

## 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.

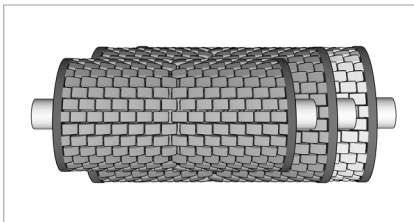
### Advantages at a glance:

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

## Type overview

### Type ESR-ST (Sensitive Treatment)

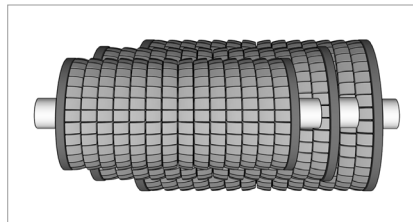
ST80/110, ST100/130, ST100/130-SI



Outer diameter: 110, 130 mm  
Layout spreading elements: offset  
Application: all webs  $>4 \mu\text{m}$  oder  $>10 \text{g/m}^2$   
Speed: up to 500 m/min  
Material: EPDM black 60 +/- 5 Shore,  
silicone grey 60 +/- 5 Shore (FDA compliant)

### Type ESR-BR (Basic Roller)

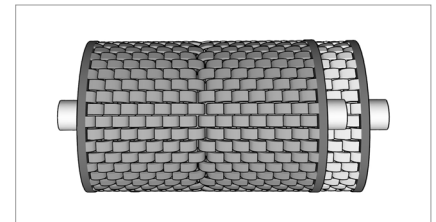
BR80/110, BR100/130, BR120/150



Outer diameter: 110, 130, 150 mm  
Layout spreading elements: linear  
Application: all webs  $>30 \mu\text{m}$  oder  $>45 \text{g/m}^2$   
Speed: up to 350 m/min  
Material: EPDM black 60 +/- 5 Shore

### Type ESR-FP (Fast Performance)

FP120/150, FP120/150-SI



Outer diameter: 150 mm  
Layout spreading elements: offset  
Application: all webs  $>4 \mu\text{m}$  oder  $>10 \text{g/m}^2$   
Speed: up to 800 m/min  
Material: EPDM black 60 +/- 5 Shore,  
silicone grey 60 +/- 5 Shore (FDA compliant)

## Advantages of the ESR Spreader Rollers



### Working principle

**2,000-2,600** 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  **$>4 \mu\text{m}$  and  $>10 \text{g/m}^2$** .



### 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

3 diameters: 110, 130, 150 mm  
2 materials: EPDM, silicone  
3 layouts: ESR-ST, ESR-BR, ESR-FP. Length according to individual requirements, max. 7000 mm



### Material properties

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



### Roller body

EconomicRoll® from DRECKSHAGE. Lightweight aluminium profile tube 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.



### Your contact partner:

August Dreckshage GmbH & Co. KG  
Sebastian Sewöster  
Tel. +49 521 9259 286  
Tel. +49 173 5439400  
dreckshage@spreading-technology.com

### Cooperation:

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