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## CORPORATE PROFILE

Vasco is the first company in the bulk goods industry to offer a truly integrated one-stop shopping experience. Vasco delivers the best state of the art Asian quality manufacturing as well as well-known global brands produced in Europe and North America. Customers can chose from a wide range of products, countries and brands—based on their needs and requests. Vasco's product portfolio includes conveyor belts, wear production, repair materials, conveyor components and tools.

Based in the heart of Shanghai and Hong Kong, Vasco delivers high quality products to the world. A stable and reliable quality is Vasco's highest priority. Therefore, a two-step quality control system has been developed, which is taking part in the factories itself and in Vasco's own laboratory which is equipped with the latest technology.

Understanding customer needs and transforming them into a unique offering is Vasco's mission and results in core benefits, such as extended product guarantee, regional stocks as well as flexible payment terms.

The current client structure ranges from medium-sized to multinational companies within the bulk goods industry. Vasco is a partner to regional trading and service companies.

Read more about Vasco's benefits and customer service at: [www.vasco-global.com](http://www.vasco-global.com)



## **CONVEYOR BELTS**

Textile Conveyor Belts, Chevron Conveyor Belts, Rough Top Conveyor Belts, Corrugated Sidewall Conveyor Belts, Pipe Conveyor Belts, Bucket Elevator Conveyor Belts, Rip Stop Conveyor Belts, Fire Resistant Conveyor Belts, Abrasion Resistant Conveyor Belts, Oil and Fat Resistant Conveyor Belts, Heat Resistant Conveyor Belts, Cold Resistant Conveyor Belts, White Conveyor Belts, Steel Cord Conveyor Belts, Filtration Belts, Solid Woven Conveyor Belts (PVC/PVG), Self-Cleaning Conveyor Belts, Magnetic Separator Belts, Light Duty Conveyor Belts, SW & CFW Conveyor Belts

## TEXTILE CONVEYOR BELTS

Textile conveyor belts are used in many industries. The textile conveyor belt consists of three parts: Cover rubber, carcass and skim coat. The cover rubber is a special rubber compound that can be tailor-made for various applications, such as abrasion resistance, heat resistance, cold resistance, acid resistance, oil resistance, fire resistance and many more.

Extra layers of skim rubber are in between the textile layers to ensure the adhesion force of the conveyor belts. Vasco delivers highest quality of rubber cover, carcass as well as skim coat. Therefore Vasco's textile conveyor belts have an outstanding performance, low initial elongation and high tensile strength.

Vasco offers a wide range of textile fabrics, such as EP, PP, NN, CC, Straight Warp and Kevlar. Depending on the applications, Vasco's belt carcass has a single or multiply textile, dipped EP fabric which is the most widely used textile carcass material. It is suitable for long distance conveying with high load, speed and impact. In addition it is waterproof against moisture and mildew.

THE COMMON COVER RUBBER GRADES FOR STANDARD CONVEYOR BELTS ARE ACCORDING TO DIN 22102 AS FOLLOW:

Grade	W	X	Y	Z
Tensile Strength	≥18 Mpa	≥25 Mpa	≥20 Mpa	≥15 Mpa
Elongation at break	≥400%	≥450%	≥400%	≥350%
Abrasion	≤90 mm <sup>3</sup>	≤120 mm <sup>3</sup>	≤150 mm <sup>3</sup>	≤250 mm <sup>3</sup>

Belt strength (N/mm)	Textile Type	Suitable ply	Cover thickness (mm)	Ply thickness (mm)	Ply (kg/m <sup>2</sup> )
200-800	EP100	2-8	0-30mm	1	1.3
315-1250	EP150	2-8		1.1	1.4
400-1500	EP200	2-8		1.2	1.5
500-2000	EP250	2-8		1.35	1.7
500-2000	EP300	2-8		1.45	1.8
630-2500	EP400	2-7		1.75	2.1
800-3000	EP500	2-7		1.9	2.5

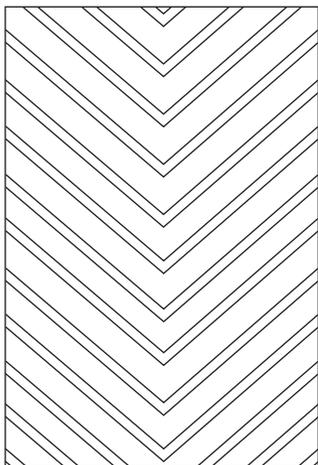
# CHEVRON CONVEYOR BELTS

Bulk material cannot be transported on flat conveyor belts at steep angles. Chevron conveyor belts will be used for this purpose. These belts with special profiles convey products smoothly even if the slope is 30° to 45°. Vasco offers a wide selection of chevron belt profiles, ranging from cleat height of 5mm to 32mm and in all kinds of profile shapes, such as open V, closed V, Y and C.

The quality of the cover rubber and cleats can be adjusted to the customers' requirements; for instance in oil and fat resistance, heat resistance, fire resistance and many more. Vasco is also happy to open new moulds for customers with special requests.

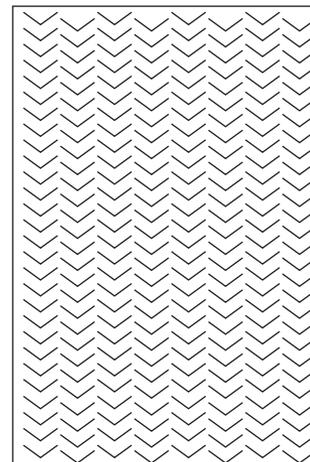
Vasco chevron belts can be found in the recycling industry, cement plants, agriculture, quarries and many more.

