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**Automechanika 2024: MEYLE responds to market demand for better parts for electric vehicles and combustion engines with new products**

* **Expansion of future-oriented eSolutions range: many new solutions for Tesla vehicles**
* **New pre-assembled tie-rods, improved rear axle control arms for VW, new driveshafts and many other products expand the portfolio for combustion engines**

**Hamburg, August 2024** **– In response to a growing demand for solutions, MEYLE is developing innovative concepts for e-mobility, including new, enhanced spare parts for Tesla vehicles. The Hamburg-based spare parts manufacturer also analyzed the weaknesses and opportunities for improvement in original parts for combustion engines and is expanding its portfolio with cutting-edge, highly functional products.**

# MEYLE eSolutions: e-mobility in the workshops

MEYLE is presenting a range of new solutions for the independent aftermarket for Tesla at Automechanika. These are part of the growing eSolutions portfolio that the Hamburg-based manufacturer is developing and expanding specifically for electric vehicles. eSolutions are an important long-term growth area for MEYLE and its partners. With forward-looking products, solutions, new services and concepts, the aim is to anticipate future market requirements at an early stage. All MEYLE product lines, as well as the service and training program for independent workshops, are therefore being systematically expanded to include eSolutions. The claim: Combining many years of expertise, innovation and quality with high speed, so that dealers and workshops can participate quickly and sustainably in the e-mobility business.

## Filter Category: MEYLE PD HEPA Cabin Air Filter Kit for Tesla Model Y

The MEYLE PD HEPA cabin air filter set for one of the world's best-selling electric vehicles, the Tesla Model Y, saves considerable resources thanks to its new design and the use of bioplastic. The mid-range SUV has many features that set it apart from other electric cars in the same category, including a standard HEPA cabin air filter. This is a set of four individual filters (2x HEPA filters and 2x activated carbon pre-filters) with a very large surface area. Due to the enormous number of vehicles and an average replacement interval of three years, considerable amounts of waste are generated over the lifetime of the vehicles.

MEYLE has chosen a sustainable solution for its aftermarket version by using a bioplastic made from over 95 per cent bio-based, renewable ingredients. The alternative is in no way inferior to its fossil counterpart - on the contrary: at the end of its service life, the bio-plastic filter is fully recyclable in the PE recycling stream (recycling and reprocessing of polyethylene plastics). In addition, the efficient design of the MEYLE filter set ensures material savings and thus a weight reduction of around 50 percent. Based on the current vehicle population and the expected vehicle lifetime with a replacement interval of three years, significant amounts of waste can be avoided.

The set consists of two HEPA filters and two MEYLE PD activated carbon cabin air filters. The latter are used as pre-filters and, unlike conventional activated carbon filters, do not release nitrogen oxide back into the environment once it has been captured. In short: a NOx safe. They have been a proven part of MEYLE's product range for several years.

## Steering & Suspension Category: MEYLE HD Rear Axle Control Arm for Tesla S and X Models

MEYLE engineers have once again used their suspension design and manufacturing expertise to find a solution to a design flaw in certain Tesla models: Due to the design of the original rear axle control arm, the integral joint mounts can break, causing the connection to the wheel carrier to possibly become loose. The MEYLE solution: Solid aluminum material and adapted suspension mounts ensure that the tire is held in position. In addition, the optimised bushing design improves the driving experience.

"Thanks to our expertise in production and development, we are able to offer and manufacture specially developed vehicle spare parts.We market these products under our MEYLE HD range. We also recognized the problem with the Tesla S and X rear suspension arms, partly through market feedback, and decided to replace the hollow body design. Moisture ingress and the associated risks are no longer a concern with our design," adds Stefan Bachmann, Head of Steering and Suspension at MEYLE.

In the course of the development of the new control arm, the suspension bushings were also redesigned. By changing the stiffness and adapting the geometric design to the new requirements, the higher weight of the vehicle is now taken into account and the service life of the bushings is increased. At the same time, Tesla drivers benefit from a more precise driving experience without sacrificing comfort.

