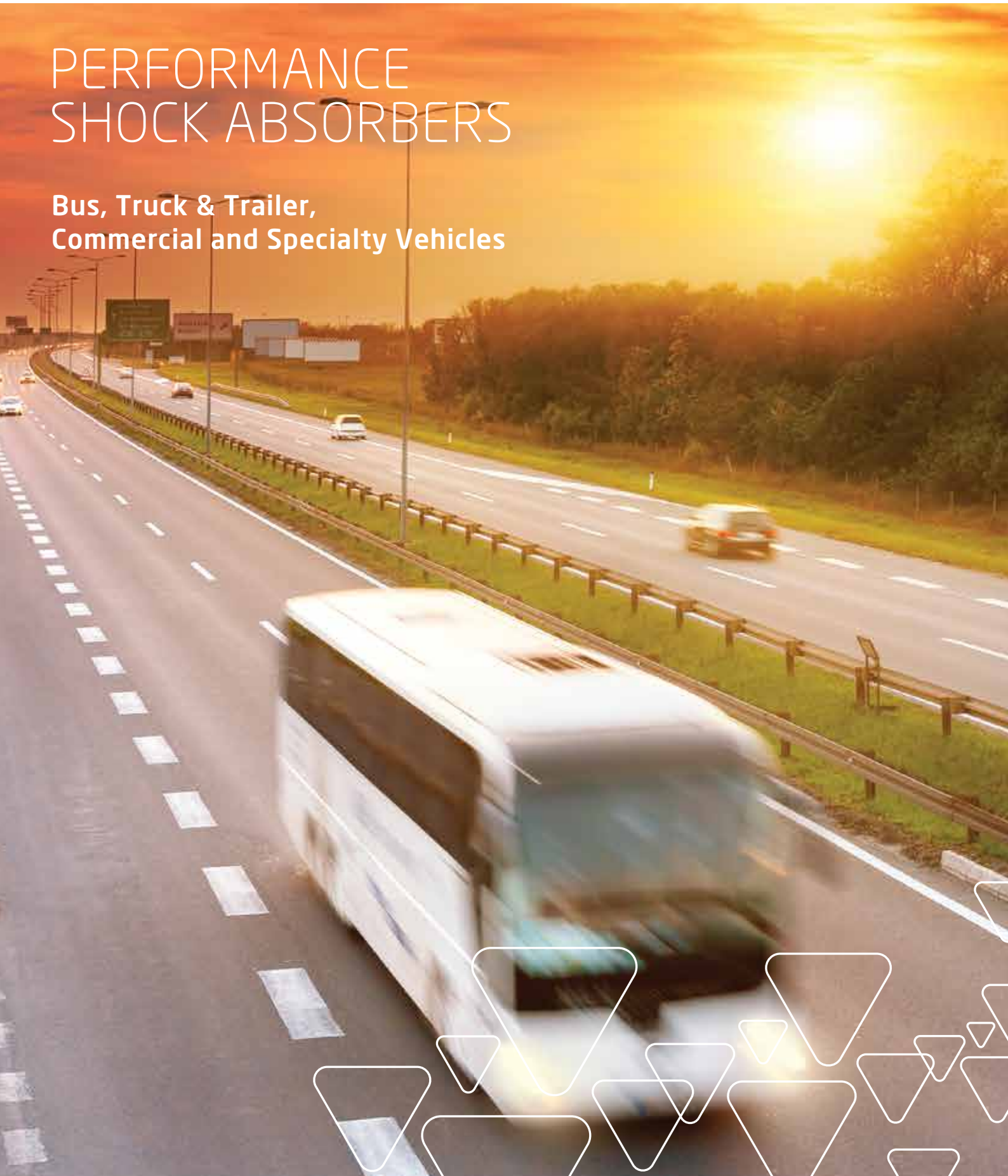




# PERFORMANCE SHOCK ABSORBERS

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





## 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 it's expertise by providing dampers for:

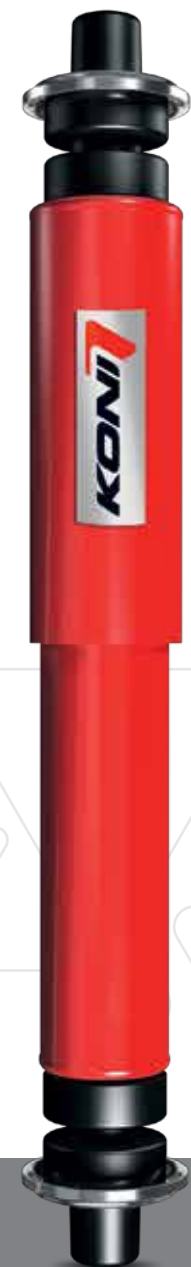
- RV's
- Agricultural vehicles
- Light commercial vehicles for emergencies
- Industrial applications such as bridges
- Defense vehicles

## 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](http://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, manufacturability 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

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

KONI dampers last extremely long. For 91 type trailer dampers, a lifetime of more than 500.000 kilometers is no exception. The combination of the adjustability and the availability of replacement bush kits extend their lifetime even more. That's why KONI dampers have the lowest cost per mile.

