siegling extremultus flat belts

Grip Star™ Flat belts that hold on tight





Siegling - total belting solutions

Symmetrical layer structure up to 6 mm thick for long service lives

Innovative Medium Grip coating on both sides with tried-and-tested patterns

MEDIUM GRIP

Patterned polyurethane coating or fabric on the underside

Innovative High Grip coating on one side with tried-and-tested patterns on the top face

HIGH GRIP

Tension member made of polyester fabric or elastic polyurethane Tension member made of polyester fabric or highly oriented polyamide sheet

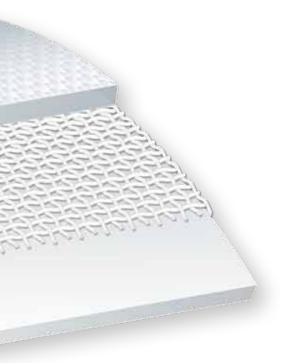
Grip Star™ – Flat belts that hold on tight

Grip Star[™] flat belts are gentle with products, but still convey reliably. They take hold of and release products at precisely the right times. Grip Star[™] flat belts can process paper, boxes, corrugated cardboard and tissue-based products dependably and efficiently.

Grip Star[™] leaves no marks and has all the benefits of rubber. However, it doesn't include the typical disadvantages of rubber such as brittleness and cross-cracking. Due to its excellent characteristics and good value, Grip Star[™] is the better alternative to rubber. This is particularly the case when good grip, precise positioning, high levels of acceleration and high-performance braking are required.

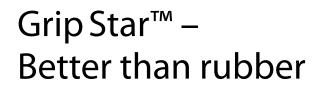
Customised grip

Grip Star[™] is produced in High Grip or Medium Grip versions in different thickness and with specific surface patterns. As folder gluer belts, drag belts, live roller belts and machine tapes, the range's belts fulfil exacting demands and offer a wide range of uses. The majority of the Grip Star[™] belts comply with the (EC) regulations 1935/2004, (EU) 10/2011, as well as the FDA's 21 CFR for conveying unpackaged foodstuff.



The properties	The advantages
age-resistant coating with virtually constant grip	application-driven grip over the entire service life
available in Medium Grip or High Grip	a wide range of applications
coating in neutral grey	non-marking
EU- and FDA-compliant	ideal for hygiene-critical areas
mechanically durable, highly abrasion resistant, edges on P types are especially strong	long service life
maintains tension	no retensioning necessary





The right grip for any job

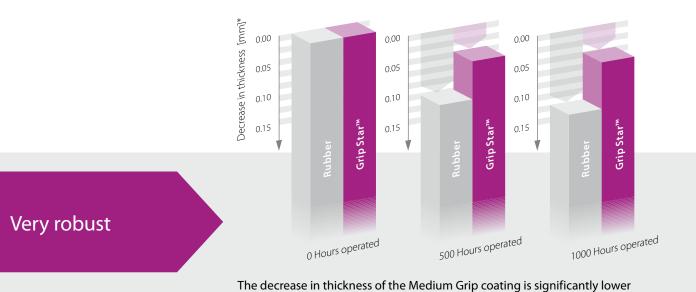
Friction

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High Grip

Medium Grip

Rubber



* Established in standardised testing conditions.

Long service lives, no cross tears

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A new Grip Star[™] belt

than that of rubber.

The pattern on the Medium Grip coating doesn't wear off and the surface characteristics virtually don't change. In contrast to rubber, the surface doesn't tear.

Grip Star[™] after running 1000 hours**



Rubber after running 1000 hours**

** Established under standardised testing conditions.

Perfect splicing

Sophisticated Forbo tools and processes ensure Grip Star[™] belts are given perfect splices:

- fast and reliable splicing
- short dwell times due to appropriate pressure applied
- almost invisible splices without any faults

Grip Star[™] – Typical applications

Printing industry

- in compensating stackers and bundlers
- in feeding and discharging
- in foil sealing

Postal/letter sorting

- as reversing belts
- as carrier belts

Offices

- in franking machines

Paper processing

- in enveloping machines
- in tissue processing
- in packaging machinery
- in winding cardboard tubes

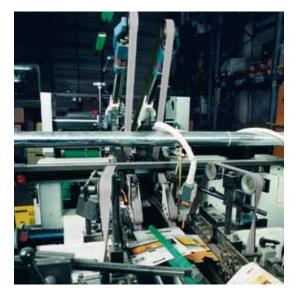
Industrial production

- in the solar industry for wafer conveying

Almost all Grip Star[™] Medium Grip products are EU- and FDA-compliant. They can be used during the manufacture of packaging and in the process of packaging foodstuffs.









