

Votre partenaire officiel

**MICHAUD CHAILLY®**

[www.michaud-chailly.fr](http://www.michaud-chailly.fr) — [michaud@michaud-chailly.fr](mailto:michaud@michaud-chailly.fr)



# ROSTA INSIDE E-MOBILITY

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

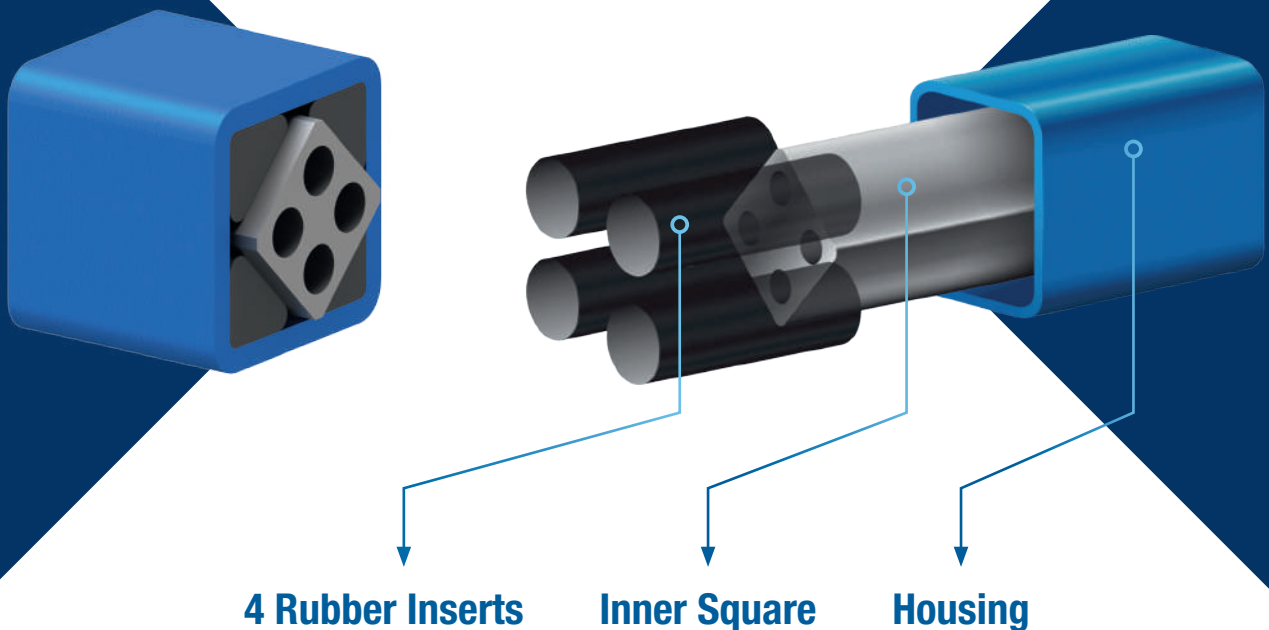


[rosta.com](http://rosta.com)

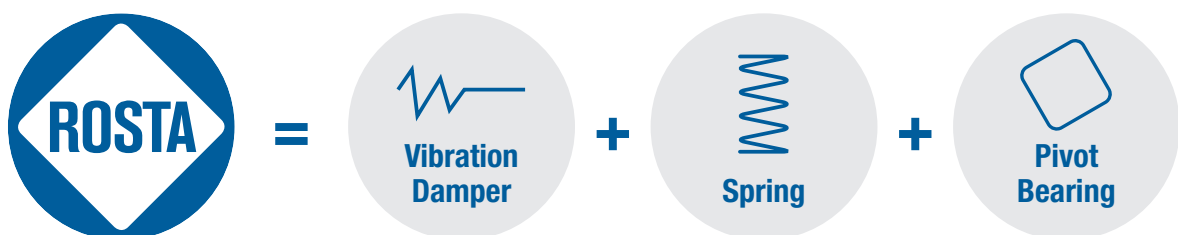
**THE CORE OF OUR EXCELLENCE**

# 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.



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**

- Increased Comfort
- Smooth Operations
- Several Stiffness Levels Available

### **Lower Total Costs**

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



**CUSTOMER  
VALUE-ADD**

### **Service & Aftersales**

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

### **Flexibility & Customization**

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

Swiss made 

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



# ROSTA E-MOBILITY

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.

