siegling extremultus
flat belts

HEAVY-DUTY DRIVES

Siegling – total belting solutions

Forbo
MOVEMENT SYSTEMS

SUPERB POWER TRANSMISSION
FOR HEAVY-DUTY APPLICATIONS

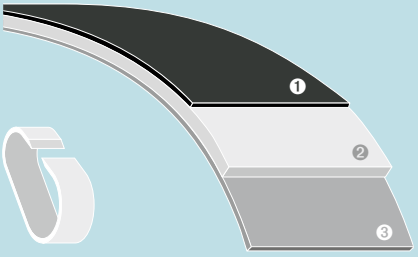
Siegling Extremultus belts excel at transmitting vast amounts of power proficiently. They are extremely efficient and often a welcome alternative to high-loss gear boxes.

Siegling Extremultus power transmission belts are durable, hard-wearing, elastic, as well as shock- and vibration-absorbent. They are used at belt speeds of up to 100 m/s.
Compared with other drive components like V-belts, they offer especially high efficiency of over 98% and exceptional speed stability.

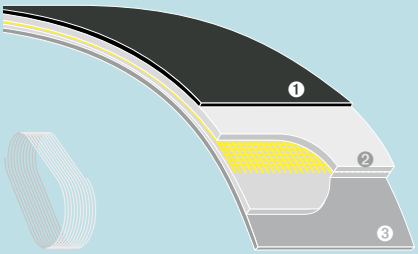
Typical applications are:

- turbines, generators, compressors;
- engine test rigs;
- flakers and chippers;
- gang saws for wood and stone;
- forming presses.

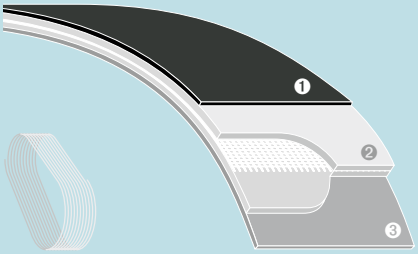
Polyamide line with a tension member made of highly oriented polyamide sheet



Truly endless aramid line with a tension member made of truly endless aramid cord



Truly endless polyester line with a tension member made of truly endless polyester cord



❶ Top face | ❷ Tension member | ❸ Underside

The properties	The advantages
thin/flexible	high efficiency > 98%, small reversing drum diameter
constant friction coefficient, high abrasion resistance	speed kept constant, long service life
high elastic modulus	short take-up ranges, low creep
laterally stiff	very strong edges
good damping characteristics	kind to bearings, smooth, vibration-free tracking

You can find product details in the Siegling Extremultus compendium (ref. no. 333)

Extract from the product range

	Article number	Total thickness approx. [mm]	d_{min} approx. [mm]*	Nominal effective pull approx. [N/mm belt width]**	Specific shaft load [N/mm belt width]***	Elongation at fitting [%]	Weight approx. [kg/m²]
Polyamide line							
LT 20P	800010	3.4	90	20	20	1.5 – 3	3.4
LT 28P	800011	3.7	125	28	28	1.5 – 3	3.7
LT 40P	800012	4.4	200	40	40	1.5 – 3	4.3
LT 54P	800013	5.5	300	54	54	1.5 – 3	5.5
LT 65P	998059	5.8	400	65	65	1.5 – 3	5.7
LT 80P	800014	7.2	400	80	80	1.5 – 3	7.1
GT 20P black	850047	2.5	60	20	20	1.5 – 3	2.65
GT 28P black	850048	3	120	28	28	1.5 – 3	3.3
GT 40P black	850049	3.65	200	40	40	1.5 – 3	4
GT 54P black	850050	4.5	300	54	54	1.5 – 3	4.9
GT 80P black	850051	6	400	80	80	1.5 – 3	6.4
Polyester line							
LT 20E	810003	2.3	80	22	40	0.5 – 1.5	2.5
LT 28E	810004	2.9	130	36	56	0.5 – 1.5	3.2
LT 40E	810005	3.2	180	40	80	0.5 – 1.5	3.3
GT 20E black	810026	1.9	70	22	40	0.5 – 1.5	1.9
GT 28E black	810029	2.1	120	36	56	0.5 – 1.5	2.2
GT 40E black	810032	2.4	160	40	80	0.5 – 1.5	2.5
Aramid line							
LT 54A	810081	2.7	300	55	280	0.3 – 1	2.7
LT 80A	810080	2.8	200	82	250	0.3 – 1	2.8
GT 54A black	810053	1.8	150	54	260	0.3 – 1	1.9
GT 80A black	810082	1.9	150	82	250	0.3 – 1	2

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.

For technical reasons, belts with a truly endless tension member are made with the following dimensions:

Width [mm]	min. 10	max. 480
Length [mm]	min. 420	max. 13700

A = Aramid
E = Polyester
G = Elastomer G
L = Chrome leather
P = Polyamide
T = Blended or polyamide fabric

Legend

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

* Lower temperatures require larger drum diameters. For the polyamide line, this also applies in the case of low humidity.

** The nominal effective pull specifies the power transmission at the nominal elongation at fitting and 180° arc of contact in N/mm belt width.

*** Relaxed specific shaft load at 1 % elongation at fitting and 180° arc of contact in N/mm belt width.

Type code for Siegling Extremultus

G T 20 P
L T 20 E
G T 54 A black

- Color overall or underside
- Material of tension member
- Type number
- Coating top face
- Coating underside

Flaker for tree trunks up to 1200 mm Ø
Power transmission 1850 kW
Belt type GT 80P

Kaplan tubular turbines
Turbine power 240 kW
Belt type LT 28P

Schuler CRM solid forming press
Pressing force 40000 kN
Belt type LT 54

Siegling – total belting solutions

Committed staff, quality oriented organization 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 2,500 people. Our products are manufactured in ten 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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