

PERFORMANCE SHOCK ABSORBERS

**Bus, Truck & Trailer,
Commercial and Specialty Vehicles
Aftermarket**





WHO WE ARE

Working Together to Create World Class Products

KONI develops, manufactures and sells worldwide specialty high quality hydraulic shock absorbers and systems for street and racing cars, buses, trucks, trailers, railway rolling stock, defense and industrial applications.

In the bus, truck and trailer market the demands for even higher standards for safety, durability, performance and passenger-comfort are universal. That is why we strive to be the leading solution provider globally. Operating on all continents, KONI dampers are supplied to the world markets through a vast number of local distributors. Providing added value to you means that we are connected to your markets and therefore your needs. We deliver anywhere, anytime, worldwide.

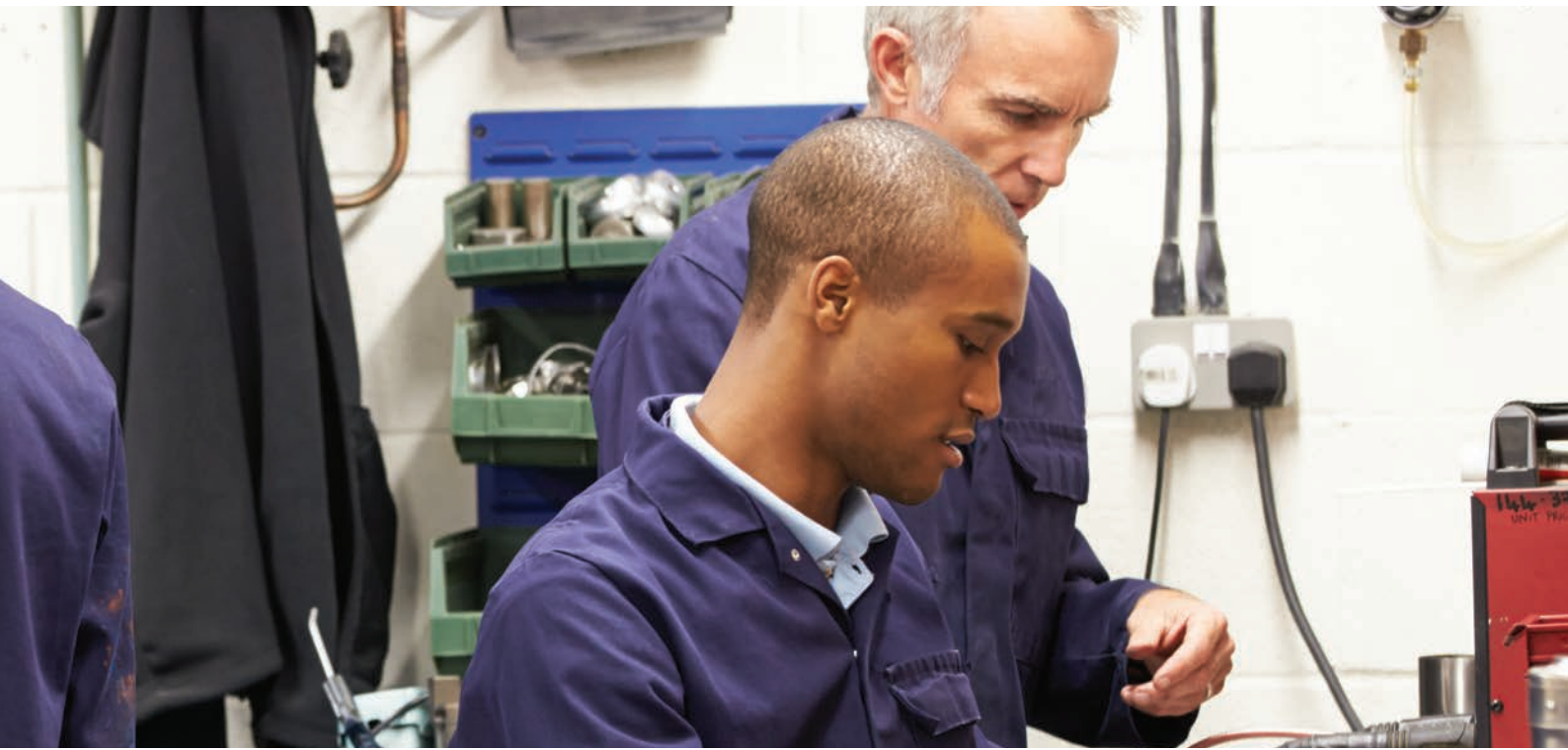
As a market leader, we are committed to offering an unmatched service for bus truck and trailer solutions. If we want to exceed your expectations, we need to connect to your business. So we focus on your demands and requirements, whereby working together as a team is the key.

