FULL RANGE.

From OE replacement to motorsports.

bilstein.com
It is probably the very special mixture of consciousness of our tradition, pride, pursuit of perfection and our enthusiasm for maximum performance which makes BILSTEIN suspensions and BILSTEIN shock absorbers stand out. Each and every product that we develop incorporates the entire experience of more than 60 years of original equipment manufacturing and the insights gained from over 50 years of racing. Thanks to this special heritage, each of our suspensions and each of our shock absorbers has its own soul. This is why, in addition to undergoing state-of-the-art testing procedures, all of the products that we develop are individually fine-tuned in the BILSTEIN road test. In this way we ensure the unique BILSTEIN driving experience for original equipment, OE replacement, tuning and motorsports. The extra effort is worth it. Our numerous Best Brand Awards and the outstanding success in motorsports speak for themselves. Get to know our entire BILSTEIN product range on the following pages.

ThyssenKrupp BILSTEIN GmbH
Division Aftermarket
Actions are what legends are made of. Actions that pave the way for change. By developing the mono-tube gas-pressure shock absorber for series production more than 60 years ago, we laid the foundation for the establishment of gas-pressure technology as a standard in automotive engineering. As a result, driving became safer, more comfortable and more dynamic.

Formula 1 drivers such as Niki Lauda and Alain Prost, the 24 Hours winners Jacky Ickx and Hans-Joachim Stuck, the Rallye champion Walter Röhrl or the DTM winner Bernd Schneider became motorsport legends with the help of BILSTEIN technologies. In the current season 2015, we continue to support car racers, e.g. as the official supplier of Aston Martin Racing.

We value our tradition and love our work! We are enthusiastic about our customers, their individual needs and our uncompromising quality – from original equipment to OE replacement and motorsports.

Enjoy the perfect BILSTEIN driving experience yourself!
EVERYTHING BUT STANDARD.

Technologies.
The important automobile brands of the world trust us – for a reason: Our technologies are anything but standard. They stand for the pioneering spirit of us BILSTEINERS, are milestones of our development and a permanent feature of our products. They are used where they make sense and where the demands on our products require it.

Options.
Always one step ahead with the individual needs of our customers always in mind. This makes us BILSTEINERS stand out and we take this approach even regarding our optional highlight developments which additionally enhance our products. Depending on the product, options can be selected to increase the individual comfort experience.
Our technology highlights at a glance:

- **BILSTEIN** ride height adjustment.
- **BILSTEIN** 1-way adjustment.
- **BILSTEIN** 2-way adjustment.
- **BILSTEIN** DampMatic®.
- **BILSTEIN** DampTronic®.
- **BILSTEIN** ridecontrol®.
- **BILSTEIN** original equipment.
- Threaded body adjustable range.
- **BILSTEIN** gas-pressure technology.
- **BILSTEIN** air suspension.
- **BILSTEIN** road test.
- **BILSTEIN** twin-tube technology.
- **BILSTEIN** mono-tube technology.
- **BILSTEIN**-Triple-C-Technology®.
- **BILSTEIN** round threads.
Quality in series.

If the designation original equipment did not exist, it would have to be invented for us. For more than 60 years, we have been the development partner of choice for the suspension and shock absorber systems of renowned automakers – manufacturers in the premium segment as well as high-volume manufacturers. From the development of suspension components for series production to high-performance suspensions for motorsports or the production of high-quality repair solutions for OE replacement, our products and our expertise are in high demand. Our comprehensive product range with high market coverage and availability includes everything – from OE replacement to tuning and motorsports. This is how we ensure the legendary BILSTEIN driving experience during the entire vehicle life.
The pressure trick.

In traditional oil shock absorbers, extreme stress can lead to foaming of the oil which causes a reduction of the damping power of up to 35%. As early as in the 1950’s, we developed the BILSTEIN gas-pressure technology as a solution for this problem. With the first installation of the mono-tube gas-pressure shock absorber in series-produced vehicles at Mercedes-Benz in 1957, we firmly established gas-pressure technology in automotive construction until today – in mono-tube and twin-tube design. This means reliable shock absorption and suspension under any load and added safety in dynamic driving situations. BILSTEIN gas-pressure shock absorbers provide high traction and precise handling even under maximum load.
Not all air springs are the same.