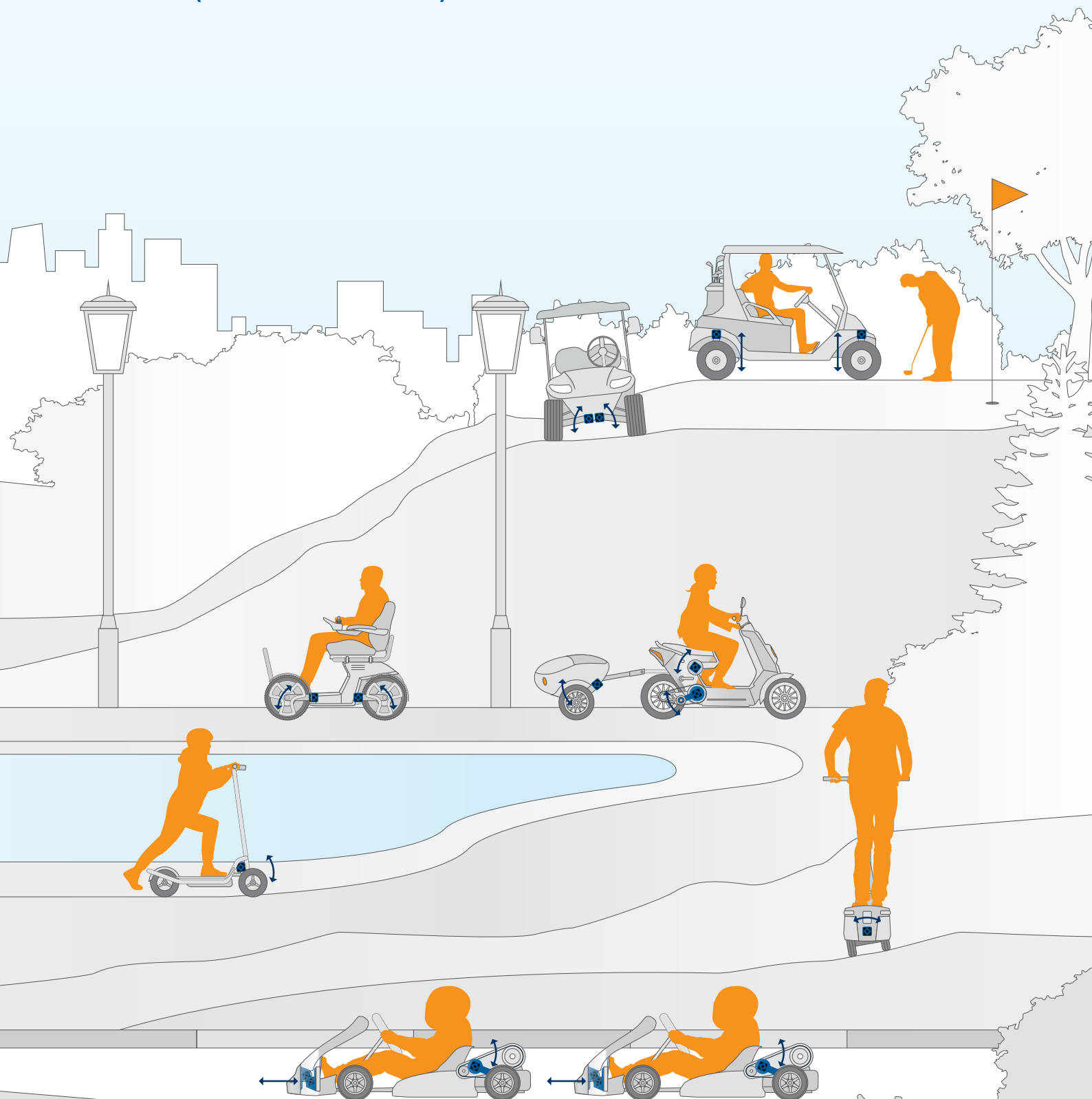
**ROSTA** components are engineered to enhance the performance and dependability of your E-MOBILITY applications by focusing on **suspension, transmission, and vibration control** solutions. This approach reduces the number of overall components in the E-vehicle, making the design smarter and clearer. 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!**





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# 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**



