

MAKE IT EASY. MAKE IT

MOOG

Steering and Suspension Parts for Light Vehicles.



MOOG provides three strong benefits to support your business

EASY TO TRUST

Designed, produced and tested according to ISO standards and backed-up by a warranty of 3 years. We take quality testing very seriously and our unique protection measures provide outstanding durability.

EASY TO INSTALL

With MOOG, you can always rely on the most complete range for every part. Our kits contain all necessary accessories such as bolts and washers to make your life even easier.



EASY TO KNOW

As your time is precious, MOOG offers you the most comprehensive parts identification and information tools. An online and offline catalogue, regular emails, instructional videos, transfer steering and suspension parts and much more...



MOOG Quality

As a leading aftermarket supplier, we make sure that our parts provide a long-term solution for customer problems. We believe our products have to perform even better than the original equipment.

DESIGN BASED ON OE MASTER

Our engineers use the original equipment as the master to develop all MOOG products. The metallurgy and geometry of every original part is identified, measured and improved whenever possible. Next, every product is subjected to extensive testing to ensure quality and safety for drivers. The advantage of hindsight.

QUALITY THAT MEETS THE ORIGINALS

MOOG offers more than just quality parts. We provide trust. All our products undergo extensive testing and they are compared to original equipment as well as to our competitors' parts.

TESTED FOR GREATER TRUST

The reason is simple: if issues crucial to steering and suspension parts are not detected in time, it can cause serious problems for the vehicle's longevity as well as for the driver's safety. When these parts have to be replaced, this has to be done with only the very best, strongest, most resilient and reliable parts. And that is exactly what MOOG offers. The numbers don't lie.



The uneven surface of the road with a constant stud swing around 60° confirmed the parts flexibility.



The cobblestones really put our MOOG parts to the test with forces very close to the maximal stud pull-out strength.



The MOOG parts survived the onslaught of rain, mud and moisture thanks to their protective cataphoresis coating.



Gravel stones projected to the chassis parts could not impact MOOG's enormous housing strength.

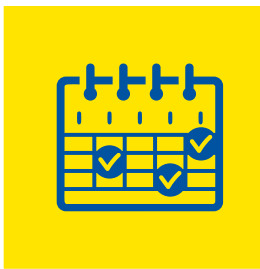


The 4 steps to launching a perfect new MOOG product

MOOG offers the most complete range of steering and suspension parts. We support distributors and installers in their ambition to give their customers the best service and the best quality in the market.

Our range grows with hundreds of new parts every year. These products always follow the same four steps before being introduced.

STEP 1



New Product Introduction Preparation

- Define the scope.
- Plan resources: people and test equipment.
- Federal-Mogul Motorparts, as a global supplier, employs engineers with decades of experience with evaluating OEM and competitor's products.

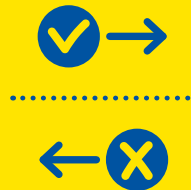
STEP 2



Design Validation

- Purchase the OE part as a master or reference for the MOOG product and measure the critical parameters.
- Compare the proposed design with the OE design in terms of dimensions, material and physical properties.
- When the product meets or exceeds the test results of the OE, engineers will approve the part for design.

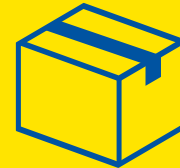
STEP 3



Product & Process Validation

- When the part is approved, a production process will be drawn up. The quality department must validate this process.
- Before the final production release, first off the line samples are tested and measured for conformity.

STEP 4



Product Launch

- Packaging matters, which is why we provide kits containing the part and all the necessary hardware such as bolts and washers.
- Every part will be subjected to a pre-delivery inspection at the manufacturing plant and one last inbound control at our distribution centre has to ensure the product's quality and consistency.

MOOG: quality on every level to make the difference for your workplace.

The professional service and quality of the parts used make all the difference for a workplace. That's why MOOG offers a range of steering and suspension parts that is **second to none**.

Count on MOOG for OE matching quality

While many competitors compromise on material quality, MOOG is committed to offering nothing less than **a quality that matches OE specifications**. Every part is designed and thoroughly tested to guarantee perfect performance and outstanding durability.

Count on MOOG to improve your profitability

We are well aware that **time** is the crucial factor in the profitability of your workplace and the satisfaction of your customers. So everything we do we do to allow **faster working, higher productivity and better profitability** for the workplace.



Warranty

MOOG: quality guaranteed

Thanks to a comprehensive New Product Introduction process and rigorous testing procedures we are confident about the quality of our products. That's why every MOOG part is backed-up by a **3-year guarantee**.*

On top of this, any feedback from the market on OE and MOOG products is used by our engineers to drive continuous product innovations and improvements. That's our guarantee for your peace of mind.

