



EvoStep™ – doffer and worker wires

A contribution to reducing raw material costs

What we offer

EvoStep™ is a new line of doffer and worker wires distinguished by a unique slanted step undercut on the tooth front. This step has a much more pronounced angle than the front angle of the wire itself.

Due to this evolutionary slanted step, fiber take-up and retention are up to 30 % higher than with conventional wires. The higher degree of fiber control significantly improves the fiber transfer from the main cylinder to the worker or doffer, avoiding unnecessary fiber recycling around the main drum. This helps prevent filling of the main cylinder, which otherwise could even lead to fiber melting. Flying fiber in the carding machine is also reduced significantly.

The combination of these qualities leads to a more uniform web quality, which in turn translates into the potential to reduce the fiber consumption.

Advantages:

- Improved fiber control
- More intensive carding
- Improved fiber transfer to the doffer wire
- More uniform fiber distribution
- Higher web quality
- Reduced maintenance effort and a faster and smooth restart

Improved fiber control reduces fiber waste

The nonwovens industry is faced with constant changes, necessitating more efficient manufacturing processes. Groz-Beckert is constantly expanding its portfolio of nonwoven wires in order to help you reduce your costs.

Groz-Beckert offers special wires especially dedicated to fiber control. While SiroLock™ wires help to increase speeds, EvoStep™ wires are predestined to reduce raw material consumption.

Thanks to the improved fiber control with EvoStep™ fibers are distributed more uniformly in the web and enabled to contribute more effectively to the properties of the nonwoven fabric properties. This allows the raw material input to be reduced to a minimum. Improved fiber control also makes it possible to use more cost-effective raw materials which could not be managed with conventional wires.

Groz-Beckert Patent

EP 2567010 B1, CN 102869821 B,
JP 6007172 B2, US 8745826 B2



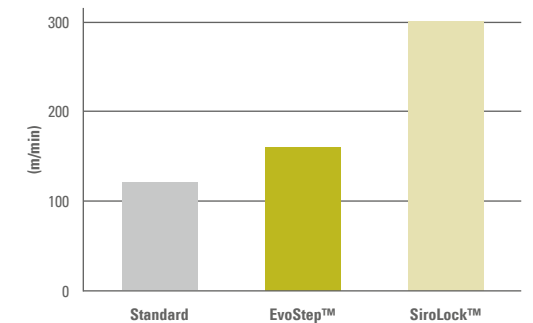
EvoStep™ with special tooth shape

GROZ-BECKERT

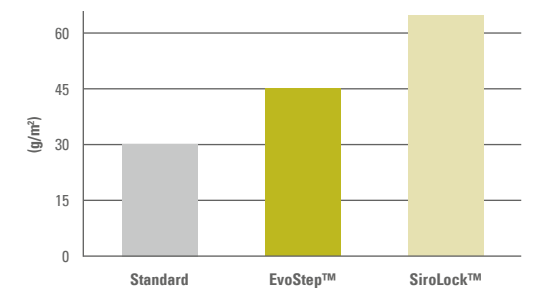
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Doffer speed

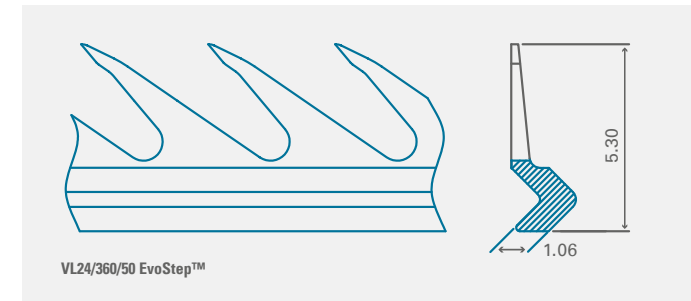
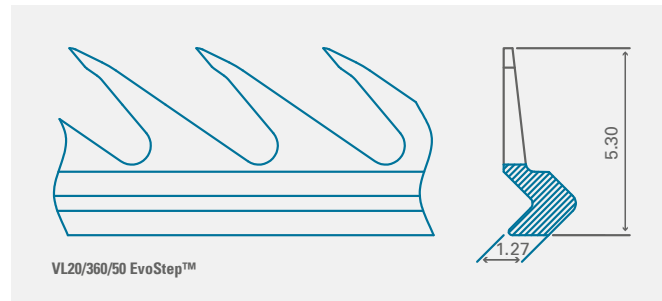
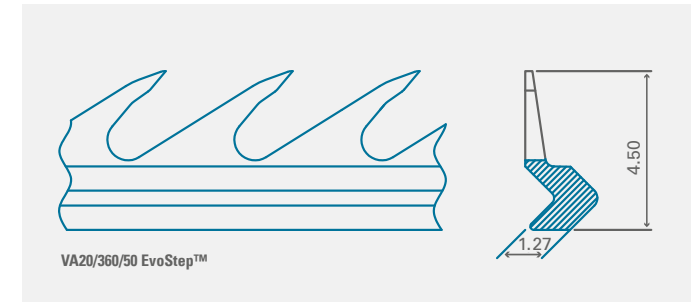


Doffer web weight



Product portfolio

| Name | Base width (mm) | Pitch (mm) | Tooth density (PPSI) |
|----------------------|-----------------|------------|----------------------|
| VA10/650/55 EvoStep™ | 2,54 | 6,50 | 39 |
| VA12/650/55 EvoStep™ | 2,12 | 6,50 | 47 |
| VH14/508/55 EvoStep™ | 1,81 | 5,08 | 70 |
| VH16/360/50 EvoStep™ | 1,59 | 3,60 | 113 |
| VA20/360/50 EvoStep™ | 1,27 | 3,60 | 141 |
| VL20/360/50 EvoStep™ | 1,27 | 3,60 | 141 |
| VL24/265/50 EvoStep™ | 1,06 | 2,65 | 230 |
| VL24/360/50 EvoStep™ | 1,06 | 3,60 | 169 |
| VF28/250/50 EvoStep™ | 0,91 | 2,50 | 284 |
| VF28/250/65 EvoStep™ | 0,91 | 2,50 | 284 |
| VF28/360/50 EvoStep™ | 0,91 | 3,60 | 197 |
| P080/250/50 EvoStep™ | 0,80 | 2,50 | 323 |



Applications

EvoStep™ wires support carding processes in indirect nonwovens lines with crosslappers, in which needling is often used for bonding:

- Needle punched floor covering
- Automotive products
- Geotextiles
- Quilts
- Filter media
- Cleaning cloths

