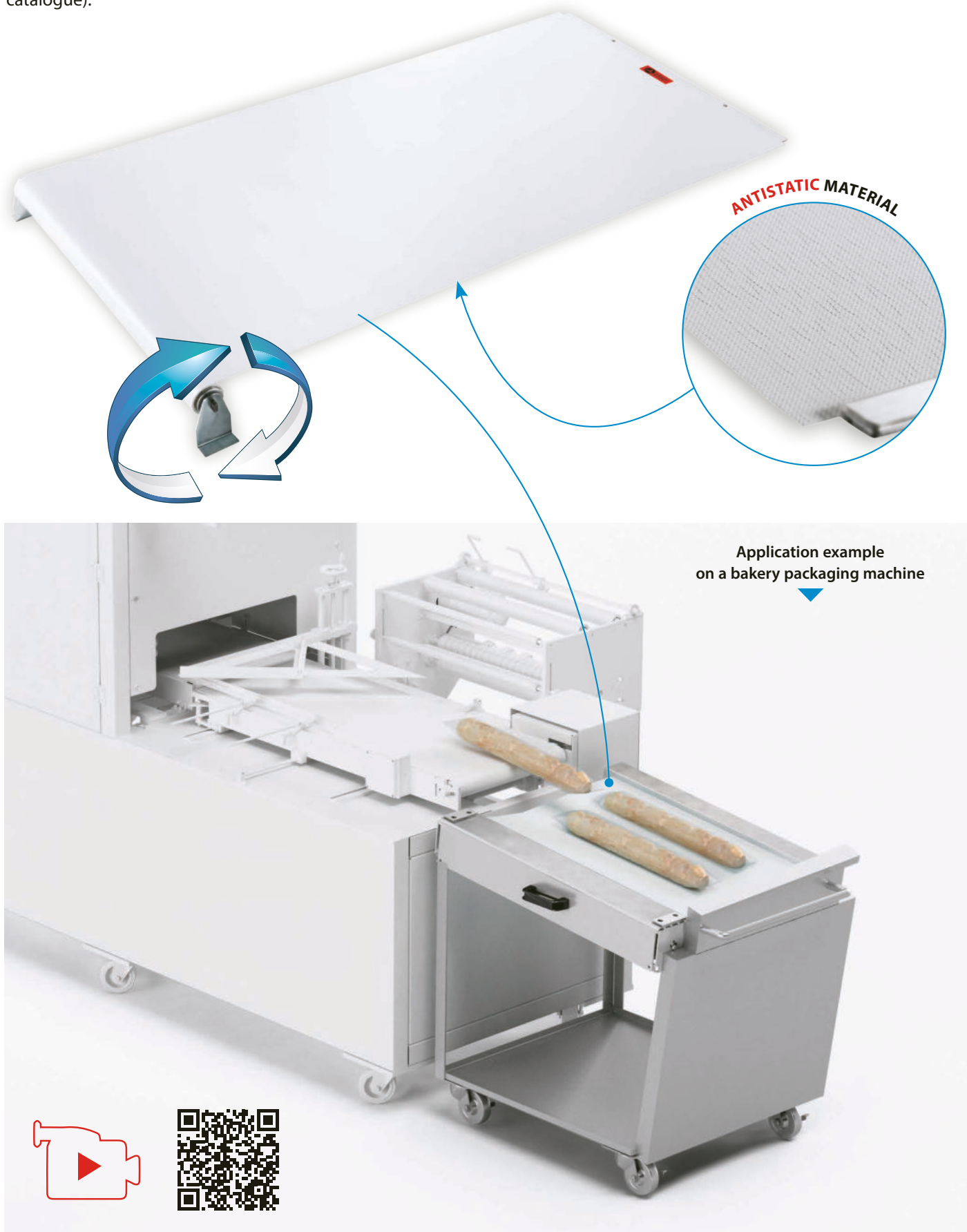




### ROLL-UP COVER FOR THE FOOD INDUSTRY

**P.E.I. roll-up covers** are also used in the food packaging industry.

Our special band material Temat159 is **FDA approved** and antistatic (please refer to the fabric material list at the end of this catalogue).





