

**MOSCA®** —  
EXCELLENCE IN STRAPPING SOLUTIONS



**SONIXS®**  
MOSCA® —



# Ultrasonic Technology

## Advanced Strapping Solution

Mosca's SoniXs ultrasonic sealing heads have revolutionised the strapping technology. Mechanical vibrations are transmitted under pressure to the ends of the plastic strap, which are then compressed and cooled down under joining pressure. A unique sonotrode makes the seal extremely sturdy. SoniXs offers significant and proven advantages over traditional heat-seal technologies, including costs, maintenance, and longevity across all industries and applications.

## Increase Flexibility, Lower Overhead Costs

The custom sonotrode, is the heart of the high-speed sealing unit, joins the strap ends for a superior, solid bond and consistent strap seal that maintains strength to keep your products secure and protected. Its unique seal impression gives our customers the ability to identify and deter tampering easily.

Unlike heat seal systems, SoniXs strap seals are made without the use of high-temperature components, reducing energy costs, improving safety, and generating lower emissions. The process-controlled system is operator-friendly, requiring minimal maintenance and reduced parts usage.

Using ultrasonic sealing has also given our customers the ability to use PET strap in bundling applications, allowing increased flexibility when it comes to a more sustainable plastic strap choice.



# Benefits of SoniXs



## ECONOMICAL

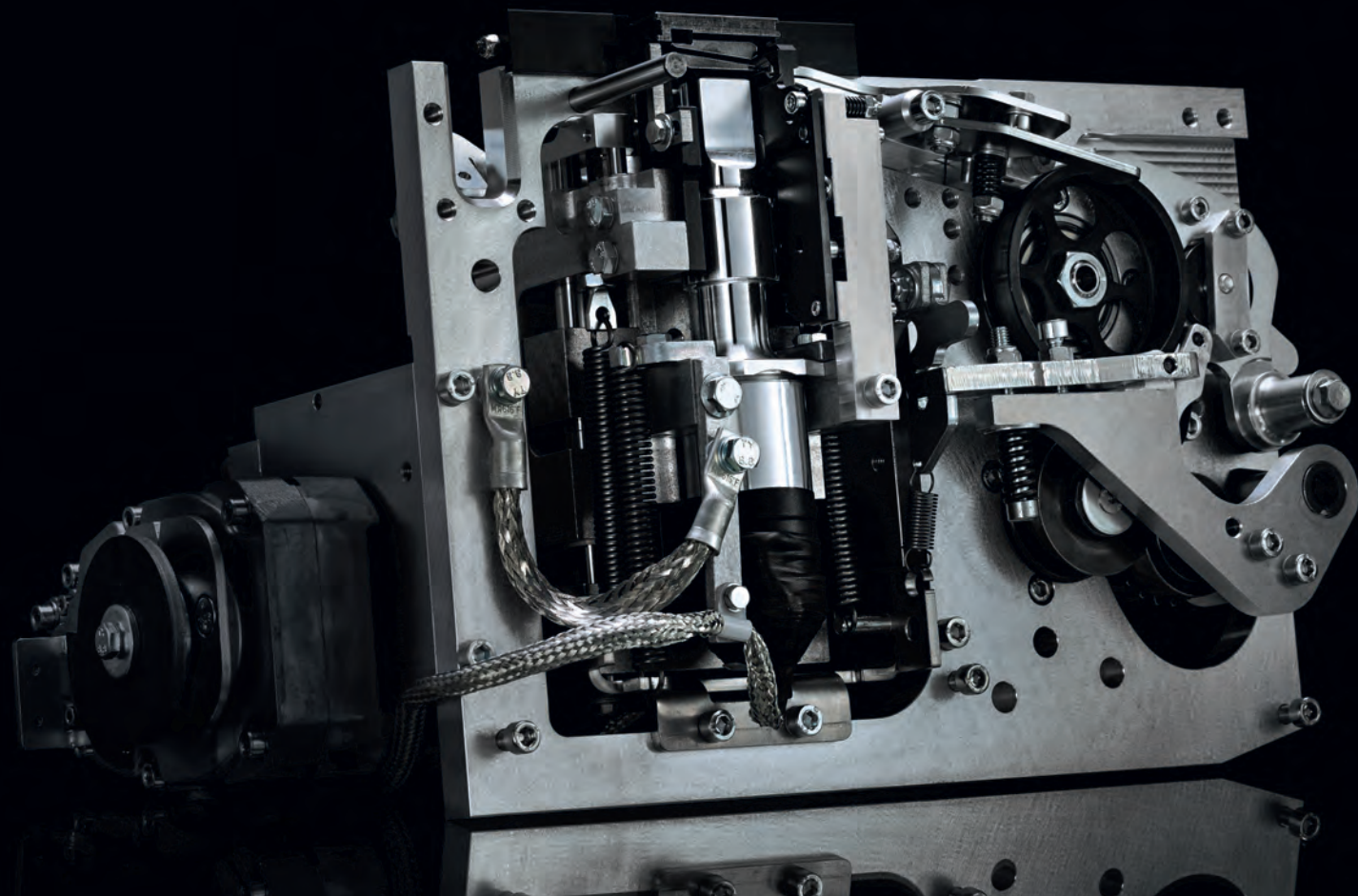
- Increased seal strength saves the amount of strapping material needed per package.
- In contrast to heat-sealing systems that require constant resources, the SoniXs technology only uses power during the strapping cycle.