## CLOSED V (C5)



Chevron Height (mm)	Chevron Width (mm)	Chevron Pitch (mm)	Belt Width (mm)
6	As belt	100	400-1200

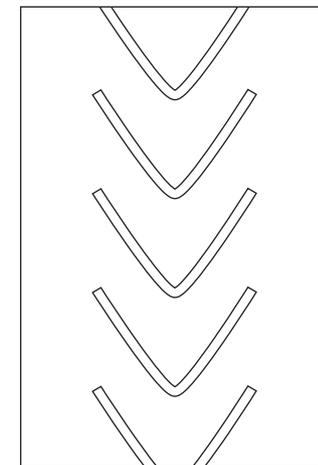
## MULTI V



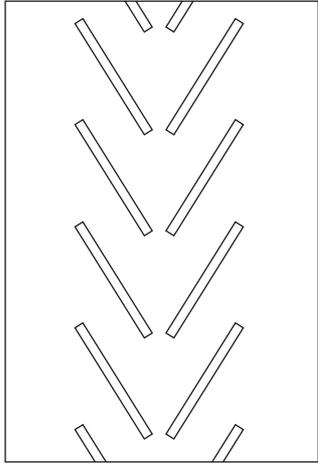
Chevron Height (mm)	Chevron Width (mm)	Chevron Pitch (mm)	Belt Width (mm)
6	As belt	76	600-1400

## CLOSED V (C15P330/C15P440)

Chevron Height (mm)	Chevron Width (mm)	Chevron Pitch (mm)	Belt Width (mm)
15	330	250	400-800
	440	300	500-1000



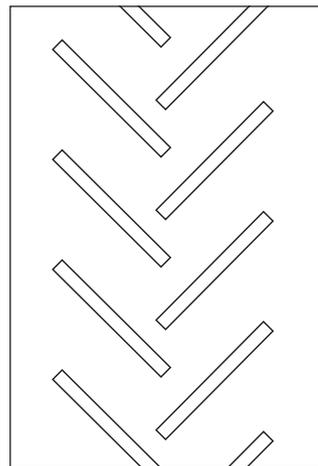
OPEN V (C15P 300/380/  
450/600/750)



Chevron Height (mm)	Chevron Width (mm)	Chevron Pitch (mm)	Belt Width (mm)
15	300	146	400-550
	380	250	450-850
	385	250	400-1000
	450	225	600-650
	600	328	700-1200
	600	250	650-1000
	750	250	800-1200

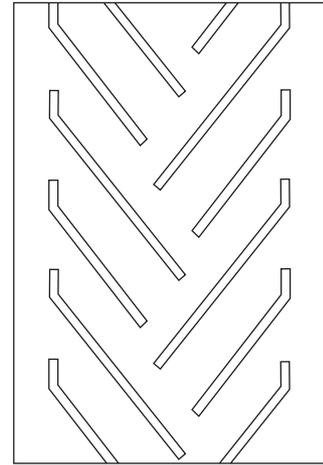
C127 (C127P914)

Chevron Height (mm)	Chevron Width (mm)	Chevron Pitch (mm)	Belt Width (mm)
12.7	914	200	1000



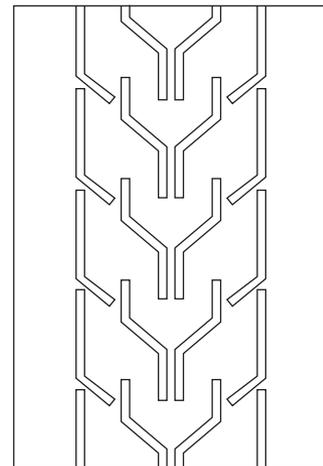
Y15 (Y15P750)

Chevron Height (mm)	Chevron Width (mm)	Chevron Pitch (mm)	Belt Width (mm)
15	750	300	900-1000



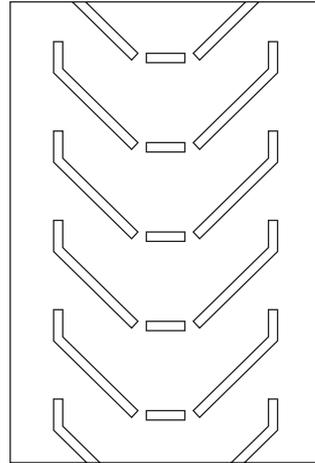
Y17 (Y17P300/440/550/ 630/  
750/950)

Chevron Height (mm)	Chevron Width (mm)	Chevron Pitch (mm)	Belt Width (mm)
17	300	330	400-800
	440		500-1000
	550		600-1000
	630		700-1000
	750		800-1200
	950		1050-1400



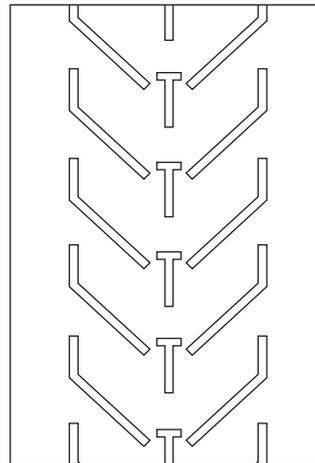
### C25 (C25P450/550/750)

Chevron Height (mm)	Chevron Width (mm)	Chevron Pitch (mm)	Belt Width (mm)
25	450	330	500-1000
	550		600-1000
	750		850-1200
	785		800-1200

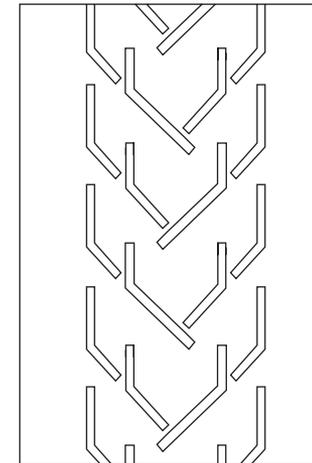


### CT25 (CT25P450/CT25P550)

Chevron Height (mm)	Chevron Width (mm)	Chevron Pitch (mm)	Belt Width (mm)
25	450	250	500-800
	550		600-1200
	450	330	600-800
	550		600-800



