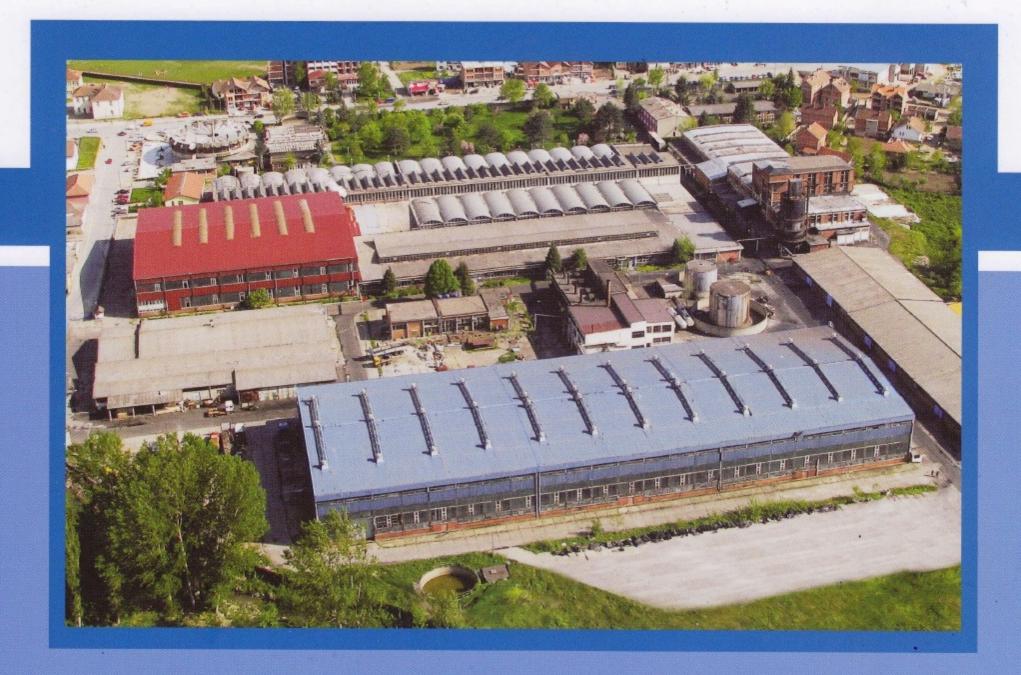
COMPETOR BEILTS

NewkoBalkan[®]L.L.C



NewkoBalkan[®]L.L.C

Formerly known as Balkan Belt-Suhareke, Newko Balkan LLC has established in 2005 upon Ozerler Group of Companies' purchasing out of privatization. As a rubber industry integrated plant, Newko Balkan LLC constitutes of 6 production units: conveyor belts, V-belts, conveyor belt fabrics, technical rubber parts, rubber compounding, and rubber boots & shoes. Located in Suhareke-Kosovo, Newko Balkan has 155.107 m2 open area and 58.000 m2 closed area.

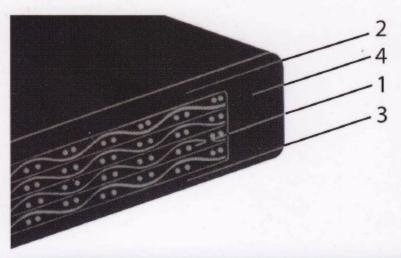
Conveyor belt unit produces textile reinforced conveyor belts, using its own conveyor belt fabrics. Respect to current capacity report, annual belt production capacity is 619.580m with its 7 presses, and rubber compound production annual capacity is 7.550 ton. Newko Balkan LLC is capable of producing textile reinforced conveyor belts up to 3200 mm. Moreover, we produce steel cord reinforced conveyor belts in the classes of nominal strength up to ST-5000 with the width up to 2200 mm. Producing all our belts according to international norm with ISO 9001 certificate.

CONVEYOR BELTS PRODUCTION

- General purpose conveyor belts (Textile and steel cord reinforced)
- Conveyor belts for special purposes
- Elevator conveyor belts
- Conveyor belts with patterned top thread structure
- Conveyor belts with ribbed to thread
- Drum rubber casings, rubber wipers and directional rubber products and accessories
- Flat conveyor belts

ELEMENTS OF RUBBER CONVEYOR BELTS

- Suport structure carcass
- 2. Top rubber cover
- 3. Bottom rubber cover
- 4. Rubber protective edge



SUPPORT STRUCTURE - CARCASS

The support structure - carcass is made of several layers (inlays) of regularly spaced and pressed rubberized fabric, in order to accept the total pulling force of the conveyor belt.

