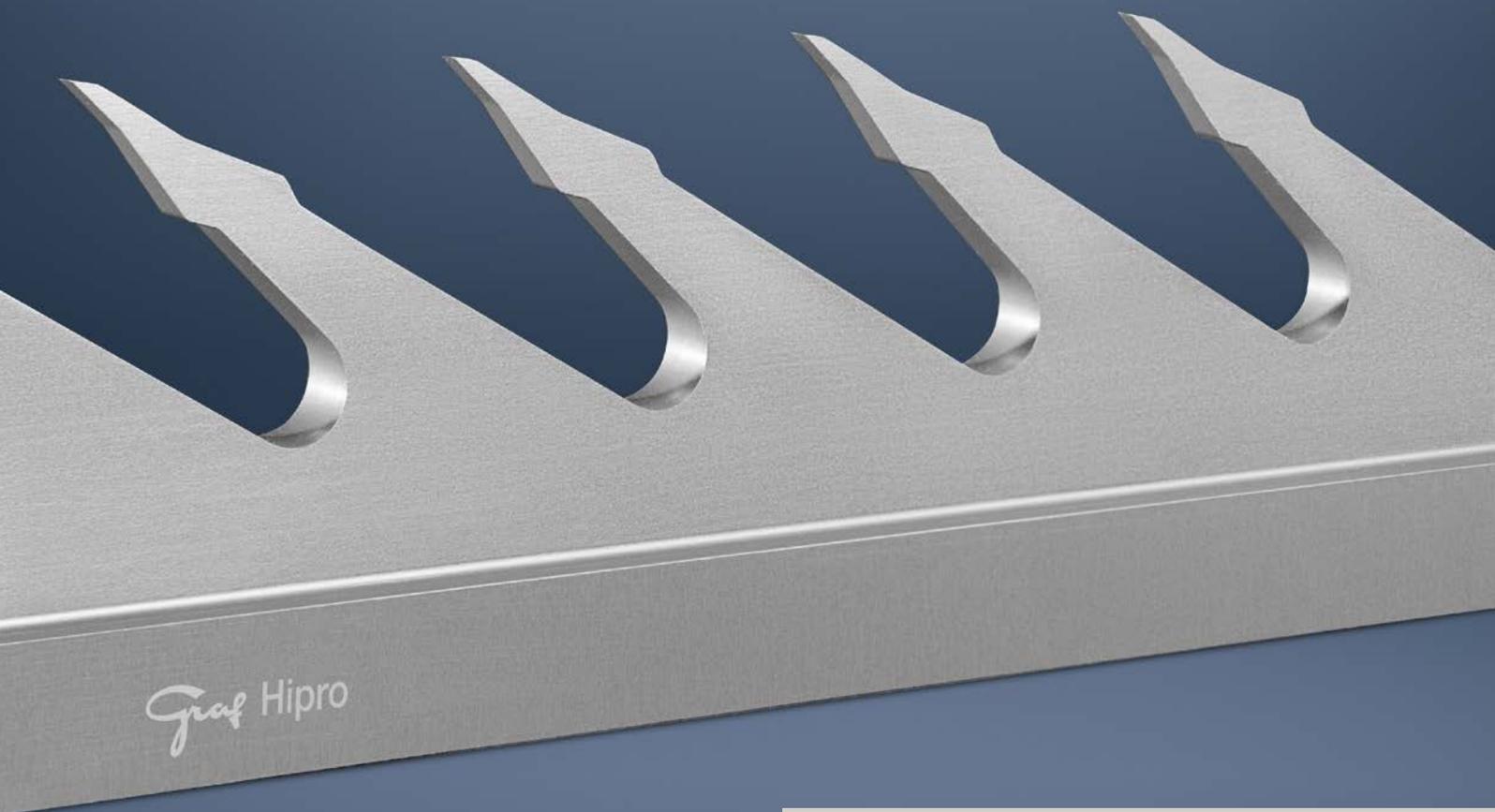


Nonwoven  
Hipro



# Hipro Metallic Card Clothing for Roller Cards



Maximized throughput and unique web  
uniformity in any nonwoven application

# Differentiation Thanks to the Market Leader's Expertise

**Nonwoven producers using Graf's card clothing benefit from more than 100 years of experience and the resulting innovative power. We understand our business partners' needs in the daily challenges they face, and they motivate us to offer solutions that make them successful.**

One of the main requirements of nonwoven producers is to achieve consistent quality and the highest machine uptime. In a constant effort to achieve higher throughput, metallic card clothing must be ideally matched to the specifications.