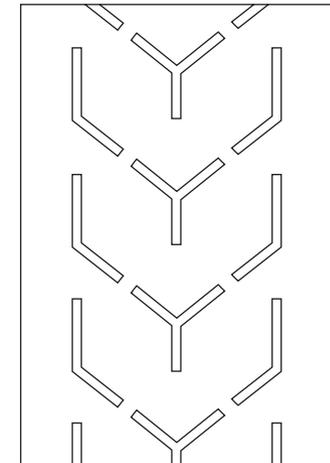
### C32 (C32P460/580/630/750)



Chevron Height (mm)	Chevron Width (mm)	Chevron Pitch (mm)	Belt Width (mm)
32	460	330	550-1000
	580		650-1000
	630		700-1000
	750		850-1400

### Y32 (Y32P450/600/800)

Chevron Height (mm)	Chevron Width (mm)	Chevron Pitch (mm)	Belt Width (mm)
32	450	255	500-800
	600	330	700-1000
	800		900-1200



## ROUGH TOP CONVEYOR BELTS

Rough top conveyor belts—also known as super grip or grip top belts—are designed for light duty material in lumps or packages, such as boxes or bags. The belt surface has an anti-slip top cover rubber surface that prevents goods from slipping and absorbs the impact on goods at the same time. Additionally the packed goods can be transported with an inclination of up to 30°.

Vasco offers rough top conveyor belts in various rubber compound qualities and in different colours, such as black or beige. The maximum production width is 2,000mm. The rough top conveyor belt can also be produced as a sliding belts meaning no rubber on the bottom cover side.

Vasco rough top conveyor belts can be found at airports, theme parks, logistic centres or breweries.

## CORRUGATED SIDEWALL CONVEYOR BELTS

Corrugated sidewall conveyor belts can run both horizontally and vertically and helps heavy duty conveying systems to save space as well as investment costs. Vasco sidewall belts are of highest quality: Sidewall and cleats are hot vulcanized to the base belt. Compared to the traditional cold bonding methods, hot vulcanizing ensures strong adhesive force between the components and the belt and therefore a much longer life of the product.

Corrugated sidewall conveyor belts are tailor-made products. Depending on the clients' request, Vasco sidewalls and cleats can be reinforced with diagonal fabric and bolted together. This fabric layer provides an excellent tear resistance while simultaneously allows the sidewall's flexibility. The base belts are usually cross rigid. Under normal conditions Vasco uses XE-layer reinforcement, however metal breaker with cross rigid character can also be applied in various specifications. Vasco offers a large portfolio of possible combinations of cleats and sidewalls in height up to 500mm.

Vasco corrugated sidewall conveyor belts can be found at power plants, quarries, in the mining industry and many more.

## PIPE CONVEYOR BELTS

Pipe conveyor belts are widely used as an efficient way of transporting bulk materials. It is a modern and environmental friendly transport system, solving numerous problems associated with conventional conveyor system, such as spillage of materials, steep incline and curve layout of the construction. Pipe conveyor belts also help to transport difficult materials like powder. The tubing flexibility is most important and can be achieved by a special layer design.

Vasco supplies high-end pipe conveyor belt solutions and supports with dimensioning the right belt structure. Vasco pipe conveyor belts can be found at cement plants, in the mining industry and many more.

## BUCKET ELEVATOR CONVEYOR BELTS

Bucket elevator belts are designed to transport bulk material in areas with limited space. These belts are operating vertically and therefore safety has the highest priority. Vasco bucket elevator conveyor belts are produced strictly to the highest quality standards and are available with textile layers or steel cord inlays. Vasco uses special tear resistant polyester canvas or steel cord tear resistant layers with high strength and low elongation. Clients can also choose from a wide range of cover rubber qualities, such as heat resistant, fire resistant, oil and fat resistant and many more.

Special designs according to customers' specifications can be realized any time. The elevator belts can be delivered ready-to-install including mechanical fasteners, bucket protection sheets as well as punched holes for bucket installation.

Vasco bucket elevator conveyor belts can be found at cement plants, in the chemical mining industry, the food and agricultural sector and many more.

## RIP STOP CONVEYOR BELTS

Rip stop conveyor belts are used where the impact of goods under rough conditions could easily cause belt damages. The steel layer is a cutting protection layer. Vasco rip stop belts consists of one or more steel breakers on top of the EP carcass. All common cover rubber qualities can be supplied with a rip stop inlay ranging from normal to oil resistant and heat resistant belts. A big advantage of the steel breaker is a good troughing compared to other options.

At Vasco different kinds of rip stop breakers are available. Please contact the Vasco service team for support to pick the right diameter for your purpose. Vasco rip stop conveyor belts are mainly used in cement plants, quarries, coal fired power plants and the steel industry.

## FIRE RESISTANT CONVEYOR BELTS

Safety is of highest priority for companies and public interests. Especially fire is a main concern when accessing transportation risks within buildings or mines, why international standards have been steadily rising in the last two decades all over the world.

Vasco is offering a wide range of fire resistant rubber qualities (K, S and V-Grade) to suit the client's different needs and requirements. All belts are anti-static to prevent coal dust explosions. Vasco fire resistant conveyor belts are mainly used in mining applications, the coal fired power plants, ports as well as the steel industry.

### K-GRADE

Fire retardant with cover plate.

### S-GRADE

Fire retardant with or without cover plate.

### V-GRADE

Self-extinguishing, usually used for mining applications.

## ABRASION RESISTANT CONVEYOR BELTS

The abrasion index of a rubber compound is a very important factor to the service life of the entire conveyor belt. Vasco understands the importance of very low abrasion for special conveying purposes when abrasive material is transported.

