatures and pressures, as well as dry running.

Seals for heavy industry applications
SKF seals for heavy industry are designed to work under tough operating conditions, such as high speeds and temperatures, while retaining the lubricant and excluding contaminants. Options include heavy-duty metal-cased seals, rubber outside diameter seals with metal inserts or fabric-reinforcement and all-rubber seals.

Fluid power sealing systems
SKF offers a wide range of fluid power seals, designed to optimally work together in well-balanced sealing system solutions in a hydraulic cylinder. The assortment includes rod, piston and wiper seals as well as guides, O-rings and back-up rings. SKF fluid power seals are available in a multitude of materials to provide optimal compatibility with the various hydraulic fluids encountered in service.

Machined seals and customized sealing solutions
Independently of improving an existing design or creating a new solution, SKF can help analyze the application requirements and then select/create the optimal sealing solution. Thanks to SKF SEAL JET manufacturing processes for machined seals, customers benefit from high flexibility and short delivery times for customized sealing solutions.
Metal face seals
SKF metal face seals HDDF are designed for severe operating conditions at relatively low circumferential speeds. HDDF seals consist of two identical metal sealing rings and two similar Belleville washers. Originally developed for off-road and tracked vehicles, the seals are also suitable for other applications exposed to sand, soil, moisture and more.

V-ring seals
V-ring seals are all-rubber seals for rotating shafts. Featuring a conical-shaped sealing lip joined to the body with a resilient “hinge,” V-ring seals install directly on the shaft and rotate with it, retaining lubricants and excluding water spray and solid contaminants. They can also act as a grease valve. SKF offers V-ring seals in different designs, materials and sizes to meet most application requirements.

SKF SCOTSEAL
Designed for hub bearing arrangements typically found on commercial and off-road vehicle axles, SKF SCOTSEAL is a robust, customized sealing unit. All three different designs – Classic, Longlife and PlusXL – install easily and accommodate all driving conditions.

SKF SPEEDI-SLEEVE
SKF SPEEDI-SLEEVE is a well-proven solution to fix worn shafts within minutes, providing an excellent sealing surface without having to disassemble the shaft or change the seal dimensions. The sleeve combined with an SKF radial shaft seal provides an enhanced sealing system, resulting in a consistent and increased operating durability. This improved service life predictability assists with maintenance planning. For large shafts, SKF can also offer wear sleeves for heavy industrial applications.

SKF Mudblock
SKF Mudblock cassette seals are radial shaft sealing units developed for heavy-duty applications in harsh environments. All SKF Mudblock seals are designed with an integrated wear sleeve, but can have any one of a number of sealing lip and auxiliary lip configurations. Their geometry provides excellent lubricant retention and optimum protection against water, dust, mud and other contaminants.

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SKF Trackstar seals
SKF Trackstar seals are track pin seals designed for oil-lubricated, off-highway track chains. Installed on the pin connecting a pair of chain links, SKF Trackstar seals feature a rubber energizer and a polyurethane sealing ring. There is also a heavy-duty design including a metal reinforcement ring moulded into the polyurethane sealing ring, providing additional rigidity for severe operating conditions.
Lubrication solutions

Did you know that poor lubrication causes about 36% of all premature bearing failures? Along with helping to reduce premature bearing failures and machine downtime, proper lubrication can increase energy efficiency. At SKF, we can help you realize the true potential of lubrication.

SKF lubrication solutions range from specialized lubricants to state-of-the-art lubrication systems. Integrated SKF lubrication solutions combine our expertise in bearings, seals and condition monitoring with our tribology knowledge – the study of friction, wear and lubrication. You can also count on leading technical support and services, including management programmes to help with lubricant selection, lubrication planning and lubrication system condition monitoring – all from a single, reliable partner.

For more information about SKF lubrication solutions, please contact your local SKF representative, or visit www.skf.com/lubrication.

Lubricants

Reflecting decades of research and development in many industries, the extensive SKF lubricant line includes products formulated for specific applications or conditions:

- Industrial and automotive bearing greases
- High performance
- Extreme temperatures
- Extreme operating pressures
- Biodegradable bearing grease
- Food compatible bearing grease

Automatic lubricators

From single-point to multi-point units, SKF automatic lubricators are an easy, cost-effective and reliable way to improve machine lubrication and save time on manual lubrication. Around-the-clock solutions, such as SKF SYSTEM 24 and SKF MultiPoint, provide consistent, controlled dosages of SKF lubricants, minimising the risk of over- or under-lubricating.

