

ROSTA INSIDE RECYCLING

Solutions for Increased Productivity & Output

THE CORE OF OUR EXCELLENCE

One Smart Concept, Endless Applications

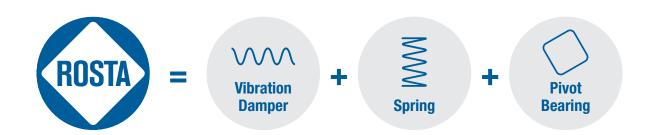
It all started in 1944 with a clever invention. Today, ROSTA is the world's leading manufacturer when it comes to rubber spring, tensioning and damping solutions.

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

Inner Square

Housing

4 Rubber Inserts



WHY WORK WITH ROSTA

Efficiency & Productivity

- \rightarrow Increased Productivity
- \rightarrow Smooth Operations
- \rightarrow Quality Materials

Lower Total Costs

- \rightarrow Longer Service Life
- → Maintenance-Free Operation
- ightarrow Simple, Durable & Noiseless

CUSTOMER VALUE-ADD

Service & Aftersales

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

Flexibility & Customization

- \rightarrow Control Linear & Rotary Motion
- \rightarrow Torsional Elastomer Spring Solutions
- ightarrow Customized Engineered Solutions
- ightarrow Digital Services and Engineering



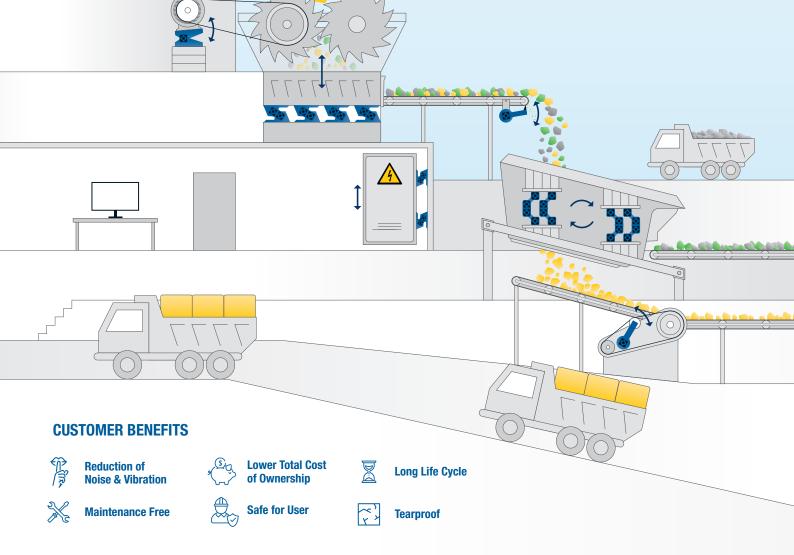
Just trust Swiss excellence in engineering. Because your success is our ultimate goal. Feel free to talk to us!



At ROSTA, we have developed a tailored process flow that reflects our expertise and understanding of the recycling industry. It is a complex industry where both open-loop and closed-loop processes are of great importance.

- Open-loop is converting manufactured goods into new raw materials and waste products \rightarrow delaying disposal
- Closed-loop is recycling of manufactured goods back into itself or a similar product \rightarrow no significant degradation or waste

Our ROSTA solutions play significant role in optimizing the productivity of machines within these recycling processes. Our components not only increase output, but they also help to conserve resources. Be smart put ROSTA INSIDE!



- $\rightarrow \textbf{Belt Scrapers}$
- \rightarrow Belt Drives
- \rightarrow Chain Drives
- \rightarrow Impact Tables

