

T *TRACTIVE* Suspension The Art of Suspension

AUTOMOTIVE



THE COMPANY

TracTive Suspension was established on June 1st 2010. Starting a suspension company in the middle of the 'Dutch Suspension Valley' meant having to avoid being a dime a dozen.

An unconventional approach was needed. For TracTive, this meant focussing on its speciality, electronically controlled suspension systems. Before 2010, the founders of TracTive had already been active in electronic shock absorbers in motorsport since the mid-nineties, aftermarket shock absorbers since the 2000's, and BMW's Electronic Suspension Adjustment since 2005.

Following TracTive's founding in 2010, TracTive Suspension soon became a development partner with Tenneco Monroe, BMW, BRP Lynx, Touratech AG, Dallara, RUF Automobile, etc., while simultaneously developing its own technology base.

In 2011, TracTive patented the Dynamic Damping Adjustment (DDA) valve, which is still THE benchmark in electronic damping control. Apart from the DDA valve, TracTive has a wide variety of electronic technologies at its command: control units, remote controls, sensors, height adjustment systems etc. Above all, TracTive's team combines the highest level of technology with flexibility and passion. Exactly these characteristics make sure we always aim to deliver the ultimate solution for our customers: from motorsport to tuners and manufacturers, from a manually adjustable shock to a complete semi-active Plug & Play system for Automotive and Motorbike products.

 Developed and manufactured in The Netherlands



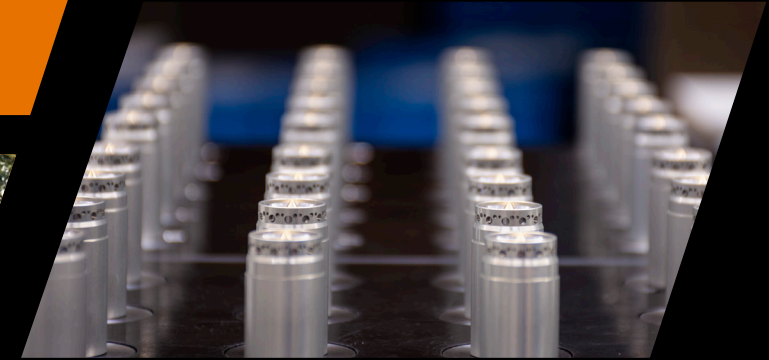
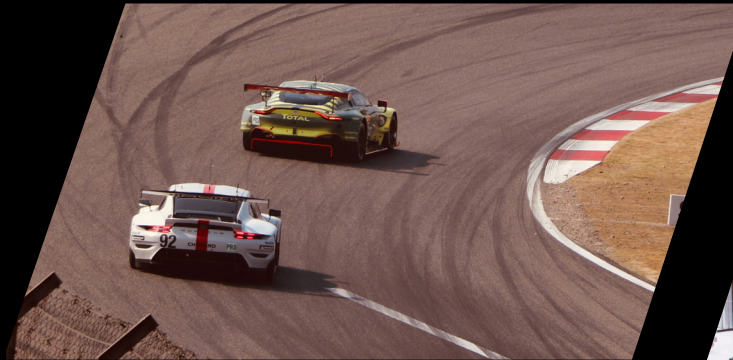
WHAT WE DO

TracTive supplies suspension systems to Original Equipment Manufacturers (OEM's) and aftermarket customers.

- ▶ **Motorbike:** Road, Off-Road, Adventure, Motorsport
- ▶ **Automotive:** Road, Motorsport, Off-Road
- ▶ **Snowmobile:** Motorsport

For international B2B customers we offer suspension prototyping, R&D, engineering, ride work and industrialisation support.

TracTive performs mass production of electronic suspension components like the DDA solenoid valve from 10.000 to 200.000 pcs annually.



TOURING LINE

The Touring line is designed and engineered to offer better performance and more comfort for road-biased cars. The ride-height can be adjusted for the intended use and desired looks. The shocks are specifically engineered to utilise the original top mounts and come complete with matching Eibach springs*.

The Touring line is available in **Active Controlled Electronics (ACE)**, with our patented **World's fastest damping valve**, or manually adjustable One-Way.

Extensive driving tests were performed to create the best product and set-up for your specific car. No compromises are made on the materials used.

You can now experience ultimate control and performance with comfort for daily use.



Intended use

ROAD

TRACK

Technical highlights

- ▶ Active Controlled Electronics (ACE) or manually adjustable One-Way
- ▶ Fitment to original top mounts
- ▶ 7075 aluminium where applicable
- ▶ Eibach springs

ROAD/TRACK LINE

The Road/Track line is the solution for drivers that want a dual purpose car. This is the solution for performance cars that are often used on track and also used for daily commuting.

This coilover system is equipped with our adjustable Motorsport monoball/camber top mounts and Eibach springs, selected from a range of spring rates.

This is a no-compromise performance upgrade for your car which offers unparalleled levels of grip, control and adjustability. This will give you the confidence to push your car to its absolute limits.

The Road/Track line is available in **Active Controlled Electronics (ACE or R-ACE)**, with our patented **World's fastest damping valve**, or manually adjustable One-Way or Three-Way.



Intended use

ROAD

TRACK

MOTORSPORT

Technical highlights

- ▶ Active Controlled Electronics (ACE or R-ACE)
- ▶ Manually adjustable One-Way or Three-Way
- ▶ Fitment of TracTive uniball top mounts
- ▶ Eibach springs with custom spring rates

MOTORSPORT LINE

We offer dedicated motorsport suspension systems that have been proven to win races. We provide four different ways of damper adjustments, two of which feature low- and high-speed compression adjustments and two of which feature our **Active Controlled Electronics (ACE or R-ACE)**.

