

## THE COMPANY

TracTive Suspension was established on June 1<sup>st</sup> 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.



# **ELECTRONIC SEMI-ACTIVE DAMPING**

#### **ACE Active Controlled Electronics**

Our standalone ACE systems gives you independent damping control. You can adjust roll and pitch interference for stable braking, controlled corner entry and after hitting the apex precisely, a better acceleration out of the corner. Curbstones and road undulations are perfectly managed by each individual damper.

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 tyres 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 is all within reach for you as the driver through the touchscreen display. Five individual settings can be saved which allows you change the setup of the car within seconds.

#### 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.

#### **Plug & Play**

When your 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.

### **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\*.

For GT models, owners can order our Touring Line spec and re-use their existing factory Motorsport top mounts, keeping their cars originality. True Plug & PLay compatibility is available on later models, making replacement simplicity itself, while offering a significant upgrade over their standard suspension.

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.



You can now experience ultimate control and performance with comfort for daily use. Available for select Porsche and BMW models with full integration of original suspension controls, making it a true Plug & Play kit.

#### Intended use

**ROAD** 

**TRACK** 





#### **Technical highlights**

- Electronically Adjustable 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.

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.



Now available for select Porsche and BMW models with full integration of original suspension controls, making it a true Plug & Play kit.





#### Intended use

**ROAD** 

**TRACK** 

**MOTORSPORT** 

#### **Technical highlights**

- Electronically Adjustable 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**

- Electronically Adjustable ACE or R-ACE
- Manually adjustable One-Way or Three-Way
- Fitment of TracTive uniball top mounts
- Eibach springs with custom spring rates

# 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	<b>/</b> *	<b>✓</b>
38mm piston for inverted and specific rear shocks	✓	<b>✓</b>
46mm piston for multi-link suspension and similar	<b>✓</b>	<b>✓</b>
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	<b>√</b> *	
Eibach springs with custom spring rates	<b>/</b> *	✓
ACE Active Controlled Electronics	√**	/**
R-ACE Active Controlled Electronics		<b>/</b> **
One-Way manually adjustable	<b>√</b> **	<b>√</b> **
Three-Way manually adjustable		<b>/**</b>

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

#### Intended use product line

#### **Touring**

ROAD TRACK

#### Road/Track

ROAD TRACK MOTORSPORT

#### **Motorsport\*\*\***

MOTORSPORT

<sup>\*</sup> Where applicable

<sup>\*\*</sup> Depending on chosen version

<sup>\*\*\*</sup> Due to the uniqueness of each application, our Motorsport products are manufactured upon request.

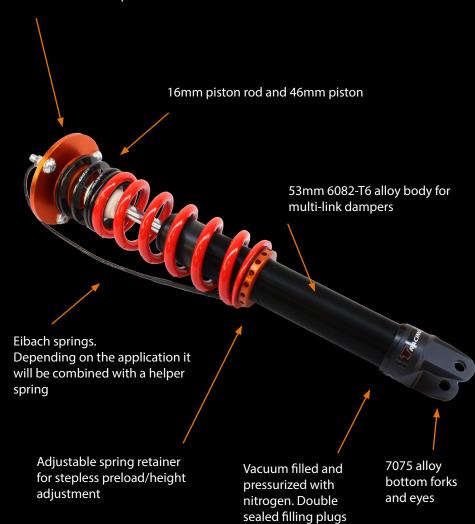
## **MCPHERSON STRUTS**

Adjustable solid top mounts for Road/Track kits



## **MULTI-LINK**

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









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Made in Cuijk, The Netherlands