FREE OSCILLATING SYSTEMS.....8

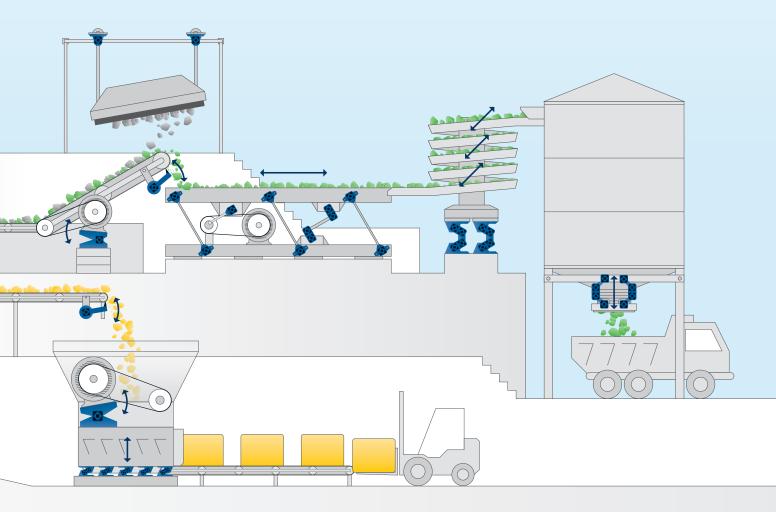
- \rightarrow Feeders
- \rightarrow Screens (Linear & Circular)
- \rightarrow Spiral Conveyors
- → Hanging Systems
- ightarrow Mobile Screens

CRUSHERS & SHREDDERS......6

- ightarrow Belt Transmissions
- \rightarrow Shock Absorbers

- \rightarrow One Mass Shaker Systems
- → One Mass Shaker "Natural Frequency" Systems
- \rightarrow Two Mass Shaker Systems

- \rightarrow Gyratory Sifters
- \rightarrow Flip Flows
- ightarrow Ballistic Separators
- \rightarrow Densimetric Tables



BELT CONVEYORS

Belt conveyors play a crucial role in any recycling process because they enable the transportation of large quantities and heavy loads of waste products from the loading dock to the sorting line, up to the crushing area. ROSTA supports running the conveyor smoothly and consistently, no matter what type you are using. Our components simplify and optimize the transport of recycling materials on the belt. This minimizes damage to the conveyor and improves output.

CUSTOMER BENEFITS



e Free 🗸



Reduction of Noise & Vibration

ion

Long Life Cycle

BELT SCRAPERS





Dynamic Tensioner Devices: **SE Tensioners**



- \rightarrow Continuous / even belt surface engagement
- \rightarrow Automatically compensates for belt and blade wear
- \rightarrow Dampens shocks and overloads





- \rightarrow Without lever arm enables ROSTA technology to be adapted to the machine (or customer) design
- \rightarrow Continuous / even belt surface engagement
- \rightarrow Automatically compensates for belt and blade wear
- \rightarrow Dampens shocks and overloads

BELT DRIVES



Dynamic Tensioner Devices: **MB Motorbase**



- \rightarrow Fast and safe belt change, no realignment required
- \rightarrow Compensation of high start-up torque
- \rightarrow Constant transmission
- \rightarrow Better drive performance
- \rightarrow Energy cost savings
- \rightarrow Also available in ATEX specifications



CHAIN DRIVES

Dynamic Tensioner Devices: **SE Tensioners**



- \rightarrow Self-adjusting drive tensioner set it and forget it!
- \rightarrow Increased drive performance
- \rightarrow Reduces wear and tear on ancillary drive components

IMPACT TABLES



Anti-Vibration Mounts: **ESL**



- \rightarrow Low frequencies and a high damping effect
- \rightarrow Good isolation of impacts and vibrations (High absorption of reactive forces)
- \rightarrow Suspensions of transfer cradles offering conveyor belt protection
- \rightarrow Absorbing solid-borne noise

CRUSHERS & SHREDDERS

Only with their enormous forces can the most diverse materials be broken down into parts for further processing. **ROSTA components help to reduce maintenance time and minimize excessive vibrations and shocks.**

CUSTOMER BENEFITS



Long Life Cycle (MTBF) Reduction of Noise & Vibration ا کے Lower Total Cost رہے کر of Ownership