* Warranty is subject to terms and conditions.

One-Stop Solution: 2 brands, 1 solution.



MOOG helps to simplify your service with a One-Stop Solution program that saves downtime by carrying out a full braking and, steering and suspension service in one go. Thanks to our One-Stop Solution program, it is possible to cross-link between the MOOG® range and Ferodo® product portfolio.

Simply press the  button to find the corresponding parts for your application.



Want to know more? **Check out our websites!**



MOOG TEST FACILITIES

Tested according to the highest industry standards

In order to guarantee a superior performance, our test facilities in St. Louis (USA) and Kontich (Belgium) examine all aspects of our products. This includes: materials, durability, wear, fit-form-function, **OE specification conformity and OE load capability examinations.** This allows a reactive and fast-paced development process.

Additionally, we ensure every part arrives and leaves in perfect condition through inwards and outbound controls at our distribution centres.



MOOG Testing
✓ Product Design
✓ Metrology (Dimensional)
✓ Materials
✓ Durability Testing
✓ Environmental Testing
✓ Vehicle Testing
✓ Vehicle Inspection
✓ Machine Shop



Our number one selling axial rod: RE-AX-2091



This part is fitted to over 2 million vehicles in Europe, most commonly the **Renault Megane MK II** and **Renault Scénic II**.



About the axial rod

The axial rod is also known as the inner tie rod end. This is an integral part of a vehicle's steering. It forms the connection between the steering rack and the tie rod end.

The tie rod end is the connection between the axial rod and the steering arm of the spindle. It transmits axial forces to the steering arm via the tie rod end as the driver turns the wheel. So in short: the driver cannot steer a car without this part.

MOOG RE-AX-2091 Product benefits

- Better housing strength
- Better stud strength
- Better stud swing
- Extended durability
- Key grooves make the MOOG part easier to install than the OEM equivalent

Feature	OE	MOOG	COMPETITOR 1	COMPETITOR 2	COMPETITOR 3
Stud Strength	100% OEM	114% OEM	114% OEM	100% OEM	100% OEM
Housing Strength	100% OEM	172% OEM	60% OEM	100% OEM	100% OEM
Stud Swing (Total)	60°	62°	60°	60°	56°
Stud Pull-out Strength	4,5 kg	4,5 kg	4,5 kg	4,5 kg	4,5 kg
Fastener Grade	100% OEM	100% OEM	100% OEM	100% OEM	150% OEM

■ Better than OEM

■ Equivalent to OEM

■ Worse than OEM

The link stabiliser with the best in class stud swing: FD-LS-0090

This part is fitted to 6.5 million vehicles in Europe, most commonly the **Ford Fiesta MKIII, IV, Focus and KA.**



About the link stabiliser

The stabiliser bar connects the left and right suspensions to each other. The link stabiliser secures the anti-roll bar to the wheel assembly. It allows movement and suspension travel. The link stabiliser assists the anti-roll bar during operation and improves the stiffness of the car. It stops the car from swaying too much as the vehicle turns and helps to keep control of the vehicle.

MOOG FD-LS-0090 Product benefits

- Long-lasting material – thanks to extreme durability tests and improved design against weathering
- Fast installation – all hardware included

Feature	OE	MOOG	COMPETITOR 1	COMPETITOR 2
Bearing Type	100% OEM	100% OEM	100% OEM	100% OEM
Stud Strength	100% OEM	100% OEM	100% OEM	100% OEM
Housing Strength	100% OEM	100% OEM	94% OEM	100% OEM
Axial Deflection	0.05 mm	0.00 mm	1.2 mm	0.5 mm
Stud Swing (Total)	29°	34°	27°	28°
Dust Boot Material	100% OEM	100% OEM	100% OEM	100% OEM
Fastener Grade	100% OEM	100% OEM	100% OEM	100% OEM
Bearing Material	100% OEM	100% OEM	100% OEM	100% OEM

■ Better than OEM

■ Equivalent to OEM

■ Worse than OEM

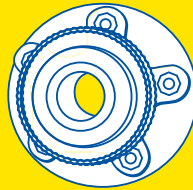
MOOG: N°1 in Coverage.



