



Using advanced polymer technology, Trelleborg's Antivibration Solutions (AVS) operation specializes in the field of rubber-to-metal bonding for the removal of unwanted noise and vibration. Part of the Industrial Solutions division of Trelleborg Group, we harness over 100 years of experience to solve a wide range of application and environmental challenges in sectors including rail, marine, industrial and off highway. Focused on isolation, attenuation and suspension solutions of unrivalled quality and reliability, we have a reputation for high quality, outstanding performance and long service life. Our commitment and expert polymer technologies optimize comfort, health and safety while creating maximum business value through improved longevity, productivity and cost effectiveness.

[WWW.TRELLEBORG.COM/ANTI-VIBRATION-SOLUTIONS](http://WWW.TRELLEBORG.COM/ANTI-VIBRATION-SOLUTIONS)

[ANTIVIBRATION@TRELLEBORG.COM](mailto:ANTIVIBRATION@TRELLEBORG.COM)



Knorr Oy Ab  
Mestarintie 4  
01730 VANTAA  
p. 09-56041  
[knorr@knorr.fi](mailto:knorr@knorr.fi)  
[www.knorr.fi](http://www.knorr.fi)

# Quiet, smooth, clean, strong.

**OFF-HIGHWAY OPERATIONS NEVER FELT BETTER**







# Quality, innovation, productivity.

## FEEL THE DIFFERENCE

Noise and vibration in off-highway equipment causes machine damage and discomfort to people. A global leader in polymer engineering, Trelleborg Industrial Antivibration Solutions specializes in minimizing these effects and delivering improvements people can physically feel. Calling on over 100 years' experience in the off-highway sector, we work closely with manufacturers and authorities to deliver off-the-shelf products and bespoke solutions which add value to your operations.

Found in everything from mini excavators and skid steer loaders to forestry machines and articulated dump trucks, all our solutions are modelled, tested and certified to perform in the most demanding environments. Our reputation rests on our ability to deliver compliant and pioneering solutions which enhance equipment, comfort and safety, while reducing downtime, maintenance and long-term cost of ownership.

**It's a difference you can truly feel across your operations, and in your brand reputation.**

## CONTENTS

<a href="#">FEEL THE BENEFIT OF PARTNERSHIP</a>	<a href="#">4 – 5</a>
<a href="#">PRODUCT RANGE</a>	<a href="#">6</a>
<a href="#">QUALITY AT EVERY STAGE</a>	<a href="#">7</a>
<a href="#">DRIVING INNOVATION</a>	<a href="#">8 – 9</a>
<a href="#">QUALITY IN TESTING</a>	<a href="#">10 – 11</a>



# Global, local, expert.

## FEEL THE BENEFIT OF PARTNERSHIP

With over 100 years' experience in the off-highway sector, we have an unparalleled understanding of the challenges and regulations, and have developed an extensive portfolio of globally respected and certified products which include mounts, isolators and dampers as well as buffers and suspension systems. In addition, we model, test and certify customized solutions for specific applications, helping protect vehicle operators and sensitive machinery in the world's most extreme operating environments.

The partner of choice for OEMs and manufacturers, we improve the reliability and service life of equipment, reducing the long-term costs of ownership. Thanks to our efforts, workers feel safer and more comfortable, and our customers feel the benefits of working for a pioneering global brand:

- **Protection.** Our solutions extend the life of your equipment and components and offer superior protection against impact, vibration and noise.
- **Value.** By helping reduce downtime, we minimize your maintenance and repair costs while lowering the long-term cost of ownership.
- **Responsibility.** We help you improve the safety and comfort of passengers, as well as the sustainability of your equipment and operations.
- **Support.** Our global support network means we're accessible in all territories. Wherever you are, you'll have access to local engineering support and a robust and reliable supply chain.
- **Peace of mind.** Fully tested and compliant with all international standards, our market-leading solutions meet the high levels of safety and reassurance that the off-highway industry demands.