We truly believe teamwork and sharing knowledge supports your business and, therefore, ours.

KONI is the shock absorber specialist. For more than a century we have created products that excel in the toughest and the smoothest of conditions. Each KONI shock absorber and ride system is aimed to enrich the user experience; therefore we like to think that our products have a personality of their own. In a way, diversification is our specialization. Cars or bridges, trains or ferris' wheels, desert racers or army vehicles for the freezing poles: we see opportunities in everything that moves, regardless of the circumstances.

KONI has also Proven its Expertise by Providing Dampers for:

- Passenger Cars
- Classic cars
- Racing Cars
- 4x4 vehicles and SUV's
- Recreational Vehicles
- Other Heavy Duty vehicles and Industrial Applications



AN ITT COMPANY

KONI is an ITT Company

ITT is a focused multi-industrial company that designs and manufactures highly engineered critical components and customized technology solutions. Our customers in the energy, transportation and industrial markets depend on us to solve their most critical problems, and we focus on partnering with them to find solutions to their unique challenges. Founded in 1920, ITT is headquartered in White Plains, N.Y., with employees in more than 35 countries. The company has sales in approximately 125 countries and generated 2013 revenues of \$2.5 billion. KONI is part of ITT since 1972.

For more information, visit www.itt.com





INNOVATION

KONI invests heavily in innovation. It is one of our core qualities required to continue to produce highly qualified shock absorbers. In KONI's vision innovation is the ultimate way to keep improving the world through technology and maintain being a market leader when it comes to bus, truck, and trailer, or recreational and specialty solutions.

The research, development and engineering departments of KONI are totally committed to the KONI philosophy of offering the best shock absorber and life expectancy for any application. Contemporary computer supported design technologies, highly (often internally) trained and motivated personnel and the availability of extended measuring and testing facilities lead to well researched and thoroughly developed new products. All of the new product developments are executed under the regime of the international automotive industry standard ISO TS 16949, which secures that all products fully meet their determined objectives - in every aspect.



Solution

KONI dampers are designed to enhance the vehicles performance, with inventions such as FSD the physical behavior of the damper is optimized without using complex electronic controls. Many other seemingly small details inside the dampers do actually make the difference between a very good and an average result

KONI develops technology with the customer and vehicle in mind. Suspension knowledge and vehicle behavior are our specialty.

Innovation Process

Innovation is developed according to a value-based product development process, leading to an approved and efficiently produced product by following a structured methodology of a new idea. The first phase consists of generating concepts, simulations, calculations and fundamental research. Only then follow testing the life cycle, fabrication and production processes. After each phase an evaluation is performed on the feasibility of desired product performance.

CONTINUITY

Market Leading Dampers

- KONI shock absorbers are market leading products:
- Long lifetime of the dampers
- ISO TS16949 Quality certificate

KONI dampers last extremely long. For 91 type trailer dampers, a lifetime of more than 1,000,000 kilometers is no exception. The availability of replacement bush kits extend their lifetime even more. That's why KONI dampers have the lowest cost per km.

Our engineers benefit from KONI's many years of know-how and experience in supplying to Original Equipment Manufacturers (OEM). Also, our involvement in special projects such as rallies and other racing activities enhance the development of bus, truck & trailer dampers.

