



WEDGE BELTS VECO 200 DYNAM SYSTEM

ST - ISO 4184 - DIN 7753 - BS 3790

10001 - 1 / 2

Fiche Technique - Technical Data Sheet



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03-2018

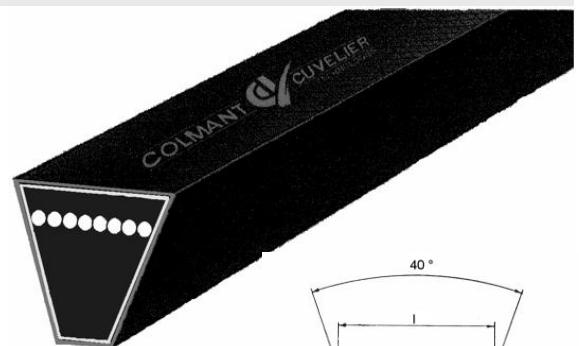
Function

Flexible link between the motor and the machine which transmits high power

Conception

Endless V belts are made of :

- synthetic rubbers which guarantee a constant hardness
- polyester cord with controlled elasticity and high capacity of traction
- single wrapping (for SPZ sections) and double wrapping (for SPA, SPB and SPC sections) impregnated with polychloroprene compound which resists heat, oil, abrasion and ozone aggressions



SECTION	I	h	Ip
SPZ	9.7	8	8,5
SPA	12.7	10	11
SPB	16.3	13	14
SPC	22.0	18	19

General Specifications

- temperature of use: -35° to +100°C
- antistatic following standard ISO1813
- V belt sections following standard E 24 – 213
- Resistant to oil projection, hydrocarbure and diluted acids. ISO1817
- endure centrifugal strength
- good draining of heat at high speed
- reduce bulkiness of transmission:
 - smaller and lighter pulleys
 - smaller protection carter
 - higher speed solutions

Stabilisation Process "ST"

The stabilisation process "ST" guarantees a small and continuous margin on the length. The length of V. belts follows the standard NF ISO 4184.

It means :

- easy to install
- even distribution of loads on multiple belt drives
- eliminate vibrations

Marking

6 C MADE IN
EU

VECO 200

COLMANT CUVELIER

5000 SPC

DYNAM ®

ST

On our DYNAM belts, you can read :

- the production date (codes for month and year) : 6C
- ST marks
- the pitch length measured under strength, as well as the section : 5000 SPC

THE "LABEL DYNAM"

Design

The DYNAM® system allows us to supply a pre-tensioned belt. This system ensures the correct tension by the mere reading of the length between 2 marks. This measure only requires to be done once when tensening the belt. There is no need to check the tension twice. (see data sheet n°10003).

Performance

- The 1 % slip guarantees a performance of 95 %.
- Improved transmitted power by 20 %.
- Optimum performance is obtained when the linear speed is between 30 m/s and 33 m/s.



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Pitch lengths of our V belts (in mm)

The sections of V belts VECO 200[®] with "label DYNAM" that we can supply are : SPZ, SPA, SPB, SPC. Only the sizes in yellow are available with the DYNAM System.