Again, we were pioneers in original equipment manufacture and have remained the technology leader in OE replacement until today. BILSTEIN air springs not only provide damping and suspension but also level control. The counterpressure in the air bags ensures the usual driving level even under varying loads. BILSTEIN air springs are available in passive and active design. While passive air suspension systems only allow one damping setting, active air springs provide accurate characteristic lines for selection. Either the driver can switch between sports and comfort or the system itself chooses the optimum characteristic within milliseconds. Only the respective BILSTEIN technology of original equipment provides a driving experience as on day one. BILSTEIN air springs consist of 100% new parts and maintain a constant damping power and high reserve capacity for maximum safety. They are available for any air suspension system – passive or active.
Theoretically good is not good enough for us.

Needless to say that we use state-of-the-art measurement and testing procedures for objective criteria such as safety, loading, braking and steering behaviour, dynamic driving and driving comfort. In addition, however, something very human is important to us: how it feels to the driver. All our high-performance shock absorbers, air suspension modules and sport and coilover suspensions undergo a rigorous testing program with various driving situations on the Nürburgring or in our own test centre in Papenburg. Only if all our test engineers agree that the optimum is achieved, may the tested products be called BILSTEIN – a name that stands for the legendary BILSTEIN driving experience. By people for people.
BILSTEIN twin-tube technology.

Perfect damping every day.
More than 90% of all series vehicles are equipped with twin-tube shock absorbers as a standard. In shock absorbers with double-walled twin-tube technology, the piston divides the interior oil chamber into two working chambers. During bump, the piston pushes the oil into the upper working chamber and into the compensation chamber between cylinder and container tube. During rebound, the piston valve is responsible for damping. Thanks to the technology transfer from series production, our BILSTEIN twin-tube shock absorber program offers thoroughly tested original manufacturer quality for OE replacement.

BILSTEIN mono-tube / Upside-Down technology

Original high power equipment.
The original and best: Our BILSTEIN mono-tube gas-pressure shock absorbers were the first in series production and have remained the equipment of choice for high demands until today. Whether poor driving conditions, challenging loads, trailer operation, sporty driving or motorsports – BILSTEIN mono-tube technology provides higher damping power due to the larger effective surface of the piston, easier handling, consistently higher performance and a longer service life. The flexible installation options of the mono-tube technology give engineers the freedom to choose the perfect installation position. With BILSTEIN Upside-Down technology, the piston rod is installed at the bottom of the tube body. The wear-resistant chromium tube moves up and down in the friction bearings. In this way, the support and lateral forces are distributed across a large area and the torsional strength of the connection between wheel and vehicle body is increased.
Layer by layer.

The BILSTEIN-Triple-C-Technology® stands for a high-performance three-layer coating. It has especially been developed for effective corrosion protection for our coilover suspensions and optimized in the endurance test according to DIN 50021 SS. Even over 600 hours in the salt spray chamber were no problem for our special coating. In comparison: A stainless steel thread only withstands the test procedure for 418 hours.

- Coating 1: The special zinc alloy ensures excellent adhesion to the base material and long-lasting corrosion protection
- Coating 2: The homogeneous middle coating transforms the bottom zinc layer into a completely sealed surface
- Coating 3: Perfect finish and maximum protection against mechanical wear and corrosion
BILSTEIN round threads.

Perfect balance.
Compared to traditional threads, these threads are round and do not have any sharp edges. This means that the thread is less susceptible to wear caused by environmental influences such as dirt or road salt. The thread can be adjusted smoothly and safely even when installed.

Threaded body adjustable range.

Trouble-free flexibility.
Always flexible, up or down, and all that approved by TÜV: this is the threaded body adjustable range for you. The specially designed round thread with optimum fixed pretension of the sport springs ensures easy adjustment in situ and provides force-fitted driving characteristics in any situation with maximum stability.
Perfectly fine-tuned sport.

Based on the high-performance BILSTEIN mono-tube technology, the BILSTEIN 1-way adjustment provides easy damping power adjustment in situ by turning the adjuster at the shock absorber. Ten noticeable clicks give a clear haptic feedback. By adjusting rebound and bump at the same time, the driving characteristics can be perfectly fine-tuned to your individual needs. This means that with our BILSTEIN 1-way adjustment you experience sporty driving at its finest.
Maximum flexibility. Maximum sport.