## ROLL-UP COVERS FOR FRUIT HARVESTING PLATFORMS

**P.E.I. Roll-up Covers** are also used to offer lateral protection of the lifting mechanism of agricultural wagons (pantographs), as well as for all situations in which a lifting platform must be covered in order to avoid accidental contact and the danger of shearing.

It also protects the lifting mechanism from dirt, such as leaves, branches, etc., which could enter and interfere with the mechanism's operation.

Fabrics are available in several variants and colours.

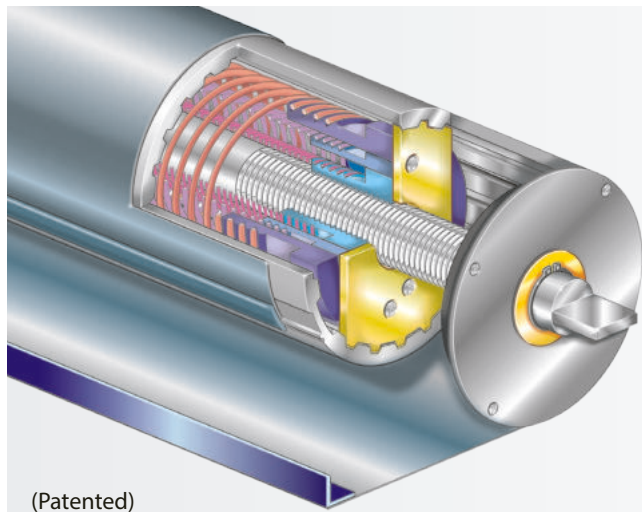






## SURE-SPRING®

The P.E.I. **Patented design** known as **SURE-SPRING®** represent the most advanced level of technical innovation in the field of roll-up covers.

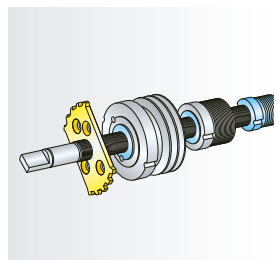


(Patented)

- Suitable for HIGH SPEED operation
- The multiple springs remain COAXIAL
- The springs NEVER INTERSECT
- REDUCED overall diameters
- EXCELLENT reliability
- Advancement speeds of up to 150 m/min
- Acceleration of up to 2 g
- 2,000,000 movements guaranteed
- SECURE attachment of the band to the tube, because NO adhesive products are used
- PRACTICAL maintenance, since the band can be replaced quickly and easily
- Also suitable for use in work environments where STRONGLY AGGRESSIVE chemicals are used
- HEALTHY for the environment

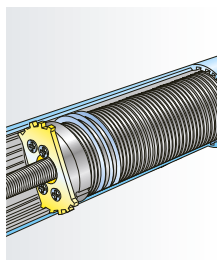
### SURE-SPRING® Technical Specifications

#### Transmission



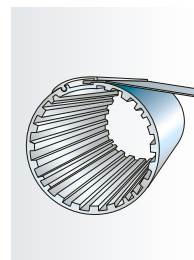
The rotary movement of the tube in relation to the fixed central shaft is transmitted by a sliding spline. This system compensates for the elongation of the multiple springs by moving the spring mounting point axially along a threaded shaft.

