



# Enhancing motion and control in healthcare



The Power of Knowledge Engineering

Working together



# to meet the challenges of healthcare

Healthcare facilities and society as a whole must provide care for more and more people, while having to cope with extreme cost pressures and limited resources. At the same time, there is a need to improve the quality of care, driven in part by increasingly stringent regulations and liability concerns. This includes enhancing the safety and comfort of patients and healthcare workers alike. For most original equipment manufacturers, finding ways to help customers save money, increase efficiency and improve quality is a huge challenge. But it also opens up opportunities.

With SKF as an engineering partner, you are in a stronger position to offer innovative patient products that are more cost-effective than alternatives or that increase efficiency at the facility. Or both. What's more, SKF can contribute to improving the quality of care by enhancing safety, ergonomics and comfort. SKF has the expertise, experience, tools, products and commitment required to design a motion package that helps keep you and your customers at the forefront.



## Optimize your offer

Working together with SKF, you can offer solutions that give customers and end-users:

- **Greater cost-effectiveness**
- **Increased efficiency**
- **Enhanced safety and security**
- **Improved comfort and ergonomics**

## *Why do it alone?*

*Working together with SKF, you will be better equipped to offer innovative products that take advantage of modern technologies. SKF offers extensive healthcare industry experience and application knowledge, making it possible for us to design tailored motion solutions for new products or to upgrade existing ones.*



# Enhancing efficiency, safety and ergono

*You can rely on advanced SKF motion packages for healthcare aids that are designed to provide support movements, including the required functionality and interface to your product or directly to the nurse or patient. An SKF solution includes actuators, and control electronics and monitoring devices for reliable control and performance. This allows your customers to reduce costs and improve efficiency, while making life safer, easier and more comfortable for both nurses and patients.*

## **Reducing costs, increasing efficiency**

Healthcare facilities are looking for ways to reduce costs and increase efficiency. The right nursing bed, for example, designed with an actuation system can make an important contribution.

Working in close collaboration with your experts, SKF can provide a motion system that meets the specific requirements of the application and that complies with IEC and UL 60601-1 relating to safety. You can also look forward to a faster and more cost-effective application development process.

Customers can expect a reliable, long lasting and energy efficient solution designed for their specific requirements. Caregivers get

an optimal working height quickly and easily so that they can care for the patient more effectively. Giving the healthcare facility a better use of time and limited resources, while improving the quality of care.

An SKF motion package is based on extensive application knowledge, leading technologies and top quality products. At the heart of the solution is the integrated state-of-the-art actuator for quick, reliable and precise positioning. SKF also offers an actuator lifetime monitoring system that allows the facility to plan for servicing or replacements. This in turn makes it more likely that the maximum number of beds is always available.

## **Confidence in knowing**

*When it comes to healthcare, there is no room for equipment failures – especially when it comes to actuators in nursing beds, for example. After all, a sudden change in positioning could pose a big risk to patients. That's why choosing the right design partner is crucial in the development stage, let SKF help you.*





# mics

## Enhancing safety for patients and caregivers

Keeping up with increasingly stringent safety standards and regulations is a must – but it is not easy. Whether at a healthcare facility or at home, the nursing bed must provide a safe place for the patient and offer a range of positions and heights quickly and easily.

With SKF, you can offer nursing beds and home care beds with a motion package that complies with safety standards and regulations. Customers can get nursing and home care beds that, for example, provide an extra low height to reduce the risk of injury should the patient fall from the bed. For maximum ease of use, the handsets are ergonomically designed with large keys and finger guides in relief and braille, so that it is easy to locate and use, even in the dark. With SKF, the nursing bed can feature an integrated quick release so that it is instantly ready should a patient require cardio pulmonary resuscitation.

You can rely on SKF to provide a motion system that complies with IEC and 60601-1 as it relates to safety. SKF can also assist in the qualification and certification process of the end product itself.

## Improved comfort and ergonomics

Caregivers are not always available to assist a patient. With a handset close by, patients have the freedom and flexibility to adjust their beds to a more comfortable position on their own. This helps improve quality of life and promotes a sense of independence.