Maximum softness or maximum hardness – the BILSTEIN 2-way adjustment is an all-in-one solution for sports enthusiasts: easy manual damping power adjustment and separate adjustment of rebound and bump with clearly visible precise scaling. From 1 (soft) to 10 (hard), the BILSTEIN 2-way adjustment allows for up to 100 variations with noticeable differences.
Including a change of perspective.

Our ride height adjustment kits are tested thoroughly and with various equipment options by our engineers until the absolute optimum is achieved. Only if we are 100% convinced of its driving characteristics, comfort, suitability for everyday use, appearance, aerodynamics, driving at the limit, residual spring travel, ground clearance and angle of slope, the kit may be called BILSTEIN.

Our kits which are tailored to each vehicle contain four springs and four shock absorbers each.

Our shortened and extended shock absorbers in combination with suitable springs ensure the desired effect.
Safe and comfortable.

In cooperation with Mercedes-Benz we have developed the BILSTEIN DampMatic® damping force adjustment system. At lower speeds, it automatically reduces the damping force and ensures greater driving comfort. When the movements are more intense, the damping force is increased to improve the vehicle stability. The results are high performance reserves, maximum safety and as such, the ideal OE replacement for all BILSTEIN DampMatic®-equipped Mercedes-Benz vehicles.
We do that for you.

As a practical plug & play solution, our active BILSTEIN DampTronic® damping system offers the ideal upgrade for vehicles with factory-fitted electronic adjustment systems. As you drive, vibrations are constantly monitored by sensors and relayed to the central control unit and the shock absorbers. This means the vehicle constantly and automatically adjusts itself to the road conditions – for perfect traction control and stable handling. Our broad OE replacement range includes a large selection for makes such as Mercedes-Benz, BMW, Porsche and many more.
Pure individuality.

Enjoying the perfect driving experience, getting the most out of every curve – the personal demands for a suspension system can differ immensely. BILSTEIN ridecontrol® is a byword for individuality. The system provides an easy way to reconfigure suspension settings, simply by pushing a button on the dashboard. By activating “Sport” mode, you get excellent driving dynamics from a standing start and maximum high-performance reserves, even when you’re right on the limit.
Appsolutely smart choice.

Why press buttons in your car when you’ve got a smartphone? The BILSTEIN iRC® module with 3D-G acceleration sensor allows you to actively and individually configure your suspension using a phone app for BILSTEIN ridecontrol® suspension systems. With the selectable modes of “comfort+”, “sport+” and “auto”, you can set the optimum driving characteristics in response to any demand or driving situation. The app which is compatible with all iOS and Android systems earned the name BILSTEIN due to its additional adjustment options for tolerance angles, acceleration thresholds (crosswise, lengthwise, vertically) and, of course, control times. The possibility to use the dashboard button for switching remains.
FULL RANGE.
Precisely fitting accessories.

With shock absorbers, the inner values are what counts but every shock absorber is only as good as its attachment and service parts. With BILSTEIN B1, we offer a broad range of accessories, which are perfectly adapted to our shock absorbers, for virtually any vehicle model in uncompromising original equipment manufacturer quality: support bearings, protective tubes and bump stops.

Product benefits at a glance:

- All parts are perfectly adapted to our BILSTEIN shock absorbers
- Broad support bearing range for virtually any type of car
- Original BILSTEIN service parts in high original manufacturer quality
BILSTEIN B2.

Simply good.
Our BILSTEIN B2 program offers everything for the simple and cost-effective OE replacement of oil dampers in tested original equipment manufacturer quality and is therefore ideally suited for value-based repair in case of normal vehicle use.

Product benefits at a glance:
- Only tested OE quality
- Favourably priced alternative at the highest level
- Technology transfer from series production
Coil springs in a class of their own.
As a successful supplier of original equipment to renowned vehicle manufacturers, we know exactly what is required: uncompromising quality. And that maxim applies equally to our BILSTEIN B3 range of OE replacement coil springs.

Product benefits at a glance:

- Innovative technical designs such as pigtail ends, minibloc shapes and central force design.
- High-quality chrome vanadium or chrome silicon steel for an extremely high level of break resistance
- Hot setting after forming effectively prevents height losses
- Careful surface compression and coating for a long service life
- Uncompromising OE quality: spring design identical to series production
- Comprehensive product range with high market coverage and availability
Gas-pressure makes the difference!

