Conveyor belts element Integrity in details



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About our company

Element[®] is a manufacturer of spare and wear parts for mining equipment with a high level of quality and service

Element Group is not an owner nor a representative of the brands of the listed equipment. Spare parts and accessories are compatible with the specified equipment and are manufactured and provided with warranty obligations of the Element® trademark.

Spare and wear parts for crushing and screening equipment

- Spare and wear parts for slurry pumps
- Components of conveyor transport systems
- Wear-resistant materials
- Mill linings
- Standard components and selecting their fully-fledged analogues
- Engineering
- Maintenance and auditing
- REMAN and component repair

We produce conveyor belts according to DIN, ISO and GOST standards and offer our customers an individualized selection of belts

In the mining industry, conveyor belts are used in huge quantities. Element produces both general use and textile belts with special grades. We offer flat and textile belts of several grades, chevron belts, as well as corrugated sidewall belts.

Integrity in details





Grades of conveyor belts

Flat conveyor belts

Flat conveyor belts are designed for the horizontal transportation of goods. They are used on conveyors with an angle of inclination up to 18-220. The range includes the following grades of belts: general use, with a breaker, special grades, with an aramid cord, steel cord and belts for pipe conveyors.

Chevron belts

These are used when the slope reaches up to 450. The pattern and height of the chevron depend on the angle of inclination of the conveyor, the speed of transportation, the size and the natural angle of slope of the material.

Corrugated sidewall belts

Corrugated sidewall belts are the solution for the implementation of steeply inclined and vertical conveyors. This grade of conveyor significantly reduces the space for placing equipment and provides a lift with an angle of inclination of up to 90°.





When ordering Element's conveyor belts, our customers do not sacrifice quality over price. The quality of the belts is due to strict compliance with international standards in the production of conveyor belts, as well as our own developments in the field of rubber compounds. Element Group provides the customer with a guarantee and full technical support throughout the life of the product.

Depending on the grade and use of the belt, one of the appropriate grades of cord can be selected.

Correspondence of belt grades to the applied cord:

Belt grade	Cord designation	Base	Warp and weft
	EP	Polyester thread	Polyamide thread
	EE	Polyester thread	Polyester thread
Flat belts	PP	Polyamide thread	Polyamide thread
	DPP	Aramid thread	Polyamide thread
	ST	Steel cables	No / Polyamide thread
Chevron belts	EP	Polyester thread	Polyamide thread
	XE	Polyester thread	Polyester monofilament
Corrugated sidewall belts	XOE	Polyester thread	Polyamide / Polyester monofilament
oonuguteu sidewali beits	XDE	Polyester thread	Polyamide / Polyester monofilament
	XST	Steel cables	Polyester monofilament
	XSST	Steel cables	Steel wire

Grades of general and special grade use covers:

Designation	Transcript	Designation	Transcript
Y	Abrasive-resistant, general use, abrasion resistance is no more than 150 mm ³	G	Oil-resistant
х	Improved abrasion resistance, abrasion resistance is no more than 120 mm ³	MFR	Abrasive resistant, flame-retardant
W	Ultra-abrasive resistance, abrasion resistance is no more than 90 mm ³	CFR	Cold-resistant, flame-retardant
Z	Moderate abrasion resistance, abrasion resistance is no more than 250 mm ³	T1	Heat-resistant for materials up to +100 degrees
К	Flame-retardant for ground applications (covers)	T2	Heat-resistant for materials up to +150 degrees
S	Flame-retardant (covers and cord)	ТЗ	Heat-resistant for materials up to +200 degrees
V	Non-flammable for coal mines	T4	Heat-resistant for materials up to +400 degrees
R	Frost-resistant	XCG	Increased tear resistance





Textile belts for general use

Marking of standard flat and endless belts:

Product ID

Name

Belt width:

Standard width range 500-3,200 mm

Cord:

EP - polyester-polyamide textile

EE – polyester textile

PP - polyamide textile

DPP - aramid-polyamide cord

Tensile strength:

Tensile strength 200 - 3150 N/mm

Thickness of the top cover

Thickness of the bottom cover

Grade of cover:

- Y abrasive resistant, general use (abrasion resistance is no more than 150 mm³)
- X improved abrasive resistance, abrasion resistance is no more than 120 mm³
- W ultra-abrasive resistant, abrasion resistance is no more than 90 mm³
- Z general use, moderate abrasion resistance (abrasion resistance is no more than 250 mm³)

The total length of belt (for endless belts)

Splicing type (for endless belts)*

Thick	ness o	f the c	ord de	pendin	g on th	ne strei	ngth ai	nd nun	nber of	piles	[mm] **	ł	
No. of					The ov	erall stre	ngth of th	ne cord, [l	N/mm]				
piles	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	3500
2	2,1	2,2	2,4										
3			3,25	3,4	3,8	4,4	6	6,6					
4				4,2	4,4	4,8	5,6	6,4	8,8	10,4	12,8		
5						5,6	6	6,4	10	11	13	17,5	
6													19,7

* Note: in the case of a endless belt, the calculation of the quantity is in pcs. In the case of an open belt, this is done in linear meters. ** The calculated values for the EP of the textile are provided. The final parameters are specified in the technical data sheet of the belt. 11 element



Textile belts for general use

General use belts are the most common grade of belts and are used on conveyors with light, medium and heavy categories of operating conditions. These are belts of a classic design, consisting of the top (working) cover, textile gaskets, and the bottom (running) cover.

The belt design may contain belt ply laying with a basis nominal strength of 40 N/mm and a warp and weft strength from 100 N/mm or textile padding with a nominal warp and weft strength of 200 N/mm. The grades of rubbers used in general use belts: Y, X, W, Z (DIN 22102).



Reco	mmen	nded r	nini	mum	values	for	the diam	eter	's of th	ne belt pi	Illey																	
No. of															Total str	ength of the cord,	N/mm]											
piles		250			315		400			500		630		800		1000		1250		1600		2000		2500		3150		3500
	Drive		315	Drive	3	15 Dr	ive	315																				
2	Tail		250	Tail	2	50 Ta	il	250																				
	Snub		200	Snub	2	00 Sn	ub	200																				
						Dr	ive	400	Drive	500	Drive	500	Drive	630	Driv	e 800	Drive	. 8	00									
3						Та	il	315	Tail	400	Tail	400	Tail	500	Tail	360	Tail	3	60									
						Sn	ub	250	Snub	315	Snub	315	Snub	400	Snu	b 500	Snub	o 5	600									
									Drive	630	Drive	630	Drive	630	Driv	e 800	Drive	. 8	00 Di	rive 1250	Drive	1250	Drive	1600				
4									Tail	500	Tail	500	Tail	500	Tail	360	Tail	3	60 Ta	ail 1000	Tail	1000	Tail	1400				
									Snub	400	Snub	400	Snub	400	Snu	b 500	Snub	o 5	500 Sr	nub 800	Snub	800	Snub	1000				
													Drive	800	Driv	e 800	Drive	e 8	00 Di	rive 1250	Drive	1400	Drive	1600	Drive	200	C	
													Tail	360	Tail	360	Tail	3	60 Ta	ail 1000	Tail	1250	Tail	1400	Tail	180	C	
													Snub	500	Snu	b 500	Snub	5 5	500 Sr	nub 800	Snub	1000	Snub	1000	Snub	125	C	
																											Drive	2200
																											Tail	2000
																											Snub	1400

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Sketch of a section of flat belt



Properties of general use conveyor belt covers DIN 22102

Grade of covers	Strength at tension, [MPa]	Elongation at break, [%]	Elastomer	Operating temperature range, [°C]	Hardness, Shore A units	Abrasion resistance, [mm³]	Notes
Y	20	400	N/SBR	-40-+60	65	150	Abrasive resistant
х	25	450	NR	-40-+60	65	120	Improved version
W	18	400	BR/NR/SBR	-40-+60	65	90	Ultra-abrasive- resistant
Z	15	350	BR/SBR	-40-+60	65	250	For general use

Textile belts with breaker

An additional transverse layer is used to increase impact resistance. This is especially useful when the material falls from height. This also provides greater resistance to cutting, due to the transverse breaker preventing small cuts from increasing in size.