SPZ (10 x 8)					SPA (13 x 11)				SPB (16 x 14)			SPC (22 x 18)	
587	937	1312	1800	3250	782	1232	1800	2800	1250	2240	4100	2000	6000
612	950	1320	1850	3350	800	1250	1832	2832	1280	2300	4120	2120	6300
630	962	1332	1900	3450	832	1280	1850	2882	1320	2360	4250	2240	6500
657	975	1337	1950	3550	850	1307	1882	2900	1360	2430	4370	2360	6700
670	987	1360	2000	3650	875	1320	1900	2932	1400	2500	4500	2500	7100
687	1000	1387	2030	3850	900	1332	1950	3000	1450	2530	4560	2650	7500
710	1012	1400	2060		925	1360	1982	3070	1500	2580	4620	2800	8000
722	1020	1420	2120		932	1382	2000	3150	1520	2650	4650	3000	8500
725	1030	1437	2137		950	1400	2032	3250	1550	2720	4750	3080	9000
737	1037	1450	2180		975	1425	2060	3350	1580	2800	4870	3150	9500
750	1060	1462	2240		982	1450	2120	3450	1600	2900	5000	3350	10000
762	1090	1487	2280		1000	1482	2180	3550	1650	3000	5300	3550	10600
772	1112	1500	2300		1030	1500	2240	3650	1700	3070	5600	3650	11200
787	1120	1512	2360		1060	1550	2300	3750	1750	3150	6000	3750	11800
800	1137	1537	2430		1082	1582	2360	3870	1800	3170	6300	3810	12500
812	1150	1550	2500		1090	1600	2430	4000	1850	3250	6700	3912	14000
837	1162	1562	2580		1107	1632	2450	4250	1900	3350	7100	4000	20000
850	1180	1587	2650		1120	1650	2475	4870	1950	3450	7500	4100	
862	1220	1600	2720		1132	1657	2500		2000	3550	8000	4250	
875	1237	1650	2800		1150	1682	2532		2020	3650	10000	4500	
887	1250	1700	2900		1157	1700	2580		2060	3750		4750	
900	1262	1732	3000		1180	1732	2650		2120	3840		5000	
912	1280	1737	3070		1207	1750	2720		2150	3870		5300	
925	1287	1750	3150		1220	1782	2732		2180	4000		5600	
Lp = li + 38 Lp = le - 13					Lp = li + 45 Lp = le - 18				Lp = li + 60 Lp = le - 22			Lp = li + 83 Lp = le - 30	
Weight / metre 0,078 kg					Weight / metre 0,139 kg				Weight / metre 0,228 kg			Weight / metre 0,426	

Lp : pitch length; li : internal length ; le : external length

Stocking conditions

Belts must be stocked under the following conditions :

- the room must be dry, without dust and well ventilated.
- temperature must be between +5°C and +25°C.
- no condensation, maximum humidity of air : 65 %.
- avoid direct sun light and high artificial light due to ultraviolet.
- avoid contact with chemical products, solvent, petrol, lubricant, acid, volatile components, greases.
- no material which can produce ozone, like high tension electric material, electric motors or other materials which can produce sparks or electric discharges.
- the stocked belts must not have been stressed, compressed or deformed.
- set them more than 1 meter from radiators or heat source.
- avoid direct contact with some kinds of metal (copper, manganese, ...)
- avoid contact with sharp, abrasive and angular surfaces.
- the material of boxes, packings and the coverings must not contain nocive substances for the belts like copper or creosotes.

Stock turn : The best thing to do is : "first in, first out"

Cleaning : Cleaning with water and soap is harmless. You must never use organic solvents like trichlorethylene, tetrachlorure of carbone or ether of petrol, no abrasive, pointed or sharp tools. The cleaned belts must be dried at ambient temperature.



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**Estimating corrected power :**

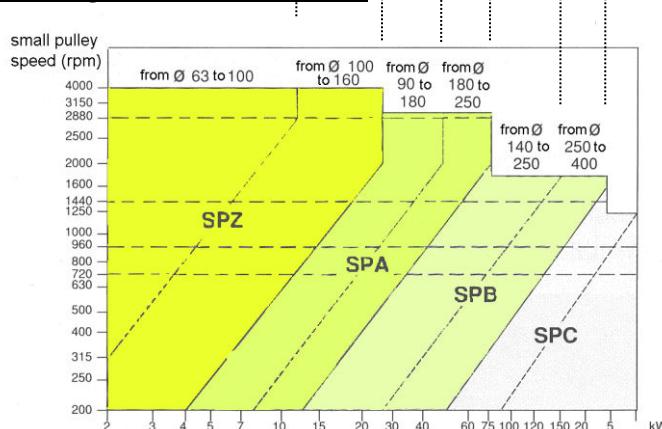
Use the above correction coefficients on the basis of the operating rating, the type of machine to be driven and the nature of the drive force.
The corrected power is : $P_c = \text{Power} \times \text{Power correction}$.