DIN-W (18Mpa; 90mm<sup>3</sup>) is the worldwide accepted abrasion resistant cover grade that can satisfy most abrasion applications. Vasco provides grade W belts fully accompany with DIN standard. However, sometimes even higher abrasion resistant grades are mandatory. Therefore, Vasco offers ultra-abrasion resistant compounds that have an even better abrasion index than <70mm<sup>3</sup>. For more technical information of abrasion resistant belt, please feel free to contact the Vasco service team.

Vasco abrasion resistant conveyor belts can be found in the mining sector, quarries, stone pits and many more.

## OIL AND FAT RESISTANT CONVEYOR BELTS

Oil and fat have a serious impact on the lifetime and performance of conveyor belts. Therefore a special rubber compound is mandatory, whenever the rubber belt is exposed to these aggressive substances.

Vasco offers various oil and fat resistant rubber qualities, ranging from low to extra high oil resistance. For instance, mineral oils require a very high level of resistance whereas vegetable/animal oils usually can be handled with medium oil and fat resistant protection. Oil and fat resistant belts can also be produced for oil and heat resistant applications as well as in low-abrasive quality.

Vasco oil and fat resistant conveyor belts can be found in many industries, such as chemical industry, fertilizer industry, recycling, wood, glass and metal processing plants.

## HEAT RESISTANT CONVEYOR BELTS

A normal conveyor belt operates perfectly fine up to 80°C under normal circumstances. Excessive heat can lead to serious damage of the conveyor belt carcass and a shortening of its lifetime. A special rubber compound prevents the distortion of the belt structure and is highly resistant to hot materials such as cement, steel or sand. EPDM or Chlorobutadiene rubber is used to guarantee the required level of heat resistance.

The rubber compound is acting as a life guard to save the carcass. Additionally, the thickness of the top and the bottom cover rubber also helps to protect the lifetime of the conveyor belt. Therefore the thickness should always be considered—the Vasco service team will support and consult you.

Vasco heat resistant conveyor belts are mainly used in the iron and steel industry, cement plants, the chemical and fertilizer industry as well as in glass and waste plants. Vasco offers different elastomers of heat resistance:

### T1 – MEDIUM

Heat resistance for constant temperature applications of 150°C (peak 180°C)

### T2 – HIGH

Heat resistance for constant temperature applications of 180°C (peak 200°C)

### T3 – ULTRA HIGH

Heat resistance for constant temperature applications of 200°C (peak up to 400°C)

## COLD RESISTANT CONVEYOR BELTS

Low temperatures can be a serious threat to conveyor belts. Freezing working environments will lead to a damage of the belt carcass and finally shorten the product's lifetime. Vasco offers cold resistant conveyor belts for operating temperatures below -40°C. Due to special rubber compounds Vasco belts have a very low abrasion and a guaranteed excellent value for money.

The rubber compound is acting as a life guard to save the carcass. Additionally, the thickness of the top and the bottom cover rubber also helps to protect the lifetime of the conveyor belt. Therefore the thickness should always be considered—the Vasco Service Team will support and consult you.

Vasco cold resistant conveyor belts are mainly used in the northern hemisphere of Europe, Asia and North America and are installed in the mining, coal and chemical industry as well as in sectors of energy supply.

## WHITE CONVEYOR BELTS

White conveyor belts transport food such as corn, olives, potatoes and other grain crops. For some applications a FDA grade is mandatory, however there are also many others where FDA is not necessary—for instance wherever food ingredients will be washed or boiled at a later time. Except for natural latex and food grade silicon rubber, most of other vulcanized rubber compounds are not suitable for FDA approval, especially those that uses sulfur and other industrial ingredient.

Vasco white conveyor belts are designed for applications where light duty PVC/PU belt cannot meet the customer expectations, especially when it comes to breaking tensile strength requirement. Instead of using normal carbon-black rubber conveyor belts, Vasco offers a white carbon black alternative with outstanding abrasion resistance and excellent shore hardness. Besides white rubber conveyor belts, Vasco also offers FDA grade approved PVC/PE/PU conveyor belts for the food industry.

Vasco white conveyor belts can be found at food processing plants and in agriculture.

## STEEL CORD CONVEYOR BELTS

Compared to textile conveyor belts, these belts have higher tensile strength, lower elongation, and superior impact resistance. Steel cord conveyor belts are designed for heavy-mining purposes and the transportation of bulk material over long distances.

With one of the best production lines in the world, Vasco steel cord belts are known for an excellent wear resistance as well as low elongation. Following customer requirements Vasco steel cord belts can be produced to any international standard; most common DIN22131, EN ISO 15236, SANS1366 and AS1333. An even better adhesion and prevention of rusting as well as chemical corrosion—and therefore longer service life—is achieved due to the open structure of steel wires, which allows the rubber to be completely soaked into the gap between the steel wires during vulcanization.

Clients can choose from a wide range of cover rubber compounds, such as low abrasive, standard, fire resistant, flame resistant, heat resistant, cold resistant and many more. Vasco also offers additional steel cord or textile breakers in different qualities to protect the steel cord conveyor belt even more.

Vasco's steel cord conveyor belts are mainly used in the coal mining industry, ports, quarries, cement and power plants.

