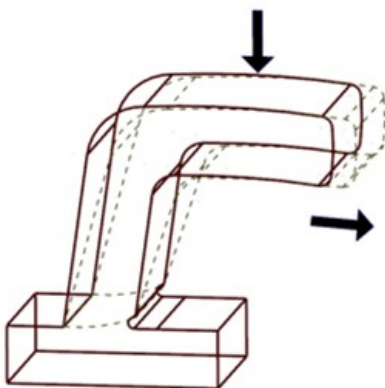




Web Tech is proud to be the North American distributor for Dreckshage's EcoStretch wrinkle removing roller



-A precision rubber ring consists of 20, 30 or 40 individual expansion elements, which work independently from one another.

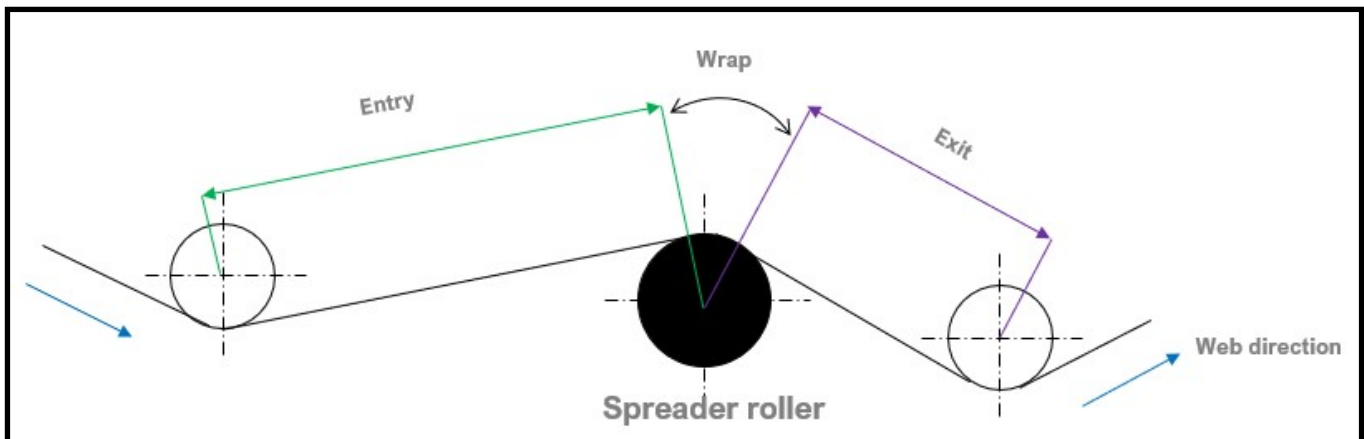
-Each individual expansion element creates an active spreading force of 20-30gr. This spreading force shifts the contact surface to the outside thus creating the spreading effect.

-Due to the very low weight of 0.5gr per single expansion element the amount of force needed to engage each element is minimal.

Example number of spreading elements:

WOB 80/110 x 800 mm = 54 expansion rings

=> 1200 completely independent spreading active spreading elements.



