

ROSTA INSIDE E-MOBILITY

Comfort and Handling for the E-mobility of the Future.

rosta.com

THE CORE OF OUR EXCELLENCE

One Smart Concept, **Endless Applications**

It all started in 1944 with a clever invention. Today, ROSTA is the world's leading manufacturer when it comes to rubber spring, tensioning and damping solutions.

4 Rubber Inserts

Inner Square

Housing

The ROSTA Element, an elastomer powered torsional spring, is central to our range of specialized machine components designed to provide a combination of useful functions.



WHY WORK WITH ROSTA

Comfort & Stability

- \rightarrow Increased Comfort
- \rightarrow Smooth Operations
- \rightarrow Several Stiffness Levels Available

CUSTOMER VALUE-ADD

Service & Aftersales

- \rightarrow Global Presence
- \rightarrow 24/7 Support
- \rightarrow High Stock Level

Lower Total Costs

- \rightarrow Longer Service Life
- \rightarrow No Greasing or Lubrication Required
- → Simple, Durable & Noiseless

Flexibility & Customization

- → Control Linear & Rotary Motion
- → Full Simulation Capabilities
- → Customized Engineered Solutions

Swiss made

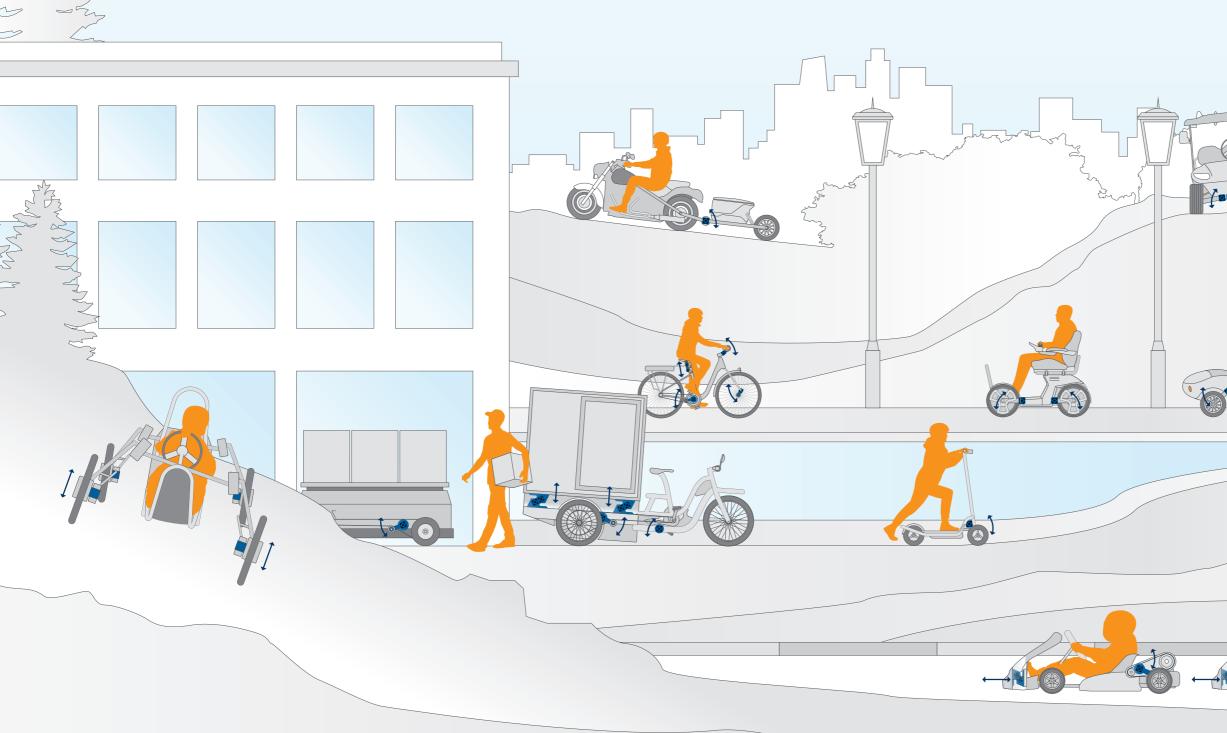
We are here to support your success. Contact ROSTA today!