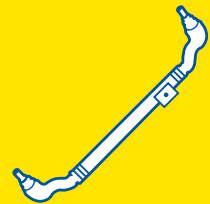
Steering



Axial Rods
644 references



Wheel End Bearings
1200 references



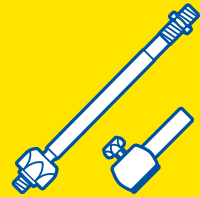
Drag Links & Centre Arms
40 references



Tie Rod Ends
1027 references



Steering Rack Gaiter Kits
298 references



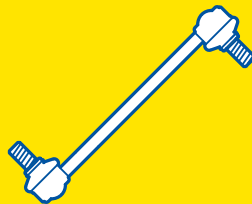
Tie Rod Assemblies:
Tie Rod End + Axial Rod
274 references



Suspension



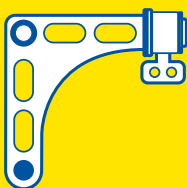
Ball Joints
610 references



Stabiliser Link Bars
720 references



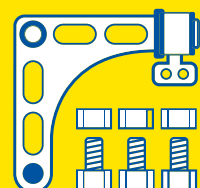
Rubber-to-Metal
2031 references



Wishbones
870 references



Track Control Arms
740 references



Repair Kits
99 references

MOOG is proud to offer the most complete range of steering and suspension parts. We support distributors and installers in their ambition to give their customers the

best service in the market. We extend our range with hundreds of new parts every year. And whatever part you order, you can always count on MOOG's 3 year Warranty.



Wheel end bearings for the next generation

MOOG is the **global market leader** in Wheel End Bearings. Every part that is provided meets the same **stringent specifications** as the corresponding OE part. Wherever bearings are patented, MOOG provides the OE parts. In this way, MOOG always offers a part you can fully trust.

Building on the unquestioned quality reputation of its steering and suspension components, MOOG now launches an **extended range** of Wheel End Bearings, comprising over 1.200 references, covering all LV and LCV types.



92%
COVERAGE

An extensive range covering all generations

With over 92% coverage and more than 100 new product introductions, MOOG demonstrates its commitment to be installers' and distributors' preferred supplier and partner of choice for wheel end bearings.



True peace of mind

MOOG wheel bearings are engineered, tested and validated to meet or exceed OE standards and come with a 3 year guarantee.

Everything included in the box

Every single wheel bearing contains all necessary hardware and accessories such as as nuts bolts and oil seals, O-rings, washers, caps, circlips, gaskets and split pins for a perfect and trouble free installation.





The benefits for you as an installer

- An **extensive range** covering all generations
- **3 year guarantee**
- **A full accessories program** (included in each box) allows for convenient installation
- **Brake disc hub assembly kits** are covered in the range
- **OE level quality**
- **OE parts** are provided wherever bearings are patented
- Online catalogue at **www.moogparts.eu**
- **Easy Solution** and **technical bulletins** to keep you informed
- **FM Campus virtual trainings** available 24/7 online at **www.fmcampus.eu**

An easy source to get the most out of the available MOOG tools.



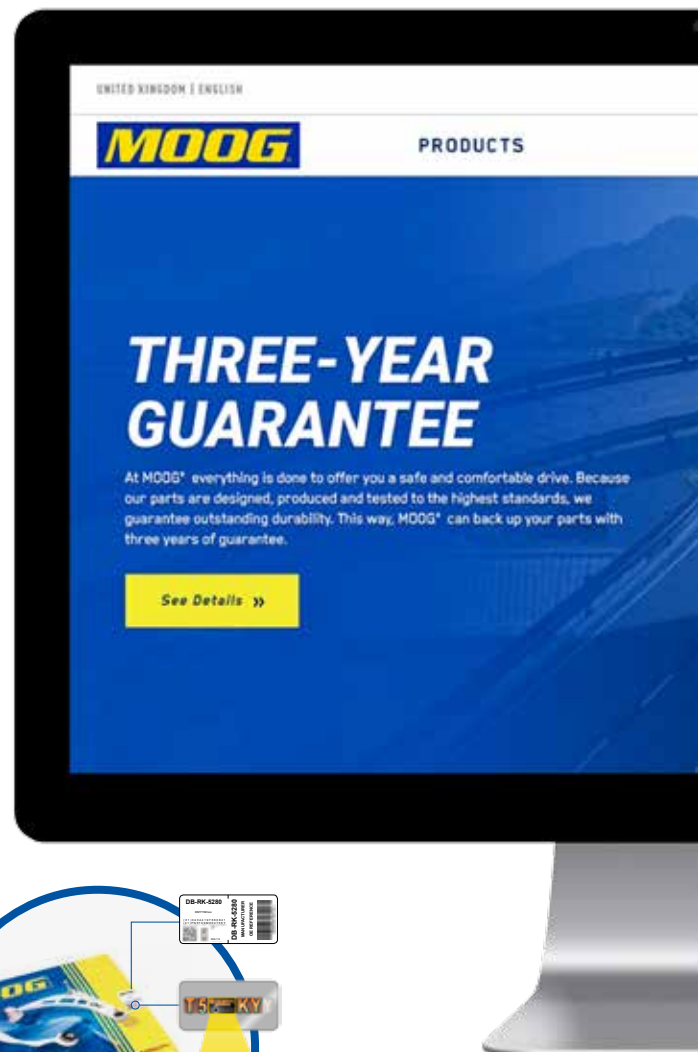
QUICK IDENTIFICATION OF MOOG PARTS ON E-CATALOGUE

