Clutch Systems
Innovative Solutions for All Roads

Modern dual-clutch transmissions achieve distinctive efficiency by combining the fuel economy of a manual transmission with the comfort of an automatic. They offer an excellent foundation for progressively hybridizing the drivetrain on a modular basis - from mild to full hybrid.

As a family business, we realize that we have a responsibility to keep moving forward in a world, which is developing at a faster and faster rate and on which the half-life of forecasts is becoming increasingly shorter. As the Schaeffler Group, we must be competitive and work together to achieve our goals. We have united to get to the heart of the matter and work on a global basis to form the Schaeffler Group. We are committed to sustainability, and ensuring sustainability in our actions and in being passionate about our company. “Together we move the world.”

We further the competence of our employees and rely on targeted investments in research and development. We have a dedication to customer satisfaction and our customers demand quality in growing and newly developing markets. Technical and business expertise and the dedication of our motivated employees have always been a basis for our success. We have been at the top of our field.

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Modern dual-clutch transmissions increase transmission efficiency by combining the fuel economy of a manual transmission with the comfort of an automatic. They offer an excellent foundation for progressively hybridizing the drivetrain on a modular basis – from mild to full hybrid.
Modern dual-clutch transmissions improve drive train efficiency by combining the fuel economy of a manual transmission with the comfort of an automatic. They offer an excellent foundation for progressively hybridizing the drivetrain on a modular basis - from mild to full hybrid.

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LuK’s clutches are used in a wide range of vehicles, including the Volkswagen Beetle. Today, LuK clutches are used systems for vehicle drivetrains. LuK supplies components and systems for vehicle drivetrains, such as Auto Shift Gearbox (ASG) and Dual Mass Flywheel. This was a major development in 1997, allowing for smoother vehicle operation and improved fuel efficiency. In 2016, LuK achieved another milestone by developing a high-torque clutch with an output of over 300 Nm. This was a significant advancement in the field of automotive technology, as it allowed for the development of more powerful and efficient vehicles.

In addition to developing new products, LuK also focuses on improving existing ones. For example, in 2015, LuK introduced a new type of clutch release system that improved durability and reduced noise levels. Additionally, LuK has invested heavily in research and development, constantly looking for ways to innovate and improve its products.

LuK has established a strong reputation for quality and innovation, and its commitment to excellence has led to many successful projects. Some of these include the development of new clutch systems for hybrid vehicles and the creation of a new type of clutch release system that is both quieter and more durable. These advancements have helped to cement LuK’s position as a leader in the field of automotive technology.

LuK’s commitment to innovation and quality has earned it a strong reputation in the industry. As a result, the company has been able to attract a number of high-profile clients, including exclusive car dealers, wholesalers, repair shops, and distributors. This has allowed LuK to expand its reach and continue to develop new and innovative products.
LuK has always been present and close to its customers by locally developing, testing and striving for local solutions. In order to meet the market’s needs and overcome its partners’ expectations, the company anticipates the products’ final assembly conditions, as well as manufacturing costs. Furthermore, LuK anticipates the products’ final assembly conditions, as well as manufacturing costs.

LuK clutches provide excellent operating comfort, long operating life and durability of the clutch pedal. They are capable of compensating for the engine and the transmission. These transmissions offer an increased efficiency and have been continuously enlarging the market of dual-clutch transmission. LuK, in collaboration with technical partners, has developed a new polymer combination, which keep the actuation process smooth and silent. In some cases, the development of the clutch pedal for the production of clutch systems and their interfaces, as well as manufacturing costs. Furthermore, LuK anticipates the products’ final assembly conditions, as well as manufacturing costs. Furthermore, LuK anticipates the products’ final assembly conditions, as well as manufacturing costs. Furthermore, LuK anticipates the products’ final assembly conditions, as well as manufacturing costs. Furthermore, LuK anticipates the products’ final assembly conditions, as well as manufacturing costs. Furthermore, LuK anticipates the products’ final assembly conditions, as well as manufacturing costs.
LuK supplies components and systems for vehicle and industrial applications worldwide. While Schaeffler owned LuK until 1997, the company is today an integral part of Continental, a leading global technology company for temperature control, powertrain and performance. LuK is also an integral supplier of many other products, such as hydraulic systems.

1. Innovative System Technology - Dual Mass Flywheels (DMF)

The current development in automotive industry engines lead to new requirements for the systems, which operate at lower revolutions, higher compression ratios and lower noise. For this reason, LuK offers new dual mass flywheels for almost all major automobiles in the world. The innovative solution integrates the mass of the flywheel system into the crankcase. This allows the engine to reduce its own noise as well as avoiding resonance and improving NVH behavior. The development of a new hybrid engine for the successor of the VW Beetle. Today, LUK offers a solution for this car and has developed an innovative flywheel system with a very low noise level. The system dampers diminishing. As a consequence of the flywheel's position in the transmission, it is possible to reduce the transmission's noise level.

2. Development of the Clutch Cover System

Instead of developing individual components, LuK develops complete clutches as a complete system component and reduces the size of the entire clutch cover system. This allows for a reduction of the overall weight of the system.

3. Expertise in Clutch Pedal System

Innovations in the areas of actuation, feedback and comfort have enabled LuK to develop a new pedal combination that enhances driving comfort. The pedal provides a smooth and quiet actuation process.

4. Innovative System Technology - Dual Mass Flywheels (DMF)

DMF is a solution for vehicles in which the engine needs to be more compact, lightweight and efficient. DMF reduces the noise level of the system.

5. Innovation in Powertrain Systems

LuK supplies master cylinders for brake systems and has been continuously enlarging the product range. In addition to brake systems, LuK also supplies clutch systems and their interfaces to the vehicles. LuK has always been present and close to its partners, providing them with innovative solutions to their problems. The company is known for its excellent customer service, which is highly appreciated by its partners. LuK is also an important supplier of many other products, such as hydraulic systems.

6. Expertise in Clutch Pedal System

Expertise in clutch pedal system is another area in which LuK is a leading supplier. The company offers a range of products, such as clutch covers, clutch covers and clutch release systems. These products are designed to ensure the smooth and quiet operation of the clutch system.

7. Development of the Clutch Release System

LuK has developed a new clutch release system that combines the reduction in fuel consumption and the improvement of vehicle dynamics. This system allows for a reduction in fuel consumption and the improvement of vehicle dynamics.

8. Innovation in Powertrain Systems

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Not only has our development been characterized by responsible management and sustained company development, we also actively designed the connection between the company’s history and the corporate culture. We cultivate commitment, trust and reliability, striving for powerful and sustainable results.

Maria-Elisabeth Schaeffler
Partner

Georg F. W. Schaeffler
Partner

Dr. Jürgen M. Geissinger
President & CEO

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