Manual lubrication

From grease guns and packers to pumps and meters, SKF manual lubrication tools include everything maintenance professionals need to help keep bearings supplied with the precise amount of contaminant-free grease.

Lubrication management tools

Developed to provide applications with the right lubricant at the right time, SKF lubrication management tools include:

- SKF LubeSelect, which assesses bearings and conditions to determine the optimum grease
- SKF Grease Test Kit, to assess grease condition
- SKF Lubrication Planner, to develop and manage a lubrication plan
- SKF LuBase, which provides details about 2 000+ bearing lubricants

Lubrication services and support

SKF offers a wide and growing range of lubrication services, including centralized lubrication system installation, start-up and maintenance, oil and grease analysis and training. And with SKF Client Needs Analysis – Lubrication Management, we can identify your plant’s maturity with regard to lubrication practices and recommended actions for improvement.
Centralized lubrication systems

SKF centralized lubrication systems feed lubricant from a central source to the connected points on a machine or machining system. This solution minimizes friction and wear, eliminates potentially unsafe manual lubrication and optimizes the amount of lubricant. It also requires very little maintenance — refilling the lubrication reservoir and visually inspecting the connected lubrication points are the only necessary maintenance tasks.

SKF centralized lubrication systems include a comprehensive range of products for both oil and grease lubrication. All of them can be easily integrated with condition monitoring systems to give operators a complete overview of the lubrication system, including pump status and lubricant levels.

### SKF MonoFlex
- **Type:** Single-line lubrication systems
- **Suitable lubricants:** Oil and grease with NLGI grades from 000 to 2
- **Application examples:** Machine tool, printing, textile, off-highway, food and beverage applications

### SKF DuoFlex
- **Type:** Dual-line lubrication systems
- **Suitable lubricants:** Oil and grease with NLGI grades from 000 to 3
- **Application examples:** Metal working machines, pulp and paper industry, mining and cement plants, deck cranes, power plants

### SKF CircOil
- **Type:** Circulating oil lubrication systems
- **Suitable lubricants:** Oil
- **Application examples:** Pulp and paper industry, metal working machines, heavy industrial applications

### SKF Oil+Air
- **Type:** Oil and air lubrication systems
- **Suitable lubricants:** Oil
- **Application examples:** Machine tools, chain applications, steel industry

### SKF MultiFlex
- **Type:** Multi-line lubrication systems
- **Suitable lubricants:** Oil and grease with NLGI grades from 000 to 3
- **Application examples:** Oil and gas industry, heavy industrial applications

### SKF ProFlex
- **Type:** Progressive lubrication systems
- **Suitable lubricants:** Oil and grease with NLGI grades from 000 to 2
- **Application examples:** Printing and industrial presses, off-highway, wind turbines, food and beverage applications

### SKF LubriLean
- **Type:** Minimal quantity lubrication (MQL) systems
- **Suitable lubricants:** Oil
- **Application examples:** Machine tools

### SKF EasyRail
- **Type:** On-board lubrication systems
- **Suitable lubricants:** Oil and grease with NLGI grades from 000 to 00
- **Application examples:** High-speed trains, regional and commuter trains, locomotives, metros, light rail vehicles
Linear motion solutions

SKF is at the forefront of linear motion technology. Our extensive experience and knowledge enables us to offer our customers efficient and reliable linear motion solutions. Whatever your needs in terms of guiding, driving, actuation and positioning, SKF has a solution for you.

For more information about SKF linear motion solutions, please contact your local SKF representative, or visit www.skf.com/linearmotion.

Guiding solutions

Shaft guidings
Economical and simple, SKF shaft guides offer unlimited stroke, self-alignment, adjustable preload and high sealing performance. Corrosion-resistant versions are also available.

Profile rail guides
Designed for unlimited travel, SKF profile rail guides can withstand moment loads in all directions. Units are ready to mount, reliable and easy to maintain.

Precision rail guides
SKF precision rail guides are available in a modular range. Features include different rolling elements cages, high precision, high load-carrying capacity and stiffness and an anti-creeping system.

