

Quantum leap in web spreading

Highly efficient ESR spreader rollers

The **ESR (EcoStretchRoll) spreader roller** is an innovative, patented roller with which safe, gentle and wrinkle-free spreading is reliably achieved. The individual advantages of existing spreading systems such as banana rollers, brush rollers or spiral rubber rollers have been combined and improved further in the ESR system. Films, nonwovens, textiles and paper can be equally perfectly spread - even under difficult conditions such as high speeds, very thin materials or in a turning bar system.

Advantages at a glance:

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

Type overview

Type ESR-BR (Basic Roller)

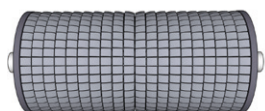
Application: all webs $>30\text{ }\mu\text{m}$ or $>45\text{ gr/m}^2$, Layout spreading elements: linear



ESR-BR 80/110, outer diameter: 110 mm
Speed: up to 350 m/min
Material: EPDM black 60 +/- 5 Shore,
silicone grey 60 +/- 5 Shore



ESR-BR 100/130, outer diameter: 130 mm
Speed: up to 350 m/min
Material: EPDM black 60 +/- 5 Shore



ESR-BR 120/150, outer diameter: 150 mm
Speed: up to 350 m/min
Material: EPDM black 60 +/- 5 Shore

Type ESR-ST (Sensitive Treatment)

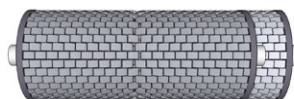
Application: all webs $>4\text{ }\mu\text{m}$ or $>8\text{ gr/m}^2$, Layout spreading elements: offset



ESR-ST 40/60, outer diameter: 60 mm
Speed: up to 200 m/min
Material: TPE black 60 +/- 5 Shore



ESR-ST 80/110, outer diameter: 110 mm
Speed: up to 500 m/min
Material: TPE black 60 +/- 5 Shore



ESR-ST 100/130, outer diameter: 130 mm
Speed: up to 500 m/min
Material: TPE black 60 +/- 5 Shore,
silicone grey 60 +/- 5 Shore



ESR-ST 120/150, outer diameter: 150 mm
Speed: up to 800 m/min
Material: EPDM black 60 +/- 5 Shore,
silicone grey 60 +/- 5 Shore

Advantages of the ESR spreader rollers



Working principle

1,300-2,600 independently spreading single spreader elements per metre of roller length.



Contact surface

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



Wrap angle

Full functionality at **8-180 degrees** in both directions of rotation.



Web tensions

Between **40 and 500 N/m** material web.



Web thickness

Spreads any material thickness **$>4\text{ }\mu\text{m}$** and **$>8\text{ g/m}^2$** .



Multiple cuts

Partial insertion of spread-neutral areas enables multiple use.



Line speed

The ESR roller can be used up to **800 m/min**. It has a vibration-absorbing effect and runs absolutely smoothly.



Versions

4 diameters: 60, 110, 130, 150 mm
3 materials: EPDM, silicone, TPE
2 layouts: ESR-BR, ESR-ST, length according to requirements, max. 7000 mm.



Material properties

EPDM: wear-resistant, temperature- and ozone-resistant, good antistatic behaviour
TPE: similar to EPDM, dyeable, recyclable, FDA compliant
Silicone: temperature resistant up to 190°C, FDA compliant



Roller body

Smooth-running roller from DRECKSHAGE. Lightweight aluminium core with special geometry for high bending strength. Fast reaction due to starting weights from 20 g with low mass inertia.



Assembly

The ESR roller is supplied ready for installation according to customer specifications. It is immediately ready for operation without a separate drive.



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