Specification		ST 630	ST 800	ST 1000	ST 1250	ST 1600	ST 1800	ST 2000	ST 2500	ST 3150	ST 3500	ST 4000
Min. Tensile strength (N/mm)		630	800	1000	1250	1600	1800	2000	2500	3150	3500	4000
Max. Cord dia. (mm)		3.3	3.5	4.1	4.9	5.6	5.6	5.6	7.2	8.1	8.6	8.9
Cord pitch ±1.5 (mm)		13.5	13.5	12	14	15	13	12	15	15	15	15
Min. top cover (mm)		6	6	6	6	8	8	8	10	10	10	10
Min. bottom cover (mm)		4	4	4	4	6	6	6	8	8	8	8
Reference weight (kg/m <sup>2</sup> )	DIN Y	17.5	18.5	20.0	20.5	28.5	29.0	29.5	39.0	42	45	50
	DIN X	17.0	18.0	19.5	20.0	28.0	28.5	29.0	38.0	41	44	49
Belt width & tolerance (mm)		Steel Cord Number										
500	±5	36	36	40	34							
650	±7	47	47	52	44							
800	±8	58	58	64	55	50	58	62	50	50	50	50
1000	±10	73	73	81	69	64	73	78	64	64	64	64
1200	±10	87	87	97	84	77	88	97	77	77	77	77
1400	±12	102	102	114	98	90	104	114	90	90	90	90
1600	±12	117	117	131	112	104	120	131	104	104	104	104
1800	±14	131	131	147	126	117	136	147	117	117	117	117
2000	±14	146	146	164	141	130	150	164	130	130	130	130
2200	±15	161	161	181	155	144	166	181	144	114	114	114
2400	±15	175	175	197	169	157	182	197	157	157	157	157
2600	±15			214	184	170	197	214	170	170	170	170
2800	±15			231	198	184	213	231	184	184	184	184
3000	±15			247	212	197	228	247	197	197	197	197
3200	±15			264	227	210	243	264	210	210	210	210

Specification Data Sheet of Vasco Steel Cord Conveyor Belts (According to DIN 22131)

## FILTRATION BELTS

Filtration belts are designed to separate liquid from solid bodies. The rubber conveyor belt is equipped with transverse grooves and little weep holes in the bottom of the grooves.

Vasco offers filtration belts for various applications and supplies super heavy-duty base belts in a wide range of rubber qualities, such as chemical resistance, abrasion resistance, oil resistance and many more. Vasco filtration belts can be found in the petroleum industry, gold mining and fertilizer plants.

## SOLID WOVEN CONVEYOR BELTS (PVC/PVG)

Designed primarily for underground mining applications solid woven conveyor belts are ideally suitable for long-distance transportation. Due to the belt's smooth and low abrasive PVC/PVG cover, maintenance and belt cleaning is becoming an easy and straightforward process. Meeting the fire resistance and antistatic requirements of all international safety standards, Vasco solid woven conveyor belts offer exceptional conveying performance.

Various compounds in the production process such as plasticizers, guarantee a stable cover hardness and avoid the cracking of the conveyor belt cover—resulting in a trouble free performance of the belt.

Vasco solid woven conveyor belts are mainly used in the coal and potash mining industry.

### Mechanical Properties of Solid Woven Belts Covers

Type	Tensile Strength (Mpa)	Elongation at Break (%)	Abrasion Index (mm <sup>3</sup> )
PVC	15	350	200
PVG	12.5	300	200

### Physical Properties of Vasco solid woven conveyor belts

Specification	Tensile Strength (N/mm)		Elongation at Break (%)		Min. Pulley Diameter Recommended (mm)
	Warp	Weft	Warp	Weft	
680S	680	265	15	18	400
800S	800	320	15	18	500
1000S	1000	350	15	18	630
1250S	1250	350	15	18	750
1400S	1400	350	15	18	750
1600S	1600	450	15	18	800
1800S	1800	450	15	18	800
2000S	2000	450	15	18	1000

### Physical Properties of Vasco solid woven conveyor belts

Surface Resistance:  $\leq 3 \times 10^8 \Omega$

Drum Friction Test: temperature  $\leq 325^\circ\text{C}$ , with no sign of flam, sparks or glow.

Burner Flame Test:	With cover	Average: $\leq 3.0\text{S}$ Individual: $\leq 10.0\text{S}$
	Without cover	Average: $\leq 5.0\text{S}$ Individual: $\leq 15.0\text{S}$

Propane Burner Test: Length remains undamaged, not blistered or charred  $> 250\text{mm}$

High energy propane burner test: undamaged length in full width  $> 2250\text{mm}$

## SELF-CLEANING CONVEYOR BELTS

Self-Cleaning conveyor belts are designed for sticky materials, with anti-sticky compound cover, good physical character and antistatic quality. Oil and grease resistance, as well as resistance against chemicals. Vasco self-cleaning conveyor belts are suitable for many industries such as cement industry, sand industry, chemical industry and power plants.

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## MAGNETIC SEPARATOR BELTS

Magnetic separator belts help to separate magnetic materials. Therefore the belts must be totally free from any metal. Vasco uses various rubber compounds for different industries and purposes such as oil resistant, heat resistant or fire resistant and many more.

Vasco magnetic separator belts are of highest quality: The massive cleats are hot vulcanized to the base-belt. Compared to the traditional cold bonding methods, hot vulcanizing ensures strong adhesive force between the components and the belt and therefore a much longer lifetime of the product. Please do not hesitate to contact the Vasco Service Team for inquiries and further questions.

Vasco magnetic separator belts can be found at recycling plants, mining and crushing industry and many more.

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## LIGHT DUTY CONVEYOR BELT

Light duty conveyor belt are usually coated with materials like PVC, PE, PU, TPU, TPEE, silicone and rubber, applicable in various kinds of industries such as electronics, tobacco, food, logistics, post, airport machinery, pharmaceuticals, chemistry, printing and sports entertainment.

## SW & CFW CONVEYOR BELTS

SW (straight warp) and CFW (crow's foot wave) conveyor belts have unique fabric construction. Vasco is using an innovative reinforced fabric carcass, which provides higher tensile strength than normal textile conveyor belts. These special designed fabric carcass is more stable and stronger, and most importantly it also has a specific impact resistant character, a superior transverse tear resistance, and a superior rip resistance.

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## ARAMID CONVEYOR BELTS

Aramid is a very strong man-made fiber that combines the advantages of steel textile as well as regular textile. The belt carcass is reinforced with special designed aramid fabric, woven with straight aramid warp and straight nylon weft construction.