BELT TRANSMISSIONS



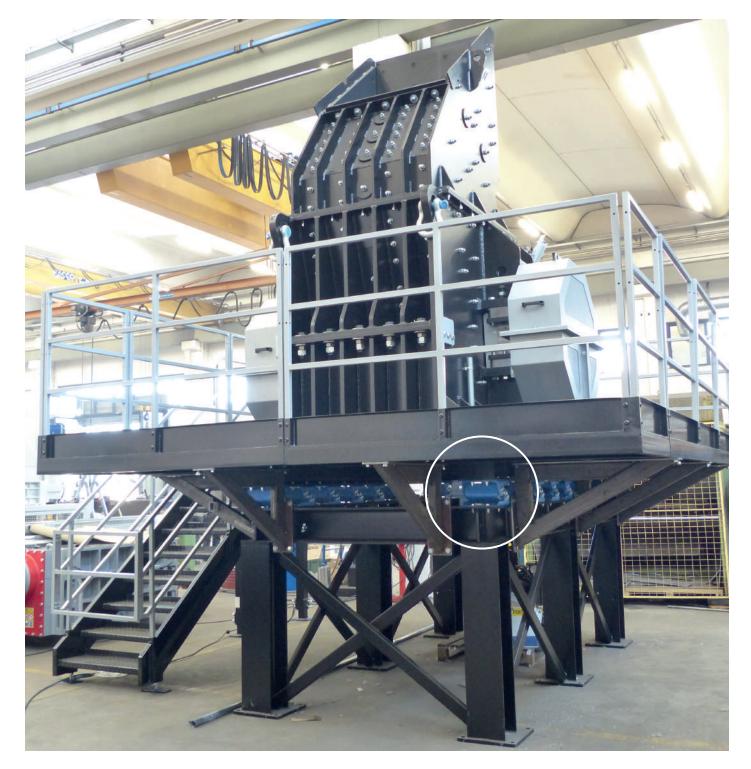
Dynamic Tensioner Devices: **MB Motorbase**



- ightarrow Fast and safe belt change, no realignment required
- ightarrow Compensation of high start-up torque
- \rightarrow Constant transmission
- \rightarrow Better drive performance
- \rightarrow Energy cost savings
- ightarrow Also available with ATEX specifications



SCHOCK ABSORBERS





Anti-Vibration Mounts: **ESL & V**



- \rightarrow Low frequencies and a high damping effect
- \rightarrow Good isolation of impacts and vibrations (High absorption of reactive forces)
- \rightarrow Absorbing solid-borne noise

FREE OSCILLATING SYSTEMS

Free oscillating systems include screening machines, vibrating feeders and shaking conveyors which require reliable, high–performance suspension components. ROSTA offers a wide range of oscillating mountings for these types of machinery. **ROSTA's range of OSCILLATING MOUNTINGS provide dependably reliable performance and durability with zero-maintenance to provide best-in-class levels of isolation and efficiency for all free oscillating vibrating systems.**

CUSTOMER BENEFITS



Reduction of



X

Long Life Cycle

FEEDERS





Oscillating Mountings: AB / AB-HD / AB-D / AB-LF (Pat. Pending)



- \rightarrow High oscillation performance (screen side)
- \rightarrow Effective isolation (frame side up to 98%)
- \rightarrow No lateral tumbling
- \rightarrow Shortens the run-out phase considerably
- ightarrow Overload/impact proof
- \rightarrow No "anti-pinch protection" required
- \rightarrow Long service life



CIRCULAR & LINEAR SCREENS





Oscillating Mountings: **AB / AB-HD / AB-D* / AB-LF** (Pat. Pending) For circular and linear motion screens including heavy duty loading and systems with counter frame mounting



- \rightarrow High oscillation performance (screen side)
- \rightarrow Effective isolation (frame side up to 98%)
- \rightarrow No lateral tumbling
- \rightarrow Shortens the run-out phase considerably
- \rightarrow Overload/impact proof
- \rightarrow No "anti-pinch protection" required
- \rightarrow Long service life

AB-HD: Similar benefits as AB, with heavy duty capacities. AB-D: Similar benefits as AB, for classic frame and counter frame mounting systems

* Linear screens only



SPIRAL CONVEYORS

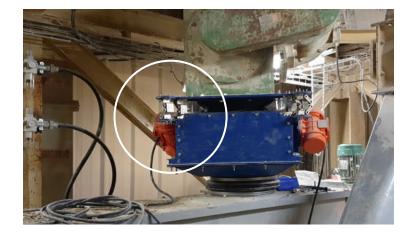
Oscillating Mountings: **AB-D** – for spiral conveyors



- \rightarrow High isolation effect
- \rightarrow Oscillations to the highest spiral guaranteed
- ightarrow Compact design
- ightarrow Stable spiral tower
- \rightarrow No additional fall-prevention devices needed
- → Smaller number of suspensions required versus other solutions