KONI shock absorbers are specifically developed for any type of vehicle or driving condition. Be it military or construction vehicles we deliver with precisely determined damping forces and characteristics. A KONI is never a simple copy of the original but a tailor made design. This way you get the best comfort and road-holding performance.

- Increased comfort and road-holding performance
- Worldwide OEM contracts
- Low warranty rates

KONI grew from being a small regional producer into a world renowned manufacturer. Today we total more than 35 official Bus, Truck & Trailer distributors worldwide and exports to more than 90 countries.

KONI shock absorbers are used by leading bus, truck and trailer manufacturers, including: Alexander Dennis, Van Hool, VDL, Tamsa, KARSAN, Volvo Bus, Isuzu, Irizar, Kenworth, Weweler, SAF, Assali Stefen, Gillig, New Flyer, Navistar, Renault, John Deere, and Agco.



LIGHT COMMERCIAL VEHICLES

Type 30/80/82/87/88

Light commercial vehicles need to perform every day and that is why the robust and durable KONI shock absorbers are the best choice. Reliable and often adjustable, they offer an unbeatable package. This ensures that the driver can just focus on driving while enjoying a safe and comfortable vehicle.

- Increased comfort level
- Often adjustable- so adaptable to variable vehicle specs and / or loads
- Optimal safety level
- Extremely durable
- Best price / performance ratio on the market





CAMPERS / MOTORHOMES

Type 8205/8705/8805

KONI's patented FSD technology is perfectly suited for Campers / Motorhomes with their high center of gravity and big overhangs. With this technology KONI is able to create the best combination of superior comfort and exceptional road-holding making any camper trip a pleasure; be it a short or a long one.

Features & Benefits

- Increased comfort level
- Less pitching and rolling
- Increased safety level
- Less prone to cross winds
- No constant corrective steering actions needed
- Noise level inside the cabin drops considerably





BUS DAMPERS

Type 88&90

These traditional, robust dampers are used for many years on buses and other commercial vehicles. Well-known for ride quality, adjustability and durability, these dampers are a perfect solution for all countries where being long-lasting is an important asset. Features including hydraulic rebound and special rubber mounts. Safety and reliability are proven and result in a low cost of ownership. Comfort is one of the most important issues for the performance of any bus. Companies like Irizar, Temsa, Otokar Van Hool, VDL Bus International and Volvo equip their coaches and buses with KONI shock absorbers due to the improvement in comfort.





EVO Range Type 89B&99B

KONI has developed a new range of revolutionary shock absorbers that defines the next step in the evolution of bus suspension technology. One of the many benefits of this new range of BUS EVO dampers is a reduction in body vibration providing a quiet, smooth, limousine-like driving experience. While the passengers will enjoy maximum ride comfort, the driver has full control of the bus in any condition, providing maximum safety and reliability. With an unrivaled design that actually reduces vehicle weight, owners will see a lower cost per km / mile to operate.

Features & Benefits

- Increased safety
- Increased damper endurance
- Less wear on all suspension parts
- Less maintenance
- Also very well suited for top-heavy buses (e.g. CNG)
- Satisfied passengers
- Easier to drive
- Lowest cost per km / mile





TRUCK DAMPERS

Type 88&90

KONI boasts an extensive range of dampers that are perfect for trucks, tractors, and construction equipment. They're durable, adjustable, and provide a comfortable ride over any terrain; from desert sands to arctic tundras.

Features & Benefits

- Less wear and tear
- Cost efficient
- Durable
- Adjustable options available





EVO Range Type 88T&90T

In the evolution of truck suspension, KONI has developed a revolutionary shock absorber for today's modern truck (EURO 6). This new range of EVO dampers redefines what comfort and handling are all about. Less vibration for a smooth, quiet drive on roads of every stripe. Experience maximum control, safety, and reliability.