The bed must also promote a safer workplace for the caregiver. After all, backaches and injuries are a common and recurring problem for many healthcare workers. All too often, injuries occur when assisting patients in beds that are either too high or too low. By being able to quickly and easily adjust the height of a nursing bed or home care bed to an optimal level, caregivers can limit the risk of on-the-job back injuries.

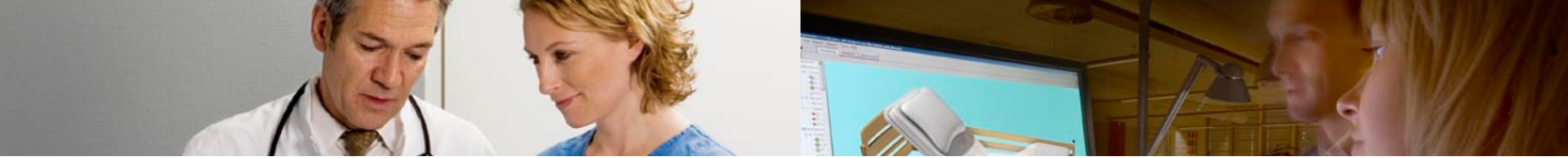
Working together with your team, SKF can provide a powerful, compact, quiet and easy-to-use motion package. The SKF actuator system makes it possible to lift and adjust a position using either a handset or foot switch. The result is a solution that combines motion and comfort with enhanced safety and reliability.

Hospital beds



Physiotherapy couches or massage tables





# Your global engineering partner in healthcare

*Sometimes a little extra support can go a long way – particularly when it comes to meeting the challenges of the healthcare industry. With SKF, you get the knowledge, support and innovative solutions that only a dedicated, global leader can provide.*

At SKF, we are committed to supporting you from design to delivery. Whether it is analyzing an existing design or implementing new functionality into an application, SKF engineers can work together with you to enhance the performance and reliability of your finished product.

What can you expect from an SKF motion solution that is tailored to your application?

- **High performance and reliability**
- **Compliance with stringent standards and regulations**
- **Advanced ergonomics and ease of use**
- **Quiet, energy-efficient operation**
- **Compact and robust design**

Experts from SKF are also ready to assist you in the qualification and certification of the end product itself. To help maintain the required production quality level, SKF offers, for example, root cause analysis and can recommend corrective and preventive actions. With SKF, you also get:

- **Extensive healthcare industry experience and application knowledge in supplying motion solutions**
- **Global presence, local support – for knowledge engineering support when and where you need it**
- **Network of dedicated SKF representatives and distributors**
- **Short response time for quotations and technical calculations**
- **Efficient distribution – whenever, wherever**

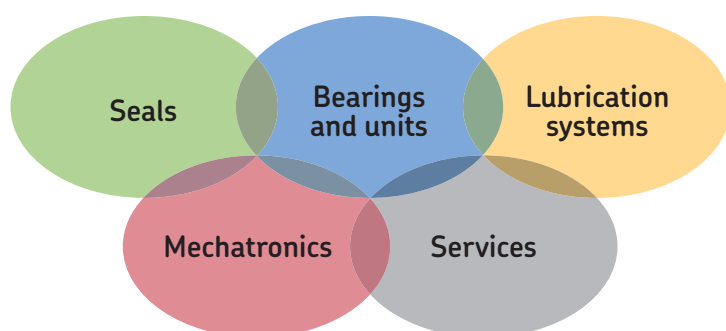
So discover all the ways we can work together to sharpen your competitive edge by keeping you and your customers at the forefront.



*See inserts for more details  
about SKF solutions for  
healthcare applications.*

The Power of Knowledge Engineering





### The Power of Knowledge Engineering

Drawing on five areas of competence and application-specific expertise amassed over more than 100 years, SKF brings innovative solutions to OEMs and production facilities in every major industry worldwide. These five competence areas include bearings and units, seals, lubrication systems, mechatronics (combining mechanics and electronics into intelligent systems), and a wide range of services, from 3-D computer modelling to advanced condition monitoring and reliability and asset management services. A global presence provides SKF customers uniform quality standards and worldwide product availability.

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