At ROSTA, we understand the dynamic and innovative demands of today's E-MOBILITY sector. Our process flow is thoughtfully designed to reflect our understanding of the unique challenges within personal E-MOBILITY, where precision, durability and **customization** are our expertise.

ROSTA components are engineered to enhance the performance and dependability of your E-MOBILITY applications by focusing on **suspension, transmission, and vibration control** solutions. This approach reduces the number of overall components in the E-vehicle, making the design smarter and clearer. By integrating ROSTA technology at the core of these applications, we not only meet current demands but also pave the way for a future that is more sustainable and efficient. **Be smart put ROSTA INSIDE!**

E-SCOOTERS	4
MICROMOBILITY E-KICKSCOOTERS	6
E-BIKES	8
CARGO (E-BIKES & E-SCOOTERS)	10



TRAILERS (E-BIKES & E-SCOOTERS)	.14
E-WHEELCHAIRS	.16
4 WHEELED E-VEHICLES	.18
AUTOMATED GUIDED VEHICLES	.20

E-SCOOTERS

E-Scooters are a great application of E-Mobility for tackling issues of traffic congestion, air pollution and parking scarcity. Their lightweight design and electric propulsion make them a smart choice for short commutes.

ROSTA rubber suspension units enhance these vehicles by providing the necessary suspension and transmission reliability to maintain performance and safety standards.

Customer benefits:

MAINTENANCE FREE

SAFE





帝 REDUCTION OF 『 Noise & Vibration

INCREASED ISOLATION & DAMPING



Dynamic Tensioner Devices: **SE**

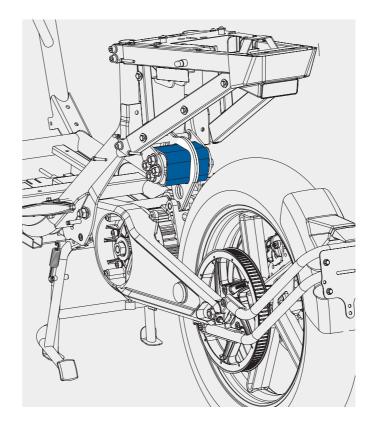


Function: Transmission tensioning

- \rightarrow Easy installation
- \rightarrow Automatic belt tensioner
- \rightarrow Prevents excessive slippage
- \rightarrow Transmission-noise reduction
- \rightarrow Transmits constant torque
- \rightarrow Absorbs vibration of working belt







E-SCOOTERS

Rubber Suspension Units: **DR**



Function: Suspension

 \rightarrow One component with three possibilities:

- spring
- bearing
- dampener
- \rightarrow Highly customizable:
- shape
- rubber
- size
- \rightarrow Simplified design with reduced assembly costs
- \rightarrow Long lasting user comfort

MICROMOBILITY E-KICKSCOOTERS

In the realm of micromobility, E-Scooters are a cornerstone. Their low operational costs and minimal environmental impact make them a popular choice for city dwellers and eco-conscious commuters. Precision in their mechanical components is crucial to withstand the rigors of daily use. ROSTA'S expertise in suspension and tilting systems elevates the reliability and efficiency of your solutions.