A sketch of the belt section and an example of the location of the breaker



Marking of textile belts with breaker:

	402000****	TEXTILE BEI	LT 800 EP 1	250/5	+1– 8 (S)+8 – >
Product ID				1	ŢŢŢ	
Name						
Belt width: Standard width range 500-3,20	0 mm					
Cord: EP-polyester-polyamide textile EE-polyester textile PP – polyamide textile DPP – aramid-polyamide cord						
Tensile strength: Tensile strength of the 200-3,15	50 N/mm					
The number of additional piles						
The thickness of the top cover						
Grade of belt ply: S – Steel belt ply T – Textile belt ply						
Thickness of the bottom cover						
Grade of cover Suitable for all grades of covers	s for general and spec	cial use belts				

Textile belts with special grades

Non-flammable belts

Belt grade	Description	Tensile strength, [MPa]	Elongation at break, [%]	Abrasion resistance [mm³]	Hardness shore A units	Operating temperature range, [°C]	Safety
K	Non-flammable covers according to ISO 340 and antistatic properties according to ISO 284	At least 20	At least 400	No more than 200	65	-20-+60	
CFR	Non-flammable frost-resistant belts for ground use	At least 20	At least 420	No more than 120	68	-40-+60	The burn time of one sample of the belt with the covers is no more than 15 seconds.
S	Non-flammable covers and cords according to ISO 340 and antistatic properties according to ISO 284	At least 20	At least 450	No more than 200	60	-20-+60	Burn time for 6 samples of belt with covers – no more than 45 seconds. There is no re-ignition. Surface electrical resistance
V	Grade V non-flammable belts for underground use with safety requirements according to EN 14973	At least 17	At least 350	No more than 175	65	-20-+80	Unitio, 20.0 10 0.

Heat-resistant belts

Tiea		Jens						
Belt grade	Description	Tensile strength, [MPa]	Elongation at break [%]	Elastomer	Operating temperature range, [°C]	Product temperature, [°C]	Abrasion resistance, [mm³]	Note
T1	Heat-resistant for materials up to +100	15	400	BR/NR/SBR	-25-+80	100	150	Basic thermal stability
T2	Heat-resistant for materials up to +150	15	400	SBR	-15-+100	150	150	Increased thermal stability
Т3	Heat-resistant for materials up to +200	15	400	EPDM/SBR	-15-+150	200	200	High thermal stability
Τ4	Heat-resistant for materials up to +400	15	350	EPDM	-15-+200	500	200	Resistance to extreme temperatures

Frost-and o	oil-resistant belts

Belt grade	Description	Tensile strength, [MPa]	Elongation at break, [%]	Abrasion resistance, [mm³]	Hardness, Shore A units	Operating temperature range, [°C]
R	Frost-resistant belt	At least 15	At least 350	No more than 200	65	-55-+60
G	Oil-resistant belt	At least 16	At least 400	No more than 130	65	-15-+60

Textile belts with aramid cords

Textiles made of aramid cords, which are used in the production of conveyor belts, have high strength.

The combination of various cover grades and aramid cord allows one to get high strength and low weight characteristics. The small coefficient of stretching of aramid cords ensures the stability of the cord.

A sketch of the section of the belt with aramid cord В 83 BE BW

Advantages of aramid cord belts

š 16

The thickness of the aramid cord belt is less, due to the single-pile cord, in comparison with EP and ST belts at the same tensile loads.

Aramid cord belts do not have a corrosion unlike steel cord belts.

It can be used with smaller diameter pulleys, and pulleys may be reducted to increase the transport speed.

They are resistant to impact and cutting loads.

Marking of textile belts with aramid cords:

	402000**** 1	EXTILE BEL	I 2000 I	JPP 1	600/1	-8+3-V
Product ID		ſ			Î	
Name						
Belt width: Standard width range 500-3200 r	mm					
Cord: DPP – aramid-polyamide cord						
Tensile strength: Tensile strength of the 200-3150	N/mm					
The thickness of the top cover						
The thickness of the bottom						_
The cover grade Suitable for all grades of covers f	for general and special us	se belts				

The structure of piles in an aramid cord belt



Diameter of the pulley for belts with aramid cords

Belt grade	Cover thickness, [mm]	Belt thickness, [mm]	Min. pulley diameter, [mm]
DPP800	6+2	11,5	315
DPP1000	6+2	11,5	400
DPP1250	6+2	11,6	500
DPP1600	6+3	12,0	630
DPP1800	6+3	12,3	800
DPP2000	8+3	14,5	1000
DPP2250	8+3	14,5	1000
DPP2500	8+3	14,6	1000
DPP3150	8+3	16,3	1250