Our products are tuneable per application, based on the requirement and specific motorsport division. This provides the best option within the requirements and regulations.

Intended use

MOTORSPORT



Technical highlights

- ▶ Active Controlled Electronics (ACE or R-ACE)
- ▶ Manually adjustable One-Way or Three-Way
- ▶ Fitment of TracTive uniball top mounts
- ▶ Eibach springs with custom spring rates

ELECTRONIC SEMI-ACTIVE DAMPING

ACE Active Controlled Electronics

Our **ACE** system gives you independent damping control. Mid-corner roll and pitch during corner entry, braking and acceleration, bumps or holes in the road are all managed independently by each shock. This is all within your reach from the comfort of your car seat with the touchscreen display.

Inside each **ACE** damper is our patented Dynamic Damping Adjustment (DDA) valve. This DDA valve is controlled by a sensitive multi-axis g-sensor and advanced algorithms developed from decades of racing and road testing. A dynamic proportional valve operating as a bypass has capacity for a large range of damping adjustment, and is capable of responding within only 6-10ms.

TracTive DDA, the world's fastest valve!

Considering the human brain reacts within 150ms, you realise what a gamechanger the TracTive **ACE** system is compared to all conventional suspension systems.

ACE has the intuitive ability to react to changing road surfaces and conditions. Bumps and compressions are absorbed before you have the chance to notice them. Especially on track through a series of high-speed curves this makes it possible to hold the line without deflection.

Grip levels in all conditions are vastly improved, maximising each tyre's contact patch. This gives you the ability to push your car to limits you wouldn't have thought possible, maintaining safer driving. Electronic damper settings are completely adjustable on your touchscreen, ranging from full road compliance to controlled aggression on track. This can be saved into five presets for one-touch convenience.

R-ACE Active Controlled Electronics

R-ACE combines all the benefits of the **ACE** technology with the addition of secondary low- and high-speed compression adjustments, which are tuned for the application and motorsport discipline.

The low- and high-speed compression damping adjusters can fine-tune damper characteristics to find the perfect balance for individual track setup, driver preferences and race pace improvements. The compression adjusters can be located remotely, piggy-backed or mounted in-line with the dampers.

As the name suggests, **R-ACE** is best suited for extreme race and endurance applications. **R-ACE** is the very pinnacle of what is currently possible using knowledge gained from decades of racing at the highest level and electronic controlled damping reacting in a few milliseconds.

Replacement or standalone

If car is originally equipped with electronic controlled damping or not, we are able to offer you a Plug & Play upgrade or a completely standalone kit, both for **ACE** and **R-ACE** systems.

MANUAL ADJUSTMENT TECHNOLOGY

One-Way manually adjustable

TracTive **One-Way** dampers are based on the knowledge obtained while developing the **ACE** systems. The dampers are built using the same high-end components as all other TracTive products and offer 20 clicks of adjustment, which will adjust both rebound and compression damping. Each application is custom valved and optimised for the best performance.

Three-Way manually adjustable

The **Three-Way** system is a no-compromise, race-developed suspension system with independent adjustment of rebound and low- and high-speed compression damping. External reservoirs increase fluid capacity to ensure lower operating temperatures when competing in race events. These reservoirs can be remotely situated, piggy-backed or mounted inline. With this system you will experience blistering reaction times, improved bump absorption and a massive increase in grip that will give you the confidence to push your car to its absolute limits and beyond, while still keeping you safe.



TECHNICAL SPECIFICATIONS

	Touring	Road/Track
43mm inverted McPherson struts	✓*	✓
38mm piston for inverted and specific rear shocks	✓	✓
46mm piston for multi-link suspension and similar	✓	✓
16mm piston rod for maximum strength and rigidity	✓	✓
Fitment to OEM top mounts	✓	
Fitment to TracTive uniball top mounts		✓
Eibach formed springs with fixed spring rates	✓*	
Eibach springs with custom spring rates	✓*	✓
ACE Active Controlled Electronics	✓**	✓**
R-ACE Active Controlled Electronics		✓**
One-Way manually adjustable	✓**	✓**
Three-Way manually adjustable		✓**

	Touring	Road/Track
Steel McPherson struts	✓	
Inverted McPherson struts		✓
Struts with adjustable 7075 aluminium mounting brackets	✓	✓
Solid top mounts for multi-link applications		✓
Silent block lower and/or upper shock eye mounts	✓	
Spherical lower and/or upper shock eye mounts		✓
Adjustable top mounts on McPherson struts		✓
7075 aluminium ARB bracket	✓*	✓*
Adjustable drop links	✓*	✓*
Stainless steel brake and sensor brackets	✓	✓

Intended use product line

Touring



Road/Track



Motorsport***



* Where applicable
 ** Depending on chosen version
 *** Due to the uniqueness of each application, our Motorsport products are manufactured upon request.

MCPHERSON STRUTS

Adjustable solid top mounts for Road/Track kits



MULTI-LINK

Non-adjustable solid top mounts for Road/Track kits with multi-link suspensions





www.tractivesuspension.com



autosport@tractivesuspension.com

T **TRACTIVE**
Suspension *The Art of Suspension*



Made in Cuijk, The Netherlands