



Make the Difference



Hipro Metallic Card Clothings for Roller Cards

Maximized throughput and unique web uniformity
in any nonwoven application





Differentiation Thanks to the Market Leader's Competencies



An exemplary assortment of end products

Nonwoven producers using Graf's card clothings 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 a nonwoven manufacturer is to achieve consistent quality and the highest machine uptime. In a constant effort to achieve higher throughput, metallic card clothings must be ideally matched.

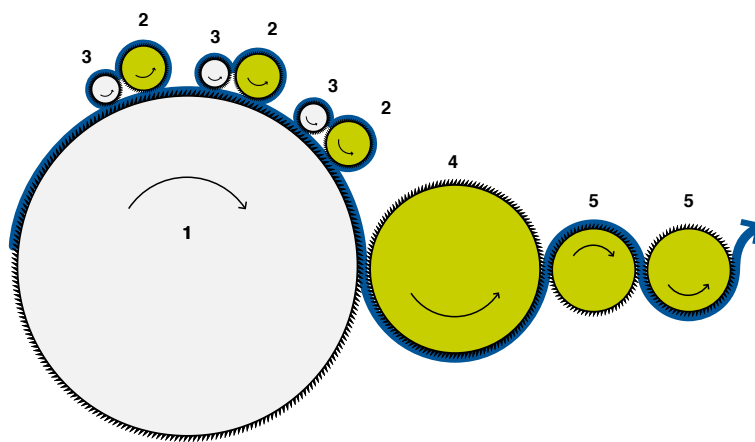
Nonwoven producers using Graf technology components benefit from card clothings that produce webs of equal quality for a wide range of raw materials without compromising on throughput and process stability. Optimized configurations can be guaranteed for any application regardless of fiber type, web weight and end product.

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

Benefits of Hipro

- 10% to 15% higher throughput compared to conventional clothings thanks to optimized web transfer from the cylinder to the doffer
- Up to 10% maximized machine uptime by reducing fiber fly on the workers
- A 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

Applications and Specifications at a Glance



- 1 Cylinder
- 2 Worker
- 3 Stripper
- 4 Doffer
- 5 Condenser
- Hipro

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 clothings.

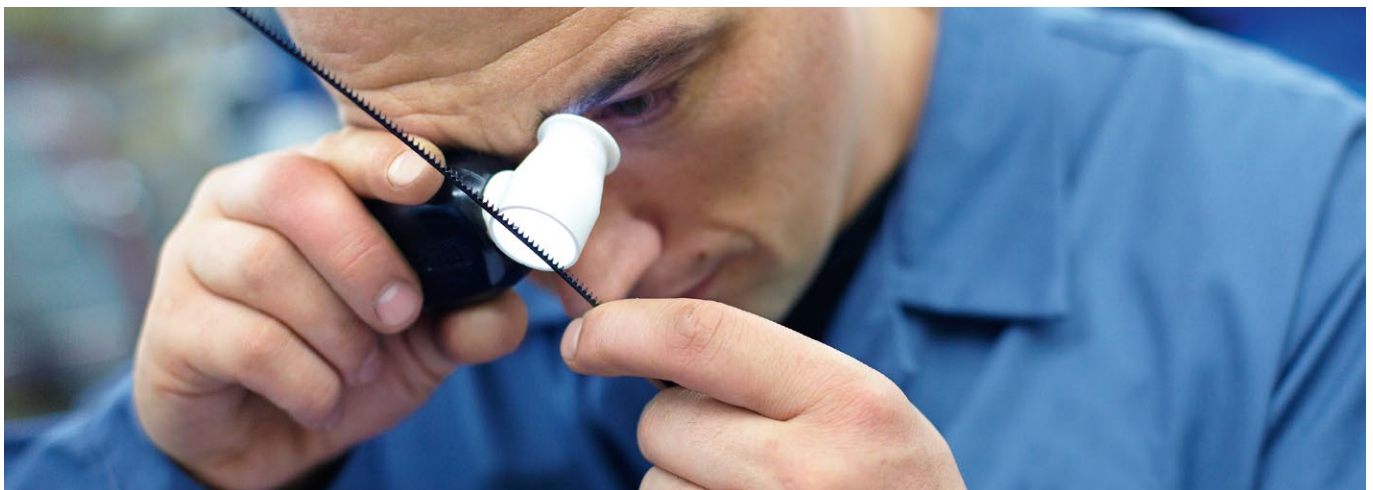
Hipro guarantees no limits in fiber types and web weights (except brittle fibers).

Main Use	Geometry	Points Per Square Inch (PPSI)	Type
Worker The aggressive tooth shape provides the best carding effects between cylinder and worker.		95	MCC V F 5045 16 G6
		147	MCC H 5045 SPE X1,4 G6
		206	MCC H 5045 SPE X1,0 G3
		258	MCC K 5045 X1,0 G3
Doffer The arched tooth shape allows the smoothest fiber placement along the doffer teeth.		258	MCC K 4045 X1,0 G3
		286	MCC K 4045 SPE X0,9 G3
		338	MCC M 4045 X0,9 G3
Condenser Additional humps improve the fibers' compression to optimize their orientation on the web.		147	MCC H 5045 SPE X1,4 G6
		258	MCC K 5045 SPE X1,0 G3
		338	MCC V M 4040 SPE 28 G3

Available surface treatments: Smooth finish, Blank hardened, Polidur



Partnership Built on Best Value for Money



Ensured Success

Hipro metallic card clothings applied on designated rollers will not only result in a production increase of 10% to 15%, but will also achieve up to 20% fewer failures in the web.

Graf + Cie AG

Bildastrasse 6
8640 Rapperswil
Switzerland
Phone +41 55 221 71 11
Fax +41 55 221 72 33
info@graf-companies.com

Graf Metallic of America, LLC

104 Belton Drive
Spartanburg, SC 29301
USA
Phone +1 864 576 7450
info.us@graf-companies.com

Graf Holland B.V.

Lonnekerbrugstraat 130
PO Box 2201
7500 CE Enschede
Netherlands
Phone +31 53 488 95 88
info.nl@graf-companies.com

Gomitex S.A.

Zoning Industriel, Haut de Trême
4801 Stembert (Verviers)
Belgium
Phone +32 873 15540
info.be@graf-companies.com

Graf Cardservice Far East Ltd.

20/FI. Pearl Oriental House
60 Stanley Street, Central
Hong Kong
Phone +852 2810 09 55 / 56
info.hk@graf-companies.com

European Excellent Textile Components Co., Ltd.

No. 21 Fukang Road, Xinbei District
213022, Changzhou
Jiangsu, China
Phone +86 519 85178798
info@ptc-changzhou.com

Graf Máquinas Têxteis Ind. e Com. Ltda.

Alameda Rio Preto, no. 165
Centro Empresarial Tambore
06460-050 Barueri-SP
Brazil
Phone +55 11 4166 4977
info.br@graf-companies.com

www.graf-companies.com