



Siegling – total belting solutions

## Machine tapes for the paper industry and letter sorting





The amount of paper types used nowadays seems endless: from packaging paper, cardboard, tissue, writing and printer paper to paper types for newspaper printing, offset, SC, LWC, ULWC, HWC and art paper as well as siliconised paper, NCR and thermosensitive paper types.

It is this variety, both in paper processing and letter sorting, this variety places high demands on the belts used, both in paper production and letter sorting. For this reason we have been a development partner and supplier to original equipment manufacturers and users for decades. This expertise has produced our comprehensive range of Siegling Extremultus machine tapes for all applications and the processing of each type of paper in these sectors.





Siegling Linpack folder and carrier belts (with natural rubber Linatex coated power transmission belts) are used in the paper industry and letter sorting and elsewhere as pick-off belts.

Siegling Linpack power transmission belts are highly specialised products, which is why they are shown separately in another of our brochures (ref. no. 244). Further Forbo Siegling products relevant to the paper industry can be found in the following brochures:

No. Title

- 224 Siegling Transilon conveyor and processing belts225 Siegling Extremultus
- flat belts Power transmission belts 244 Siegling Linpack folder and carrier belts
- 271 Paper & Print Machine tapes for the printing industry
- 279 Siegling Belting tools
- 284 Paper & Print Folder and carrier belts

The advantages

Siegling Extremultus machine tapes excel because of their friction coefficients adapted to particular functions, top coatings kind to paper, good release and grip characteristics and long service lives.

The types in the Siegling Extremultus E+A series are the outcome of our research and development work. Their aramide or polyester tension member means they have little elongation at fitting, high flexibility and are not sensitive to fluctuations in ambient conditions.

The splicing method (Z-splice) for these types does not require any additional materials and has the necessary flexibility and durability required for small corner radii. Easy to handle Z-punch presses and heating clamps make simple fitting directly on the machine possible, reducing the down times.

Thanks to these advantages maximum quality and productivity potential from paper processing and letter sorting machinery can be achieved even more easily.

### The properties

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largely unaffected by fluctua- tions in ambient conditions	maintenance free, no re-tensioning, very reliable
simple and precise Z-splice, homogeneous welding	shorter fitting times, no adhesive
high elastic modulus	shorter take-up ranges
low elongation at fitting	low shaft load
very flexible	small drum diameters low power consumption
constant drag with high wear-resistance	reliable function, low operating costs

All types are easy to clean and largely resistant to oils, greases and many solvents.



## Comparison of the series





A clear advantage of the series is the low elongation at fitting.

With its new machine tape range Forbo Siegling provides solutions for the special requirements of the various manufacturing processes and all sorts of further processing and conveying.





#### Cross cutters

The most varied types of paper and cardboard have to be precisely conveyed in the cross cutter at very high speeds without leaving any marks through each production stage.

Apart from the machine tapes for the P series the E series types are perfect for this type of demanding usage.

Even at fluctuations in ambient conditions and after long operational periods no re-tensioning is required, they are suitable for small roller diameters, laterally stiff and have strong edges. Their relatively low elongation at fitting means that the shaft load is minimised.

Long service life and quick Z-splicing without additional materials minimise fitting and the resulting down times.

#### Letter sorting machinery

In letter sorters, abrasive types of paper and letters with fragile contents are commonplace.

Flexible machine tapes can deal with these sorts of applications very easily.

The elastic types in the Elastic series are used mainly for very small deflections without take-up systems.

In other applications the E series types get to grips with conveying materials smoothly even under extreme conditions. Both series have long service lives.

The quick Z-splice without additional substances and excellent lead times guarantee low fitting times. Down times are reduced to a minimum.



# Extract from the product range

#### Supplied as

- Roll material for individual fabrication.
- Endless power transmission and conveyor belts <sup>3)</sup>
- Prepared power transmission and conveyor belts for heated splicing on site <sup>3)</sup>
- Special designs with perforations on request.