## SUSTAINABLE

- No emissions like smoke, fumes or smells.
- Low noise level.
- As SoniXs allows the sealing of PET strap (made from recycled material, and is 100% recyclable) it provides customers an economical and more environmentally friendly alternative.
- The SoniXs system is available at any time, without a warm-up phase.

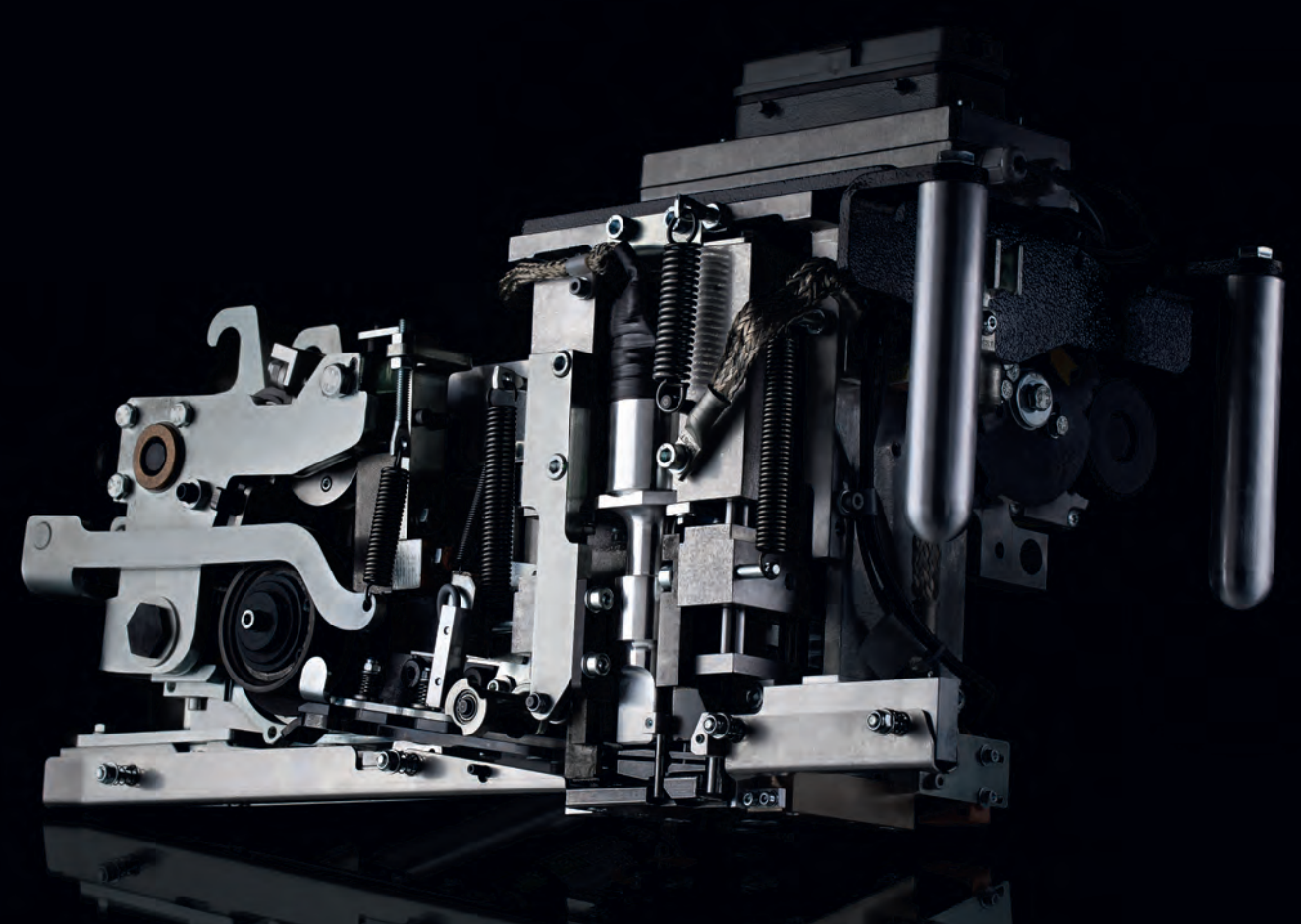
## EFFICIENT

- The entire SoniXs strapping system is state of the art in strapping technology and combines minimum wear with maximum availability.
- Minimal maintenance is required as no residue is created during the sealing process.
- Seals both PP and PET strapping and ensures reliable strap tension for transport securing under various conditions.
- Easy switch between PP and PET strap when needed.
- The self-calibrating system monitors major parameters before every seal for consistent sealing in any environment.
- The tool-free disassembly of the sealing head allows easy and fast access to functional units in just a few seconds.
- The very short sealing time, ultrasonic sealing technology meets the high demands of tightly scheduled production.



### Advantages of SoniXs in the machine sector

- **Operator-friendly**  
The strap path components of the SoniXs unit can be dismantled without tools, thus enabling simple and fast maintenance.
- **Dirt-resistant**  
When using SoniXs technology for sealing, the straps are not melted, which prevents deposits or residues from burning into the sonotrode, which in turn guarantees high availability.
- **Corrosion-resistant**  
Outside influences such as moisture or salty air have no influence on the efficiency of the SoniXs sealing unit.
- **Work safety & fire protection**  
As there is no significant heating during welding using SoniXs technology, there is no risk of injury in addition to an energy advantage. Furthermore, there is no fire risk for highly inflammable goods.
- **Low maintenance**  
Linearly mounted processes, low-wear components, and a SoniXs unit that meets the highest quality standards require minimum maintenance. Thus, maintenance of SoniXs machines can be planned for any sensitive production.



### Advantages of SoniXs in pallet strapping

- **Weight-reduced**  
The SoniXs unit can be easily removed for maintenance purposes thanks to the quick-release fasteners, weighing only 32 kg.
- **Powerful**  
With a strap tension of up to 2500 Newton, the SoniXs sealing unit for pallet strapping applications provides optimum transport security.
- **Low noise levels**  
The SoniXs sealing process causes no perceptible mechanical noise.
- **Low maintenance**  
Linearly mounted processes, low-wear components, and a SoniXs unit that meets the highest quality standards require minimum maintenance. Thus, maintenance of SoniXs machines can be planned for any sensitive production.



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