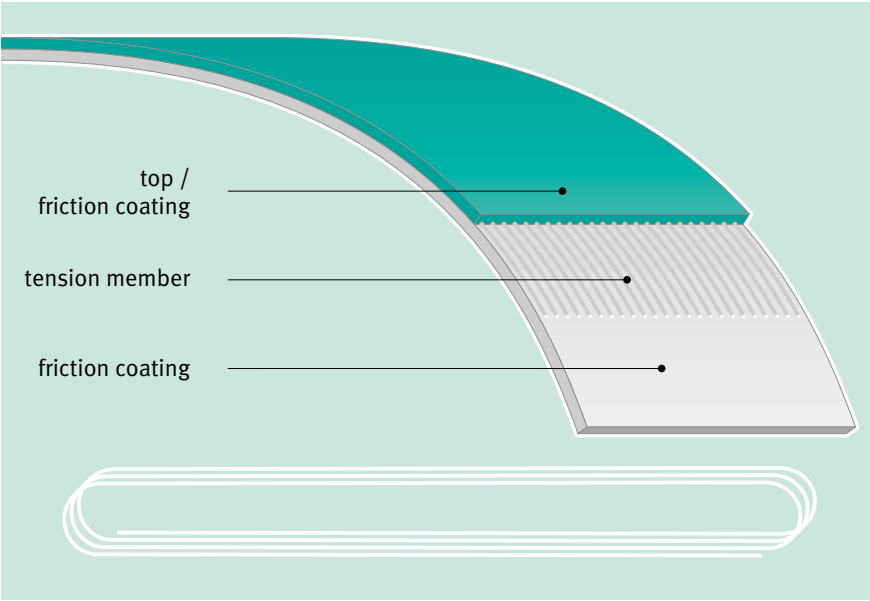


Product Range

Helically-Wound Endless Power Transmission Belts



In contrast to conventional flat belts, Extremultus helically-wound endless power transmission belts have a tension member consisting of wound polyester cord threads. This endless design (without splice) provides a series of benefits, in particular at high drive speeds (> 60 m/s).

- short take-up ranges thanks to high SD values
- very smooth tracking
- highly flexible (suitable for multiple reversing drums)
- largely unaffected by climatic fluctuations

Contents

Properties	2
Product range	2
Designs	2
Type code	3
Production tolerances	3
Elongation guidelines	3
Application examples	4

Properties

Extremultus is antistatic.

Helically-wound endless types cannot be lengthened, shortened or repaired.

The Extremultus sub-type GT is impervious to oils and greases and the commercially available solvents.

Working temperatures tolerated:
-20°C to +80°C.

The Extremultus sub-types LL, LT and UU are impervious to machine oils, diesel fuels, petrol, benzene, commercially available solvents such as ethyl acetate, acetone, etc.; chlorinated hydrocarbons such as perchloroethylene, etc.

Working temperatures tolerated:
-40°C to +80°C.

Extremultus is not impervious to organic and inorganic acids.

Please inquire for details about chemical resistance.

Extremultus is antistatic, meeting standard international and many national regulations pertaining to the prevention of electrostatic build-up in explosion-proof areas.

