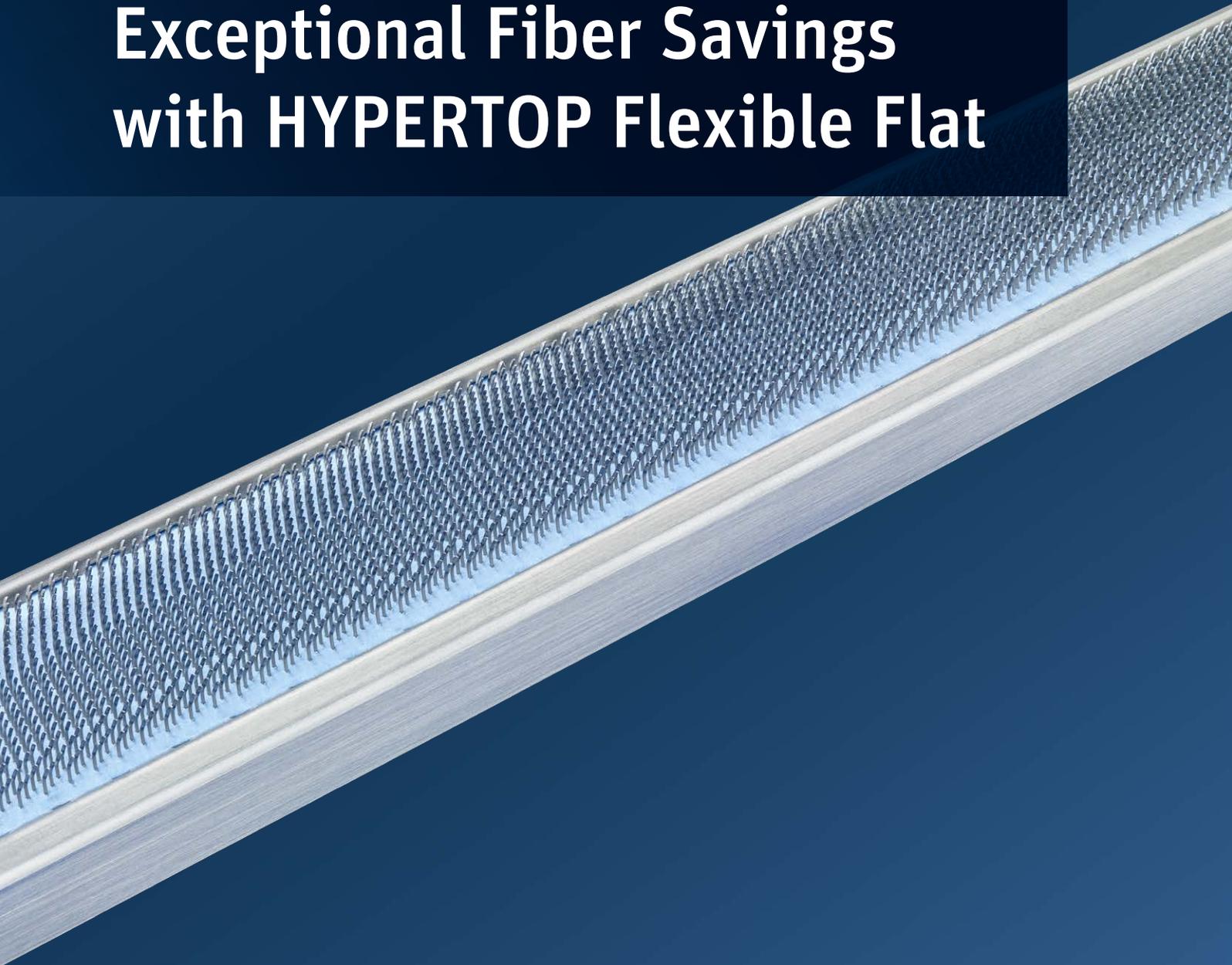




Exceptional Fiber Savings with HYPERTOP Flexible Flat



Two Real-Life Cases Prove the Impact of HYPERTOP

With its patented multi-zone setting pattern and optimized tooth geometry, HYPERTOP offers unparalleled good fiber savings of up to +0.5% while ensuring constant and optimal yarn IPI values.

Gülle Entegre Tekstil (Türkiye)



The Customer's Statement

“The implementation of HYPERTOP flexible flats has transformed our production process. We have achieved unparalleled good fiber savings while maintaining optimal, consistent yarn IPI quality, and increasing efficiency. HYPERTOP has been a game changer for our production goals.”