Over 60 years ago, we developed the mono-tube gas-pressure shock absorber for series production. The BILSTEIN B4 is available for practically any model of passenger car – in both mono-tube and twin-tube shock absorber versions!

Product benefits at a glance:

• High power reserves for maximum safety
• Optimum driving experience as on day one
• High OE quality
• Constant damping power under any load
• High traction and precise handling thanks to BILSTEIN gas-pressure technology
• Comprehensive product range with high market coverage and availability
BILSTEIN B4 air suspension module.

Unrivaled.

In close cooperation with Mercedes-Benz, we developed the BILSTEIN B4 air suspension module for maximum driving comfort. The revolutionary design provides damping, suspension and level control in one single part. The BILSTEIN B4 air suspension module is available for active and passive systems and is therefore the ideal OE replacement part for a perfect driving experience as on day one.

Product benefits at a glance:

• 100% functionality as on day one
• 100% new parts for maximum stability and reliable safety
• 100% uncompromising OE quality
• 100% comfort
• Available for all air suspension systems – active and passive
• Individually fine-tuned in the BILSTEIN road test
Better than the original.
The ideal gas-pressure shock absorber for those who refuse to compromise, either on performance or on comfort, even when the pressure is on. Our yellow BILSTEIN B6 shock absorber delivers a better quality of OE replacement when the demands are high.

Product benefits at a glance:
• Higher power reserves and a longer service life even when pulling transporters and trailers or during frequent journeys with loads
• Optimum grip and enhanced lane stability in day to day and extreme situations
• Perceivably enhanced safety and performance without additional spring exchange (use of series spring possible)
• High traction and more precise handling thanks to BILSTEIN gas-pressure technology
• BILSTEIN mono-tube Upside-Down technology possible
• Individually fine-tuned in the BILSTEIN road test
• No TÜV registration required
High performance when the road runs out.

Our BILSTEIN B6 4600 is the ideal gas-pressure shock absorber for all those who feel at home on and off the road. The precise adjustment reduces uncontrolled movement of high-bodied vehicles like SUVs and light trucks. The steering precision and the suspension’s load carrying capacity are increased. That guarantees better control of your vehicle, safer handling and better traction.

Product benefits at a glance:

- Optimum grip and enhanced lane stability in day to day and extreme situations
- Higher power reserves and a longer service life even when pulling trailers or driving offroad
- Perceivably enhanced safety
- No spring change required (use of the series spring possible)
- BILSTEIN gas-pressure technology
- BILSTEIN mono-tube Upside-Down technology possible
- Individually fine-tuned in the BILSTEIN road test
- No TÜV registration required
BILSTEIN B8.

Model athlete.
Our BILSTEIN B8 gas-pressure shock absorbers offer the perfect performance enhancement to go with the sporty look of lowering suspension kits. The specially shortened high-performance shocks guarantee the required spring tension for lowering springs and therefore support the sporting and dynamic driving experience.

Product benefits at a glance:

- For virtually any lowering spring sets and series production sport suspensions
- Perceivably enhanced safety and sport with additional spring change (lowering)
- Sporty approach with high level of comfort
- Precision handling and optimized vehicle control
- BILSTEIN gas-pressure technology
- BILSTEIN mono-tube Upside-Down technology possible
- Individually fine-tuned in the BILSTEIN road test
BILSTEIN B8 5100.

Taking you to the next level.
The ideal shock absorber when you need more clearance and ultimate traction. Thanks to its longer design, the BILSTEIN B8 5100 perfectly fits lifting kits for SUVs and light trucks. Enjoy the perfect BILSTEIN driving experience, even off the road.

Product benefits at a glance:
- Higher power reserves and a longer service life even when pulling trailers or driving offroad
- Optimum grip and enhanced lane stability in day to day and extreme situations
- Perceivably enhanced safety
- Perfect in combination with lifting kits
- BILSTEIN gas-pressure technology
- BILSTEIN mono-tube Upside-Down technology possible
- Individually fine-tuned in the BILSTEIN road test
- Optional oil reservoir increases the performance and at the same time enhances cooling even under higher load
BILSTEIN B12 Pro-Kit.