HANGING SYSTEMS











- \rightarrow Designed for hanging loads
- ightarrow No safety risks
- \rightarrow High oscillation performance (screen side)
- \rightarrow Effective isolation (frame side up to 98%)
- \rightarrow No lateral tumbling
- ightarrow Shortened the run-out phase considerably
- ightarrow Overload/impact proof
- \rightarrow No "anti-pinch protection" required
- \rightarrow Long service life



MOBILE SCREENS

Mobile screens are designed for rubble and debris screening of material coming from construction and demolition, excavations waste, compost, asphalt, rocks, etc. They are usually equipped with a vibrating deck fitted on suspensions. They operate in the most difficult access areas and have the advantage of being able to be moved quickly from one work site to another.





Oscillating Mountings: **AB / AB-D / AB-HD** for mobile applications



- \rightarrow Strong linear motion
- \rightarrow Controlled oscillating motion
- \rightarrow No violent shaking at start up & shut down
- \rightarrow Long service life
- ightarrow Good corrosion resistance
- \rightarrow No shear breakage
- \rightarrow Anti-tear and safety
- \rightarrow No additional equipment required for transport





GUIDED SYSTEMS

Oscillating shaker conveyors with crank shaft drives are widely used for the transportation and selection of materials such as copper, electronic scrap and plastics. There are one mass shaker conveyor systems or so-called brute force shaker conveyors, one mass shaker conveyor systems equipped with spring accumulators and two mass shaker conveyor systems with direct reaction force-compensation. All those shaker designs require special springs and rockers. ROSTA has them all. From single rockers to double rockers including the elements for spring accumulation and drive heads.

CUSTOMER BENEFITS



Long Life Cycle (MTBF)

Reduction of Noise & Vibration

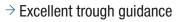
Lower Total Cost of Ownership

ONE MASS SHAKER SYSTEMS



Oscillating Mountings: AU – Single Rocker





- \rightarrow Smooth and long stroke motions
- \rightarrow Conveying speed up to 15 m/min
- \rightarrow Trough lengths up to 15 meters

Oscillating Mountings: ST – Drive Head

- → Elastic drive head
- \rightarrow Damping dead centers
- \rightarrow For alternating loads
- \rightarrow For crank shaft driven shakers conveyors

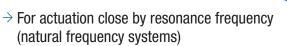




ONE MASS SHAKER "NATURAL FREQUENCY" SYSTEMS



Oscillating Mountings: AU – Single Rocker DO-A – Spring Accumulator



- \rightarrow Compensate the hard hits of crank shaft drive (dead center)
- \rightarrow High dynamic stiffness: heavily supporting the eccentric trough motion
- \rightarrow Conveying speed up to 22 m/min
- \rightarrow Trough lengths up to 20 meters







Oscillating Mountings: AD-P / AD-C – Double Rocker

- ightarrow Excellent trough guidance
- \rightarrow Smooth and long stroke motions
- \rightarrow Damping dead centers
- \rightarrow Acceleration up to 5.0 g
- ightarrow Conveying speed up to 45m/min
- \rightarrow Trough lengths up to 30 meters



SEPARATORS

Good quality recycling depends on reliable sorting machines. Separators used in this process need to operate at optimum capacity to ensure that the recycled yield is free of contaminants. ROSTA components not only help to reduce maintenance costs but also to reduce excessive vibrations and friction.

CUSTOMER BENEFITS



Long Life Cycle (MTBF)

Cycle ·

Reduction of Noise & Vibration Lower Total Cost

GYRATORY SIFTERS





Oscillating Mountings: **AK** – universal joint for support or suspension



- \rightarrow High load capacity (up to 40'000 N)
- \rightarrow For hanging and staying applications
- \rightarrow Smooth guidance and noise reduction
- → Long life
- \rightarrow Maintenance free



FLIP FLOWS



Oscillating Mountings: **DO-C – Single Rocker**



- \rightarrow Efficient spring accumulators
- \rightarrow Highest flow capacity
- \rightarrow Facilitate long stroke motions