Timur Atik
Mill Manager

PeeVee Textiles (India)



The Customer's Statement

“The implementation of HYPERTOP has delivered a meaningful optimisation in our production. Fiber yield has significantly improved, and yarn quality remains consistently high. This solution aligns perfectly with our goals for efficiency, quality, and sustainability. Graf's support throughout the integration process has been excellent.”



Ashok Akade
Vice President (Technical)
Pankaj Mahajan
General Manager Maintenance

Five Key Benefits with HYPERTOP and Rieter Carding Technology – Proven by Glle and PVTL

Both Glle and PVTL have achieved remarkable improvements by implementing HYPERTOP flexible flats on Rieter carding machines.

Their experiences highlight five key benefits:

1. Increased fiber yield

By using the HYPERTOP flexible flat, both companies achieved up to +0.5% good fiber savings. This results in higher usable output per kilogram of raw material, boosting both profitability and resource efficiency.

2. Consistent yarn quality

Despite the increase in fiber retention, yarn quality remained consistently high. Both Glle and PVTL continue to meet the demanding standards of global customers, with stable imperfection values across a wide range of yarn counts.

3. Sustainability gains

Minimizing fiber waste and optimizing resource use directly support their environmental goals. The decision to implement HYPERTOP reflects a shared commitment to sustainable production and the responsible use of resources.

4. Fast payback and long-term return

The benefits of improved fiber yield and reduced waste are evident from the start. Both companies are already seeing strong returns on investment, with ongoing cost savings and efficiency gains ensuring long-term value.

5. Full machine compatibility

HYPERTOP is compatible with all major carding systems, giving Glle and PVTL full flexibility across different machine types and generations. This compatibility enables optimization without technological restrictions – a clear advantage for diverse and large-scale operations.

What Makes HYPERTOP Special?

What makes HYPERTOP unique? With its patented multi-zone setting pattern and optimized tooth geometry, HYPERTOP offers unparalleled good fiber savings of up to 0.5% while ensuring constant and optimal yarn IPI values.

Three zones, one goal: top quality with maximum efficiency

Zone 1 – Fiber Entry (red zone):

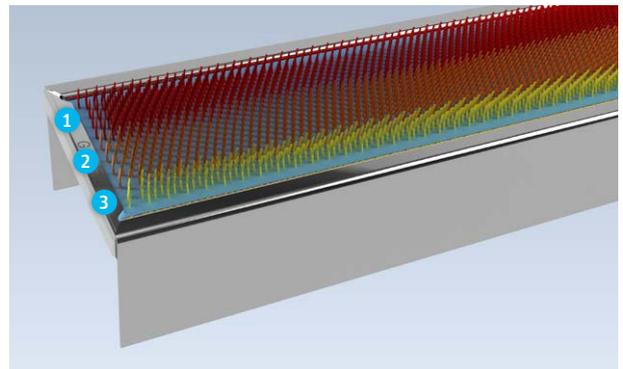
Efficient fiber capture and improved fiber dispersion.

Zone 2 – Trash Zone (orange zone):

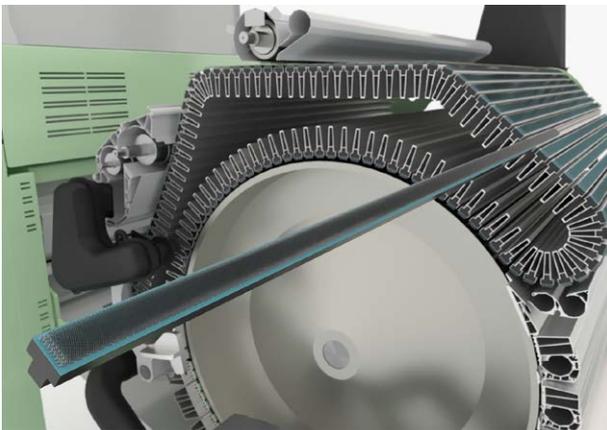
Clean impurity separation, better fiber parallelization and nep removal.

Zone 3 – Quality Zone (yellow zone):

Precise fiber control at the carding gap, improved short fiber, trash and dust removal.