#### Chemical resistance

Siegling Extremultus has a permanently antistatic finish, is almost maintenance free and chemically resistant to: Wet conditions, moisture, spirits, household cleaners and solvents normally used in the paper and printing industry; resistant to some extent to alcohols. Permanent contact with acetone, solvents, chlorinated hydrocarbons and concentrated acids should be avoided.

Further information about chemical resistance available on request.



Tension member Type class Top face Friction coating

<b>Technical data</b> Type designation	Article no.	Total thickness [mm]*	d <sub>min</sub> approx. [mm]**	Fw-value approx. [N/mm] width***	Weight approx. [kg/m²]			
E series (Machine tapes with polye	ster tension i	member)						
GG 5E grey	822115	1.4	14 (10)	5	1.4			
GG 8E green	822062	1.5	14	8	1.6			
TG 6E grey	822109	1.0	14	6	1.15			
TG 10E black/green	822081	1.3	20	10	1.4			
TR 10E black/grey	822120	1.45	20	10	1.4			
TT 6E black/grey	822103	1.0	14	6	1.0			
TT 10E-HC black	822096	1.0 1.9	24 24	10 6	1.0			
UN 6E green/grey <sup>1)</sup> UP 6E GSTR/GL black/transp.	822091 822134	1.9	30 (24)	6 5	1.9 1.3			
UR 8E-HC+ FSTR/FSTR green/grey	822134	1.5	24	8	1.5			
UU 8E green	995451	1.5	14	8	1.7			
PU 8E green	995453	1.4	24	8	1.5			
10 02 gicen	555 155		21	0	1.5			
E series (Power transmission belts	with polyeste	er tension m	ember)					
GG 15E-18 green	822053	1.8	20	15	2.0			
GG 20E-20 green	822052	2.0	24	20	2.3			
GG 20E-30 green	855538	3.0	40	20	3.4			
GG 20E-30 grey FDA	822142	3.0	30	20	3.4			
GG 30E-32 FSTR/FSTR black	822118	3.0	40	30	3.55			
TG 30E-30 black/green	822058	3.0	40	30	3.2			
UU 20E-16 FSTR/FSTR green	822055	1.6	30	20	1.85			
UU 30E-20 FSTR/FSTR green	822133	2.0	30	28	2.2			
A series (Power transmission belts	with aramide	e tension me	mber)					
UU 15A-17 FSTR/FSTR green	995473	1.7	30	60	1.9			
P caries (Machine tanes with polyamide tension member)								
P series (Machine tanes with polya	mide tensior	member)						
<b>P series (Machine tapes with polya</b>			14	2	13			
GG 2P grey	850030	1.2	14 24	2	1.3 1.45			
GG 2P grey GG 3P grey		1.2 1.4	14 24 14	2 3 4	1.3 1.45 1.6			
GG 2P grey GG 3P grey GG 4P grey	850030 850035	1.2	24	3	1.45			
GG 2P grey GG 3P grey GG 4P grey GG 6P grey	850030 850035 850040	1.2 1.4 1.4	24 14	3 4	1.45 1.6			
GG 2P grey GG 3P grey GG 4P grey GG 6P grey NN 4P-HC+ grey TG 2P green/grey	850030 850035 850040 850007	1.2 1.4 1.4 1.5	24 14 30	3 4 6	1.45 1.6 1.7			
GG 2P grey GG 3P grey GG 4P grey GG 6P grey NN 4P-HC+ grey TG 2P green/grey TG 4P green/grey	850030 850035 850040 850007 855635	1.2 1.4 1.4 1.5 1.6	24 14 30 20	3 4 6 4	1.45 1.6 1.7 1.3			
GG 2P grey GG 3P grey GG 4P grey GG 6P grey NN 4P-HC+ grey TG 2P green/grey TG 4P green/grey G 5/0 X/P green	850030 850035 850040 850007 855635 850029 850039 855582	1.2 1.4 1.4 1.5 1.6 0.8	24 14 30 20 14	3 4 6 4 2	1.45 1.6 1.7 1.3 0.8			