**REDUCTION OF  
NOISE & VIBRATION**



**SAFE  
FOR USER**



**INCREASED ISOLATION  
& DAMPING**



**LOW-WEIGHT  
SOLUTION**



## Dynamic Tensioner Devices: SE



### Function: Transmission tensioning

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



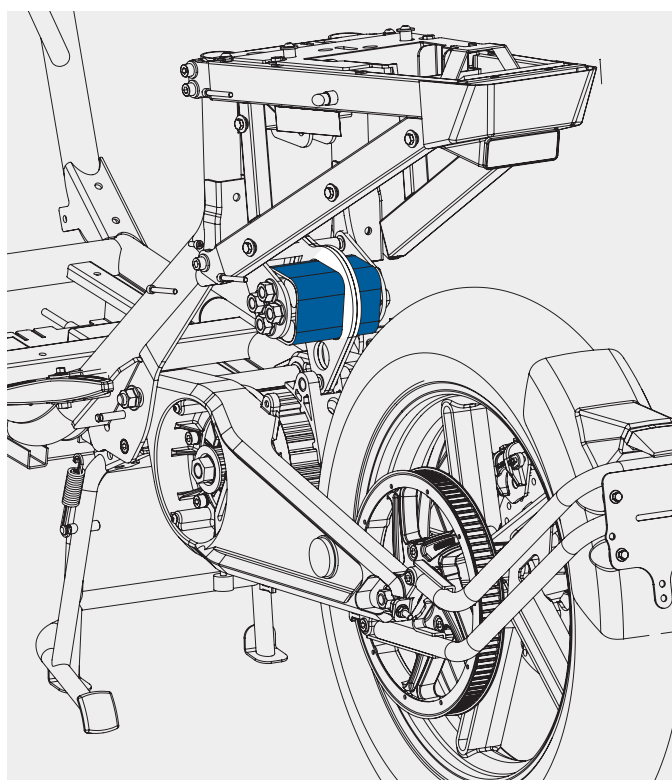


## Rubber Suspension Units: DR



### Function: Suspension

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



**LONG LASTING  
USER COMFORT**



**REDUCTION OF  
NOISE & VIBRATION**



**LOW-WEIGHT  
SOLUTION**



**MAINTENANCE  
FREE**



**INCREASED ISOLATION  
& DAMPING**

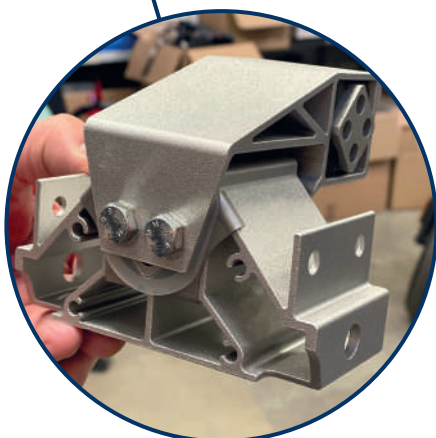


## Rubber Suspension Units: DR



### Function: Front suspension

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



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



#### Function: Suspension & tilting

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



**LOW-WEIGHT  
SOLUTION**



**REDUCTION OF  
NOISE & VIBRATION**



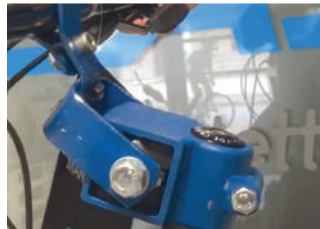
**INCREASED ISOLATION  
& DAMPING**



**SAFE  
FOR USER**



**MAINTENANCE  
FREE**



### Rubber Suspension Units: DR



#### Function: Shock absorber

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

### Tension Roller: R



#### Function: Tensioning & guiding

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





## Rubber Suspension Units: DR (Customized design)



### Function: Suspension & tensioning & damping

- One component with three possibilities:
  - spring
  - bearing
  - dampener
- 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:



**SAFE  
FOR USER**



**INCREASED ISOLATION  
& DAMPING**



**MAINTENANCE  
FREE**



**REDUCTION OF  
NOISE & VIBRATION**



**LOW-WEIGHT  
SOLUTION**



### Rubber Suspension Units: **DR**

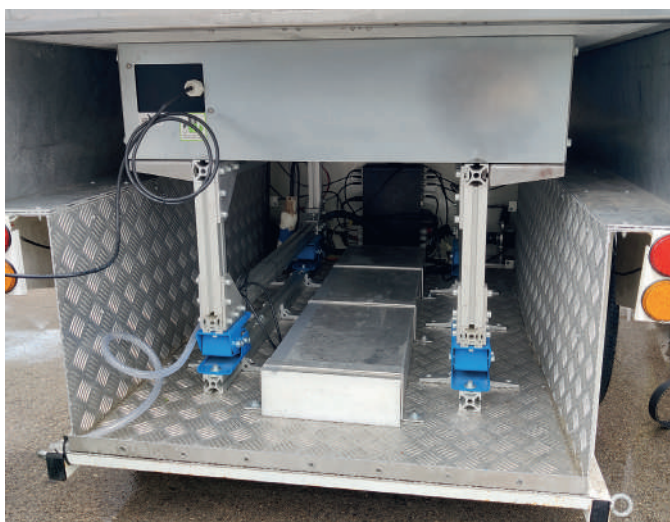


#### Function: Anti-vibration mounts & elastic joint

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







### Anti-Vibration Mounts: ESL



#### Function: Absorption of shocks & impacts

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



## Dynamic Tensioner Devices: SE



### Function: Transmission tensioning

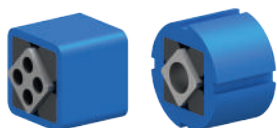
- Easy installation
- Automatic belt and chain tensioner
- Prevents excessive slippage
- Reduces transmission noise
- Transmits constant torque





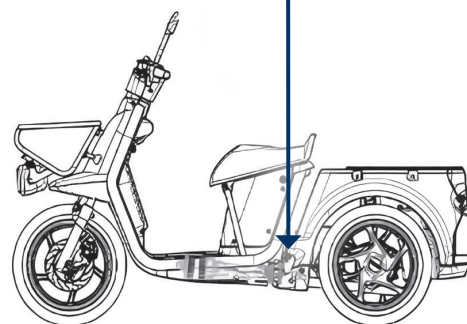


### Rubber Suspension Units: DR / DK



**Function: Anti-vibration mounts & elastic joint**

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



# 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:



CUSTOMIZABLE



MAINTENANCE  
FREE



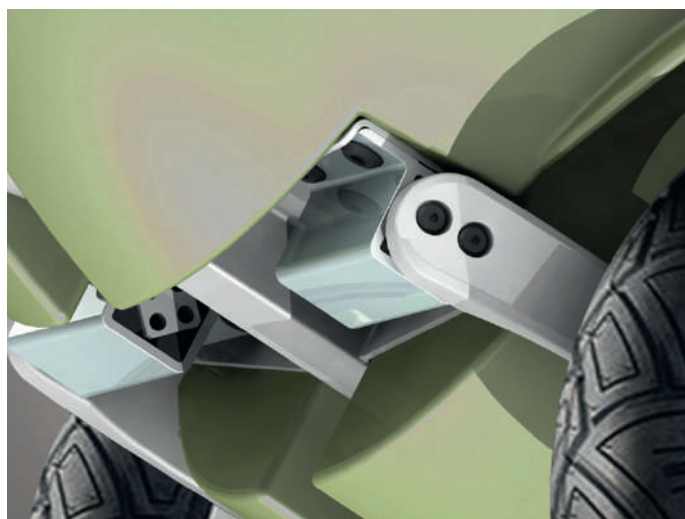
REDUCTION OF  
NOISE & VIBRATION



LOW-WEIGHT  
SOLUTION



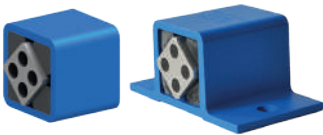
INTERGRATE IN  
OWN TRAILER







### Rubber Suspension Units: DR / DW



**Function: Suspension, elastic joint & tilting**

→ One component with three possibilities:

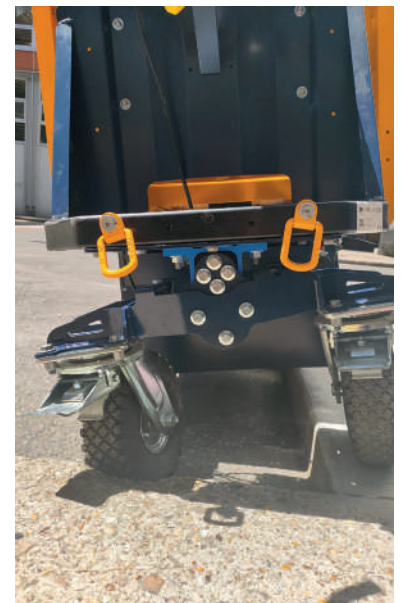
- spring
- bearing
- dampener

→ Highly customizable in:

- shape
- rubber
- size

→ Reduced assembly costs

→ Provides optimal damping



## 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:



**INCREASED ISOLATION  
& DAMPING**



**REDUCTION OF  
NOISE & VIBRATION**



**LONG LASTING  
USER COMFORT**



**MAINTENANCE  
FREE**



**LOW-WEIGHT  
SOLUTION**



### Rubber Suspension Units: DR / DO



#### Function: Front & back suspension

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







## 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**



**LOW-WEIGHT  
SOLUTION**



**REDUCTION OF  
NOISE & VIBRATION**



**INCREASED ISOLATION  
& DAMPING**



**LONG LASTING  
USER COMFORT**



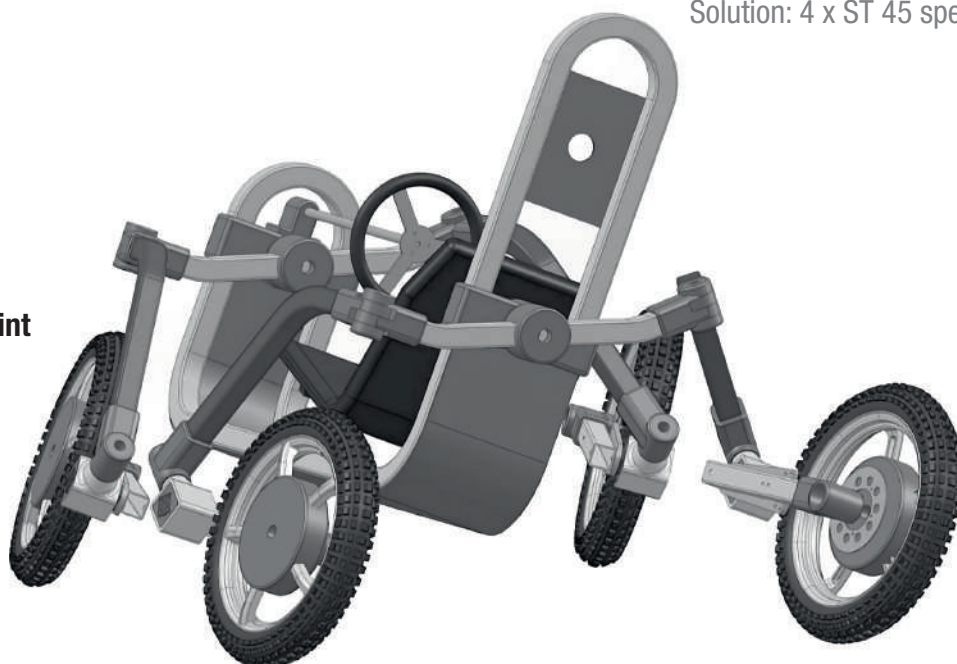
Solution: 4 x ST 45 spec.

### Oscillating Mountings: ST



#### Function: Suspension & elastic joint

- Enhances ride comfort
- Increases stability
- Reduces vibrations and noise
- Highly customizable







### Anti-Vibration Mounts: ESL



**Function: Reduces vibrations & absorbs shocks**

- Minimizes vibrations
- Reduces noise
- Extends component lifespan
- Highly customizable
- 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**