## Engine & Transmission Category: MEYLE ORIGINAL Tesla Oil Change Kit for all Tesla models

Since 2014, MEYLE has been continuously expanding its range of oil change kits - now also for electric vehicles. A traditional transmission oil change, as required for internal combustion engines, is not necessary for most electric vehicles. However, some lubricants in other components, such as the drive train (which consists of the electric motor, power electronics and transmission), should still be checked regularly and serviced if necessary: Tesla recommends oil and filter changes every two years. Independent workshops can order the practical MEYLE kit from the start of Automechanika in September 2024. This will enable them to offer Tesla drivers an even more efficient and reliable service. The MEYLE ORIGINAL Tesla Oil Change Kit is available for all models (S/X/3/Y) and meets Tesla OE standards. As a complete package, it contains all necessary accessories, including the correct filter and a screw cap with integrated magnet - a workshop solution that saves time and money.

## Electronics Category: MEYLE PD Wiring Harness for Tesla Model S

The MEYLE PD range is characterized by improved features in terms of function, performance, comfort or design, offering a range of products with additional or often better functionality or performance than the original model. The first MEYLE PD part in the MEYLE Electronics portfolio is the Tesla front bumper wiring harness, developed to fit exactly to OE specifications. Unlike the OE product, MEYLE uses a double protective jacket to protect the Tesla cables from vibration and damage and to contribute to a significantly increased durability.

# Diverse product highlights for combustion vehicles

In addition to the e-mobility solutions mentioned above, MEYLE will also present many new products for combustion vehicles this year. Trade fair visitors can look forward to highlights from the areas of steering and suspension, drive systems and electronics.

## Steering & Suspension Category: MEYLE HD Rear Axle Control Arm for VW Golf 7

It has been noted by TÜV (German Technical Inspection Association) that rear axle control arms on front-wheel drive vehicles are prone to corrosion. As a result, MEYLE engineers conducted a detailed examination of the VW Golf 7 and other vehicles. The result: control arms on the rear axle are often so severely corroded that the spring sitting on the control arm damages the conventional coating. This, in turn, can lead to corrosion. In the most severe cases, complete rusting may occur and the spring may be lost. This is due to the design of the control arm, commonly referred to as the "guitar" design, which features a spring positioned directly on the control arm. The control arm is open at the top, which allows dirt and water to reach the spring seat on a permanent basis. In the event that the coating is damaged by stone chips, the underlying sheet metal material may corrode over time and become fatigued to the extent that the spring may puncture the control arm.

MEYLE uses a different type of coating to meet this need for protection. The new MEYLE HD rear axle control arm for VW features a zinc flake coating which makes it less sensitive to stone chips (thanks to a so-called sacrificial layer) and therefore more resistant to corrosion than the OE part. Furthermore, the MEYLE control arm boasts a significantly higher tensile strength than the competition. Primarily, however, the product can contribute to enhanced safety thanks to its material resistance. Overall, MEYLE achieves a significantly longer service life with these modifications compared to other control arms.

The MEYLE HD rear axle control arm for VW is expected to be available from the fourth quarter of 2024 and will cover a total car park of over 12 million vehicles worldwide.

## Steering & Suspension Category: MEYLE HD/ ORIGINAL Pre-assembled Tie Rod

For workshops, it is the need-based products that they rely on in their day-to-day operations. It's not just about clever kits including the necessary tools, but also about unique solutions making the entire repair process more efficient. When it comes to tie rods in particular, the replacement of individual components is not the most labour-intensive and time-consuming process, but rather the dismantling of the individual parts.

With this in mind, MEYLE has developed a pre-assembled tie rod. The tie rod end, axial joint and bellows with clamps are supplied fully assembled so that the mechanic can replace the complete tie rod without having to disassemble individual parts. Not only does the mechanic get all the parts he needs in one piece, including mounting material, but he no longer has to waste time researching and ordering parts separately. The all-in-one solution also saves on packaging material, storage capacity and transport costs.

In future, this practical repair solution will be available in MEYLE HD or MEYLE ORIGINAL quality, depending on the reference model, and will cover a car park of around 83 million vehicles in Europe.

## Drivetrain Category: MEYLE ORIGINAL Driveshaft for Volvo XC60

The common driveshafts offer limited flexibility and length compensation, resulting in limited axle articulation. This affects the car's performance in demanding situations. At the same time, the heavy construction of conventional driveshafts often puts a strain on the vehicle.