GG 2P grey GG 3P grey GG 4P grey GG 6P grey NN 4P-HC+ grey TG 2P green/grey TG 4P green/grey G 5/0 X/P green TT 2P green	850030 850035 850040 850007 855635 850029 850039 855582 850028	1.2 1.4 1.5 1.6 0.8 1.0 1.25 0.6	24 14 30 20 14 24 24 24 20	3 4 6 4 2 4 6 2	1.45 1.6 1.7 1.3 0.8 1.1 1.15 0.5			
GG 2P grey GG 3P grey GG 4P grey GG 6P grey NN 4P-HC+ grey TG 2P green/grey TG 4P green/grey G 5/0 X/P green TT 2P green TT 2P green	850030 850035 850040 850007 855635 850029 850039 855582 850028 850028	1.2 1.4 1.5 1.6 0.8 1.0 1.25 0.6 0.7	24 14 30 20 14 24 24 20 14	3 4 6 4 2 4 6 2 3	1.45 1.6 1.7 1.3 0.8 1.1 1.15 0.5 0.5			
GG 2P grey GG 3P grey GG 4P grey GG 6P grey NN 4P-HC+ grey TG 2P green/grey TG 4P green/grey G 5/0 X/P green TT 2P green TT/S 3P/green TT/S 4P-HC black	850030 850035 850040 850007 855635 850029 850039 855582 850028 850028 850032 855619	1.2 1.4 1.5 1.6 0.8 1.0 1.25 0.6 0.7 0.8	24 14 30 20 14 24 24 20 14 20	3 4 6 4 2 4 6 2 3 3 4	1.45 1.6 1.7 1.3 0.8 1.1 1.15 0.5 0.5 0.5 0.75			
GG 2P grey GG 3P grey GG 4P grey GG 6P grey NN 4P-HC+ grey TG 2P green/grey G 5/0 X/P green TT 2P green TT/S 3P/green TT/S 3P/green TT 4P-HC black TT 6P-HC black	850030 850035 850040 850007 855635 850029 850039 855582 850028 850028 850032 855619 855597	1.2 1.4 1.5 1.6 0.8 1.0 1.25 0.6 0.7 0.8 1.0	24 14 30 20 14 24 24 20 14 20 14 20 24	3 4 6 4 2 4 6 2 3 4 6	1.45 1.6 1.7 1.3 0.8 1.1 1.15 0.5 0.5 0.5 0.75 1.05			
GG 2P grey GG 3P grey GG 4P grey GG 6P grey NN 4P-HC+ grey TG 2P green/grey G 5/0 X/P green TT 2P green TT/S 3P/green TT/S 3P/green TT 4P-HC black TT 6P-HC black TT 6P black/green	850030 850035 850040 855635 850029 850039 855582 850028 850028 850032 855619 855597 850210	1.2 1.4 1.4 1.5 1.6 0.8 1.0 1.25 0.6 0.7 0.8 1.0 0.8	24 14 30 20 14 24 24 20 14 20 24 24	3 4 6 4 2 4 6 2 3 4 6 6 6	1.45 1.6 1.7 1.3 0.8 1.1 1.15 0.5 0.5 0.5 0.75 1.05 0.7			
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GG 2P grey GG 3P grey GG 4P grey GG 6P grey NN 4P-HC+ grey TG 2P green/grey TG 4P green/grey G 5/0 X/P green TT 2P green TT 2P green TT 4P-HC black TT 6P-HC black TT 6P-HC black TT 6P black/green TT/S 6P/green TU 6P black/green Elastic series (Machine tapes with p GG 40U green PN 75P green/grey <sup>1)</sup> UG 50U black/green UU 15U black/green UU 20U black/green UU 20U black/green UU 20U-HC+ FSTR/FSTR black	850030 850035 850040 850007 855635 850029 855029 855028 850028 850028 85507 85507 855010 8550210 855522 855503 855552 855503 855559 855521 855523 855599 850221 850207 855631	1.2 1.4 1.4 1.5 1.6 0.8 1.0 1.25 0.6 0.7 0.8 1.0 0.8 1.0 0.8 1.15 1.1 1.1 <b>tension me</b> 1.4 1.5 1.6 0.8 1.1 1.1 1.1 1.5 1.6 0.8 1.0 0.8 1.15 1.15 1.1 1.15 1.1 1.15 1.15 1.1 1.1	24 14 30 20 14 24 24 20 14 20 24 24 30 24 24 30 24 24 30 24 24 20 14 20 14 20 14	3 4 6 4 2 4 6 2 3 4 6 6 6 6 6 6 6 6 7 7 7 8 7 8 7 8 7 8 7 8	1.45 1.6 1.7 1.3 0.8 1.1 1.15 0.5 0.7 0.9 1.05 0.7 0.8 1.2 1.2 1.2			