Features & Benefits

- Improved stability
- Less cabin noise
- Increased comfort on all roads
- Less wear on tires, air bellows and other suspension components
- Lowest cost per km / mile





TRAILER DAMPERS

Type 91

Since the introduction in 1999 of this unique trailer damper which was developed by KONI for horizontal use, many improvements have been achieved, resulting in the strongest best performing product in the market. OEM's prefer the damper for extreme conditions in Australia and Eastern Europe, where the high temperature performance and strength is a must-have for survival. An extensive aftermarket program is also available for all trailers.

A Unique Market Leading KONI Design

- Unique features for OE manufacturers and the Aftermarket
- Leading trailer manufacturers prefer KONI 91 type trailer dampers
- Superior quality and long lifetime
- 10 tons static load capacity – important for 'roll-on/roll off' transport
- Thicker piston rod can cope with higher side loads

- Able to withstand extremely high working temperatures
- Mounted horizontally to reduce suspension height and maximize trailer volume

O.E. Pedigree

Specified as original equipment (OEM) by many leading trailer axle & suspension manufacturers.

Economy

- Exceptionally long lifetime of often more than 1,000,000 kilometers
- Lowest cost per kilometer

Stability

- Reduces freight movement and damage
- Less wear on tires, air bellows and other suspension components
- Extends overall trailer life





STEERING DAMPERS

Type 88

Type 88 is a special steering damper developed with buses in mind. Its robust design, combined accurately tuned damping in mid-position, provides a great, straight ahead stability that quiets spontaneous shimmy and front wheel flutter. Quick steering on roundabouts or in corners is not compromised (It performs over a 70mm stroke, 35mm per side) and provides safe handling of the vehicle.

Features & Benefits

- Suppresses shimmy
- Less front wheel flutter
- Steady steering
- Long life time
- Less wear on other steering parts





SPECIAL VEHICLES & APPLICATIONS

Type 8705/88/8805/92

From ambulances to fire trucks, windmills to bridges, and from agricultural to military vehicles KONI provides tailor-made dampers that enhance the performance of these special vehicles and applications.

Whatever the requirement, we have the problem solving capabilities to provide just the right damper for it.





