

Quantum leap in web spreading

Highly efficient EcoStretchRoll spreader rollers

The EcoStretchRoll (ESR) is an innovative spreader roller developed by the inventor of brush spreader rollers. Using patented precision rubber rings with individual spreading elements, the ESR enables improved and precise spreading without the need to use an engine for drive or adjusting the roller. Each rubber ring consists of independent spreading elements that react quickly to fabric pressure. The controlled movement towards the edge of the roller is achieved by a protected moulding of the spreader elements..

Advantages at a glance:

- strong spreading capacity
- no separate drive needed
- cost-efficient
- vibration-absorbing
- nearly wear-free
- marking-free
- FDA compliant

Model overview

ESR-ST (Sensitive Treatment)
Spreads all webs > 4 µm or > 8 gr/m²



ESR-ST 40/60
outer diameter: 60 mm
speed: up to 300 m/min.



ESR-ST 80/110
outer diameter: 110 mm
Speed: up to 700 m/min.



ESR-ST 100/130
outer diameter: 130 mm
speed: up to 800 m/min.



ESR-ST 120/150
outer diameter: 150 mm
Speed: up to 1.000 m/min.

Advantages of the ESR spreader rollers



Principle of operation
1.400-2.800 independently operating individual spreader elements per meter of roll length.



Contact surface
Slightly curved, large contact surfaces ensure marking-free guidance without relative movement.



Wrap angle
Full functionality at 8-180° wrap angle.



Web Tension
Between 10 and 750 N/mtr. roll length.



Web thickness
Spreads any material thickness > 4 µm and > 8 gr/m².



Multiple cutting
Applicable for multiple cuttings.



Web speed
The EcoStretchRoll can be used up to 1.000 m/min. At the same time, it has a vibration-damping effect and runs absolutely quietly.



Variants
The EcoStretchRoll is available in four diameters (60, 110, 130, 150 mm) and can be produced to customer specifications up to a maximum of 7.000 mm.



Material properties
Wear-resistant, temperature- and ozone-resistant and FDA-approval on request.



Roll body
Lightweight aluminium roll tubes with special geometry for high bending stiffness. Fast response due to low start-up weights and low inertia.



Assembly
Each EcoStretchRoll is produced according to customer specifications and delivered ready for installation. It is ready for immediate use without external drive or adjustment.