Oscillating Mountings: **AB-D** – for linear motion screens



- ightarrow Purely linear motion no lateral tumbling
- \rightarrow Allows more efficiency
- \rightarrow shortened the run-out phase considerably
- \rightarrow Absorbing efficiently solid-borne noise and dynamic forces
- \rightarrow Overload/impact proof

BALLISTIC SEPARATORS



Rubber Suspensions: DR – Steel Tube DK – Aluminum Profile



- \rightarrow Elastic bushing with high damping effect
- \rightarrow Energy and solid-borne noise absorbing
- ightarrow Perfect guidance
- \rightarrow Protects the interfaces (screws, rods, shafts, frame)

DENSIMETRIC TABLES





Oscillating Mountings: AD-P – Double Rocker

- ightarrow Excellent trough guidance
- \rightarrow Smooth and long stroke motions
- \rightarrow Damping dead centers
- \rightarrow Reduced number of rocker arms
- \rightarrow Long life solution

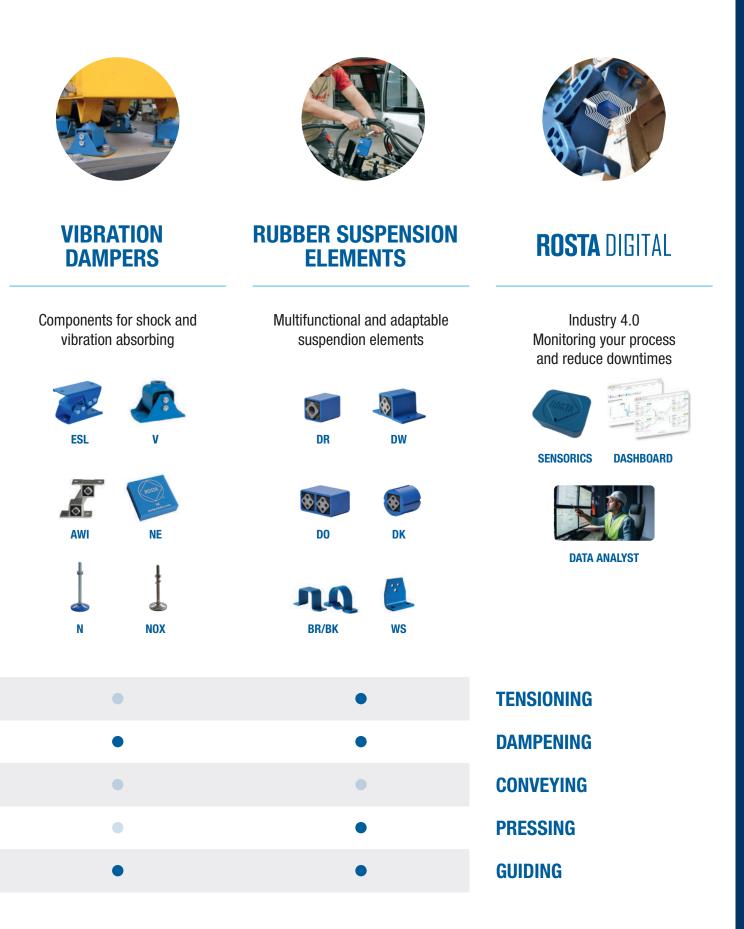


OUR PORTFOLIO

<image/>		<image/>
Self-tensioning motor mounts for all friction belt drives	Tensioner systems for belt and chain drives	Elastic suspensions for screening and conveying
MB 38 MB 50	SE SE-B	AB/AB-HD AB-D AB-LF HS
MB 75 MB 100	SE-I CR-P	AU DO AR AS-C/P
	R-RL WS SW-N	AD-C/P AV AK ST
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Can't find what you need in the catalog?

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



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 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

HEADQUARTERS

ROSTA AG SWITZERLAND

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



ROSTA SALES OFFICES



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

ITALY +39 2 93655 101 rostaitalia@rosta.com

CANADA +1 905 642 6996 info.canada@rosta.com CHINA +86 21 5428 9775 sales@rostachina.com

USA +1 269 841 5448 info@rosta.com

AUSTRALIA +61 1 300 169 881

sales.aus@rosta.com

ROSTA DISTRIBUTION PARTNERS



For information about our distribution partners worldwide please use the qr-code or visit **www.rosta.com/en/distribution-partners**



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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Your ROSTA Contact

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