DRIVE POWER		Electric motor with $C_s / C_n \leq 2$ Heat engine with 2 or more cylinders			Electric motor with $C_s / C_n > 2$ Heat engine with 1 cylinder only		
Power operating machines	Rating	8 hrs	16 hrs	24 hrs	8 hrs	16 hrs	24 hrs
LOW INERTIA : Rotary machine tools, light conveyors, agitators, small fans, centrifugal pumps.		1	1,1	1,2	1,2	1,3	1,4
AVERAGE INERTIA : Alternators, alternate machine tools, large conveyors, fans.		1,1	1,2	1,3	1,3	1,4	1,5
HIGH INERTIA : Hammer mills, mixers, piston pumps, wood cutting machines, paper mill machines.		1,2	1,3	1,4	1,4	1,5	1,6
VERY HIGH INERTIA : Rotary crushers, cylinder crushers, jar mills, roller mills.		1,3	1,4	1,5	1,7	1,8	1,9

Calculation example : electric motor - 50 kW - 2880 rpm - 60 mm Ø shaft. Turbo-fan : 2075 rpm - 60 mm Ø shaft.

Rating : 24 hrs per day. Infrequent start-ups. Distance between axes : 1100 mm.

Power correction : $P_c = 50 \times 1,3 = 65 \text{ kW}$.

Choosing the belt cross-section :

Using the belt selection charts, draw a vertical line up from the corrected power value, to the intersection with the horizontal line which gives the highest pulley speed.

The intersection gives the belt cross-section to use together with the diameter of the smallest transmission pulley.

Calculation example : the recommended cross-section is SPA and the small pulley diameter is 180 mm.

Selecting the pulley diameters :

Choose the pulley diameter keeping in mind that the greater the diameter, the greater the transmitted power. Conversely, do not select a diameter lower than those indicated below :

Section	SPZ	SPA	SPB	SPC
mini Ø	71	90	140	224

Calculation example : driver pulley = Ø 180 - driven pulley = $180 \times 1,39 = \Ø 250$

Calculating the transmission ratio :

$$\text{Ratio} = \frac{\text{High shaft speed (rpm)}}{\text{Low shaft speed (rpm)}} = \frac{N}{n}$$

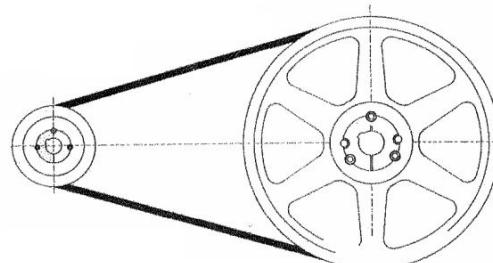
Calculation example : $r = 2880/2075 = 1,39$

Distances between axes :

If the distance between axes E is not given, use as a minimum :

$$\text{for a ratio less than 3 : } \frac{D + d}{2} + d$$

- for a ratio greater than 3 : $1,2 D$



Driver pulley : N in rpm,
working diameter in mm
 $r = N/n = D/d$

Driven pulley : n in rpm,
working diameter D in mm



Determining drive belt length (L) :

The following formula must be used :

$$Lo = 2 E + 3,14 \frac{D + d}{2} + \frac{(D - d)^2}{4 E}$$

Select the standard length L which is the closest to the calculated length

Lo. The new distance between axes thus become :

$$E + \frac{L - Lo}{2} \text{ si } L > Lo \text{ ou } E - \frac{Lo - L}{2} \text{ si } L < Lo$$

Calculation example :

$$Lo = 2 \times 1100 + 3,14 \times (250 + 180)/2 + (250 - 180)^2 /(4 \times 1100) = 2876 \text{ mm}$$

Selected length L = 2800 mm

$$E = 1100 - (2876 - 2800) / 2 = 1061 \text{ mm}$$

Determining the actual power belt drive :

Use the belt transmissible power tables (see technical data sheet n°10002 - 3, 4, 5 et 6) to find the gross transmissible power as function of the diameter of the small pulley. Correct this power by multiplying it by the length correction coefficient and the correction factor (see technical data sheet n°10002 - 3, 4, 5 et 6). Irrespective of whether a reduction or multiplication transmission is used, always lower these to the values corresponding to the small diameter pulley.