Vasco aramid conveyor belts have the character of high strength efficiency, high transverse impact resistance, a very low elongation in use (<0.5%), a super rip resistant performance, high modulus and an excellent heat resistant character.

Combined with other Vasco compounds like fire resistant, flame resistant, wear resistant, abrasion resistant, or heat resistant covers, Vasco aramid belts can be applied to the toughest working conditions.



## SCREEN WIRE MESH

The application of metal wire mesh is very diverse and includes the filtering of sand, liquids and gases. The advantage of wire mesh compared to other filtration options is that wire mesh is easier to clean and reuse; thanks to the physical characteristics that most weaves particles stick to the surface.

Vasco wire mesh is produced with stainless steel and a high carbon steel wire grade of 45-60Mn and 65Mn. The wire mesh is suitable for noise and heat protection and is available in various types/characteristics such as two-way alternate-bending, flattened bending, two bending, bending wave at one-way and crimped first and then weaved.

## IMPACT BARS

Impact bars are specially designed to protect a conveyor system from impact harming. They are widely used at the conveyor's loading point, when high levels of energy absorption is needed and low friction drag is desired.

Due to easy installation, Vasco impact bars replace the conventional idler sets. The top cover is made of an UHMWPE (Ultra High Molecular Weight Polyethylene), which gives Vasco impact bars a very low friction top surface. The middle part is of a high quality energy absorbing rubber that acts as a shock absorber at the loading zones of conveyor installation. Compared to traditional impact rollers, Vasco impact bars also prevent effectively bulk material from spillage, if the conveyor system is also equipped with Vasco dual sealed skirting rubber.

Vasco's standard is 55mm, 75mm and 100mm thickness and 500mm to 1800mm length. Special size can be custom-made by request. The polyethylene cover is available in various colours such as green, red, white, blue or black. Besides for general applications, Vasco has developed anti-static and fire retardant impact bars for underground mining or other explosive environments.

## CONVEYOR ROLLER

Rollers are an important part of the entire conveyor belt system. A high quality roller will increase the life of the entire system. Vasco rollers are characterized by a low rolling resistance, a very small quantity of radial vibration as well as an excellent performance of balance. These features lead to energy saving, a very low noise even at high speed, and therefore to economic and environment-friendly conveying operations.

Vasco rollers can be fabricated according to DIN, AFNOR, CEMA, BS, FEM, JIS and many other international standards with different type of shaft end.

### CARRYING ROLLER

Usually working as roller sets in different angle, the rollers help to balance the belt and ensure the troughing. The carrying rollers are the most common roller type in a belt conveyor system.

### RETURN ROLLER

Guarantees the stability of a belt in the lower run of the conveyor belt.

### GUIDE ROLLER

Guide rollers—also called side rollers—protect the belt from deviation, usually designed with only one side spindle fixed to the frame.

### DISC ROLLER

A special type of return roller also called clean roller, covered with sharp edge rubber discs, spaced in the middle area of the roller to clean the sticky material on the belt cover, and flat rubber discs at both ends of the roller, which protects the belt edge from damage.

### IMPACT ROLLER

A special type of carrying roller fully covered with flat rubber discs that absorbs impact energy at the loading point when bulk material is dropping.

## **WEAR PROTECTION**



## VASCO WEAR 38

Vasco38 is a premium quality natural rubber compound with outstanding technical characteristics such as resilience, strength and resistance to cutting, tearing and abrasion. This rubber compound has a great wear resistance especially where larger product parts like minerals and ores are processed, such as in mine backfill, pipe/chute/tank linings, screen underpants, hoppers and bins, pipe elbows, pumps and valve liners, vibrating feeders, sand and gravel operations.

Vasco38 can be tailor-made to clients' requests. The standard sheet size is 9.25m x 1.23m nominal (approx. 30ft x 4ft), and the available thickness ranges from 3.0mm to 35mm (approx. 1/8" to 1 3/8"). It has an excellent resistance to cutting and tearing, a high resilience, and a strong resistance to a wide range of chemicals.

## TYPICAL PHYSICAL PROPERTIES

Measured Characteristic	Standard	Value	
Polymer Type		Nature Rubber	
Specific Gravity		0.96	g/cm <sup>3</sup>
Hardness (IRHD)	ISO 48-1994	38	Shore A
Tensile Strength	ISO 37-2005	≥ 24	MPa
Elongation at Break	ISO 37-2005	≥ 830	%
Tear Strength	ISO 34-2004	≥ 44	N/mm
Resilience	BS903	83	%
Abrasion resistance (dry)	ISO 4649	≥ 60	mm <sup>3</sup>
Abrasion resistance (wet)	DIN 53516	≥ 90	%
Compression set after 22h at 70°C	ISO 815-1	≤ 30	%
Operating Temperatures		-40/+70	°C
Color		Amber/Red/Natural Tan	

## VASCO WEAR 60

Vasco60 is a heavy duty problem solver for rough material handling applications. It is a blend of natural and butadiene rubber, designed to provide the toughness required to handle materials in difficult applications, where high level of impact and abrasion exist. It performs best in most mining and mineral processing applications.

The combination of high resiliency and resistance to deformation makes Vasco60 the ideal solution in handling coarse-grained materials. In addition to outstanding wear performance, the resiliency and flexibility of the rubber compound enhances the flow of fine-material when mixed with larger product particles. Vasco60 is designed to be an integral part of the conveying systems. It protects the chute and transfer points.

Vasco60 can be tailor-made to clients' requests. The standard sheet size is 9.25m x 1.23m nominal (approx. 30ft x 4ft) and the available thickness ranges from 3.0mm to 35mm (approx. 1/8" to 1 3/8").