Product range

Type		Construction			
Designation (used for ordering)	Article number	Tension member	Friction coating	Top/friction coating	Total thickness ¹⁾ approx. [mm]
UU 10 E	810011	polyester cord	urethane	urethane	0.6
UU 14 E	810012		urethane	urethane	0.7
UU 20 E	810013		urethane	urethane	1.0
GT 10 E	810028		Elastomer G	polyamide fabric	1.2
GT 14 E	810027		Elastomer G	polyamide fabric	1.3
GT 20 E	810026		Elastomer G	polyamide fabric	1.9
GT 28 E	810029		Elastomer G	polyamide fabric	2.4
GT 40 E	810032		Elastomer G	polyamide fabric	2.8
GG 10 E	810033		Elastomer G	Elastomer G	1.9
GG 14 E	810035		Elastomer G	Elastomer G	1.9
GG 20 E	810031		Elastomer G	Elastomer G	2.8
GG 28 E	810036		Elastomer G	Elastomer G	3.2
GG 40 E	810030		Elastomer G	Elastomer G	3.9
LT 10 E	810001		chrome-leather	polyamide fabric	2.2
LT 14 E	810002		chrome-leather	polyamide fabric	2.4
LT 20 E	810003		chrome-leather	polyamide fabric	2.6
LT 28 E	810004		chrome-leather	polyamide fabric	3.1
LT 40 E	810005		chrome-leather	polyamide fabric	3.7
LL 10 E	810006		chrome-leather	chrome-leather	3.5
LL 14 E	810007		chrome-leather	chrome-leather	3.8
LL 20 E	810008		chrome-leather	chrome-leather	4.0
LL 28 E	810009		chrome-leather	chrome-leather	4.2
LL 40 E	810010		chrome-leather	chrome-leather	5.0
Special types on request					

Sub-types

Friction coating U

The elastomer U friction coating is used for all standard drives.

Thanks to its low thickness, it is especially well-suited for extreme flexing stress.

UU = green urethane friction coating on both sides, power taken from both sides of belt.

Friction coating elastomer G

The friction coating elastomer G is used for all standard drives, also wherever dust and moisture are a factor.

GT = elastomer friction coating on one side with cover of polyamide fabric, power taken from one side of belt

Chrome-leather friction covering L

The chrome-leather friction covering is used wherever oil and grease are a factor.

LT = chrome-leather friction covering on one side with cover of polyamide fabric, power taken from one side of belt

LL = chrome-leather friction covering on both sides, power taken from both sides of belt

Technical data

Weight ¹⁾ approx. [kg/m ²]	Nominal effective pull, approx. F _u [N/mm width] at nominal operational elongation 1%	Tensile strength approx. [N/mm width]	available lengths and widths [mm]				
			Elongation at break approx. [%]	Minimum length	Maximum length	Minimum width	Maximum width
0.7	10	130	15	640	10000	60 ²⁾	450
0.8	14	175	15	640	10000	60 ²⁾	450
1.1	20	300	15	640	10000	60 ²⁾	450
1.1	10	130	15	420	12000	20	450
1.3	14	175	15	420	12000	20	450
1.9	20	300	15	420	12000	20	450
2.4	28	540	15	420	12000	20	450
2.8	40	600	15	420	12000	20	450
2.1	10	130	15	420	12000	20	450
2.3	14	175	15	420	12000	20	450
3.1	20	300	15	420	12000	20	450
3.4	28	540	15	420	12000	20	450
4.1	40	600	15	420	12000	20	450
1.9	10	130	15	420	12000	20	450
2.1	14	175	15	420	12000	20	450
2.4	20	300	15	420	12000	20	450
3.0	28	540	15	420	12000	20	450
3.3	40	600	15	420	12000	20	450
3.4	10	130	15	420	12000	20	450
3.6	14	175	15	420	12000	20	450
3.9	20	300	15	420	12000	20	450
4.7	28	540	15	420	12000	20	450
5.2	40	600	15	420	12000	20	450

Fabrication tolerances

Length tolerances:

from 550 to 1000 mm	± 0.5 %
from 1000 to 5000 mm	± 0.4 %
over 5000 mm	± 0.3 %

Width tolerances:

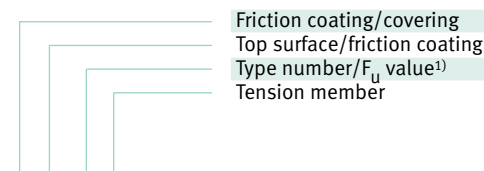
from 20 to 50 mm	± 1.0 mm
from 50 to 100 mm	± 1.5 mm
from 100 to 250 mm	± 2.0 mm
over 250 mm	± 3.0 mm

Standard elongation values [%]

uniform load	0.50 – 1.00
intermittent load	1.00 – 1.20
extremely intermittent load	1.20 – 1.50

- 1) For leather-covered belts, deviations from the mean values cited for total thickness and weight may occur.
- 2) For production reasons, minimum width available which can then be slit into minimum widths of 20 mm.