Calculation example : Using the table on sheet 10002 - 4, gross power per belt is 16,9 kW.

Length coefficient : 1

Arc correction factor : $(D - d) / E = (250 - 180) / 1061 = 0,066$, where the arc correction factor equals : 1

Actual transmissible power : $16,9 \text{ kW} \times 1 \times 1 = 16,9 \text{ kW}$.

Number of VECO 200® DYNAM® system drive belt :

Divide the corrected power by the actual power transmitted by one belt. The result is rounded up to the next whole number

Calculation example : $Nc = 65 / 16,9 = 3,85$ belts, rounded up to 4 belts

Static load on the pulleys :

- Tension per strand T : $45 \times \frac{2,5 - G}{G} \times \frac{Pc}{Nc \times V^2} (\text{daN})$
- Load on bearing R : $2 T \times Nc \times \sin(\beta/2) (\text{daN})$
- G : arc correction factor (see table opposite)
- Pc : corrected power, kW
- Nc : number of belts
- V : belt linear speed in m/s : $d \times N \times$
- M : constant (see table below)

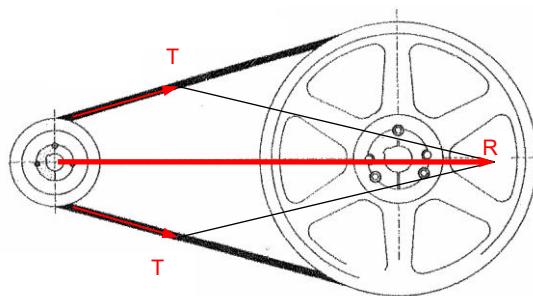
Section	SPZ	SPA	SPB	SPC
M	0,006	0,012	0,017	0,032

$(D - d) / E$	β°	Factor G
0,00	180	1,00
0,10	174	0,99
0,20	169	0,97
0,30	163	0,96
0,40	157	0,94
0,50	151	0,92
0,60	145	0,90
0,70	139	0,88
0,80	133	0,87
0,90	127	0,85
1,00	120	0,83
1,10	113	0,80
1,20	106	0,77

DYNAM tensioning helps to ensure minimal bearing loads, obtaining effective bearing and roller to race contact, improving the installation overall efficiency.

Calculation example : tension per strand (SPA) = $T = 45 \times (2,5 - 1) / 1 \times 65 / (4 \times 27,13) + (0,012 \times 27,13^2) = 49,3$

Static bearing load : $R = 2 \times 49,3 \times 4 \sin(180^\circ / 2) = 394,6 \text{ daN}$



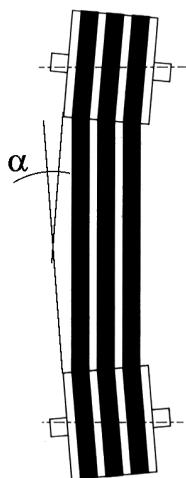


A proper installation is an important aspect for transmitting power with a transmission with Veco V-belts.

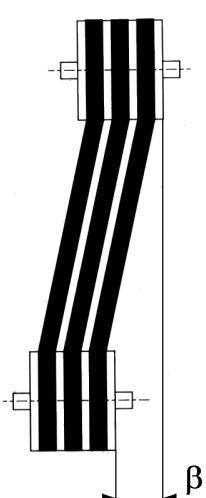
It must respect the parallelism of the shafts, the alignment of the pulleys and the correct setting of the DYNAM® tension device. The installation must also respect the following instructions :

- Use identical grooves profiles according to usual norms and tolerances. Make sure that grooves are clean and adequate to the belt's section used.
- Do not force when installing the belt in the grooves of the pulleys. Any kind of excessive effort can damage the tensile cord. If necessary, reduce distance between shafts.
- If more than one belt are used, it is necessary to change them all in case of problem with one of them.
- Never use greasy or dissolving products which reduces considerably the adhesion factor of the VECO belt.