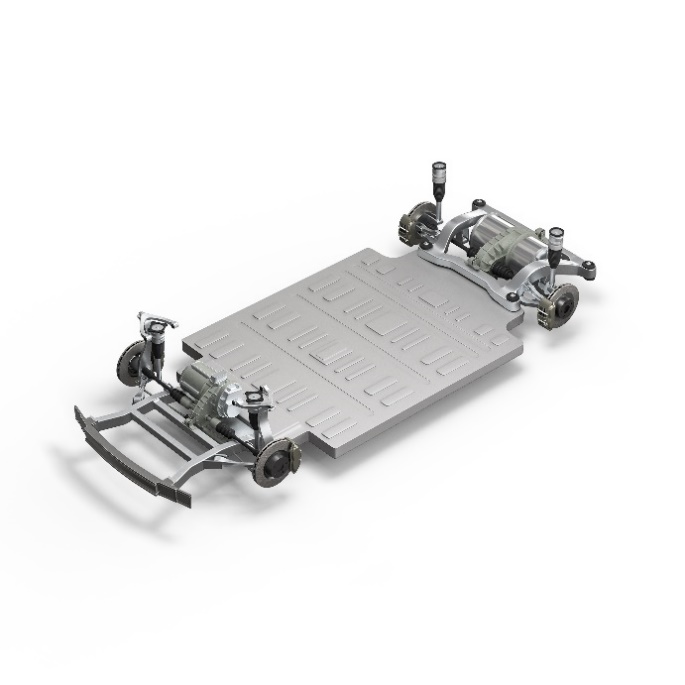
The MEYLE ORIGINAL drive shaft with linear displacement unit (ballspline) for the Volvo XC60 offers a practical solution. Thanks to the larger displacement range of 60-100 mm (compared to 40-50 mm for conventional driveshafts), the product enables significantly increased axle articulation, which is particularly necessary in the off-road and SUV sector. The ballspline further allows for greater bending angles and a longer displacement range (length compensation), which significantly increases the vehicle's off-road capability. In addition, the space-saving design of the linear displacement unit ensures a significant reduction in weight. The result is a reduction in the vehicle's unsprung mass. This has a positive effect on handling and driving comfort, especially off-road. The eight-ball outer joint used by MEYLE saves both space and weight compared to conventional six-ball outer joints. These joints are pre-lubricated with high performance grease to ensure long life and reliable performance. As an added benefit, the fixing screw is supplied with a Loctite coating (special screw locking agent), which meets the requirements of the OE manufacturer and ensures increased reliability and safety. These details contribute to the quality and durability of the new driveshaft.

With the MEYLE driveshaft, the Volvo XC60 is optimally prepared for demanding terrain - a clear advantage for around 500,000 vehicles.

## Electronics Category: MEYLE Headlamp Leveling Sensors

MEYLE has added a new product group to its electronics portfolio: headlamp leveling sensors. The Hamburg-based manufacturer is initially launching 33 different sensors for VAG, covering a car park of 120 million vehicles in Europe. A range of around 100 sensor components is planned for the future.

Further information on MEYLE's Automechanika appearance, where all product highlights will be presented for the first time, can be found here: [Automechanika 2024 | Improving what´s moving | MEYLE](https://automechanika.meyle.com/)

**Pictures**

**Caption: "**Hands-on experience" at Automechanika with MEYLE 2024: Visitors can experience the new EV products up close with a special Tesla module.

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**About the company**

MEYLE AG is a company of Wulf Gaertner Autoparts AG.

MEYLE AG develops, produces and markets high-quality spare parts for passenger cars and vans for the independent aftermarket under the MEYLE brand. With its three product lines – MEYLE ORIGINAL, MEYLE PD and MEYLE HD – MEYLE offers precise solutions and parts for every situation and every driver, from competent workshop employee and ambitious rally driver to classic car enthusiast and every driver around the world who needs to be able to rely on their own car. MEYLE offers its customers over 24,000 reliable and durable spare parts manufactured in their own plants and at the facilities of select production partners. The MEYLE product portfolio is correspondingly sophisticated.

The Group has some 1,000 employees worldwide, including nearly 500 in Hamburg, at the logistics centre and the company headquarters. MEYLE works with partners, workshops and car mechanics in 120 countries worldwide to ensure that drivers can rely on MEYLE’s superior parts and solutions.

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