**REDUCTION OF  
NOISE & VIBRATION**



**LOW-WEIGHT  
SOLUTION**



**MAINTENANCE  
FREE**



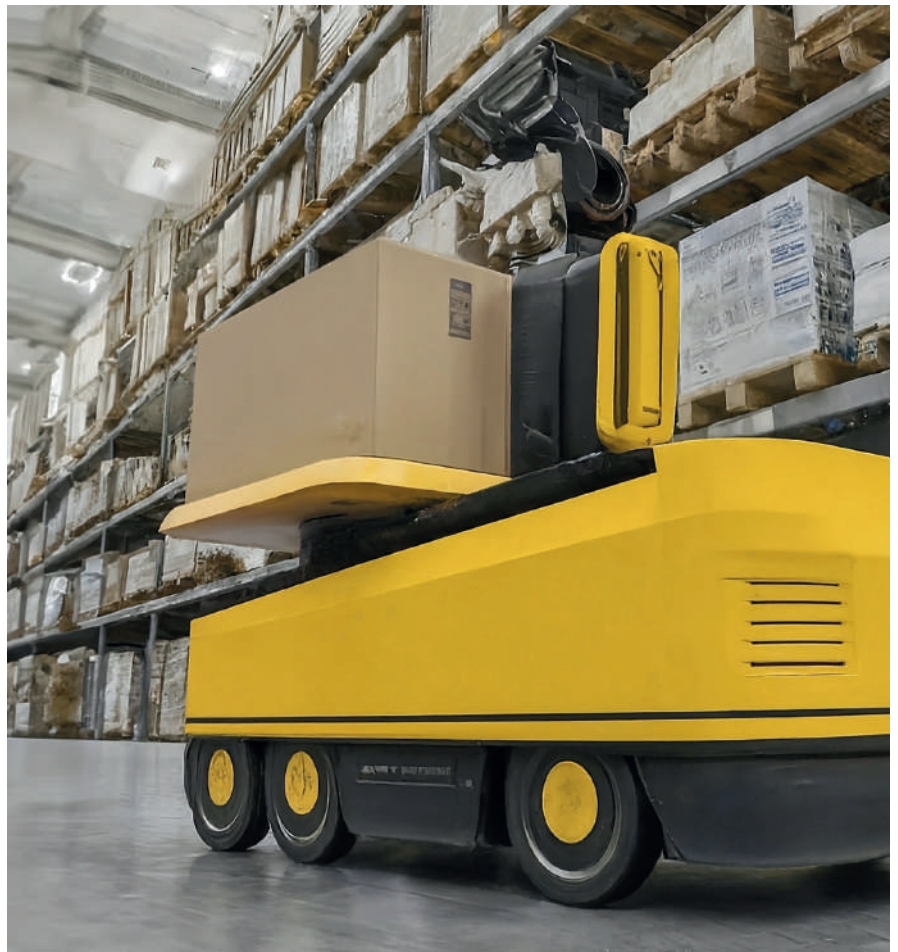


## Dynamic Tensioner Devices: SE

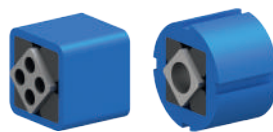


### Function: Transmission tensioning

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

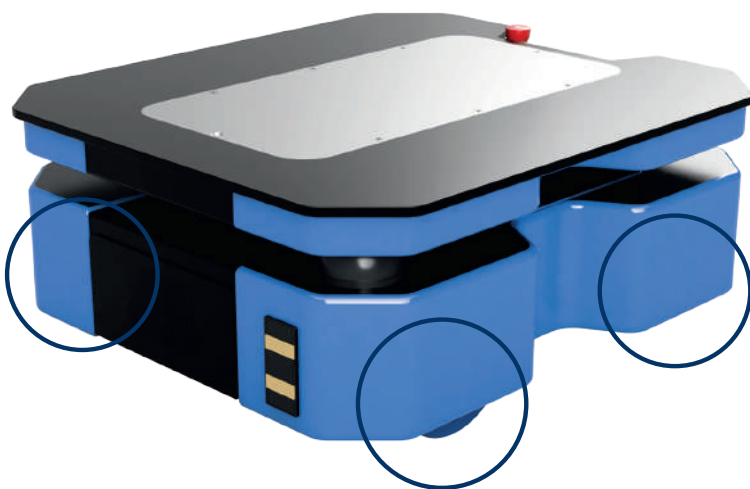


## Rubber Suspension Units: DR / DK



### Function: Anti-vibration mounts & elastic joint

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



# OUR PORTFOLIO OVERVIEW



## BELT AND CHAIN TENSIONING

Tensioner systems for belt and chain drives



SE



SE-G/SE-I



SE-F

### ACCESSORIES:



RL/R



CHAIN  
RIDER P



SPROCKET  
WHEEL N



## SHOCK AND VIBRATION CONTROL

Components for shock and vibration control



ESL



V



AWI



## RUBBER SUSPENSION ELEMENTS

Multifunctional and adaptable suspension elements



DR



DW



DO



DK



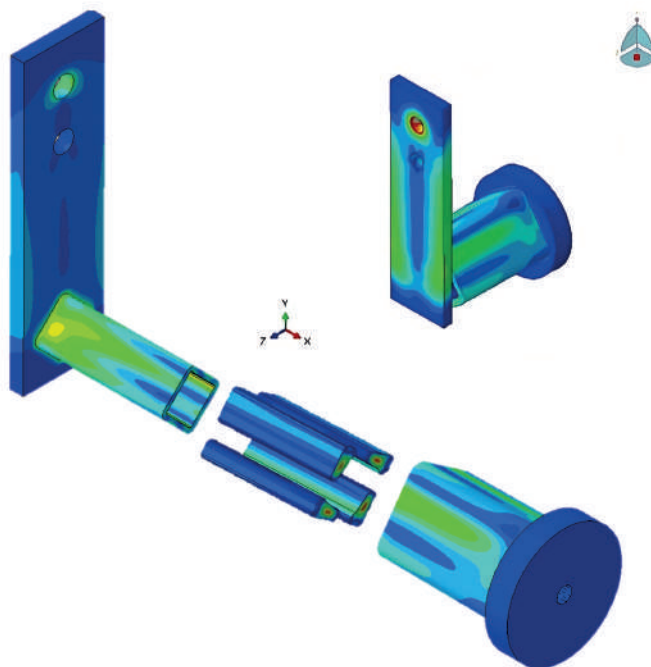
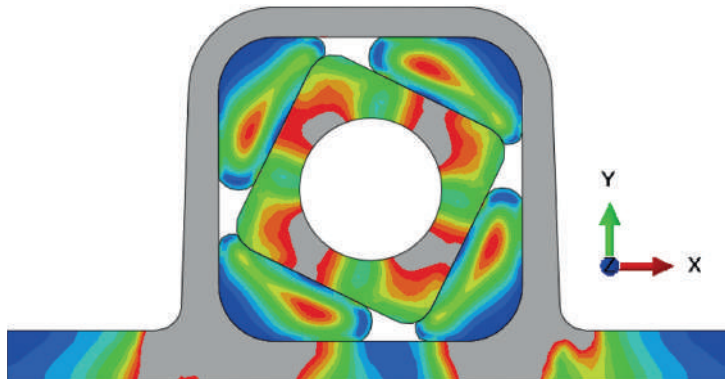
ST

**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.

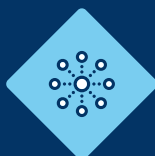
**IMPRESSIVE SALES VOLUME:** Our commitment to quality and reliability, across all our core markets, has resulted in an impressive annual sales volume of over 1.5 million units.

**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 industry-specific products reach a wide array of customers through our robust distribution network, extending across over 40 countries.



**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 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

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## HEADQUARTERS