Customer benefits:



- LOW-WEIGHT SOLUTION
- MAINTENANCE

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REDUCTION OF Noise & Vibration

₩ INCREASED ISOLATION & DAMPING







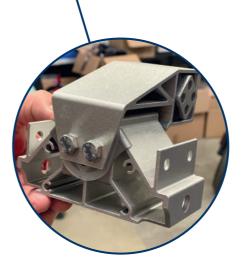
Rubber Suspension Units: **DR**



Function: Front suspension

- \rightarrow One component with three possibilities:
- spring
- bearing
- dampener
- \rightarrow Highly customizable in:
- shape
- rubber
- size
- \rightarrow Simplified design with reduced assembly costs





MICROMOBILITY E-KICKSCOOTERS



Rubber Suspension Units: DR / DK / DW (Customized design)



Function: Suspension & tilting

 \rightarrow One component with three possibilities:

- spring
- bearing
- dampener
- \rightarrow Highly customizable in:
- shape
- rubber
- size
- \rightarrow Simplified design with reduced assembly costs
- \rightarrow Withstands rigorous use

E-BIKES

As a versatile mode of transportation, E-Bikes offer an accessible alternative to traditional bikes, providing a boost up hills and over long distances with less effort. They are an eco-friendly solution that supports urban commuters and cycling enthusiasts alike in their quest for a faster, sweat-free commute. ROSTA's components play a crucial role in the E-Bike's functionality by offering multi-purpose solutions across suspension, tensioning and damping applications.

Customer benefits:



MAINTENANCE FREE

INCREASED ISOLATION ₩-& DAMPING

REDUCTION OF Noise & Vibration

€ĵ₽

SAFE



Rubber Suspension Units: DR



Function: Shock absorber

- \rightarrow Versatile component serving as a tensioner and dampener
- \rightarrow Reduces complexity and increases efficiency
- \rightarrow Lowers assembly costs
- \rightarrow Provides optimal shock absorption



Tension Roller:





Function: Tensioning & guiding

- \rightarrow Reduces friction and wear of chain or belt
- \rightarrow Ensures consistent tension for a smooth ride
- \rightarrow Simplifies design to reduce weight and eases installation







E-BIKES

Rubber Suspension Units: DR (Customized design)



Function: Suspension & tensioning & damping

 \rightarrow One component with three possibilities:

- spring
- bearing
- dampener
- \rightarrow Highly customizable in:
- shape
- rubber
- size
- → Simplified design with reduced assembly costs





CARGO (E-BIKES & E-SCOOTERS)

Cargo E-Motorbikes and E-Scooters are transforming the delivery and transport landscape in urban areas. These robust vehicles are designed to haul goods efficiently, offering a sustainable alternative to delivery vans without contributing to traffic congestion or pollution. The durability of their components is paramount, given the heavier loads and varied usage scenarios they encounter. ROSTA's technology plays a pivotal role in ensuring that your cargo E-Motorbike and E-Scooters can withstand the demands of urban logistics.

Customer benefits:



MAINTENANCE FREE



- INCREASED ISOLATION & DAMPING
- REDUCTION OF 『 NOISE & VIBRATION





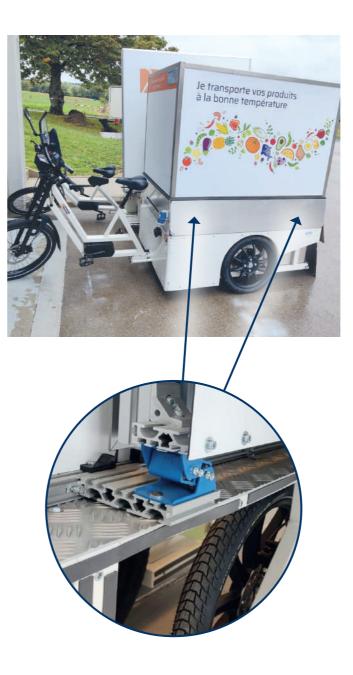
Rubber Suspension Units: **DR**



Function: Anti-vibration mounts & elastic joint

- \rightarrow One component with three possibilities:
- spring
- bearing
- dampener
- \rightarrow Highly customizable in:
- shape
- rubber
- size
- \rightarrow Simplified design with reduced assembly costs
- \rightarrow Durable and built to withstand heavy loads





CARGO (E-BIKES & E-SCOOTERS)