Standard versions of belts with aramid cord

Belt grade	Elongation at the load, [%]	Top cover, thickness, [mm]	Bottom cover, thickness, [mm]	Overall belt thickness, [mm]	Weight, m2, [kg]
DP800	0,5	6	2	11,5	11
DP1000	0,5	6	2	11,5	11,1
DP1250	0,5	6	2	11,6	11,3
DP1600	0,5	6	2	12	12,9
DP1800	0,5	6	2	12,3	13,1
DP2000	0,5	8	3	14,5	15,9
DP2250	0,5	8	3	14,5	16,1
DP2500	0,5	8	3	14,6	16,3
DP3150	0,5	8	3	16,3	17

Top (working) rubber cover

Single-pile traction cord

Bottom (non-working) rubber cover

Steel cord belts

Steel cord belts are widely used in heavy operating conditions on long conveyors, especially at heavily loaded sections. The perfect balance of the tension of the cables ensures the stability of the belt and the absence of displacements.

The design of the steel cord belt allows one to combine the properties of strength and good transverse flexibility, that the belt trough properly. The use of additional breaker reduces the risk of longitudinal cuts and increases the service life of the belt

The structure of plies within a steel cord beit	
	Top (working) rubber cover
	Breaker (for belts with a breaker pile)
	Steel cables of the cord
	Bottom (non-working) rubber cover

Marking of standard flat and endless belts:

Product ID				
Name				
Belt Width				
Cord: ST – Steel cables				
Tensile strength				
Thickness of the top of	cover			
Breaker type (for texti S – Steel belt ply T – textile belt ply	le belts with	a breaker):		
The thickness of the b	ottom cove	r		
Cover grade: All grades of covers for	or general a	nd special use	belts are su	uitable
Total length of the bel	t (for endles	s belts)		

Splicing type (for endless belts)

Parameters of standard t	Parameters of standard textile belts*																				
Belt grade	ST500	ST630	ST800	ST1000	ST1250	ST1400	ST1600	ST1800	ST2000	ST2250	ST2500	ST2800	ST3150	ST3500	ST4000	ST4500	ST5000	ST5400	ST6300	ST7000	ST7500
Max. cable diameter, [mm]	3,0	3,0	3,5	4,0	4,5	5,0	5,0	5,6	6,0	5,6	7,2	7,2	8,1	8,6	8,9	9,7	10,9	11,3	12,8	13,5	15,0
Min. tensile strength, [mm]	7,6	7,0	8,9	12,9	16,1	20,6	20,6	25,5	25,6	26,2	40,0	39,6	50,5	56,0	63,5	76,3	91,0	98,2	130,4	142,4	166,7
Cable pitch, [mm]	14,0	10,0	10,0	12,0	12,0	14,0	12,0	13,5	12,0	11,0	15,0	13,5	15,0	15,0	15,0	16,0	17,0	17,0	19,5	19,5	21,0
Min. thickness of the covers, [mm]	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	5,0	5,0	5,5	6,0	6,5	7,0	7,5	8,0	10,0	10,0	10,0
Belt width, [mm]									Nu	Imber of cal	oles										
500	33	45	45	39	39	34	39	-	-	-	-	-	-	-	-	-	-	-	_	_	-
650	44	60	60	51	51	45	51	46	52	56	41	46	41	41	41	39	36	-	-	-	-
800	54	75	75	63	63	55	63	57	63	69	50	57	50	50	51	48	45	45	-	-	-
1000	68	95	95	79	79	68	79	71	79	86	64	71	64	64	64	59	55	55	-	-	-
1200	83	113	113	94	94	82	94	85	94	104	76	85	76	77	77	71	66	66	58	59	54
1400	96	133	133	111	111	97	111	100	111	122	89	99	89	90	90	84	78	78	68	69	64
1600	111	151	151	126	126	111	126	114	126	140	101	114	101	104	104	96	90	90	78	80	73
1800	125	171	171	143	143	125	143	129	143	159	114	128	114	117	117	109	102	102	89	90	83
2000	139	191	191	159	159	139	159	144	159	177	128	143	128	130	130	121	113	113	99	100	92
2200	153	211	211	176	176	154	176	159	176	195	141	158	141	144	144	134	125	125	109	110	102
2400	167	231	231	193	193	168	193	174	193	213	155	173	155	157	157	146	137	137	119	119	110
2600	181	251	251	209	209	182	209	189	209	231	168	188	168	170	170	159	149	149	129	129	120
2800	196	271	271	226	226	197	226	203	226	249	181	202	181	183	183	171	161	161	139	139	129
3000	210	291	291	243	243	211	243	218	243	268	195	217	195	195	195	183	172	172	149	149	139
3200	224	311	311	260	260	225	260	233	260	286	208	232	208	208	208	196	184	184	160	160	149