Driving solutions

Miniature ball screws
SKF miniature ball screws are very compact and easy to mount.

High precision rolled ball screws
SKF rolled ball screws feature several recirculating systems, including long leads for high speed. Suitable for most driving requirements, SKF high precision screws can also accommodate backlash elimination or preload execution.

Ground ball screws
SKF ground ball screws combine high precision, rigidity and design flexibility.

Roller screws
Exceeding the operating limits of ball screws, SKF roller screws offer high speeds, fast acceleration and extreme precision and rigidity. Backlash elimination or preload execution is also available for increased stiffness.
Actuation systems

Linear actuators
Available in a wide range of designs and configurations, SKF linear actuators can handle industrial or health care applications requiring high load capacities, high operating speeds or quiet, aesthetically designed systems.

Telescopic pillars
Featuring quiet, robust, powerful and attractive designs, SKF telescopic pillars are available in a wide range for many applications.

Rotary actuators
Compact but able to produce high torque, SKF rotary actuators are modular to meet special design needs. Multiple motor options are available.

Control units
SKF control units enable application-focused system control, including connections for foot, hand or desk switches.

Positioning systems

Miniature slides
Combining compact design, high carrying capacity and high running accuracy, SKF miniature slides are easy to assemble and offer long lifecycles.

Standard slides
Fitted with SKF standard components, these slides are available in several driven or guided versions, and feature a wide range of strokes and load capacities.

Precision slides
Featuring cast iron tops and bases, SKF precision slides are fitted with SKF precision rail guides that incorporate crossed roller units driven by pre-loaded planetary roller screws. Limit switches are available, and the slides can be assembled to form multi-axis systems.

Complete systems
SKF can design complete positioning systems using standard SKF components, or we can tailor custom solutions to meet unique application requirements.
Power transmission products

Along with linking mechanical moving components, power transmission products play an important role in overall bearing performance. Backed by deep SKF knowledge about the interplay between bearings and transmissions, SKF Power transmission products can help customers improve machine maintenance and performance.

For more information about SKF Power transmission products, contact your local SKF representative, or visit www.skfptp.com.

SKF can offer more than other suppliers – a deep understanding of how bearings and power transmission products work together. We apply this knowledge to help maintenance teams identify transmission-related bearing problems, and choose the best products for a given application.

SKF Power transmission products are supplied via our own sophisticated worldwide warehousing and logistics system, ensuring fast, reliable access to 30 000 products. Which means customers can keep smaller, less costly parts inventories. The SKF Power transmission product range includes six main areas:

- Belts
- Pulleys
- Chains
- Sprockets
- Couplings
- Bushings and Hubs
SKF Couplings
Suitable for many applications and environments, SKF Couplings cover a wide range of coupling types, sizes and capacity ratings. For large, heavy-duty applications, SKF Grid and SKF Gear Couplings provide optimum contact with the shaft, and can accommodate high torque values, reduce power loss and minimize the effects of misalignment.

SKF Xtra Power Belts
Compared to standard wrapped belts, SKF Xtra Power Belts can deliver up to 40% more power and up to 40% longer application service life. The extended service life, combined with reduced downtime and maintenance, helps cut operating costs.

Advantages
- Reduced pulley groove wear due to optimized cover fabric
- Up to 97% drive efficiency
- Oil- and heat-resistant, antistatic cover
- One-shot belt tensioning – no retensioning after initial run-in
- Smoother running and lower vibration levels
- Good resistance to shock loads

Available profiles
- SPZ, SPA, SPB, SPC (ISO wedge standard)
- 3V, 5V, 8V (RMA standard narrow wedge)

SKF Xtra Chains
For most industrial applications, roller chains are one of the most cost- and energy-efficient ways to transmit mechanical power between two or more shafts. Robust SKF Xtra Chains improve on these standard chain benefits by delivering even better performance and longer service life.

SKF Xtra Corrosion Resistant Chains
Constructed with stainless steel or available with a protective coating, SKF Xtra Corrosion Resistant Chains deliver superior corrosion resistance for the most demanding applications, such as food processing or hygienic applications. SKF Xtra Corrosion Resistant Chains with zinc or nickel plating will stand up to outdoor applications such as exposure to rain, while dacrotized chains are suitable for extremely corrosive environments without losing strength.