Anti- Vibration Mounts: **ESL**



Function: Absorption of shocks & impacts

- \rightarrow Absorbs shocks and impacts for a smoother ride
- \rightarrow Minimizes vibrations and reduces noise
- \rightarrow Extends component lifespan
- ightarrow Customizable to fit design needs
- \rightarrow Simplifies assembly and lowers costs.v



Dynamic Tensioner Devices: **SE**



Function: Transmission tensioning

- \rightarrow Easy installation
- ightarrow Automatic belt and chain tensioner
- \rightarrow Prevents excessive slippage
- ightarrow Reduces transmission noise
- \rightarrow Transmits constant torque

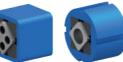








DR / DK



CARGO (E-BIKES & E-SCOOTERS)

TRAILERS (E-BIKES & E-SCOOTERS)

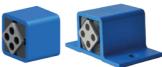
Trailers are an inventive addition to the personal mobility ecosystem, designed to expand the utility of scooters and bikes by providing additional cargo capacity. Whether for personal errands or business-related tasks, these trailers enhance the functionality, allowing for the transport of goods, equipment, or personal belongings. ROSTA's high-quality suspension and transmission solutions are important in ensuring that these trailers can handle the extra weight and dynamic stresses involved, maintaining stability and control for the user.

Customer benefits:

REDUCTION OF NOISE & VIBRATION LOW-WEIGHT SOLUTION

MAINTENANCE FREE

Rubber Suspension Units: DR / DW



Function: Suspension, elastic joint & tilting

- \rightarrow One component with three possibilities:
- spring
- bearing
- dampener
- \rightarrow Highly customizable in:
- shape
- rubber
- size
- \rightarrow Reduced assembly costs
- \rightarrow Provides optimal damping







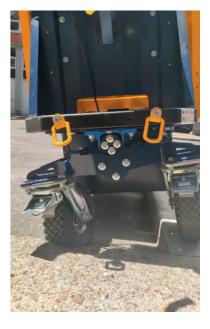


TRAILERS (E-BIKES & E-SCOOTERS)









E-WHEELCHAIRS

Electric wheelchairs offer independence and freedom, allowing users to navigate various environments with ease and comfort. The integration of electric propulsion systems in wheelchairs demands high precision, reliability and durability in their design to ensure safety and functionality. ROSTA's contributions to this sector are invaluable, as their suspension and transmission components are engineered to withstand the continuous use and diverse demands of electric wheelchair users.

Customer benefits:

LONG LASTING USER COMFORT S



REDUCTION OF











Rubber Suspension Units: DR / DO



Function: Front & back suspension

- \rightarrow One component with three possibilities:
- spring
- bearing
- dampener
- \rightarrow Highly customizable in:
- shape
- rubber
- size
- \rightarrow Reduced assembly costs
- ightarrow Provides optimal damping



E-WHEELCHAIRS



4 WHEELED E-VEHICLES

These vehicles range from compact urban cars to larger utility vehicles, all benefiting from the silence and zero emissions of electric power. Precision in their suspension and transmission is vital to ensure a smooth ride, energy efficiency and longevity. ROSTA's innovative components are at the forefront of this evolution, providing the necessary robustness and adaptability.

Customer benefits:

MAINTENANCE FREE

REDUCTION OF The second **NOISE & VIBRATION**



LOW-WEIGHT SOLUTION

INCREASED ISOLATION ₩-& DAMPING





Oscillating Mountings:

 \rightarrow Enhances ride comfort \rightarrow Increases stability

 \rightarrow Highly customizable

 \rightarrow Reduces vibrations and noise

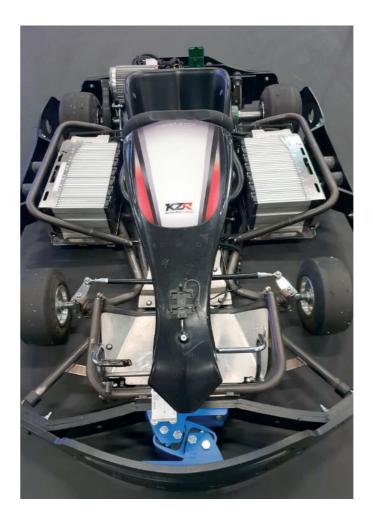
Function: Suspension & elastic joint

ST

Solution: 4 x ST 45 spec.