GG 2P grey GG 3P grey GG 4P grey GG 6P grey NN 4P-HC+ grey TG 2P green/grey G 5/0 X/P green TT 2P green TT 2P green TT 4P-HC black TT 6P-HC black TT 6P-HC black TT 6P black/green TT/S 6P/green TU 6P black/green U 6P black/green PN 75P green/grey <sup>1)</sup> UG 50U black/green UU 15U black/green UU 20U black/green UU 20U-HC+ FSTR/FSTR black UU 40U black/green	850030 850035 850040 855635 850029 855039 855582 850032 855032 855032 850210 850210 850210 850220 00lyurethane 855552 855503 855599 850221 850221 850207 855631 850208	1.2 1.4 1.4 1.5 1.6 0.8 1.0 1.25 0.6 0.7 0.8 1.0 0.8 1.15 1.1 <b>tension me</b> 1.4 1.5 1.6 0.8 1.15 1.1 1.1 1.1 1.1 1.1 1.1 1.	24 14 30 20 14 24 24 20 14 20 24 24 30 24 30 24 30 24 30 24 30 24 30 24 30 24 30 24 30 24 30 24 30 24 30 30 32 32 32 32 32 32 32 32 32 32 32 32 32	3 4 6 4 2 4 6 2 3 4 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 7 7	1.45 1.6 1.7 1.3 0.8 1.1 1.15 0.5 0.5 0.75 1.05 0.7 0.9 1.05 0.7 0.8 1.2 1.2 1.2 1.2			
GG 2P grey GG 3P grey GG 4P grey GG 6P grey NN 4P-HC+ grey TG 2P green/grey TG 4P green/grey G 5/0 X/P green TT 2P green TT/3 3P/green TT/3 3P/green TT 4P-HC black TT 6P-HC black TT 6P-HC black TT 6P black/green TU 6P black/green TU 6P black/green PN 75P green/grey <sup>1)</sup> UG 50U black/green UU 15U black/green UU 20U black/green UU 20U black/green UU 20U-HC+ FSTR/FSTR black UU 40U black/green UR 40U-HC+ GSTR/NSTR black/grey	850030 850035 850040 855635 850029 855039 855582 850032 855032 855032 850210 850210 850210 850221 855553 855503 855553 855599 850221 850207 855631 8550208 855636	1.2 1.4 1.4 1.5 1.6 0.8 1.0 1.25 0.6 0.7 0.8 1.0 0.8 1.15 1.1 <b>tension me</b> 1.4 1.5 1.6 0.8 1.15 1.1 1.1 1.1 1.4 1.5 1.1 1.1 1.4 1.5 1.1 1.1 1.1 1.1 1.1 1.1 1.1	24 14 30 20 14 24 24 20 14 20 24 24 30 24 30 24 30 24 30 24 30 24 30 24 30 24 30 24 30 24 30 24 30 24 30 30 32 32 32 32 32 32 32 32 32 32 32 32 32	3 4 6 4 2 4 6 2 3 4 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 7 7	1.45 1.6 1.7 1.3 0.8 1.1 1.15 0.5 0.7 0.9 1.05 0.7 0.9 1.2 1.2 1.2 1.2 1.2 1.45			
GG 2P grey GG 3P grey GG 4P grey GG 6P grey NN 4P-HC+ grey TG 2P green/grey G 5/0 X/P green TT 2P green TT 2P green TT 4P-HC black TT 6P-HC black TT 6P-HC black TT 6P black/green TT/S 6P/green TU 6P black/green U 6P black/green PN 75P green/grey <sup>1)</sup> UG 50U black/green UU 15U black/green UU 20U black/green UU 20U-HC+ FSTR/FSTR black UU 40U black/green	850030 850035 850040 855635 850029 855039 855582 850032 855032 855032 850210 850210 850210 850220 00lyurethane 855552 855503 855599 8550221 850221 850207 855631 850208	1.2 1.4 1.4 1.5 1.6 0.8 1.0 1.25 0.6 0.7 0.8 1.0 0.8 1.15 1.1 <b>tension me</b> 1.4 1.5 1.6 0.8 1.15 1.1 1.1 1.1 1.1 1.1 1.1 1.	24 14 30 20 14 24 24 20 14 20 24 24 30 24 30 24 30 24 30 24 30 24 30 24 30 24 30 24 30 24 30 24 30 24 30 30 32 32 32 32 32 32 32 32 32 32 32 32 32	3 4 6 4 2 4 6 2 3 4 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 7 7	1.45 1.6 1.7 1.3 0.8 1.1 1.15 0.5 0.5 0.75 1.05 0.7 0.9 1.05 0.7 0.8 1.2 1.2 1.2 1.2			