Shaft's parallelism and alignment of the pulleys :



Non parallel shafts



Parallel shafts, not aligned pulleys



Correct installation

Maximum Misalignment

α maxi = 0,5° OU β maxi = 8 mm per meter of distance between shafts

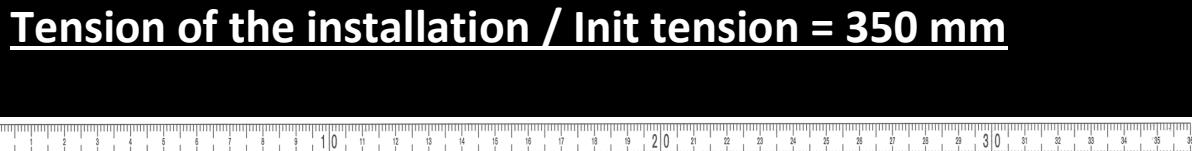
Installation tension :

The DYNAM label allows the proper tension thanks to a mark printed on the back of the belt.

- Tense the belt progressively controlling the length between the two marks.
- When length between marks is reached, start the transmission for a few revolutions.
- Check the length between the marks again, the tension of the belt is completed.

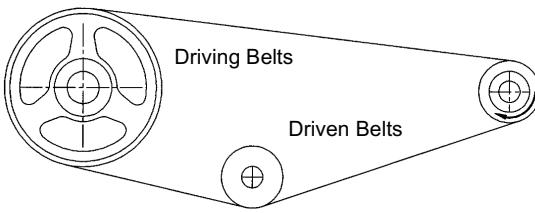
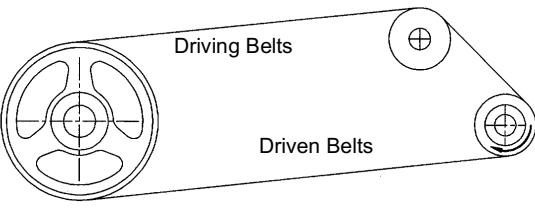
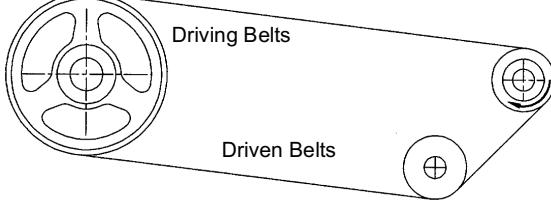
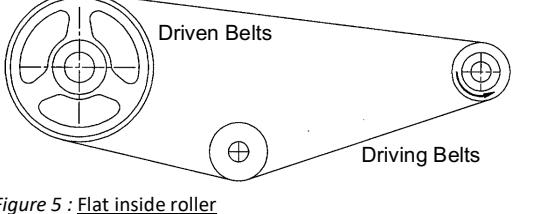
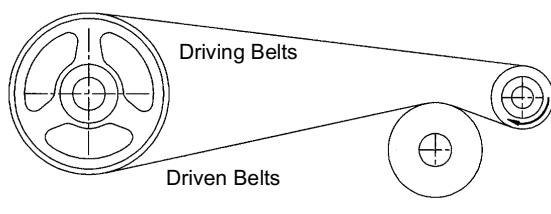
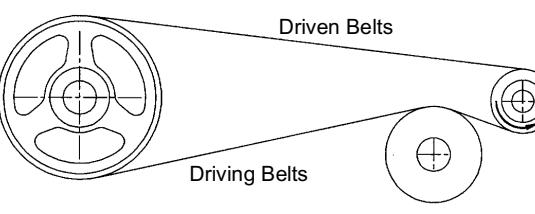
Attention : Always measure this length between the outside of the marks.

Following this instructions will guarantee the optimum working of your transmission.