Belts for pipe conveyors

Pipe conveyors transport the material in a closed tube, which is formed by a belt. The edges of the belt are folded longitudinally from its straight state at the site of loading. As a result, a flexible pipe is formed. In the unloading area, the belt unfolds, releasing the material.

Since the combination of transverse elasticity and resilience is important for the pipe conveyor belt, the most common kinds Special breaker piles are used to give transverse elasticity and prevent the pipe from folding. The typical structure consists of a load-bearing cord and two symmetrical



Parameters of belts for pipe conveyors												
Belt width, [mm]	800	1000	1100		1300	1600	18	50	2250		2450	
External diameter of the conveyor, [mm]	218	282	308		361	457	54	3	640		728	
T2800	ST3150	ST3500		ST40	00	ST4500		ST5000		ST5	400	
6	8,1	8,6		8,9		9,7		10,9		11,3	}	
5	15	15		15		16		17		17		
	10	10		10		10		10		10		
	10	10		10		10		10		10		
cables												
0	50	50										
4	64	64		64		59		55		55		
9	69	69		69		65		61		61		
3	83	83		83		77		72		72		
01	101	104		104		96		90		90		
19	119	119		119		111		104		104		
45	145	145		145		137		125		125		
		. = 0										

of belts on such conveyors are steel cord belts. As an alternative to cables, a cord made of aramid cord can be used			e breaker piles the preventio	breaker piles around it. Transportation in a closed pipe allows the prevention of material loss (e.g. from spillage, blowing					Parameters of belts for pipe conveyors								
			or dust forma	tion). sport (up to 30 (degrees) and con	vevor turns		Belt width, [mm]	800	1000 11	100	1300	1600	1850	2250	2450	
			are allowed. transportatior in the conveyo	It is possible n route with a pr.	to organize a scents, inclines	continuous and turns		External diameter of th conveyor, [mm	218 e]	282 30	08	361	457	543	640	728	
Standard range of textile belts for pipe conveyors																	
Tensile strength, [N/mm]	ST630	ST800	ST1000	ST1250	ST1600	ST2000	ST2500	ST2800	ST3150	ST3500	ST40	000	ST4500	ST5000	Ş	ST5400	
Nominal cable diameter, [mm]	3	3,5	4	4,5	5	6	7,2	7,6	8,1	8,6	8,9		9,7	10,9		11,3	
Cable pitch, [mm]	10	10	12	12	12	12	15	15	15	15	15		16	17	1	17	
Thickness of the top cover, [mm]	6	6	6	6	8	8	8	8	10	10	10		10	10		10	
Thickness of the bottom cover, [mm]	6	6	6	6	8	8	8	8	10	10	10		10	10		10	
Belt width, [mm]							Number	of cables									
800	75	75	63	63	63	63	50	50	50	50							
1000	95	95	79	79	79	79	64	64	64	64	64		59	55	į	55	
1100	105	105	87	87	87	87	69	69	69	69	69		65	61	e	61	
1300	124	124	103	103	103	103	83	83	83	83	83		77	72	-	72	
1600	151	151	126	126	126	126	101	101	101	104	104		96	90	ġ	90	
1850	177	177	147	147	147	147	119	119	119	119	119		111	104		104	
2250			181	181	181	181	145	145	145	145	145		137	125		125	
2450			197	197	197	197	158	158	158	158	158		148	139		139	

Integrity in details

Chevron belts

Chevron belts are designed for moving bulk, lump and piece loads on an inclined plane. Depending on the height of the chevrons, transportation is possible at an angle of up to 450 degrees.

