

# Driving dynamic quantum leap with KW variant 5: KW's innovative damper technology for the next generation of coilovers



Compared to conventional coilover and sports suspensions in the original equipment and aftermarket, KW relies on its successful motorsport suspension technology with displacement pistons and modular as well as series-connected damper valves.

The KW variant 5 convinces in sports cars and super sports cars with precise and lightning-fast damping without time delay. The dampers and valves react directly even with the slightest spring travel, steering movements and road unevenness. The damper valves in the KW variant 5 can be independently adjusted with 14 exact clicks in the low and high speed damping forces of the compression and rebound stages to the respective driving sensation after more driving dynamics or increased driving comfort.

In addition to continuously adjustable lowering, the displacement piston technology used in the KW variant 5 with its valves separated from the working piston offers further added value such as fully active suspension systems.

With the new KW threaded chassis variant 5, the chassis manufacturer once again lives up to its market leadership in individual chassis innovations. Displacement piston dampers for road sports cars have been adapted for the KW coilover version 5.

This technically interesting damper technology can be found in exclusive vehicles of KW industrial customers as well as in GT3 Motorsport. For example, the compression and rebound valves connected in series are separated from the working piston, which results in completely new ways of damping than with other systems. The balance between piston pressure and valve pressure is no longer necessary, so that the dampers respond much more sensitively and without any noticeable time delay. Every driving manoeuvre and every impulse - such as those generated during braking, acceleration, steering, load changes and bumps - are damped much more precisely. Displacement piston dampers support the vehicle body more effectively than conventional dampers, allowing lower spring rates to be used. The KW variant 5 prevents inharmonic handling or even GRIP loss due to a too tight chassis design. In addition, the KW Variant 5 offers the freedom to further adjust the side-mounted valves for the low and high speed forces of the compression and rebound damping with 14 clicks each, exactly to the personal desired driving behaviour. In addition, the KW coil-over suspension variant 5 allows a continuously adjustable maximum lowering to be selected.

## KW Variant 5 – Starting signal for the new generation of coilovers

A sports car equipped with the KW Variant 5 drives much more harmoniously and directly, without car enthusiasts having to compromise on driving dynamics or residual driving comfort. The new KW coilover version 5 is the next generation of high-performance coilovers from KW automotive. Depending on vehicle-specific requirements, the 4-way power-adjustable version 5 threaded suspension for axle geometries with MacPherson suspension struts, double wishbone or multi-link axles and push rod wheel suspensions, developed exclusively for sports cars and super sports cars, is available. Depending on the axle geometry, the KW Variant 5 dampers and struts are made of aluminium or stainless steel in the KW chassis factory. Depending on the vehicle model, aluminium unibal bearings, progressive springs or a two-part racing spring system are used. In the future, the versatile KW displacement piston technology will also form the basis for fully active suspensions and will be further developed.

For further information please contact us!



**RAVASICORSE**  
PROFESSIONAL RACING & TUNING EQUIPMENT

Available from the Ticino rally supplier  
and tuning specialist  
MARIO RAVASI SA in Genestrerio.

MARIO RAVASI SA  
Via Prella  
6852 Genestrerio

Tel.: 091 647 25 03  
Mail: [info@ravasicorse.ch](mailto:info@ravasicorse.ch)