#### Key

\* Tolerance ± 0.1 mm

- \*\* The minimum admissible roller (pulley) diameters have been established at standard climatic conditions. Lower temperatures or particularly low humidity require larger diameters.
- \*\*\* The F<sub>W</sub> value indicates the shaft load at 1 % elongation in N/mm belt width. It represents a parameter, which in contrast to the ultimate tensile strength, gives a direct indication of the tensile force in the belt.
- <sup>1)</sup> The nonwoven coating (N) usually faces towards the product.
- 2) Only as a power transmission belt.
- <sup>3)</sup> Please state the required power transmission belt length, width, type of splice and if necessary the amount of pre-tensioning required. For power transmission belt lengths <500 mm and lengths <125 m please ask whether feasible.

Applications	Manufacturing	Processing	Letter-Sorters/Postal	Packaging
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Grinder PG-GM-V/130





Hot press SB-HP-160/150

#### Splicing technology

Siegling Extremultus layboy tapes in the P series are made endless with a bonded wedge splice.

All other types are made endless with a Z-splice as a rule. Combined with our easy to handle fabrication devices this splice method secures important advantages:

- very easy preparation and making of the splice on the machine
- no additional materials needed
- very flexible and durable splice

The GS-tested Siegling Extremultus SM-HC 50/40, SM-HC 50/60, SM-HC 50/80 heating clamps can be supplied as complete tool sets with accessories. A handy additional item, useful for fitting jobs, is a fitting case lined with foam material.

Z-punch press

PP-ZP-V/40-3

PP-ZP-V/80-3

Heating clamp SM-HC-50/40 SM-HC-50/60

SM-HC-50/80

Our overview of devices, data sheets and instructions – for Siegling Transilon conveyor and processing belts too – can be obtained on request.

- A = Aramide
- E = Polyester
- **G** = G Elastomer
- N = Nonwoven polyester material
- P = Polyamide
- **R** = High Grip
- **S** = Special structured
- T = Mixed or polyamide fabric
- **U** = Polyurethane

- **GL** = Smooth
- HC = Conductive belt surfaces
- **HC+** = Conductive belt surfaces +
  - conductive through the belt
- **FSTR** = Fine pattern
- **GSTR** = Coarse 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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Forbo Movement Systems is part of the Forbo Group, a global leader in flooring, bonding and movement systems. www.forbo.com