Areas of Application



Where precision matters – HYPERTOP is integrated



HYPERTOP

Exceptional Fiber Savings with HYPERTOP Flexible Flat

Scan the QR code for more information

<https://qrco.de/bgWn83>

(Animation)

Raw material saving ► up to + 0.5% good fiber yield



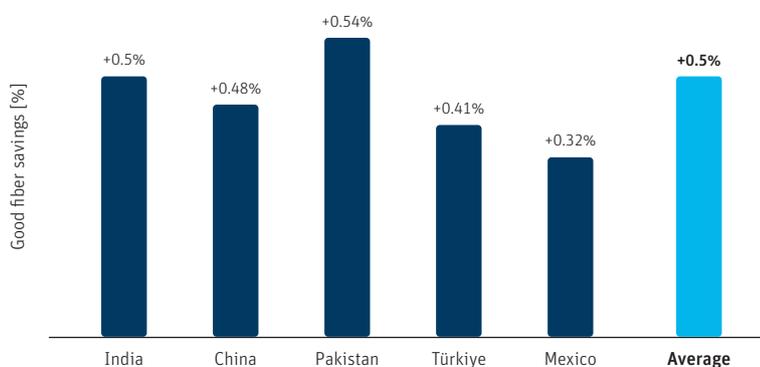
Benefits at a glance

					
Multi-zone setting pattern	Maximum PPSI for every application	High precision	Optimized flat height	Improved tooth shape	Strong wire

Benefits at a glance and benchmark studies

<p>Benchmarking Study</p> <ul style="list-style-type: none"> • 22 trials in 11 spinning mills • Across 5 countries • Materials: Cotton & cotton blends (Ne 24 – 70) • Machines: Rieter, Truetzschler, Jingwei, Lakshmi 	<p>Results</p> <ul style="list-style-type: none"> • +0.5% good fiber savings (vs. resist-O-top C-55) • Good fiber savings while remaining consistently high yarn quality. 	<p>ROI Example</p> <ul style="list-style-type: none"> • 75 kg/h card throughput • 300 days/year, 20 h/day • → +2 025 kg more yarn per card per year • At 2.50 USD/kg yarn price → +5 063 USD profit per year
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Higher Yield, Benchmark-Proven Performance
+0.5% good fiber savings



+ 5 000 US \$ per year!
+ 2.0 tons of yarn per card!

Independent benchmarking confirms: Graf HYPERTOP C-60 delivers significantly higher fiber yield compared to resist-O-top C-55 – without compromising yarn quality.

Source: Waste study, gravimetric – UNICOLLECT

FAQ – HYPERTOP Flexible Flat

What does HYPERTOP mean?

Higher Yield Pays Extra Returns Through Optimized Pattern

What are the main benefits of HYPERTOP?

Increased fiber yield, consistent yarn quality, sustainability gains, fast payback with long-term ROI

How does the optimized pattern work?

It ensures efficient fiber entry, clean separation of short fiber, trash & impurities, and precise fiber control at the carding gap.

Which machines are compatible with HYPERTOP?

HYPERTOP is compatible with all major carding systems, regardless of type or generation.

How much fiber savings can be achieved in practice?

Up to +0.5% good fiber savings, resulting in higher usable output and lower raw material costs.

Does HYPERTOP affect yarn quality?

No. Yarn quality remains consistently high with stable imperfection values across various yarn counts.

How does HYPERTOP support sustainability?

By reducing trash, improving resource efficiency, and lowering energy consumption, it supports responsible production practices.

What is the pay-back period for HYPERTOP?

Savings start immediately. In typical mill conditions, the investment is paid back within one year.

What input is required regarding the raw materials, the application range, and the target users?

Raw materials include cotton and blends. The application range covers yarn counts from Ne 24 to 70. Target users are spinners processing coarse to medium/fine cotton and cotton-blend materials.

Technical Specifications & Application Areas

Flexible Flat Clothing HYPERTOP

HYPERTOP is a flexible flat clothing used for the processing of cotton/blends short staple fibers.

These flexible flats feature a multi-zone setting pattern that provides more refined fiber control and precise fiber alignment during the carding operation. HYPERTOP enables better retention of usable fibers, reduces waste, and stabilises output quality.