Committed to partnership working, we'll support you at every stage, from design and testing through to installation and training, helping you optimize your operations. And in terms of choice, quality and logistics, we offer a complete service to help you cut costs, mitigate risk and receive on time, on budget delivery.

**We don't just make life feel better. We make it feel easier too.**





Have a look at a range of our off highway solutions below, or get in touch to see how we could engineer a bespoke solution for your project. Further technical information can be found in our product catalogues.

DESCRIPTION	PRODUCT
<b>EH mount product range</b> Wide load range, 60 to 350 kg Attenuation of structure-borne noise Dynamic efficiency in all directions	
<b>Saw mount</b> Versatile high performance mount Increased isolation efficiency Optimum spring rate	
<b>Buffer product range</b> Easily fitted Oil and nitrate resistant Nitrile Rubber Protects structures and equipment from impact forces	
<b>Conical mount</b> High fatigue life Wide radial load range High torsional movement	
<b>Cushyfloat product range</b> Trelleborg original design Low lateral stiffness Simple to install	
<b>Cylindrical mount product range</b> Simple to install Suitable for a range of applications Wide variety of sizes	
<b>Axle suspension tower spring</b> Manufactured from high strength steel High impact and wear characteristics Heavy-duty top and bottom plates to resist negative loading	
<b>Metaxentric bushes</b> Load range from 130 – 400 kg Robust and fail-safe, suitable for ROPS and FOPS cab structures Simple to fit, the housing leads itself to robust structures	
<b>MDS mount product range</b> Designed to take high dynamic shock loads Linear stiffness allows easy prediction of mount deflection Simple to install	
<b>Metacone product range</b> Large static deflections Compact fail safe design	

# Quality at every stage



An acknowledged world-leader in the design and manufacture of rubber to metal bonded components, Trelleborg Industrial Antivibration Solutions have developed a comprehensive portfolio of off-highway application solutions.



# Customized, compliant, complete.

## DRIVING INNOVATION INTO THE OFF-HIGHWAY INDUSTRY

Trelleborg Industrial Antivibration Solutions has a long history of product innovation, including the Metalastik® brand. First introduced almost 100 years ago, Metalastik® has evolved to become one of the world's most respected and successful antivibration products, and is still widely used in the off-highway industry.

This innovation continues today, and we remain at the forefront of off-highway design. Investing significantly in R&D, we work closely with our customers to develop new solutions which anticipate and meet future needs. As a result, we offer one of the most complete portfolios of off-highway sector solutions – and one we're adding to continuously.

We can apply this innovation to your unique needs, developing a bespoke and cost-effective solution for your application. Give us the challenge, and our specialist teams will work with you at every stage – from concept, design and manufacturing, to modelling, testing and installation. You can be sure that the solution will meet your needs and be fully compliant with international standards, ensuring you feel the full power of our innovation.







# Tested, trusted, proven.

## QUALITY IN TESTING, MANUFACTURE AND SUPPORT

**With over 100 years' experience serving the off-highway industry, we're fully aware of the legislation and challenges you face.**

On one hand, vehicles are becoming bigger, heavier and more powerful to cope with increasing loads and demands, meaning you're constantly looking to improve and enhance suspension systems. On the other, there is strict legislation surrounding levels of emissions, noise and vibration to protect operators and the environment. Equally, there is the need to improve productivity and your cost base by extending the life and performance of equipment.

With our global supply chain and proven quality, we are able to meet these demands reliably and effectively.

Our high-quality products are the result of over 100 years' experience in the off-highway sector. They're manufactured in world-class plant with superior materials and technology, and they're tested using sophisticated software and technology to ensure a lifetime of reliable performance.

What's more, as part of a major international group, Trelleborg Industrial Antivibration Solutions offers you the reassurance of financial strength, global support and on-going investment in quality and testing.

You will feel the advantages today, and throughout the lifecycle of your product.