- Exceptional wear and tear resistance
- Highest flexibility for a hard rubber compound
- Excellent resistance to cutting by sharp edged products
- Good wet abrasion resistance

## APPLICATIONS

- Hose linings: Vasco60's unique cut/tear and abrasion resistant properties make it an ideal compound for a broad range of applications
- Screen panels: Vasco60's superior resiliency minimizes plugging and blinding
- Skirting Rubber: Vasco60's unique combination of features make it ideal for skirting rubber applications
- Abrasive environments where sticking and/or build up are major issues

Measured Characteristic	Standard	Value	
Polymer Type		Nature Rubber	
Specific Gravity		1.10	g/cm <sup>3</sup>
Hardness(IRHD)	ISO 48-1994	60	Shore A
Tensile Strength	ISO 37-2005	≥ 25	MPa
Elongation at Break	ISO 37-2005	≥ 690	%
Tear Strength	ISO 34-2004	≥ 103	N/mm
Resilience	BS903	70	%
Abrasion resistance (dry)	ISO 4649	≤ 120	mm <sup>3</sup>
Abrasion resistance (wet)	DIN 53516	≥ 20	%
Compression set after 22h at 70 °C	ISO 815-1	≤ 35	%
Operating Temperatures		-40/+70	°C
Color		Red	

## VASCO N55

VascoN55 is a nitrile based rubber compound, specifically designed to operate in oily- and chemically-aggressive environments. Due to its special rubber compound an operating temperature of up to 110°C (230°F) is guaranteed as long as suitable adhesives or mechanical fixing is applied.

- Resistant to mineral/vegetable oils
- Resistant to chemicals, greases and aliphatic hydrocarbons
- Excellent resistance to high temperature, thermal aging and fatigue
- Good resistance to wear
- Low permeability to gases

Measured Characteristic	Standard	Value	
Polymer Type		NBR	
Specific Gravity		1.15	g/cm <sup>3</sup>
Hardness(IRHD)	ISO 48-1994	55	Shore A
Tensile Strength	ISO 37-2005	≥12	Mpa
Elongation at Break	ISO 37-2005	≥660	%
Tear Strength	ISO 34-2004	≥20	N/mm
Resilience	BS903	45	%
Abrasion resistance (wet)	DIN 53516	≥16	%
Operating Temperatures		-40/+70	°C
Color		Orange	

## SKIRTING GRADES AND SCRAPERS

The installation of these special wear-resistant rubber materials reduce risk of operational breakdowns. It helps industries that handle highly abrasive materials to combat wear, noise and dust.

### SKIRTING RUBBER

Skirting rubber is used for protecting the conveyor side, tranquilizing the material flow and for sealing the feeding point. Skirting rubber avoids the drop-down of material in the system periphery. Various qualities of skirting rubbers are available; the thickness ranges from 4 mm to 35 mm.

### BELT SCRAPERS

Combi-scraper rubber for granulated and washed materials is designed to clean the conveyor belt in a very economic and reasonable way. Vasco combi-rubber scrapers are made of rubber in the combination hard-soft-hard. The hard surface allows the rubber to clean the belt, the soft inside supports to balance vibrations to clean efficiently. Various qualities of combi-scraper rubber are available. The thickness ranges from 20 mm to 30 mm.

### SNOW SCRAPERS

Vasco has a wide range of combined rubber bands to cover snow trucks scrapers, which increase road maintenance quality. Various dimensions and qualities of snow-scrappers are available.



## PORTABLE VULCANIZING PRESS

Vasco supplies various portable rubber vulcanizing presses to its service partners all over the world. These machines for rubber conveyor belt splicing are widely used on site and offer a good value for money.

Vasco presses are available for different regions and requirements and follow strict rules of international safety standards.

Belt width (mm)	Model	Heating plate size (mm)	Beams (kg)	Dimension (mm)	Total Weight (kg)	Pressure Pump	Control Box
650	VASCO-2832	710×810	20	1142×710×560	450	1	1
800	VASCO-2840	710×1000	24	1320×710×560	466	1	1
1000	VASCO-2847	710×1193	27	1440×710×560	510	1	1
1200	VASCO-2856	710×1420	38	1680×710×650	620	1	1
1400	VASCO-2864	710×1625	44	1950×710×650	850	1	1
1600	VASCO-2871	710×1800	59	2060×710×710	980	1	1
1800	VASCO-2882	710×2080	84	2320×710×980	1100	1	1
2000	VASCO-2892	710×2330	91	2582×710×980	1380	1	1
2200	VASCO-2898	710×2490	109	2842×710×980	1470	1	1
2400	VASCO-28104	710×2640	121	2950×710×980	1550	1	1
2600	VASCO-28111	710×2820	127	3128×710×1120	1620	1	1
2800	VASCO-28126	710×3190	140	3328×710×1120	1730	1	1

## BELT FASTNER

### BOLT HINGED

For belts operating over smaller pulleys—such as in construction equipment and road machinery, Vasco bolt hinged fasteners are strong, dependable and easy-to-install.

### RIVET HINGED

Designed for rubber plied, PVC solid woven belting and for worn belts unfit for vulcanized splices, Vasco rivet hinged fastener features a low profile that significantly reduces the fastener's exposure to cleaner blades, skirt rubber, and return idlers. The staggered rivet pattern also provides maximum holding ability by allowing the rivets to pass between the carcass fibers without damaging them.