- 2 pages for each vehicle
- Clear photos of each part
- Fitting diagrams with separate images of front and rear axles
- Includes daily updates on new vehicle listings and NPI's



TRAINING BECOMES EASY WITH VIRTUAL CAMPUS

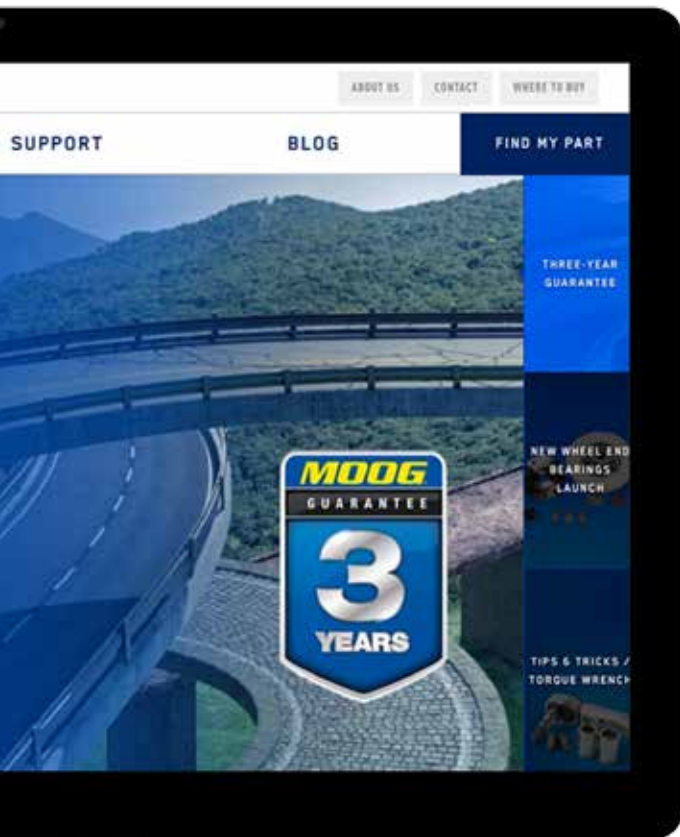
- Steering & Suspension Parts Training tailored to your needs
- Full 24/7 access to 8 online courses and webinars
- Choose your level of expertise and speed



QUICK CHECK IF IT'S ORIGINAL MOOG QUALITY

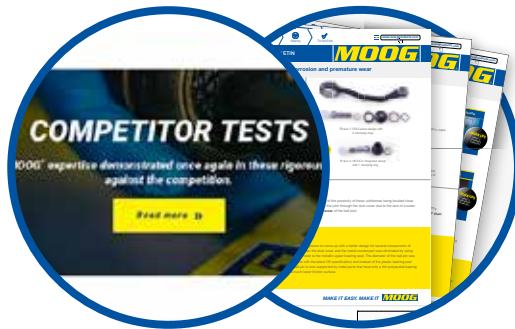
- Our anti-counterfeit program immediately informs you
- Latest Priospot technology assures that each box contains original MOOG parts

Also available in other languages:



VIDEOS

MOOG makes your chassis repairs easy. Check out our videos for news and updates.



ALWAYS UP-TO-DATE ON PRODUCTS AND SERVICES

- Download our full range of product specifications
- Concise newsletters with value-adding information
- Solution Bulletins and Technical Bulletins



Subscribe now
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receive regular updates!

MOOG E-MAIL ALERTS

Stay up-to-date and subscribe to our e-mail alerts

MAKE IT EASY. MAKE IT

MOOG

PEACE OF MIND, WHATEVER ROAD YOU TAKE



3 year guarantee on MOOG parts

At every stage during production, testing and assembly, we make sure our components match OEM quality. We trust our quality and you can too. That's why we offer a 3-year guarantee for all MOOG chassis parts and wheel bearings for passenger cars.

That's why it's easy to trust MOOG.



 **FEDERAL-MOGUL
MOTORPARTS**

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