

KW automotive

PRESS RELEASE

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KW automotive is the official technical partner of Lamborghini Squadra Corse: The Lamborghini SC63 is the first Le Mans Hypercar with KW Formula Racing dampers

For many years, suspension manufacturer KW automotive has achieved success with its innovative KW Racing dampers in the customer sports programs of various car manufacturers and professional racing teams. During the Essen Motor Show, KW automotive unveiled its next generation of motorsport dampers designed for hybrid prototype sports cars and formula cars. These new KW V6 Formula Racing CPR Heave dampers and KW V5 Formula Racing CPR Roll dampers will be used for the first time in the Lamborghini SC63 LMDh (Le Mans Daytona hybrid). As the official technical partner of Lamborghini Squadra Corse – the motorsport department of the Italian car manufacturer – KW automotive is making the next big step and entering the top class of the FIA World Endurance Championship with its suspension technology. More information is available at www.kwautomotive.de

By 2024, about one third of the GT3 race cars in the FIA World Endurance Championship and the IMSA WeatherTech SportsCar Championship will be racing with KW Racing dampers. Through the technology partnership with Lamborghini Squadra Corse, suspension specialist KW automotive is also equipping LMDh racing cars with its KW Solid Piston dampers for the first time in the world's premier WEC and IMSA sports car championship hypercar classes. "Our unwavering commitment to research, development and production at our headquarters has solidified our position as a trusted partner in the automotive industry's customer sports programs," remarks Jürgen Wohlfarth, Managing Director of KW automotive. With its notably concise decision-making processes and the capability to produce customized products down to individual builds, an increasing number of OE customers are establishing partnerships with this family-owned business from Fichtenberg for specific motorsport projects and special models. "Equipping and supporting the inaugural Lamborghini Squadra Corse LMDh prototype with our suspension technology for the 24 Hours of Le Mans, 24 Hours of Daytona, 12 Hours of Sebring and the entire WEC Endurance Championship is a source of immense pride for us all."

Formula Racing Series: The next generation of KW Solid Piston dampers

KW's innovative Formula series, based on through-rod technology, offers a comprehensive range of CPR heave, CPR roll and CPR rad dampers tailored for prototype sports cars, including Le Mans hypercars, LMDh hypercars and formula cars. "Our Formula Racing solid piston dampers operate at a high frequency over a short stroke. What is new is the utilization of a continuous piston rod for the V6 Formula Racing CPR Heave damper and V5 Formula Racing CPR Roll damper employed in the SC63," explains Dipl.-Ing. Thomas Rechenberg, Head of KW Motorsport. With their continuous piston rod design, solid piston dampers possess the distinct advantage of nullifying gas expansion force and minimizing hysteresis. As a result, temperature fluctuations within the damper do not exert any influence on ride height alterations in the racing car. This is a particularly big advantage for vehicles with a lot of downforce, such as the SC63. The V6 CPR Heave damper is five-way adjustable. The low-speed and high-speed parameters of the compression and rebound valves can be adjusted. The dampers also have an adjustable blow-off valve in the compression direction. In defined steps, the spring preload of the coil spring can be increased or decreased using a click mechanism. The V5 CPR Roll damper is adjustable in three ways. The valves function uniformly in the low-speed, high-speed and blow-off directions, both in compression and rebound. The KW Formula Racing dampers utilized in the Lamborghini SC63 are optimized for weight and feature a slim design. "Following our meticulous fine-tuning on the KW 7-post test rig, the Lamborghini SC63 underwent a successful test phase in recent months as we collaborated closely with our technical partner, Lamborghini Squadra Corse, on the racetracks," remarks Thomas Rechenberg. Currently, KW's extensive Track Performance delivery program stands as one of the industry's most comprehensive offerings. More information is available at www.kwautomotive.de

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About KW automotive:

The KW entrepreneurial group includes the suspension manufacturer KW automotive with its brands KW suspensions, ST suspensions, ap Sportfahrwerke, as well as the SimRacing brands TrackTime and Ascher Racing. With its immense suspension portfolio, state-of-the-art production technology, and development and test center, KW successfully operates in all markets for more than 25 years. Over the past years, KW automotive has developed over 16 distinct damping technologies to fulfill its requirement of supplying "the perfect suspension for every demand". Besides its core business, the development and production of manually and adaptively adjustable coilover kits and other suspension components for the aftermarket as well as the range of accessories of various automobile manufacturers in the premium segment, the business field of original equipment for special models and super sports cars of the automotive industry are developing tremendously positively for the German suspension manufacturer. Since KW is a development partner of sophisticated controlled suspension systems, the manufacturer disposes of the entire product portfolio of hydraulics, electronics, sensor technology, control units, and damper control systems as well as the necessary know-how for the application and tuning of complex vehicle performance systems from a single source. KW has become an indispensable part of customer motorsports throughout the past years and produces homologated racing dampers and suspensions for a constantly growing number of racing cars from several manufacturers. Worldwide, successful racing teams rely on the patented valve technology of KW Competition suspensions. The entrepreneurial group has subsidiaries in the most significant markets, such as Belgium, Great Britain, China, Japan, Switzerland, Taiwan, and the USA. Software and hardware solutions are further business segments as well as events for virtual motorsports in the scope of the brand RaceRoom. Equally, the suspension manufacturers KW Damping Unit (former AL-KO Damping Unit), Belltech, and Reiger Suspension as well as the alloy wheels manufacturer BBS are brands of the KW entrepreneurial group. www.kwsuspensions.net

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