SKF Xtra Strength Chains
Featuring optimized material hardness, precision component fitting and larger parts, SKF Xtra Strength Chains deliver long service life in the most demanding drive conditions. Capable of absorbing higher shock loads than standard chains, SKF Xtra Strength Chains are grouped by tensile strength and allowable load into four series: the H, SH, SPH, and SHH.

SKF Xtra Performance SLR Chains
While they are interchangeable with standard roller chains, SKF Xtra Performance SLR Chains require no relubrication and can substantially reduce elongation in many applications. Chain service life is increased as maintenance demands and costs are reduced.
Services and related products

Thanks to a century of bearing manufacturing, plus hands-on experience in every major industrial application area, SKF has unmatched rotating machinery expertise. By combining this knowledge with the latest technologies, we can offer many specialized services and solutions to help you reduce Total Cost of Ownership, reduce maintenance, cut energy consumption and reduce environmental impact.

SKF services range from training and logistics to full PdM service contracts with qualified manpower and technology to help maintain your plant – even remotely. We have expertise in machinery maintenance and asset management, and we can help you reduce your operation’s energy usage and improve its sustainability. We can work with you to define where to focus, and how to get the fastest return on your investment.

For more information about SKF service offerings, contact your local SKF representative, or visit www.skf.com/services.

Asset Management Services

Drawing on 100+ years of manufacturing and rotating machine reliability expertise, decades of consultancy experience in process industries and leadership in condition monitoring, SKF Asset Management Services are helping plants compete worldwide.

Using tools like our Maintenance Strategy Review (MSR) and the SKF Client Needs Analysis – Asset Management (CNA-AM), we begin by identifying plant improvement opportunities and developing solutions to achieve them. Our consultants work to understand your business goals, application challenges and plant culture to create a road map for improving reliability.

Maintenance service contracts

PdM Services: SKF can provide the skilled workforce and associated technologies to perform Predictive Maintenance Services (PdM) at your plant.

PRM Services: Want to move from reactive maintenance to a Proactive Reliability Maintenance (PRM) programme? SKF can supply all necessary resources and manage the entire process.

SKF IMS: An SKF Integrated Maintenance Solution (IMS) agreement is a partnership – SKF creates and implements your asset management strategy, collaborating with you to reduce the Total Cost of Ownership of your assets.
Bearing Remanufacturing Services

Replacing large bore bearings is an expensive proposition, both in new bearing costs and lost productivity. SKF Bearing Remanufacturing Services offers a far more affordable, sustainable alternative. Throughout our global network of state-of-the-art service centres, we routinely take bearings earmarked for scrapping and remanufacture them to like-new condition for extended service – and substantial cost savings.

Spindle services

Backed by machine tool operating experience from our own factories, plus our knowledge of high-precision bearings and spindle engineering, SKF has the expertise to provide many highly specialized spindle services. Geared toward a range of industries and applications, SKF services include everything from engineering upgrades to spindle analysis, reconditioning and replacement.

SKF Remote Monitoring Service

With our web-enabled SKF Remote Monitoring Service, implementing a world-class predictive maintenance (PdM) programme for periodic or continuous monitoring of critical machinery is just an Internet connection away. SKF Remote Monitoring Service combines SKF condition monitoring tools to collect data, SKF experts to analyze data and the Internet to communicate machine health status for informed decision-making. This service is ideal for plants with limited staff trained in predictive maintenance techniques, or operations with sites located remotely from a central facility. Benefits include:

- Capital investment cost savings
- Increased data integrity
- Expert SKF analysis and recommendations
- Global, 24/7 access to reports and data

Mechanical maintenance

Rotating machinery problems – misalignment, unbalance, looseness and friction – are all telegraphed through the bearing. SKF mechanical maintenance services can help diagnose, prevent, and correct these issues, and include:

- Precision alignment
- Precision balancing
- Lubrication management
- Bearing failure analysis
- Technology advice and machine upgrades
- Bearing installation

Training

SKF training programmes can give your staff the knowledge and hands-on experience to help your operation:

- Achieve higher levels of personnel and machine efficiency
- Determine and fix the root cause of machine and component problems
- Reduce accidental damage or under-utilization of equipment
- Increase machine uptime and productivity
- Enhance plant safety