Use of tensile rollers

With V-belts, the rollers can be used to set the tension when none of the shafts can be moved, or to limit the vibrations. A tensile roller can be flat or with grooves, set on the driven belts (preferably) or on the driving belts, inside (preferably) or outside of the belts. This leads to 6 current positions, shown of the drafts below. The roller's diameter must be the biggest possible, at least the diameter of the small pulley.

Roller on driven belts : When roller can be blocked, this device is the most secure to avoid belts slipping. A mobile roller with weight or spring can be used if there is not risks that the torque be inverted.	Rollers on driving belts : The roller must necessarily be blocked in that position.
 Figure 1 : Roller with inside grooves Compulsory with wedge belts. Location and direction : to be determined by design in order to insure that the contact of belt with pulley is almost the same.(afterwards, the roller will be closer to the bigger pulley than the small one).	 Figure 4 : Roller with grooves
 Figure 2 : Flat inside roller The closest possible to the driving pulley making sure that the contact is sufficient.	 Figure 5 : Flat inside roller Use of the rollers with double setting; taking into account the efforts on the belts
 Figure 3 : Flat outside roller	 Figure 6 : Flat outside roller





COURROIES VECO 200 LABEL DYNAM Sections US

Caractéristiques générales

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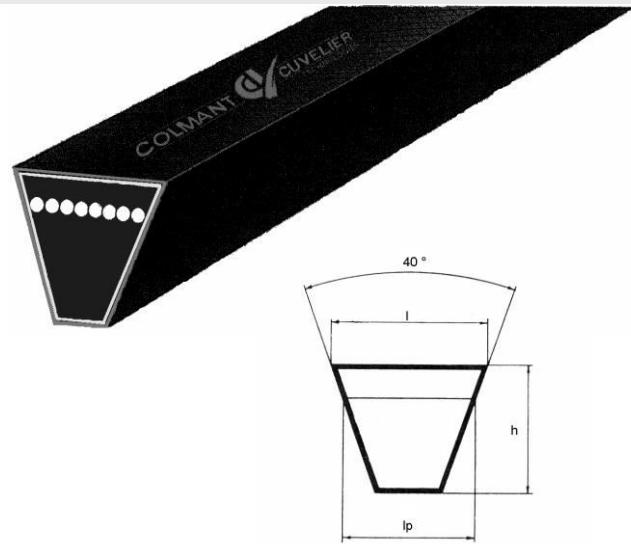


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Fonction

Lien souple reliant le moteur à la machine pour transmettre de fortes puissances.



Conception

Courroie trapézoïdale sans fin composée :

- de caoutchouc synthétique à dosage équilibré assurant une dureté constante
- d'une armature monocorde à câble polyester à élasticité maîtrisée et à haute capacité à la traction
- d'un simple (pour les sections 3V) et double (pour les sections 5V et 8V) enrobage imprégné de mélange polychloroprène résistant à la chaleur, à l'huile, à l'abrasion, et à l'ozone

Caractéristiques générales

- température d'utilisation : - 35° à + 100°C.
- anti-électrostatisme suivant la norme NF T 47 104 / ISO 1813
- section des courroies suivant les normes américaines.
- résistance aux projections d'huile, hydrocarbures et acides dilués /

Procédé de stabilisation "ST"

Le procédé de stabilisation "ST" garantit des tolérances réduites et constantes sur la longueur. La longueur des courroies répond à la norme NF ISO 4184. Cela amène :

- la suppression de l'appairage
- la simplicité de mise en œuvre
- une meilleure répartition de l'effort tangentiel dans la nappe
- l'élimination des vibrations

SECTION	I	h
3V	9,5	8
5V	15,8	13
8V	25,4	23

Marquage

6 C MADE IN EU

VECO 200

COLMANT CUVELIER

5V 900

DYNAM ®

ST

En plus du marquage DYNAM, sur les courroies Véco 200 sont mentionnés en clair :

- la date de fabrication (codes mois et année) : 6C
- le sigle ST explicité précédemment
- la section et la longueur extérieure mesurée sous tension : 5V 900