Nonwoven manufacturers using Graf technology components benefit from card clothing that produce webs of equal quality without compromising throughput and process stability for a wide range of raw materials. When clothing and machine conditions are optimized to the raw materials and output, configurations can be ensured for any application regardless of fiber type, web weight and end product.

The comprehensive product range consisting of technology components for nonwoven, as well as a network of technical consultants and service engineers enable our partners to be successful.

## Benefits of Hipro

- Up to 10% higher throughput compared to conventional clothing thanks to optimized web transfer from the cylinder to the doffer
- Ensures increased efficiency of the worker by reducing the fiber fly
- Significant 20% fewer failures in the web thanks to precise fiber transfer to and from the cylinder
- Constantly high process stability provides reproducible web quality throughout the entire lifetime of the clothing



No Limits in Processing Fibers

# Applications and Specifications at a Glance

Thanks to innovative geometry, excellent material and first-class processing, Hipro metallic card clothing ensure top performance and precision. They can be used on high-performance roller card systems as well as on conventional machines.

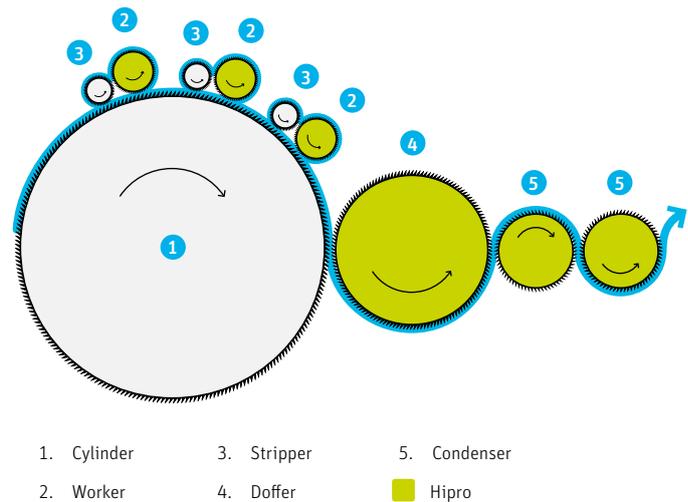
## The Secret of Hipro

Significantly increased fiber retention thanks to specially designed hump at the front side of the teeth.

## Range of Applications

End products for segments such as hygiene, medical, automotive, filtration, floor coverings, etc. Both high-performance and conventional cards can be preferably equipped with the Hipro card clothing.

Hipro guarantees no limits in fiber types and web weights (except brittle fibers).



Hipro metallic card clothing. Innovative tooth design for efficient processes on roller cards.

Hipro can be used on the following rollers: worker, doffer and condenser. These excellent, robust clothing are available with standard profile and as interlinked clothing.

Overview of the most popular Hipro metallic card clothing				
Main use	Geometry	Points per square inch (PPSI)	Type	
<b>Worker</b> The aggressive tooth shape provides the best carding effects between cylinder and worker.		95	V F 50 +45 16 HT BLD	
		129	V H 50 +45 16 HT BLD	
		258	K 50 +45 1 X1,0 GT BLH	
		338	M 40 +40 5 X0,9 GT BLD	
<b>Doffer</b> The arched tooth shape allows the smoothest fiber placement along the doffer teeth.		215	V K 50 +45 20 HT	
		258	K 50 +45 X1,0 GT BLD	
		286	K 40 +45 3 X0,9 GT BLH	
		338	M 40 +45 X0,9 GT BLD	
<b>Condenser</b> Additional humps provide extra compression to optimize the web weight increase.		147	H 50 +45 2 X1,4 HT BLD	
		147	H 50 +45 3 X1,4 HT BLD	
		172	H 50 +45 2 X1,2 HT BLD	
		172	H 50 +45 3 X1,2 HT BLD	



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