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.

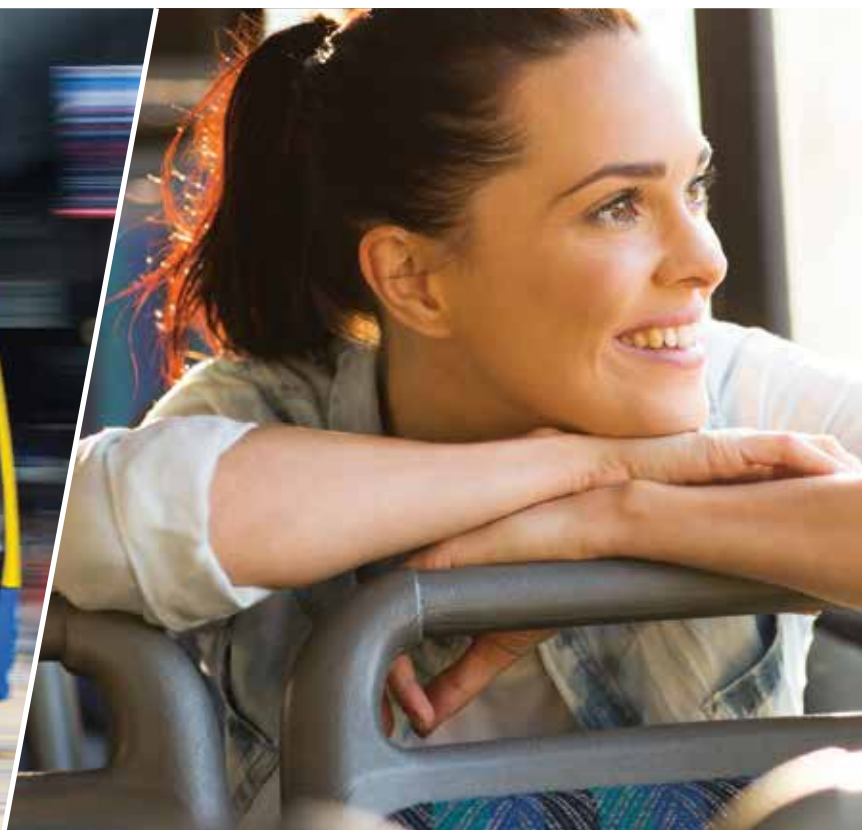
Our engineers benefit from KONI's many years of know-how and experience in supplying to Original Equipment Manufacturers (OEM). Also, our involvement in special projects such as rallies and other racing activities enhance the development of bus, truck & trailer dampers.

KONI 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 specifically developed for any type of vehicle or driving condition. Be it military or construction vehicles we deliver with precisely determined damping forces and

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





# BUS DAMPERS

## Type 90

This traditional robust damper is 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 the robustness is an important asset. Flexible tunability can be combined with FSD and other features including hydraulic rebound and special rubber mounts. Safety and reliability are proven and result in a low cost of ownership.



## Type 89/99

These dampers are equipped with the latest technology in regard to comfort, tunability and weight reduction. The combination with increased strength makes these dampers very suitable for the very harsh transit bus environment. The unique valving technology provides an unrivaled comfort level which, combined with the specially designed rubber mountings, is extremely silent. The extended durability and extremely strong construction guarantee a damper that matches the life expectancy of the modern fleet.



## Steering Damper

For safety and comfort many bus builders use the KONI steering damper. Its robust design combined with the accurately tuned damping in mid position provides a great straight ahead stability. Quick steering on roundabouts or in corners is not compromised and provides safe handling of the vehicle.

## FSD

All KONI products are designed to accept the patented Frequency Selective Damping technology. The FSD mechanical system provides an automatically selected lower damping level whenever the axles need to follow road imperfections. At the same time it maintains an increased level of vehicle body control. The comfort and handling capabilities of the vehicle are of the same level as with electronically controlled systems.







## TRUCK AND TRAILER

### TRAILER - 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.



### TRUCK - Type 90

Truck, tractors and construction equipment benefit from an extensive range of dampers. Durability, adjustability, comfort and road holding are combined in a specific range of dampers that can be used from deserts to the arctic on all possible roads..



## SPECIALTY APPLICATIONS

### Type 92

From agricultural to military vehicles KONI provides tailor-made dampers to enhance the performance of these vehicles. Whatever the requirement, on or off-road, a suitable damper is available. Also bridges and windmills use KONI dampers, which is proves KONI's problem solving capabilities for every damping challenge.





# 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.

## Contact and Support

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