LE LABEL DYNAM

Fonction

Le système breveté DYNAM® fait de la courroie Véco 200® une courroie à tension prédéterminée. Il permet, à l'installation, d'obtenir la tension exacte désirée par un simple contrôle de longueur entre deux repères. La mesure des indications portées sur le dos de la courroie s'effectue une fois pour toute dès le montage sans avoir une deuxième intervention après rodage. (voir notice de montage n°10003)

Performances

- La garantie du glissement contrôlé de 1 % assure un rendement de 95 %
- Les nouvelles puissances transmissibles : 20 % d'amélioration amène les performances des courroies Veco 200 au niveau des flancs nus
- Le rendement optimal est atteint à une vitesse linéaire comprise entre 30 m/s et 33 m/s



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COURROIES VECO 200 LABEL DYNAM Sections US

Caractéristiques générales

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Conditions de stockage

Le stockage des courroies doit suivre les points suivants :

- Lieu de stockage sec, sans poussière, relativement bien ventilé
- Température de stockage entre +5°C et +25°C
- Pas de condensation, humidité de l'air maximale : environ 65 %
- Eviter la lumière directe du soleil, et la lumière artificielle forte ayant une teneur élevée en ultra-violet
- Eviter le contact avec des produits chimiques, solvants, essence, lubrifiant, acide, composés volatiles, graisses
- Pas de matériel capable de produire de l'ozone, tel que le matériel électrique à haute tension, les moteurs électriques ou autre matériel susceptible de produire des étincelles ou des décharges électriques
- Les courroies stockées ne doivent pas subir de tension, de compression ou d'autre déformation
- Conservation à plus d'un mètre des radiateurs ou des sources de chaleur
- Eviter le contact direct avec certains métaux (Cuivre, Manganèse...)
- Eviter tout contact avec des surfaces abrasives, anguleuses et tranchantes
- Les matériaux des boîtes, des emballages et des revêtements ne doivent pas contenir de substances nuisibles pour les courroies, tels que le cuivre, les naphténates, les créosotes...

Rotation des stocks : Il est souhaitable que les courroies sortent des magasins à tour de rôle, de façon à ce que celles restant en réserve soient celles de la dernière fabrication ou livraison.

Nettoyage : Le nettoyage des courroies à l'eau et au savon est le plus inoffensif. On ne doit utiliser ni solvant organique tels que le trichloréthylène, le tétrachlorure de carbone ou l'éther de pétrole, ni abrasif ou instrument pointu ou tranchant. Les courroies nettoyées doivent être séchées à température ambiante.



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WEDGE BELTS VECO 200® ATEX COMPLIANT, LONGLIFE, LABEL DYNAM®

Technical characteristics

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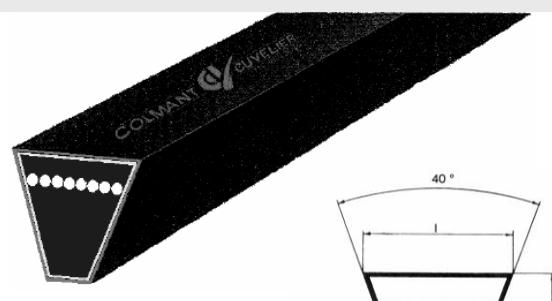


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Function

Flexible link between the motor and the machine which transmits high power.
High quality belts which can be used in hard conditions atmosphere and each time the security factor is important (mines, petroleum industries).



Conception

Endless V belts are made of :

- polychloroprene rubbers which guarantee a constant hardness
- polyester cord with controlled elasticity and high capacity of traction
- single wrapping (for SPZ sections) and double wrapping (for SPA, SPB and SPC sections) impregnated with polychloroprene compound which resists heat, oil, abrasion and ozone aggressions.