### BOLT SOLID PLATE

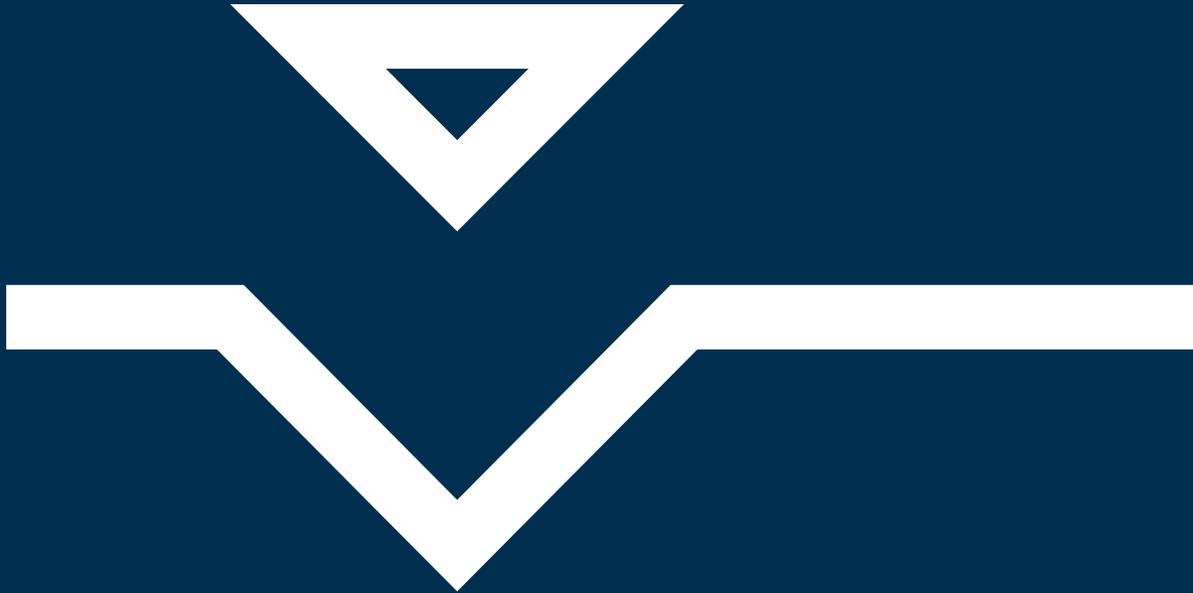
Vasco bolt solid plate fasteners are engineered to meet the demands of the toughest material-handling applications. They are commonly used on higher-tension main-haulage belts used for highly abrasive materials such as sand, gravel, and crushed stone, as well as coal, cement and salt.

### RIVET SOLID PLATE

The heavy-duty rivet solid plate fastener system is recommended for the most demanding high-tension applications. The staggered, multiple-point attachment delivers long-lasting holding ability for mechanical ratings up to 8°00 PIW (140 kN/m).

### ELEVATOR BELT FASTENERS

A proper belt clamp will result in more reliable equipment operation, less downtime, and longer life time of the elevator belt. Vasco elevator belt fasteners are able to offer a high degree clamping force during equipment operation in various working environment.



## HELMITIN COLD BONDING SYSTEMS

Vasco offers the entire product family of Helmitin® cold bonding systems; e.g. Helmitin® 14030. This glue system is an absolute highlight as the applied solvent is non-flammable but nevertheless trichlorethylene-free. Moreover, it may be used beyond the year 2016 according to EU directive in comparison to similar products which may not be used any further.

### TECHNICAL DATA HELMITIN® 14030

Base	polychloroprene
Colour	black
Viscosity	approx. 3700 mPas*
Density	approx. 1.42 g/cm <sup>3</sup>
Hardener additive	5 % swift® hardener (hardly combustible)
Pot life	approx. 3 hours
Manner of application	filler, paintbrush
Consumption	300-400 g/m <sup>2</sup>
Airing time	10-15 minutes
Contact bonding time	approx. 30 minutes
Setting time	approx. 24 hours
Permitted storage time	approx. 12 months
Storage and transport conditions	well closed at temp. not below 10 °C
Sensitivity to cold	yes, defrostable
Flammability	no, hardly combustible
Base	polychloroprene
Labelling in accordance with Hazardous Substances Ordinance	Xn, N

Type	Name of product	Product characteristics	Article no.	Containers
Glue	Helmitin® 14030	hardly inflammable, trichlorethylene-free	33-050-00001-100	1kg container
			33-050-00003-100	3kg container
	Helmitin® 14021	hardly inflammable, with trichlorethylene	33-050-00001-200	1kg container
			with trichlorethylene	3kg container
	Helmitin® 14026	flammable, with benzene	33-050-00001-300	0.6kg container
			flammable, with benzene	2.5kg container
Gardener	Swift®hardener 49502	hardly inflammable, for Helmitin® 14030 and 14021	33-050-00001-400	50g bottle
			hardly inflammable,	150g bottle
	Swift®hardener 49503	flammable, for Helmitin® 14026	33-050-00001-401	50g bottle
			and 14021	150g bottle
Primer	Swift®prime 2903	metal primer	33-050-00001-500	0.7kg container
Cleaner	Helmitin® 691	not inflammable, with trichlorethylene	33-050-00007-600	6.5kg container
	Helmitin® 676/2	flammable, trichlorethylene-free	33-050-00004-600	4kg container

# PERMAFLEX

Permafex is universally applicable and suitable for the repair of conveyor belts, rubber coating and linings as well as sealing of gaps. Breakthroughs and longitudinal cracks may for example be repaired up to any length.

Permafex consists of a two-component polyurethane and features a fast processing time. After 30 minutes the processed spot may be ground or re-worked. There are two different ways of application depending on the intended purpose: Either by hand or with the help of a spray system.

## OVERVIEW

- suitable for repair of conveyor belts, rubber coatings, linings and sealing of gaps
- two-components polyurethane system
- short processing time
- fast, clean and flexible
- dry to the touch after 2 minutes
- may be ground and re-worked after 30 minutes
- free of any volatile substances
- shock-resistant, highly resistant to abrasion
- maximum hardness of 60° shore A
- processing by hand or with the help of a spray system

Characteristics	
Colour	black
Elastomere	polyurethane
Tensile strength	≥ 400 %
Hardness	60° shore A
Abrasion	≤ 120 mm <sup>3</sup> ≤ 120 mm <sup>3</sup>
Elongation at break	1629 PSI

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