In the production of rubberized fabrics, we are capable of producing the following types of fabrics:

- EP (polyester warp, polyamid weft)
- PA (polyamide warp, polyamide weft)
- · EE (polyester warp, polyester weft)

Fabric type	Fabric type
EP/PA/EE-80	EP/PA/EE-315
EP/PA/EE-100	EP/PA/EE-400
EP/PA/EE-125	EP/PA/EE-500
EP/PA/EE-160	EP/PA/EE-630
EP/PA/EE-200	PA-700
EP/PA/EE-250	-

RUBBER COVER

Top and bottom rubber covers protect the suport structure from mechanical damages, wear and tear during the transport of materials. The top rubber covers are usually made of rubber with the following physical and mechanical properties:

Type of cover		Tensile strengths Min(Mpa)	Elongation At Break (%) min	Abrasion Resistance (mm³) max
DIN 22102	EN ISO 14890	TS	EB	AR
W (AA)	D	18	400	90
X (M)	Н	25	450	120
Y (N)	-	20	400	150
Z (P)	L	15	350	250

RUBBER PROCTECTIVE EDGES

The rubber protective edges due to side shocks protect the support structure of conveyor belts from mechanical damage.

SIZE OF CONVEYOR BELTS

The sizes of conveyor belts correspond to DIN 22102 and ISO 251

- Width ranges from 200 to 3,000 mm;
- Length is not standardized and is maximum length of a conveyor belt in one section is limited by its proper weight and the diameter of the pulling roll or drum. This length ranges between 100 and 300 m, and the most frequently use length is 200 m.
- Thickness ranges from 4 to 30 mm.

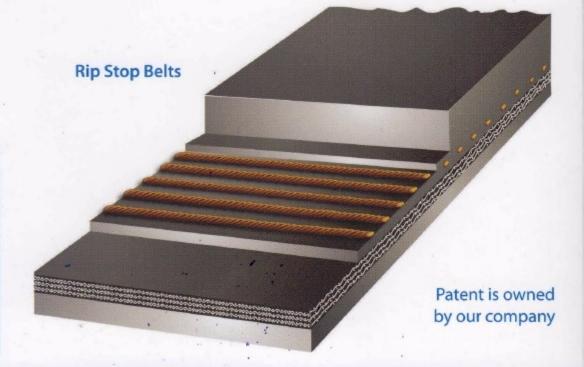
CONTRUCTION MODELS

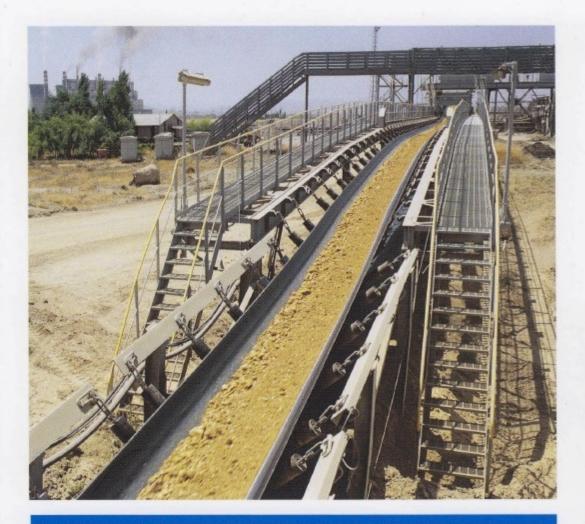
- 1. Conveyor belts with protective edges
- 2. Conveyor belts with steel breakers
- 3. Conveyor belts with middle protective rubber layer (skim)

Beside the conventional model of conveyor belt with protective edges, we produce rip stop belts.

The protective inserted piece (breaker) protects the support structure (carcass) from mechanical damage and may be located on the top & bottom or on the top only.

Conveyor belt model with inserted protective rubber piece (skim), placed between each inserted piece, is also used to dampen all mechanical shocks encoutered during operation.





GENERAL PURPOSE CONVEYOR BELTS

The general purpose conveyor belts have rubber covers which are made to sustain any operating conditions.

Environment operating temperature -25 to + 60°C

Temperature of transported material: up to +60°C

For the transport of all potentially damaging material the standard types of rubber covers are W(D), X(H), Y and Z(L). Their properties are given in the table listing the properties of rubber covers.

REGULAR QUALITY CONVEYOR BELTS

Applied standards: DIN 22102 - EN ISO 14890

These conveyor belts are suitable for transport of various materials classified as wearing and low-wearing: coal, kaolin, lime, cement, clay, sand, gravel, salts, soil, granulated materials, wheat, wood shavings etc.