Chevrons are projections on the surface of the belt that can be up to 35 mm in height. The shape and height of the protrusions depends on the chevron profile. The belt has chevrons along its entire length, but the width of the chevron may differ from the width of the belt.

Marking of chevron belts:

402000***** TEXTILE BELT 1200 EP 630/4-6+2-W CHEVRON U25 Product ID Name Belt width: Standard width range 500-3200 mm Cord: EP - Polyester-polyamide textile Tensile strength: Tensile strength: Tensile strength of the 200-3150 N/mm The thickness of the top cover The thickness of the bottom cover Cover grade All grades of covers are suitable for standard and special grade belts Sign of a chevron presence

Chevron profile

Chevron belt pattern





Chevron patterns and parameters



CryptoningCryptoningCryptoning650200650-1000800200850-1200600200800-1200650200650-10001200200650-1000550200550-1000800300850-1200550200550-1000800300850-1200420150500-1000700250700-1200300146400-1200300256500-1000700250700-1200300146400-1200400256500-1000520200600-1000580250600-1000580250600-1000580250800-1200750250800-1200600350700-100050200300-1200750250800-1200600350700-100080300-1000600350700-1000800300600-1200600-140076600-1400700700800-1200500350600-1200501350650-1000500350650-1000500350650-1000500350650-1000500350650-1000500350650-1000500350650-1000500350650-1000500350 <td< th=""><th>CW [mm]</th><th>CP [mm]</th><th>BW [mm]</th></td<>	CW [mm]	CP [mm]	BW [mm]
300200600 1000800300600-10007002207.50-10001200200800-12006502006.50-10005302005.50-1000800300850-12005502005.50-1000800300850-1200420150500-1000700250700-1200300146400-1200300256500-1000300256500-1000300256500-1000520200600-1000580250600-1000500250600-1000501250600-1000501250600-1000500250600-1000500250600-1000500250300-1000600350700-1000600350700-1000600350700-1000600350700-1000600350700-1000600350700-1000600350500-200600-140076600-1400700700800-1200600-1400700600-1200700350650-1000700350650-1000700300650-1000700300650-1000700300650-1000700300650-1000700300650-1000700300 </td <td>650</td> <td>200</td> <td>650-1000</td>	650	200	650-1000
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450330500-1200550330600-1200750330800-1200630330800-1000580330700-1000	540	181.0	600-1200
550 330 500-1200 550 330 600-1200 750 330 800-1200 630 330 800-1000 580 330 700-1000	450	330	500-1200
750 330 800-1200 630 330 800-1000 580 330 700-1000	550	330	600-1200
630 330 800-1200 580 330 700-1000	750	330	800-1200
580 330 700-1000	630	330	800-1200
300 330 /00-1000	580	330	700-1000
630 320 750 1000	630	330	750-1000
750 330 850-1400	750	330	850-1400

Corrugated sidewall belts

In the production of corrugated sidewall conveyor belts, Element uses cleats reinforced with piles of textile with large base areas and those that have an increased resistance to abrasion.

The corrugated sidewall is reinforced with a diagonal textile, and thanks to a special rubber formula, greater elasticity is achieved.

Strong and powerful cleats

reinforcement and wide bases

with double textile

Advantages of using corrugated sidewall belts

Powerful transversely rigid base belt based on EP and XE textiles

- An elastic corrugated sidewall guarantees more than 2 million bending cycles













on EP or EE textiles with two transversely rigid piles of the XE textile



XST - basic textile belt with cross piles of the XE textile

Description of the XE textile



General view of the XE textile

The special XE textile is the standard modern solution of leading European manufacturers when looking to attain transverse rigidity of cleat belts with corrugated sidewalls.

