



## EvoStep® – doffer wires and worker wires

A contribution to reducing raw material costs

### What we offer

EvoStep® is a new line of doffer wires 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.

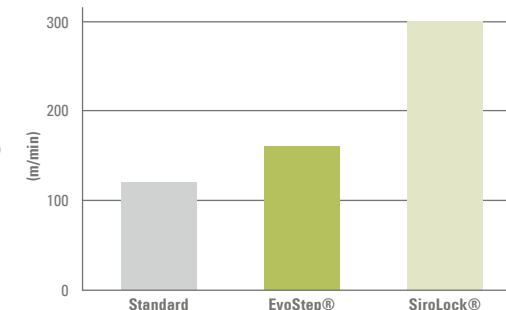
Thanks to the improved fiber control with EvoStep® fibers are distributed more uniformly in the web and enabled to contribute more effectively to the properties of the nonwoven fabric properties. This allows the raw material input to be reduced to a minimum. Improved fiber control also makes it possible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

# GROZ-BECKERT®

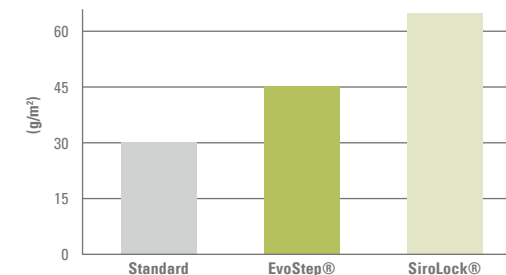
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### Doffer speed



### Doffer web weight



EvoStep® with special tooth shape

**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