ANTI ABRASION CONVEYOR BELTS

Applied standards: DIN 22102 - EN ISO 14890

These conveyor belts with rubber covers of X(H) and W(D) types are more

resistant to large tension and wear than the Y and Z(L) quality conveyor belts. They are suitable for transport of materials classified as highly wearing, e, g, quartz, stone, glasse, pyrite, iron materials, zinc, slag,



Clay Belt 1800 mm/ST 2500

FLAME RESISTANT BELTS

These conveyor belts with their fire-proof, respectively self extinguis hing and anti-static properties are specially produced for use at locations with high fire hazard. They are not self-igniting, and if ignited they exercise their self-extinguishing capability. The rubber covers are made of specially treated rubber.

The physical and mechanical properties in the Y and Z (L) quality class: Mark of extra quality(DIN 22103):

K- fire-resistant with rubber cover, able to discharge static electricity S-fire-resistant with and without rubber cover, able to discharge static electricity.



Underground Mine Belt 1200 mm/ST 1000

HEAT - RESISTANT CONVEYOR BELTS

Mark of extra quality:T

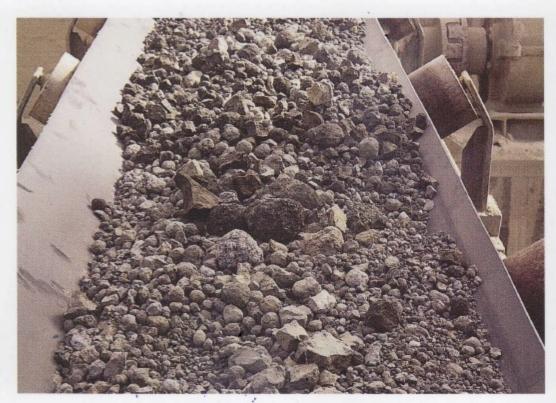
These conveyor belts are used for transport of hot materials with temperatures exceeding 60°C.

The physical and mechanical properties of the rubber cover correspond to Z (L) quality class.

Depending on the temperature, variations T1 or T2 are used. In transport of materials in pieces the following possibilities are provided:

T1- maximal material temperature 120°C

T2- maximal material temperature 200°C



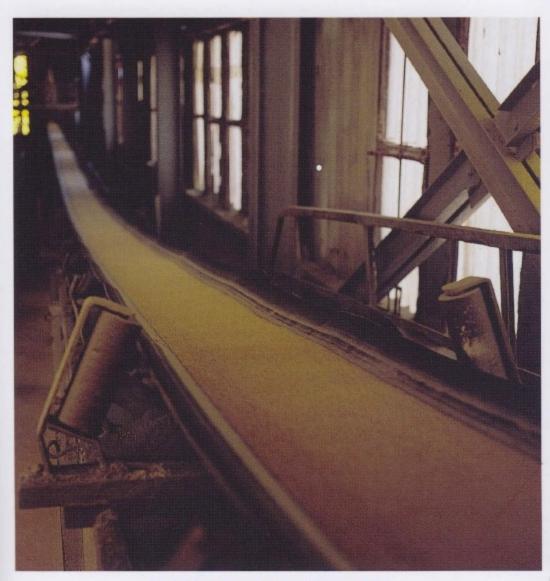
Clinker Belt 650 mm /EP 630

OIL RESISTANT CONVEYOR BELTS

Mark of extra quality:G

These conveyor belts are used for transport of materials containing oil and grease.

The physical and mechanical properties of the rubber cover correspond Y and Z (L) quality class.



Oily Fertilizer Belt 650 mm/EP 500

CONVEYOR BELTS WITH CAST RIBS

The conveyor belts with cast ribs and made in widths ranging from 350 up to 1,000 mm, with ribs spaced at 146, 219 and 328 mm, and rib heights of up to 15 mm.





BED SHAPED CONVEYOR BELTS

The bed-shaped conveyor belts are used wherever higher transport capacity and higher angles (up to 700) of transport are required. This type of conveyor belts is also used in bed-shaped transport systems. The bed-shaped conveyor belts are made as two section or three section types with T-profile ribs, while the shape of the sides is always adjusted so as to enable the correct dosing of individual bed shaped sections of the conveyor belt.