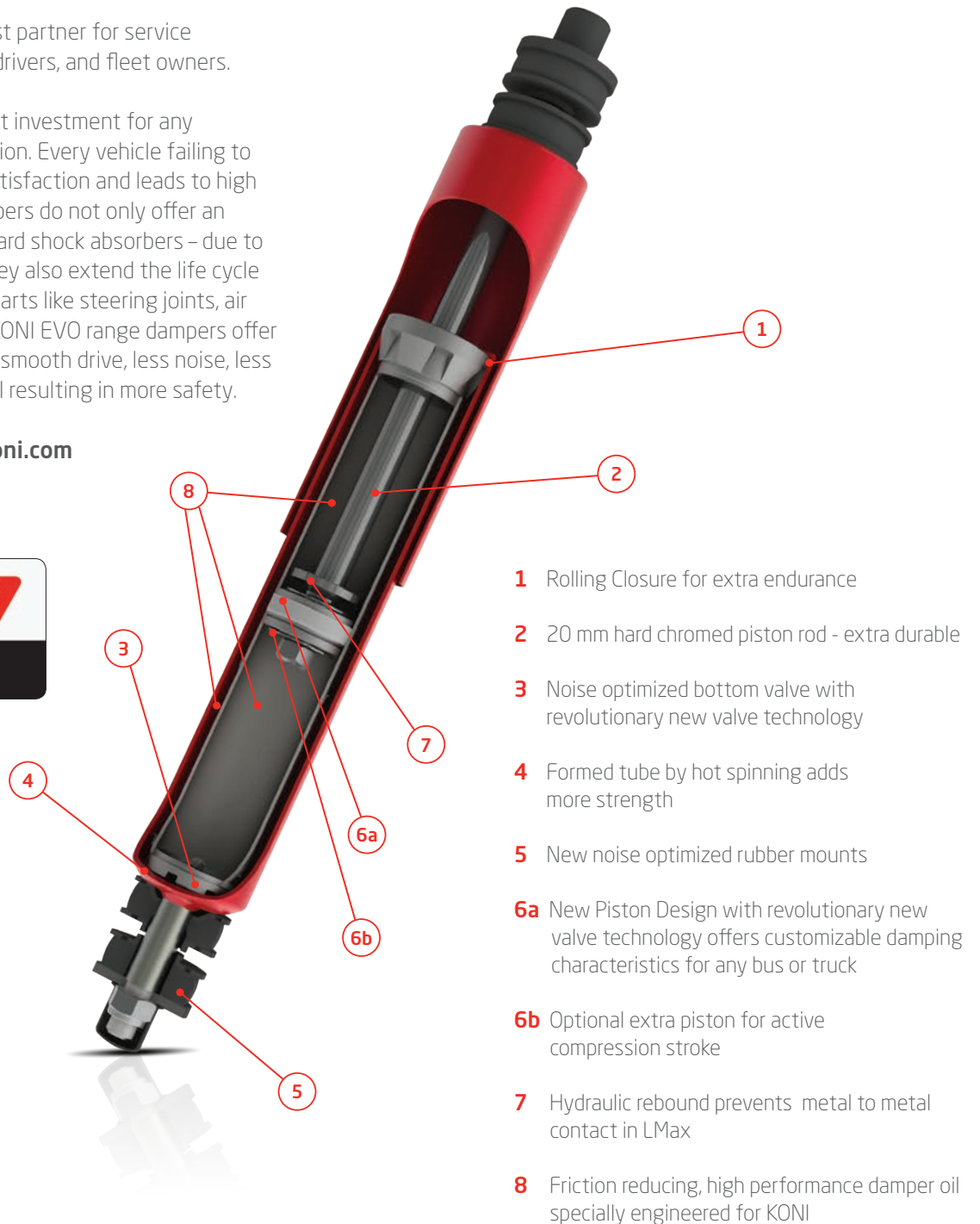
EVO RANGE

The New KONI Damper Range that Optimizes the Ride Performance and Lowers the Running Costs.

Why our EVO range is the best partner for service conscious operators, private drivers, and fleet owners.

Vehicle fleets are a significant investment for any transport or transit organization. Every vehicle failing to perform impacts customer satisfaction and leads to high costs. KONI EVO shock absorbers do not only offer an extended lifetime over standard shock absorbers – due to better control of vibration, they also extend the life cycle of other suspension related parts like steering joints, air bellows, bearings and tires. KONI EVO range dampers offer every driver and passenger a smooth drive, less noise, less vibrations, and less fatigue all resulting in more safety.

More information at www.koni.com



- 1** Rolling Closure for extra endurance
- 2** 20 mm hard chromed piston rod - extra durable
- 3** Noise optimized bottom valve with revolutionary new valve technology
- 4** Formed tube by hot spinning adds more strength
- 5** New noise optimized rubber mounts
- 6a** New Piston Design with revolutionary new valve technology offers customizable damping characteristics for any bus or truck
- 6b** Optional extra piston for active compression stroke
- 7** Hydraulic rebound prevents metal to metal contact in LMax
- 8** Friction reducing, high performance damper oil specially engineered for KONI