Type code

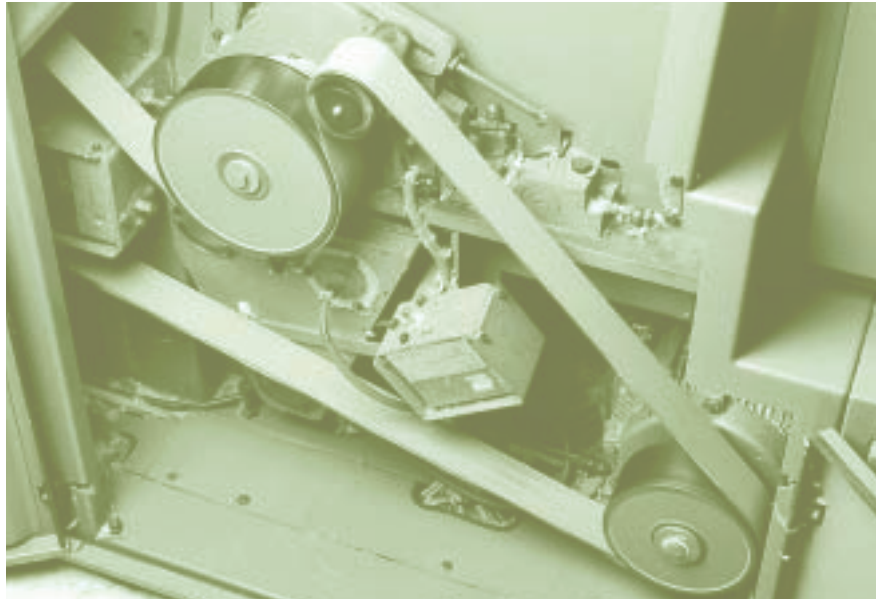


U U 10 E
G T 14 E
L T 20 E
L L 28 E

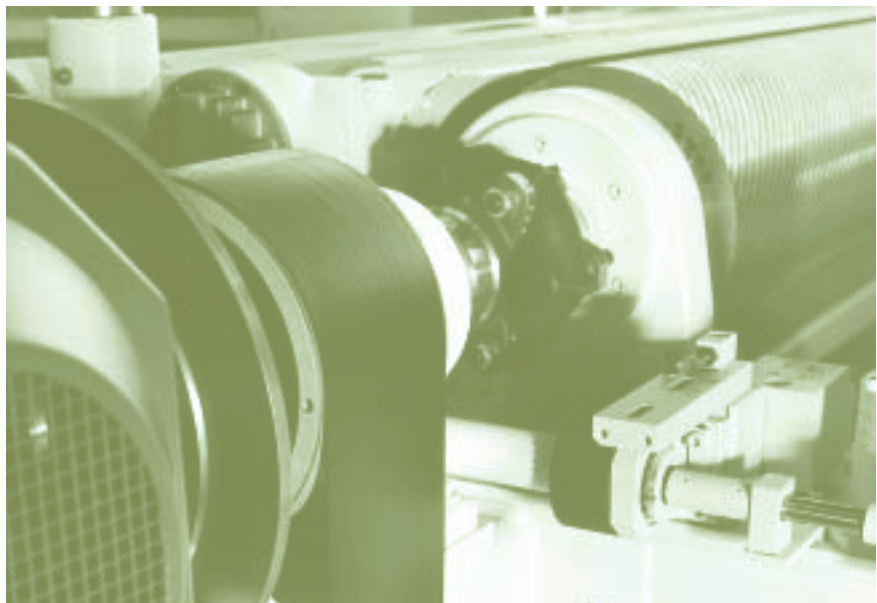
- ¹⁾ F_u value, the nominal effective pull, indicates the effective pull/elongation properties measured in N/mm belt width at 1% elongation.

Application examples

Card drive
in the textile industry



Grinder drive
in the production of particleboard



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