4 WHEELED E-VEHICLES

Anti- Vibration Mounts: ESL



Function: Reduces vibrations & absorbs shocks

- \rightarrow Minimizes vibrations
- \rightarrow Reduces noise
- \rightarrow Extends component lifespan
- \rightarrow Highly customizable
- \rightarrow Lowers assembly costs



AUTOMATED GUIDED VEHICLES

Automated Guided Vehicles (AGVs) are revolutionizing the way warehouses operate. These tireless machines efficiently move goods throughout facilities, offering a flexible and sustainable solution compared to traditional methods. Because AGVs operate 24/7 and navigate complex environments, their components require exceptional durability. ROSTA's technology is a key player in ensuring your AGVs can withstand the constant demands of modern warehousing.

Customer benefits:

₩ INCREASED ISOLATION & DAMPING

LOW-WEIGHT SOLUTION

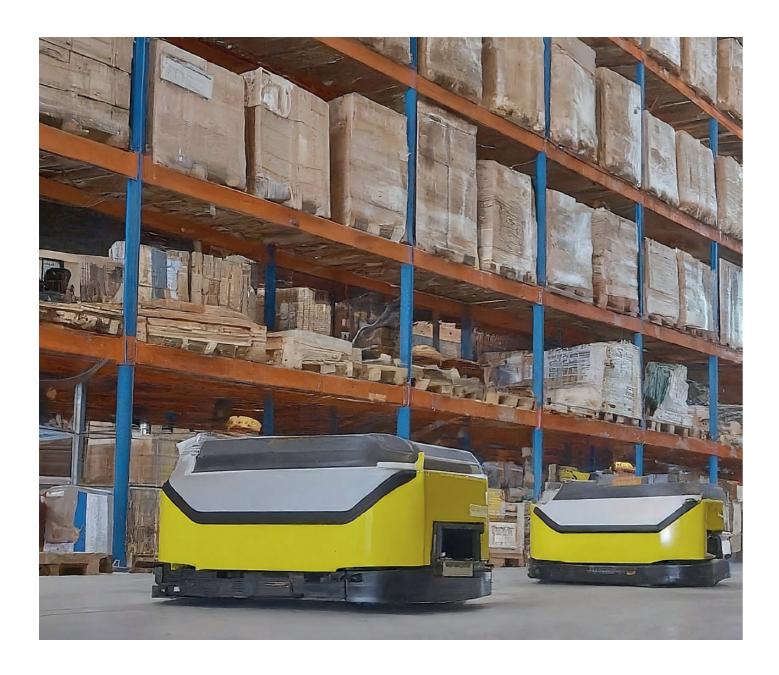
- REDUCTION OF
- MAINTENANCE FREE

Dynamic ⁻	Tensioner	Devices:
SE		



Function: Transmission tensioning

- \rightarrow Easy installation
- \rightarrow Automatic belt and chain tensioner
- \rightarrow Prevents excessive slippage
- \rightarrow Reduces transmission noise
- ightarrow Transmits constant torque



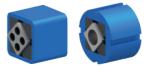




AUTOMATED GUIDED VEHICLES



Rubber Suspension Units: **DR / DK**



Function: Anti-vibration mounts & elastic joint

- \rightarrow One component with three possibilities:
- spring
- bearing
- dampener
- \rightarrow Highly customizable in:
- shape
- rubber
- size
- ightarrow Simplified design with reduced assembly costs
- \rightarrow Durable and built to withstand heavy loads

OUR PORTFOLIO OVERVIEW



BELT AND CHAIN TENSIONING

Tensioner systems for belt and chain drives





ACCESSORIES:







CHAIN RIDER P SPROCKET WHEEL N



SHOCK AND VIBRATION CONTROL

Components for shock and vibration control







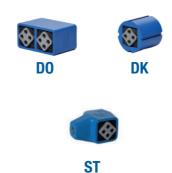
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RUBBER SUSPENSION ELEMENTS

Multifunctional and adaptable suspension elements

8	
DR	DW

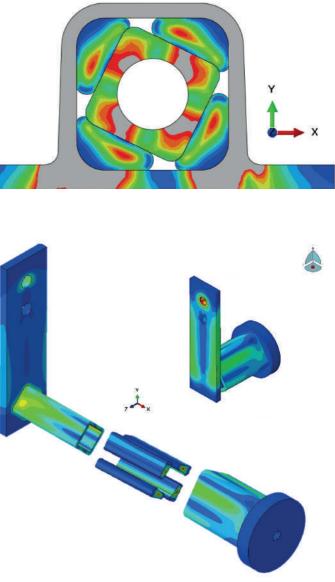


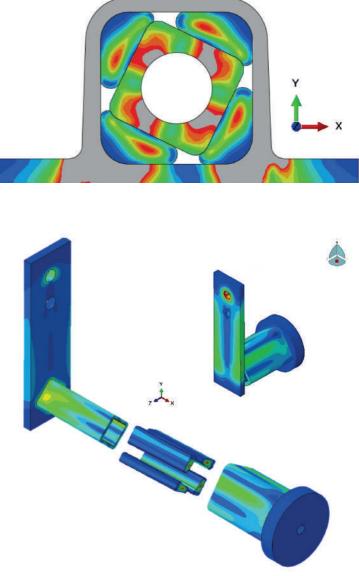
Can't find what you need in the catalog?

Our engineering team specializes in developing tailored solutions to meet your requirements.

SIMULATION

Our innovative simulation tools allow you as an OEM to virtually integrate and test our component within your existing design process. This eliminates the need for multiple physical prototypes, streamlining your R&D workflow. As a result, you can expect lower costs, faster development cycles, and a smoother transition to series production.





ROSTA SUPERIOR SWISS QUALITY AT A GLANCE

ESTABLISHED HERITAGE: Founded in Switzerland in 1944, our roots embody a legacy of superior quality and precision that is recognized worldwide.

IMPRESSIVE SALES VOLUME: Our commitment to quality and reliability, across all our core markets, has resulted in an impressive annual sales volume of over 1.5 million units.

QUALITY ASSURANCE: Our commitment to quality is reinforced by rigorous in-house quality processes and our ISO certification, ensuring our products meet the highest standards.

CUSTOMIZED SOLUTIONS: We are known for developing tailored solutions to meet the specific needs of our clients, setting us apart in our markets.



GLOBAL FOOTPRINT: Our strategic worldwide presence allows us to spread our Swiss quality on a global scale.



EXTENSIVE DISTRIBUTION NETWORK: We ensure our industryspecific products reach a wide array of customers through our robust distribution network, extending



IN-HOUSE PRODUCTION:

With most of our production taking place in Switzerland, we maintain full control over the quality and efficiency of our manufacturing process.



UNPARALLELED CUSTOMER **SUPPORT:** Our global presence

across over 40 countries.

is strengthened by personalized customer support, offering assistance and guidance to customers across all five continents.



CORE MARKETS: Specializing in five core markets – recycling, mining, agriculture, food & beverage, and eMobility – our expertise also extends to various other markets, enabling us to serve a wide range of customer needs effectively.



COLLABORATIVE INNOVATION AT

OUR CORE: Our R&D department works closely with application engineers, fostering a culture of innovative and customized solutions, continuously evolving to meet market trends and demands.

SERVING OUR CUSTOMERS WORLDWIDE

HEADOUARTERS

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ROSTA DISTRIBUTION PARTNERS



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Quality Control: For our customers ISO standards are a guarantee of constant quality and performance. ROSTA is an ISO 9001 and ISO 14001 certified company.

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