Grades of cleats

Image of a cleat	Crada		6\/ [mm]	Moight [kg/m]	Min nullov diamator [mm]
Inage of a cleat	Glade		3 V, [ITIIT]	1 4E	
		35	100	1,45	125
	С	/5	100	2,00	150
		90	110	2,81	250
		110	110	3,27	315
		55	100	1,61	125
		75	100	2,20	150
		90	110	2,70	250
	т	110	110	3,23	315
		140	160	5,49	400
		180	160	6,67	500
		230	160	8,60	630
		55	75	1,13	125
		75	100	1,82	150
		90	110	3,22	250
		110	110	3,94	315
	тс	140	150	5,49	400
		180	150	6,81	500
		230	160	8,68	630
		270	180	14,37	800
		280	180	14,90	800
		230	160	13,80	630
		280	160	15,30	800
	TCS	360	230	22,80	1000
		470	230	30,80	1250

Integrity in details



Detailed view of the XE monofilament textile

The elasticity of the monofilaments and their placement in the transverse pile gives maximum rigidity to the belt in the transverse direction while minimally affecting its flexibility in the longitudinal direction. This allows the belt to easily pass through areas of kinks when changing the horizontal movement to vertical and back without the formation of swellings, deflections, jams and lateral displacements.

Geometric parameters of the corrugated sidewall belt



BW – Belt width	SH – Height of the co	rugated sidewall	SP – Wave pitch of the corrugated sidewall	SB – Sidewall base width
CH – Cleat height	CP – Cleat pitch	CW – Cleat width	FS – Free space of the corrugated sidew	all from the edge of the beli

Grades of corrugated sidewall

		SH, [mm]	SB, [mm]	ST, [mm]	SP, [mm]	Weight per unit m, [kg]
		40	30	20	25	0,45
		60	50	45	40	1,38
	N (NF, NBF)	80	50	45	40	1,70
		100	50	45	40	2,00
		120	50	45	40	2,65
		120	75	65	63,5	3,20
		160	75	65	63,5	4,20
		200	75	65	63,5	5,02
	S (SF, SBF)	240	75	65	63,5	7,50
		250	75	65	63,5	7,80
		280	75	65	63,5	8,70
		300	75	65	63,5	9,40
		300	100	90	83	10,10
	ES (ESF, ESBF)	400	100	90	83	14,80
		500	105	95	89	19,10

N, S, ES – non-reinforced NF, SF, ESF – reinforcement with diagonal textile NBF, SBF, ESBF –reinforcement with textile fibers



Integrity in details

Belt packaging



Designation: R

Name: Roll

Description: round roll

Comments: standard diameter of up to 2.1 m. Exceeding the standard diameter leads to a significant increase in the cost of delivery and, as a result, the cost of the belt.





Designation: OV

Name: Oval

Description: oval-shaped roll

Comments: this kind of winding is used to reduce the height of the roll. It also allows one to accommodate a larger length of belt in comparison with the winding of a round roll, thereby ensuring delivery by a standard container.





Designation: GL

Name: Glasses

Description: the belt is twisted into two rolls and resembles a classic cassette

Comments: a specialized kind of winding that allows one to adapt the belt to special grades of unwinder while reducing the height of the load.



1

Designation: SR

Name: Steel Reel

Description: roll in steel crate

Comments: used for heavy belts or when rigid packaging has been requested.



Designation: SRo

Name: Steel Ovar Reel

Description: oval roll in a steel crate

Comments: used for heavy belts or when rigid packaging has been requested.

Element Technical Support

Individualized belt selection

Sometimes, there is a need for a different grade of belt or one with different parameters. If necessary, Element's specialists can select and recommend a more suitable grade of belt for a specific situation. Questionnaires have been developed to speed up the selection process.

A network of regional representative offices in Russia and Finland

We are always located in close proximity to the customer while feedback allows us to quickly resolve all issues. To this end, Element has developed a system of representative offices and warehouses in Europe, Russia, the CIS countries and China.

An in-house design department

Our own engineering service prepares the necessary technical documentation in accordance with international quality standards. We develop innovative products and promptly upgrade parts based on our own practical developments.

Warranty support for products

Element provides full warranty support for products, quickly identifying the cause of the problem. We're always making the necessary improvements to ensure the production of consistently high-quality parts.

The provision of technical support

Element's service department provides technical analysis and operational auditing for equipment, offers solutions for the technological adjustment of machines to increase operational efficiency, and optimizes the customer's inventory.

Warehouse program

Knowledge of the market's needs and a deep analysis of the statistics of consumption and turnover of the nomenclature has allowed us to create a warehouse program to meet the needs of customers in a timely manner.



Element Group

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