SKF Certified Electric Motor Rebuilders

For many companies, electric motor failures cause a continual cycle of costly repairs and unplanned downtime – factors that can hurt the bottom line. SKF Certified Electric Motor Rebuilders apply exacting standards and specifications to increase motor reliability, performance and profitability. In certain locations, we also offer SKF Certified Pump Rebuilders, who can help you maintain and get more from your pump assets.
Integrated condition monitoring technologies

With the right machine data – and the right tools to interpret it – you can optimize your maintenance programme for greater productivity and more effective asset lifecycle management. SKF has a complete, integrated range of condition monitoring tools and technologies to make it happen.

SKF hardware and software is designed to make it easier to collect, analyze, use and share machine condition data.

Whether your maintenance programme is just getting off the ground or you are executing an enterprise-wide strategy to take it to the next level, SKF condition monitoring solutions can help:

- Minimize the risk of unplanned downtime
- Improve operational efficiency
- Reduce maintenance costs
- Optimize manpower resources

Maintenance products

SKF maintenance products help achieve maximum bearing service life, optimize machine performance and improve machine and operator safety. Products include pullers, fitting tools, heaters, instruments, lubricants, lubricators and oil injection equipment.

Electric motor monitoring

SKF/Baker offers a range of products for static testing and dynamic motor monitoring to help maintenance professionals detect electric motor problems prior to failure.

Basic condition monitoring products

Designed for experts and novices, this basic proactive maintenance equipment helps users spot-check machines and establish trends to identify problems early before they result in costly, unplanned downtime.

Shaft alignment tools

Shaft misalignment in rotating equipment generates loads and vibration that can damage bearings, seals and couplings, and increase energy consumption. SKF shaft alignment tools use advanced technologies to detect and correct shaft misalignment, quickly and easily.

Portable data collectors and analyzers

The SKF Microlog series of portable data collectors and analyzers can handle all tasks needed to perform predictive maintenance on a range of rotating machinery. Route-based systems are supported by SKF @ptitude Monitoring Suite software.

Operator Driven Reliability (ODR)

Operations personnel are usually the first to detect even the smallest changes in process conditions and machinery health. SKF makes it easier to implement and run an effective ODR programme by helping operators record, report and initiate timely corrective actions for degrading equipment.

Online surveillance and protection

Ideal for installation in unsafe or hard-to-reach locations, the SKF Multilog Series of on-line monitoring systems automatically collects vibration and process data 24/7, transmits data into the SKF @ptitude Monitoring Suite and alerts plant personnel to machine condition changes.

Wireless monitoring

Our market-leading portfolio of wireless condition monitoring solutions includes options for WiFi, wireless HART and Bluetooth. SKF wireless technologies are ideal for monitoring assets in hard-to-reach or hazardous areas, or locations encompassing large amounts of real estate, such as tank farms and refineries.
Energy & Sustainability Management
SKF can leverage more than 100 years of application knowledge gained from working with customers in every major industry, many of which are energy-intensive. As a result, SKF can offer a range of services and technologies to help reduce energy consumption and improve sustainability, including:

- SKF Client Needs Analysis – Energy & Sustainability
- SKF Energy Monitoring Services
  - Compressed air
  - Pump systems
  - Fans
- Shopfloor awareness cards

SKF Documented Solutions Program
Using web-based software that calculates the expected value of a machine solution, the SKF Documented Solutions Program lets you see how SKF technologies can benefit your unique situation. The program calculates total cost reductions in areas such as energy, lubrication, inventory, warranty costs, manpower, machine life, reliability, output and quality, equipment downsizing and over 250 others.

The program can also generate specific solutions for targets identified by the SKF Client Needs Analysis – a program that compares a company’s own operating information to global best practices in order to identify the most promising areas for improvement.

SKF Logistics Services
Once an in-house SKF unit, SKF Logistics Services is now a global logistics services provider focused on industrial enterprises. With 15 strategically located logistics centres and selected partners worldwide, we provide a range of services and solutions in more than 170 countries.

Whether your goal is a single on-time shipment, an expansion of your market or widespread improvements to your current logistics system, we can make it happen.