Four times stronger.
Our BILSTEIN B12 Pro-Kit allows cars to be lowered by up to 40 mm. The kit has the perfect combination of sporting dynamics, impressive looks and load-bearing performance capacity. Making all of this possible are the precisely shortened BILSTEIN B8 high-performance shock absorbers. During BILSTEIN road tests, these have been optimally matched to the EIBACH springs built into the suspension.

Product benefits at a glance:
• Precise response, excellent driving dynamics and high reserves of safety
• Even lowering up to 40 mm
• EIBACH Pro-Kit performance suspension spring with progressive characteristics
• Optimum, exact fine-tuning of spring and shock absorber in the BILSTEIN road test
• BILSTEIN gas-pressure technology
• BILSTEIN mono-tube Upside-Down technology possible
• German TÜV certificate
• Extensive product range
BILSTEIN B12 Sportline.

For road lovers.

Our BILSTEIN B12 Sportline suspension kit allows cars to be lowered by up to 50mm and impressively combines all the benefits of high performance BILSTEIN B8 shock absorbers with sportily-taut EIBACH suspension springs. During BILSTEIN road-tests, these two components have been precisely aligned with each. The kit offers not just maximum in dynamic looks, but also plenty of performance reserves – even when you’re right on the limit.

Product benefits at a glance:

- Direct response, favourable dynamic driving and a sporty look
- Even lowering up to 50mm
- EIBACH Sportline Performance Sport suspension springs with progressive characteristics
- Optimum, exact fine-tuning of spring and shock absorber in the BILSTEIN road test
- BILSTEIN gas-pressure technology
- BILSTEIN mono-tube Upside-Down technology possible
- German TÜV certificate
- Extensive product range
BILSTEIN B14.

Get closer to the road.
Now you can get so close to the road you can practically smell the asphalt. Road-tested under BILSTEIN motorsport conditions, each component is individually aligned, meaning the BILSTEIN B14 coilover suspension kit offers a thrilling performance on the road. With lowering of approx. 30 to 50 mm at front and rear it gives you maximum flexibility and individuality.

Product benefits at a glance:
• Threaded body adjustable range of up to 20 mm in situ at both axles
• Lowering of approx. 30 to 50 mm at front and rear
• Road-tested by BILSTEIN under motorsports conditions and fine-tuned
• Surface coating using Triple-C-Technology® for long-lasting corrosion resistance
• Quality sport springs made from highly durable material
• BILSTEIN gas-pressure technology
• BILSTEIN mono-tube Upside-Down technology possible
• German TÜV certificate
Focussed on the individual challenge.

Our BILSTEIN B16 coilover suspension kit offers a mechanical parallel setting of the rebound and bump level, that clicks into place at any of ten clearly accessible position settings. The simple setting of the damping force gives you the ultimate degree of individuality.

Product benefits at a glance:

- Simple damping power adjustment
- Threaded body adjustable range in situ at both axles
- Lowering of approx. 30 to 50mm at front and rear
- Robust lightweight design with disc springs and lock nuts made of a special aluminium alloy
- Surface coating using Triple-C-Technology® for long-lasting corrosion resistance
- Robust round thread for easy handling
- Quality sport springs made of highly durable material for a reliable and long service life
- BILSTEIN gas-pressure technology
- BILSTEIN mono-tube Upside-Down technology possible
- German TÜV certificate
Out of love for motorsports and for the road.

The BILSTEIN Clubsport suspension kit takes our motorsport know-how and transfers it 1:1 to the open road. A high-end German TÜV-approved coilover suspension system and the high-performance BILSTEIN mono-tube technology meet the most exacting of demands.

Product benefits at a glance:

• Separate configuration of rebound and bump
• 100 setting variations that can be experienced and manually selected with tangible differences
• Aluminium adjusters with clearly visible and easy-to-read scale from 1 (soft) to 10 (hard)
• Positive engagement and colour-coding: Red for rebound, blue for bump
• Simple set-up changes in situ without additional tools
• Camber adjustment with aluminium uniball support bearings for optimum cornering stability
• Weight and installation space advantages thanks to integrated reservoir
• Extremely resilient design with quality sport springs made of high-strength material and disc springs and lock nuts made of a special aluminium alloy
• Highest force closure by BILSTEIN mono-tube gas-pressure technology from the field of motorsports: “Made in Germany”
• Basis for further customisation for use in racing
• German TÜV certificate