#### Innovative features

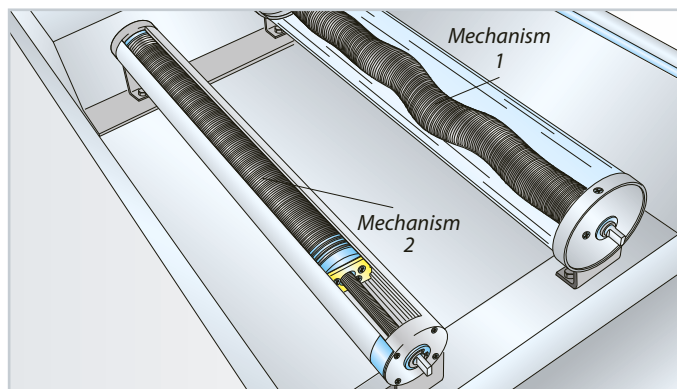


This new system allows the multiple springs to work according to an ideal geometry, keeping their coils properly spaced.

#### Mechanical system attaching the band to the tube

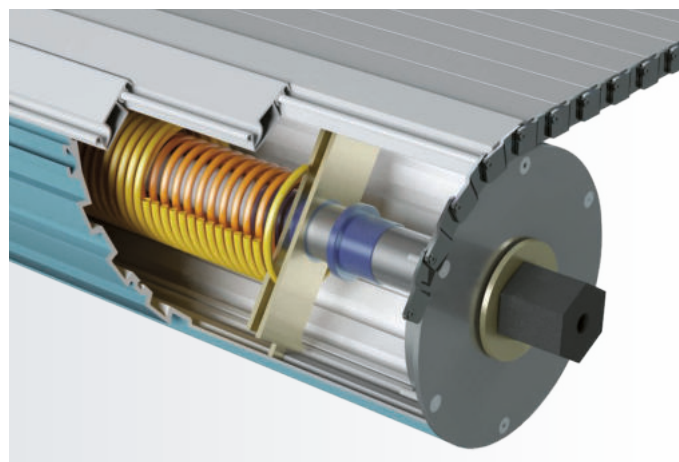


This is the most reliable system for insuring a secure attachment between the band to the tube.



### SURE-SPRING® Operating diagram

- In **Mechanism 1 (traditional system)** the springs are rigidly attached to the fixed caps at the ends of the shaft. In this system the springs helically twist and snake while winding or unwinding, causing obvious problems of friction and wear between the coils as well as between the coils and the central shaft.
- In **Mechanism 2 (SURE-SPRING® system)** the springs are attached to a special moving cap, which slides lengthwise while winding and unwinding, keeping the spring coils packed and concentric at all times. This spring configuration avoids most of the wear mentioned above, allowing better performance and a much longer operating life-span for the spring mechanism. (For recommended dimensions see page 15).



### SURE-SPRING®, HP VERSION

The **SURE-SPRING HP** winding mechanism is the answer to the elevated power required to wind up large size protective covers. An optimal dimensioning of the springs guarantees the tensile force required for moving **"J"-series apron covers**.



## X-Y 4R SHIELD

- The **X-Y 4R SHIELD** is a truly effective solution to the problem that occurs in horizontal machining centers when separating the tool working area from the motor area.
- The **X-Y 4R SHIELD** allows the spindle to move freely in all directions.
- The **X-Y 4R SHIELD** uses four **SURE-SPRING®** roll-up covers.



Application examples



## X-Y SP-2R SHIELD

- It represents the most reliable system for protecting the work area, on the horizontal and vertical machining centers, in an environment where a large quantity of hot shavings is produced.
- As shown in the picture, this system is mounted on a **SHEET-POCKET™** Steel Cover (patented - see page 10) on the Y-axis and two rollers on X-axis with **Ceramix\*** bands.
- We can guarantee this system up to accelerations of 1 g and speeds up 90 m/min. For higher applications, please contact our Engineering Department.
- During the design of this system access and ease of inspection are taken into account. By talking with the client we agree on how to achieve quick and easy assembly during the design phase of the machinery.



\*) The roll-up covers represented here are equipped with a **Ceramix** band. Other types of bands are available depending on requirements.

See Technical Characteristics of **Ceramix** band on pages 60-61 under code TEMAT181.

Application examples