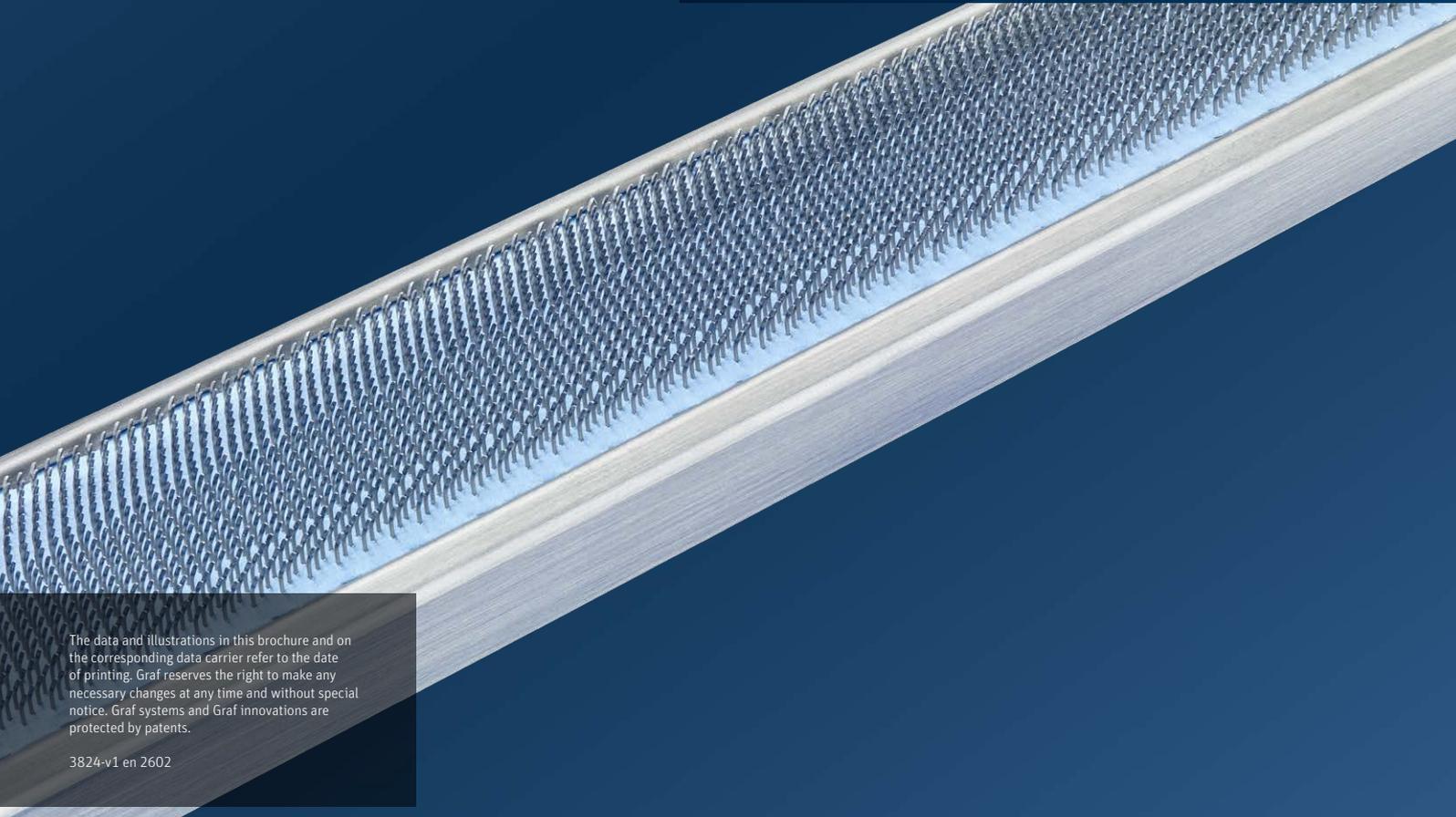
HYPERTOP types are available in clipped and in EasyTop version.

HYPT C-60

600 p.p.s.i.
Raw material: cotton/blends
Application: carded, combed
Ne 24 – Ne 70

Cotton

	Air-jet	OE/Rotor	Carded ring yarn	Combed ring yarn
< Ne 15	RSTO C-48	RSTO C-48	RSTO C-48	
≤ Ne 40	RSTO C-48 RSTO C-55	RSTO C-48 RSTO C-55	RSTO C-48 RSTO C-55 HYPT C-60	
> Ne 40				RSTO C-55 RSTO C-60 HYPT C-60
> Ne 70				RSTO C-74



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