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### ROSTA AG SWITZERLAND

Hauptstrasse 58  
CH-5502 Hunzenschwil  
+41 (0)62 889 04 00  
info.ch@rosta.com  
rosta.com



## ROSTA SALES OFFICES

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### GERMANY

+49 (0)2336 47 95 80  
info.de@rosta.com

### CHINA

+86 21 5428 9775  
sales@rostachina.com

### ITALY

+39 2 93655 101  
rostitalia@rosta.com

### USA

+1 269 841 5448  
info@rosta.com

### CANADA

+1 905 642 6996  
info.canada@rosta.com

### AUSTRALIA

+61 1 300 169 881  
sales.aus@rosta.com

## ROSTA DISTRIBUTION PARTNERS

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For information about our distribution partners worldwide please use the qr-code or visit [www.rosta.com/en/distribution-partners](http://www.rosta.com/en/distribution-partners)

ISO 9001  
ISO 14001  
BUREAU VERITAS  
Certification



**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.



**ROSTA AG**  
**SWITZERLAND**

Hauptstrasse 58  
CH-5502 Hunzenschwil  
+41 (0)62 889 04 00  
info.ch@rosta.com  
**rosta.com**



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**MICHAUD CHAILLY®**

[www.michaud-chailly.fr](http://www.michaud-chailly.fr) - [michaud@michaud-chailly.fr](mailto:michaud@michaud-chailly.fr)

Your ROSTA Contact

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**MICHAUD CHAILLY - Partenaire officiel**

**[www.michaud-chailly.fr](http://www.michaud-chailly.fr) - Tél. 0825 002 555**