Inbound, outbound, around the world or around the corner, SKF Logistics Services can manage your every logistics detail, allowing you to focus on your core business. Our service areas include:

- Transportation management
- Warehousing
- Product information and packaging
- IT systems and business consultancy
SKF Authorized Distributors

Our authorized distributor network delivers a valuable mix of resources to SKF customers worldwide. SKF Authorized Distributors combine local market knowledge, efficient IT and logistics systems and support from expert SKF application engineers to offer our customers the highest levels of service.

SKF serves its largest group of customers in the industrial and vehicle aftermarkets, both directly and via a global network of distributors that includes the types highlighted below. For more information, or to locate your nearest SKF Distributor, contact your local SKF office, or visit www.skf.com.

SKF Authorized Distributors

When you purchase your bearings from an SKF Authorized Distributor, you can do so with confidence, knowing that you have access to expert advice, plus the assurance that you will avoid the problems associated with counterfeit bearings. In addition to supplying genuine SKF bearings, your SKF Authorized Distributor can provide you with seals, lubrication, linear motion, services and related products.

SKF Specialized Distributors

To better assist end-user customers in several specialized areas, specialized SKF distributors include:

- SKF Lubrication Systems Distributors
- SKF Seals Distributors
- SKF Linear Motion Distributors
- SKF Actuation Systems Distributors

SKF Certified Maintenance Partners

SKF Certified Maintenance Partners (CMP) are SKF Authorized Distributors who have received advanced machine reliability training to help you monitor machine operation, predict machine failures and uncover hidden cost-saving opportunities. Using a range of proprietary SKF tools and analysis software, they collect and analyze much more machinery and process data than most predictive-maintenance service providers.

SKF Vehicle Service Market Distributors

Our Vehicle Service Market Distributors handle the complete SKF line of aftermarket repair products for both automotive and commercial vehicle applications.
To provide our customers with direct access to SKF’s global capabilities, SKF has created a unique concept: the SKF Solution Factory. Here, under one roof, we offer a wide range of specialized services that draw on all of our core competencies and industry-specific knowledge.

At SKF Solution Factories customers can solve difficult application challenges, consult with lubrication specialists and have a custom-machined seal designed and manufactured on the spot.

They can also receive bearing remanufacturing and spindle repair services, training and total shaft solutions including expert mounting, alignment and balancing. Depending on location, customers can also take advantage of remote condition monitoring and expert diagnostics.

The bottom line? SKF Solution Factories provide integrated, value-added solutions to optimize your plant asset efficiency and reduce your Total Cost of Ownership.

**Specialist competencies**
All the knowledge needed to provide truly customized solutions and to manage your Total Cost of Ownership.

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**Industry knowledge**
World-class products are one thing. Knowing how best to use them is another. Over the last 100 years, we have gathered a wealth of industrial and application experience together with our customers.

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<td>Mining, minerals processing and cement</td>
<td>Marine</td>
</tr>
<tr>
<td>Metals</td>
<td>Food and beverage</td>
</tr>
</tbody>
</table>

**Service centres**
Helping you to maximise the performance of your machinery.

- Bearing remanufacture
- Bearing analysis
- Spindle services
- Product customization
- Electronic repair and calibration

**Core technologies and services**
The heart of our offer. Every SKF product, service and solution is built on one or more of these technologies.

- Bearings and units
- Seals
- Lubrication systems

- Linear motion and actuation systems
- Power transmission
- Services
The building blocks of knowledge engineering

As the world leader in bearing technology for over a century, we have developed an extensive range of core technologies and services which build on our knowledge of rotating equipment and how machine components and industrial processes are interrelated. These include seals, lubrication, linear motion, machinery maintenance, asset management and mechatronics, which combines mechanics and electronics into intelligent systems.

And through working with customers in every major industry worldwide, we have wide experience in applying our technologies and services at each phase of the asset lifecycle, often providing application solutions that were never previously possible.

With a deep understanding of cultures and regions, we work in close partnership with our customers, combining our experience and knowledge to find solutions to their specific challenges. We help them improve productivity, reduce maintenance costs, improve energy efficiency, optimize designs, reduce time to market and reduce total cost of ownership. Ultimately – we make them more successful and profitable. This is what we call “the power of knowledge engineering”.

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