Description

Min distance

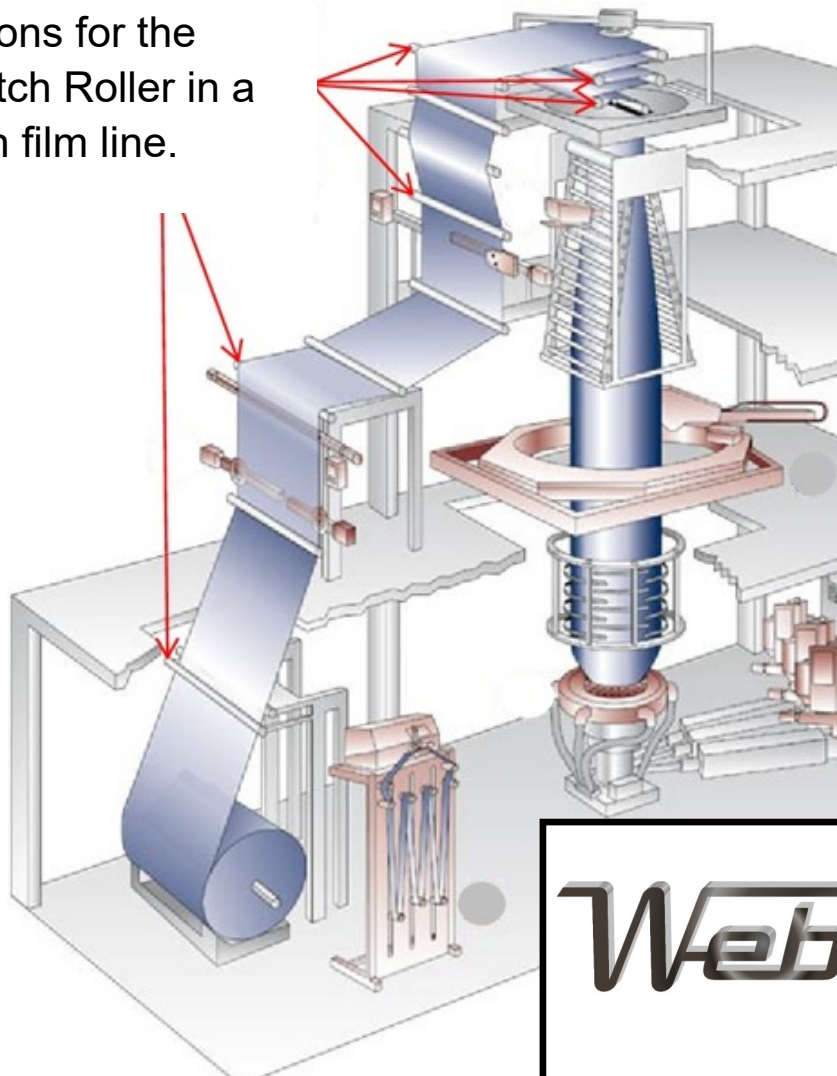
Max Distance

Entry to spreader roll 40-50% of web width 100% of web width

Wrap angle on spreader roll 10° 180°

Exit from spreader roll 10% of web width 150% of web width

Locations for the
EscoStretch Roller in a
blown film line.



Disadvantages of other spreading roll options

Bowed–Roller / Banana-Roller:

Expensive

May not spread over the whole length

Operator has to adjust it

May need to be driven

High tensions in the middle of the material

Rubber-Roller:

Expensive

May not spread over the whole length

Lifetime is limited (the rubber hardens)

Expander Roller:

Expensive

Operator has to adjust it

Needs to be driven

Brush Roller:

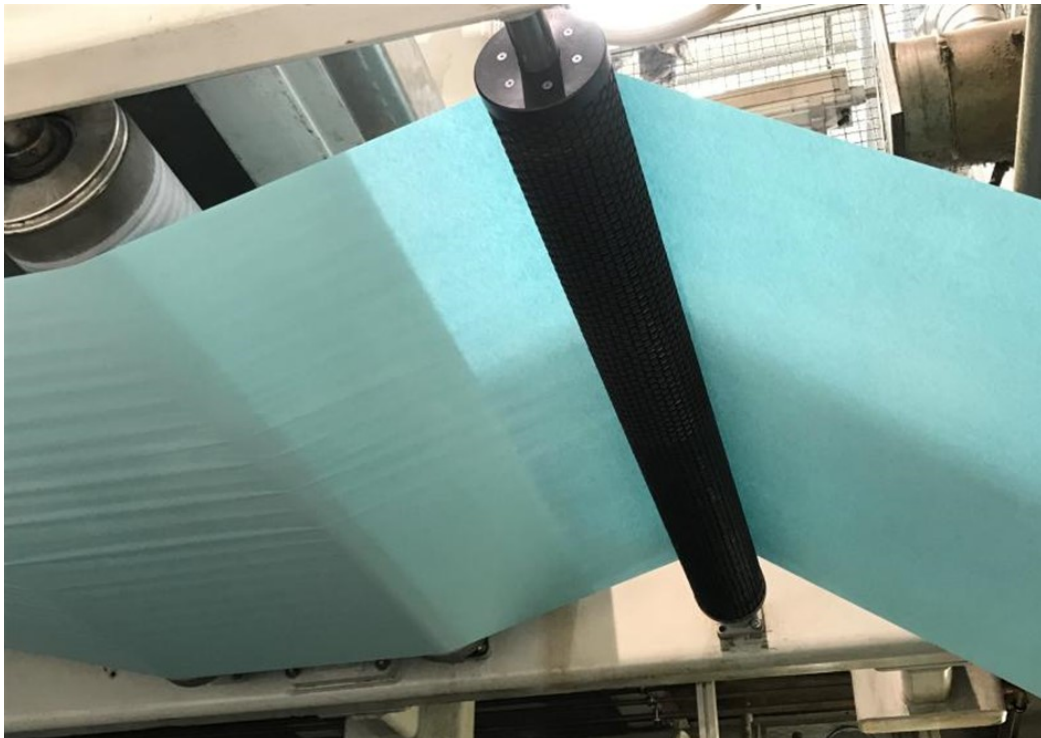
Middle Zone (dead zone where wrinkles aren't removed)

Brushes can produce marks on the material

Brushes can stick together because of film parafine

Brushes can stick into nonwovens and destroy it

Poor grip between films and brushes



ESR-ST (Sensitive Treatment)
spreads all webs $>4 \mu\text{m}$ or $>8\text{gr}/\text{m}^2$



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 110/130:
outer diameter: 130 mm
speed: up to 800 m/min



ESR-ST 120/150:
outer diameter: 150 mm
speed: up to 1000 m/min

Advantages of the ESR spreader rollers



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



Web tension
Between **10 und 750 N/mtr.** roll length.



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



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 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
TPE: wear-free, temperatur- and ozon-resistant and FDA-approval.



Roll body
Smooth-running roller from DRECKSHAGE. Lightweight aluminium roll tubes with special geometry for high bending stiffness. Fast response due to low start-up weights a 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.

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