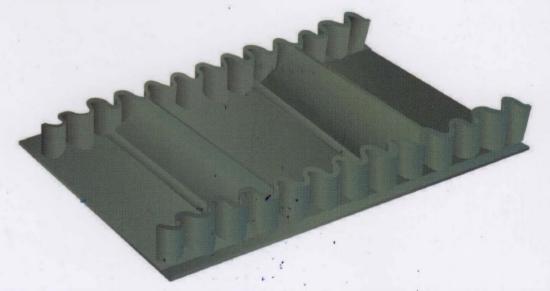


BASIC SELECTION GUIDE FOR CARCASS CONSTRUCTIONS BY NEWKO BALKAN

Strength Class	Carcass construction	Tersile Strenght da/N cm min	Carcass wt.w/out cover applox kg/m²	Carcass thickness w/out cover approx mm.
EP-160/2	2x EP-80	160	1.90	1.80
EP-200/2	2x EP-100	200	2.00	2.00
EP-250/2	2x EP-125	250	2.20	2.10
EP-315/2	2x EP-160	315	2.50	7.30
EP-315/3	3x EP-125		3.40	3.15
EP-400/2	2x EP-200	400	3.30	2.90
EP-400/3	3x EP-125		3.40	3.15
EP-500/2	2x EP-250	500	4.40	3.30
EP-500/3	3x EP-160		3.80	3.45
EP500/4	4x EP-125		4.50	4.20
EP-630/2	2x EP-400	630	5.00	3.70
EP-630/3	3x EP-200		5.00	4.35
EP-630/4	4x EP-160		5.00	4.60
EP-630/5	5x EP-125		5.60	5.25
EP-800/2	2x EP-400	800	5.90	5.10
EP-800/3	3x EP-250		6.60	4.95
EP-800/4	4x EP-200		6.70	5.80
EP-800/5	5x EP-160		6.30	5.75
EP-1000/2	2x EP-500	1000	6.80	6.30
EP-1000/3	3x EP-315		7.40	5.55
EP-1000/4	4x EP-250		8.80	6.60
EP-1000/5	5x EP-200		8.30	7.25
EP-1250/3	3x EP-400	1250	8.80	7.67
EP-1250/4	4x EP-315		9.90	7.40
EP-1250/5	5x EP-250		11.00	8.25
EP-1600/4	4x EP-400	1600	11.80	10.20
EP-1600/5	5x EP-315		12.40	9.25
EP-2000/4	4x EP-500	2000	13.70	12.60
EP-2000/5	5x EP-400		13.70	12.75
EP-2500/4	4x EP-630	2500	14.70	14.20
EP-3150/5	5x EP-630	3150	18.40	17.75

RIBBED CONVEYOR BELTS

In operations of transport of materials at a high incline, we recomend the use of ribbed conveyor belts, which prevent sliding and allow the transport of larger quantites of materials. The classification of ribbed conveyor belts is somewhat difficult, and can be best illustrated as follows.

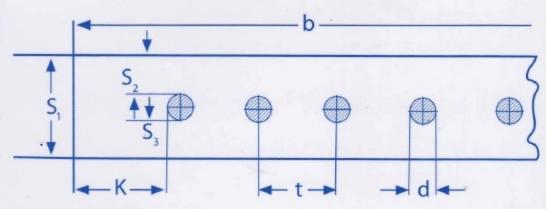


RUBBER COVER

The conveyor belts with steel cords are suitable for the conveyors for transportation on long distances under difficult transporting conditions. The basis of the conveyor belts with steel cords is a carcass of steel cords with a protective layer over it. The carcass is protected from damaging with top and bottom rubber covers as well as with protective rubber edges.

The advantages due to which these belts are in application are the following:

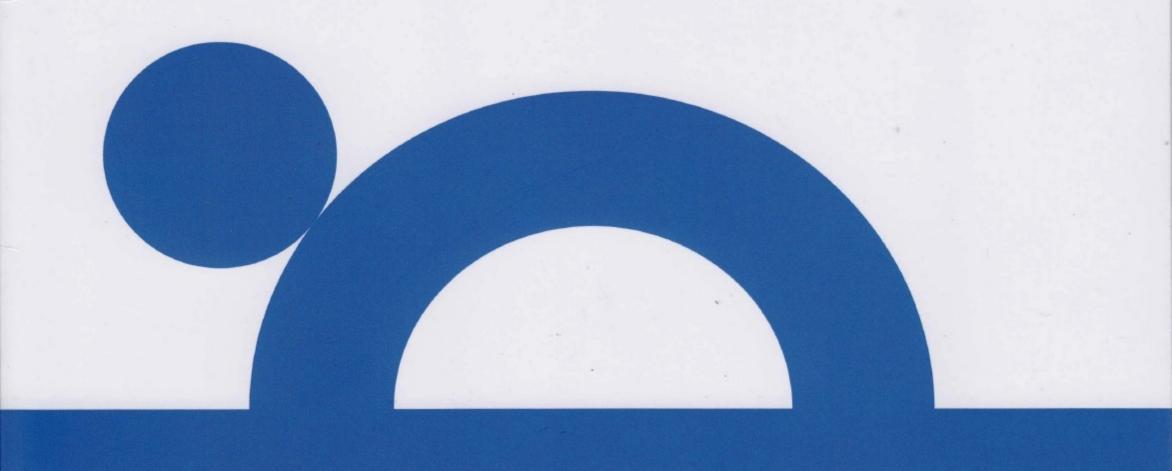
- · Long life of exploitation
- Low elongation
- High tensile strength
- Troughability
- Long span conveyor
- Small pulley diameter