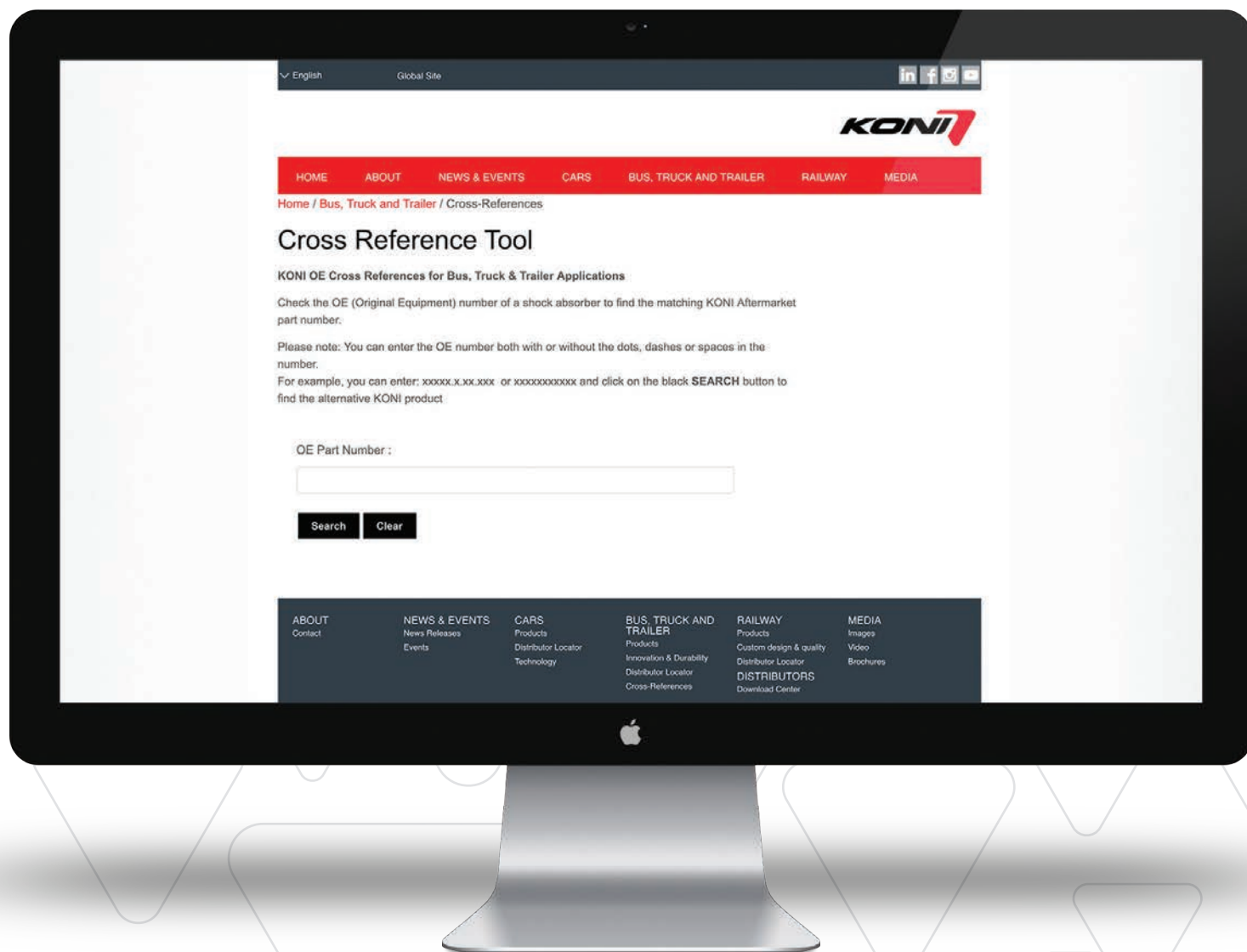
KONI CROSS REFERENCE TOOL

Fast, Simple, to the Point.

In the jungle of the spare parts market, any help is welcome!

Because it is important to ensure the necessary quality of spare parts - despite an ever-increasing cost consciousness. All products by KONI guarantee the OE quality or better. With our relaunched Online KONI Cross Reference Tool, you can quickly and precisely find out, which KONI dampers you can use as an alternative. Simply enter the original Part Number: Fast, simple, to the point.

www.koni.com/btt/cross-references



WORKING WITH KONI

KONI, an ITT Company, is one of the world-leading providers of shock absorption technology and services. KONI helps thousands of companies and people to improve their street and racing cars, buses, trucks, trailers, railway rolling stock, defense and industrial applications. To find out more about our solutions, please contact us.

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