The Grip Star™ range			Total thickness approx. [mm]	d _{min} [mm]*	specific shaft load ** [N/mm belt width]	Elongation at fitting [% of belt length]	Weight approx. [kg/m²]		Special characteristics and applications					
		Article number						Permissible operating temperature Td [°C] (constant temperature)	EU-/FDA-compliant	Folder gluer belts	Machine tapes	Drag belts	Live roller belts	
	E line (with polyester tension member)													
	RR 4E-HC+ FSTR/FSTR grey	822151	1.35	14 ¹⁾	4	0.3–2.0	1.40	-20/+70		•	•			
	RR 4E-HC+ NSTR/NSTR grey	822154	1.35	14 ¹⁾	4	0.3-2.0	1.40	-20/+70		•				
	RR 20E-20 grey FDA	822157	2.0	24	23	0.3-2.0	2.10	-20/+70		•	•			
٩	RR 20E-30 grey FDA	822137	3.0	30	23	0.3-2.0	3.40	-20/+70	•	ě			•	
5	RR 20E-40 grey FDA	822149	4.0	40	23	0.3-2.0	4.30	-20/+70		•			-	
Ę	RR 20E-50 grey FDA	822152	5.0	50	23	0.5-2.0	5.55	-20/+70	•	•				
<u></u>	RR 20E-60 grey FDA	822155	6.0	60	23	0.5-2.0	6.65	-20/+70		•				
Me	P line (with polyamide tension member)									-				
	RR 10P-30 grey FDA	855638	3.0	30	10	1.5-3.0	3.30	-20/+80						
	RR 10P-40 grey FDA	855639	4.0	40	10	1.5-3.0	4.30	-20/+80						
	RR 14P-50 grey FDA	855640	5.0	50	14	1.5-3.0	5.80	-20/+80	•	•				
	RR 14P-60 grey FDA	855641	6.0	60	14	1.5-3.0	6.80	-20/+80						
	E line (with polyester tension member)													
٩	TR 10E black/grey	822120	1.45	20	10	0.3–2.0	1.40	-20/+70		•	•		•	
Ę	UR 8E-HC+ FSTR/FSTR green/grey	822132	1.50	14	8	0.3–2.0	1.60	-20/+70			•	•		
Ę														
Ē	Elastic line (with urethane tension member)													
	UR 20U GSTR/FSTR black/blue	855624	1.50	10	0.4	0.5–8.0	1.60	-20/+60			•			
	UR 40U-HC+ GSTR/NSTR black/grey	855636	1.45	14	0.8	0.5–8.0	1.45	-20/+60						

Please note: the values stated are nominal and can fluctuate in a belt whose width is a result of production processes. Our products are constantly adapted to market requirements. Consequently, changes in technical parameters can occasionally occur. Therefore, please see the current product data sheets for specific information on designs and calculations.

Type code

Medium Grip

High Grip

4E - HC+ NSTR/NSTR grey RR RR 14P - 50 FDA grey **UR 20U** GSTR/FSTR black/blue Colour(s) (top face/underside) Pattern (top face/underside) Total thickness [1/10 mm] or electrostatic property Material of tension member Type number Special properties Top face Underside

Legend

The values stated were identified in standard ambient conditions (23 °C, 50 % rel. humidity)

- Lower temperatures require larger diameters. This also applies to the P line when humidity is particularly low
- ** $F_W^{\,\prime} value:$ states the specific shaft load at 1% elongation at fitting and a 180° arc of contact in N/mm belt width
- 1) 10 mm to 2.8 m/s max

Е = Polyester

Ρ

т

- = Polyamide
- R = High or Medium Grip
- = Blended or polyamide fabric υ
 - = Polyurethane
- **FDA** = FDA-compliant **HC+** = Highly conductive plus
- **GSTR** = Coarse pattern
- $\textbf{FSTR} = \ \text{Fine pattern}$
- NSTR = Normal pattern



Committed staff, quality-orientated organisation and production processes ensure the constantly high standards of our products and services. The Forbo Siegling Quality Management System is certified in accordance with ISO 9001.

In addition to product quality, environmental protection is an important corporate goal. Early on we also introduced an environmental management system, certified in accordance with ISO 14001.





Forbo Siegling service – anytime, anywhere

The Forbo Siegling Group employs more than 2,000 people. Our products are manufactured in nine production facilities across the world. You can find companies and agencies with warehouses and workshops in over 80 countries. Forbo Siegling service points are located in more than 300 places worldwide.



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