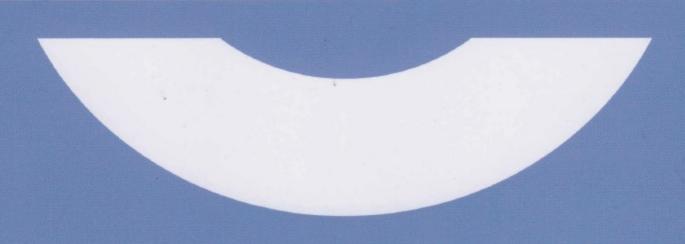


- t cord pitch
- d cord diameter
- S, thickness of the belt
- K edge rubber
- b belt width



TS EN ISO 15236																			
TYPE OF BELT	UNIT	200	630	800	1000	1250	1400	1600	1800	2000	2250	2500	2800	3150	3500	4000	4500	2000	5400
Min Breaking strength K _{Nmin}	N/mm	500	630	800	1000	1250	1400	1600	1800	2000	2250	2500	2800	3150	3500	4000	4500	5000	5400
Max. Cord Diameter d _{max}	mm	3	3	3,7	4,2	4,9	5	5,6	5,6	5,6	5,6	7,2	7,2	8,1	8,6	8,9	9,7	10,9	11,3
Min. Breaking Load of the Cord F _{bsmin}	KN	7,6	7,6	10,3	12,9	18,4	20,6	26,2	25,5	25,5	26,2	39,7	39,7	50	55,5	63,5	75	90,3	96
Cord Pitch t	mm	14	11	12	12	14	14	15	13,5	12	11	15	13,5	15	15	15	16	17	17
Min Thickness of Covers S _{min}	mm	4	4	4	4	4	4	4	4	4	4	5	5	5,5	6	6,5	7	7,5	8
Belt width B im mm	Tole- rance in mm									Numbe	er of Cor n	rds,							
500	+10/-5	33	42	39	39	34	34	31	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
650	+10/-7	44	54	51	51	45	45	41	46	52	56	41	46	41	41	41	39	36	n/a
800	+10/-8	54	68	64	63	55	55	50	57	64	69	51	57	51	51	51	48	45	45
1000	±10	68	84	80	80	68	68	63	71	80	86	63	71	63	- 64	63	60	56	57
1200	±10	86	110	97	97	82	82	76	85	96	104	76	85	76	76	76	72	67	68
1400	±12	96	124	114	113	97	97	90	100	112	122	89	99	89	89	89	84	79	79
1600	±12	111	142	130	130	111	.111	103	114	129	140	102	114	102	102	102	96	90	90
1800	±14	125	160	147	147	125	125	116	129	145	159	116	128	116	116	116	108	102	102
2000	±14	139	177	164	163	140	139	130	144	162	177	129	143	129	129	129	121	114	114
2200	±15	153	195	180	180	154	154	143	159	179	195	142	158	.142	142	142	133	126	126
2400	±15	167	213	197	197	168	168	156	174	195	213	156	173	156	156	156	146	137	137
2600	±15	181	231	214	213	182	182	170	189	212	231	169	188	1,69	169	169	158	149	149
2800	±15	196	249	230	230	197	197	183	203	229	249	182	202	182	182	182	171	161	161
3000	±15	210	267	247	247	211	211	196	218	245	268	196	217	196	196	196	183	173	173
3200	±15	224	286	264	263	225	225	210	233	262	286	209	232	209	209	209	196	184	184





NewkoBalkan L.L.C

FACTORY:

Rruga e Deshmoreve No:105 23000 Suhareke - Kosova Tel: + 381 29 271 442

Fax: + 381 29 271 478

ISTANBUL OFFICE:

Çayır Çimen Sok. Emlak Blokları A1 Blok Kat: 4 Daire: 19 Levent / Istanbul , Turkey Tel : +90 212 264 05 39

Fax: +90 212 264 05 40

e-mail: info@newkobalkan.com

Web: www.newkobalkan.com