General Specifications

- working temperature : -35° to + 100°C ; + 120°C in peak
- antistatic following standard NF T 47 104 / ISO1813
- V belt sections following standard E 24 - 213
- resistant to oil projection, hydrocarbure and diluted acids ISO1817
- quality "ignifuge" : fire resistance according to standard S4 (sept. 86) French mines
- endure centrifugal strength
- good draining of heat at high speed
- reduce bulkiness of transmission :
 - smaller and lighter pulleys
 - smaller protection carter
 - higher speed solutions

SECTION	<i>l</i>	<i>h</i>	<i>lp</i>
SPZ	9.7	8	8,5
SPA	12.7	10	11
SPB	16.3	13	14
SPC	22	18	19

Stabilisation Process "ST"

The stabilization process "ST" guarantees a small and continuous margin on the length. The length of V. belts follows the standard NF ISO 4184.

It means:

- easy to install
- even distribution of loads on multiple belt drives
- eliminate vibrations

Marking

6 C MADE IN EU VECO 200 5000 SPC DYNAM LONGUE DUREE

COLMANT CUVELIER

ATEX COMPLIANT ST

On our DYNAM belts, you can read:

- the production date (codes for month and year) : 6C
- ST mark
- the pitch length measured under strength, as well as the section: 5000 SPC
- quality "IGNIFUGE LONGUE DUREE" in red

THE "LABEL DYNAM"

Design

The DYNAM® system allows us to supply a pre-tensioned belt. This system ensures the correct tension by the mere reading of the length between 2 marks. This measure only requires to be done once when tensening the belt. There is no need to check the tension twice. (see data sheet n°10003).

Performance

- The 1 % slip guarantees a performance of 95 %.
- Improved transmitted power by 20 %.
- Optimum performance is obtained when the linear speed is between 30 m/s and 33 m/s.
- The power transmitted is the same as the Veco 200 Label Dynam range



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COLMANT CUVELIERRPS

member of SANOK RUBB



WEDGE BELTS VECO 200® ATEX COMPLIANT, LONGLIFE, LABEL DYNAM®

Technical characteristics

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Fiche Technique - Technical Data Sheet



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03-2018

Pitch lengths of our V belts (in mm)

The sections of V belts VECO 200® with "label DYNAM" that we can supply are : SPZ, SPA, SPB, SPC. Only the sizes in yellow are available with the DYNAM System.

SPZ (10 x 8)				SPA (13 x 11)				SPB (16 x 14)				SPC (22 x 18)		
630	1000	1600	2800	800	1250	1600	2800	1250	2240	4500	2000	4000	8000	
710	1120	1800	3150	900	1400	1800	3150	1400	2500	5000	2240	4500	9000	
800	1250	2000	3550	1000		2000	3550	1600	2800	6300	2500	5000	10000	
900	1400	2240		1120		2240	4000	1800	3150	7100	2800	5600	11200	
		2500				2500	4500	2000	3550	8000	3150	6300	12500	
									4000		3550	7100		
Lp = li + 38				Lp = li + 45				Lp = li + 60				Lp = li + 83		
Lp = le - 13				Lp = le - 18				Lp = le - 22				Lp = le - 30		
Weight / metre 0,078 kg				Weight / metre 0,139 kg				Weight / metre 0,228 kg				Weight / metre 0,425kg		

Lp : pitch length; li : internal length ; le : external length

Stocking conditions

Belts must be stocked under the following conditions :

- the room must be dry, without dust and well ventilated.
- temperature must be between +5°C and +25°C.
- no condensation, maximum humidity of air : 65 %.
- avoid direct sun light and high artificial light due to ultraviolet.
- avoid contact with chemical products, solvent, petrol, lubricant, acid, volatile components, greases.
- no material which can produce ozone, like high tension electric material, electric motors or other materials which can produce sparks or electric discharges.
- the stocked belts must not have been stressed, compressed or deformed.
- set them more than 1 meter from radiators or heat source.
- avoid direct contact with some kinds of metal (copper, manganese, ...)
- avoid contact with sharp, abrasive and angular surfaces.
- the material of boxes, packings and the coverings must not contain nocive substances for the belts like copper or creosotes.

Stock turn : The best thing to do is : "first in, first out"

Cleaning : Cleaning with water and soap is harmless. You must never use organic solvents like trichlorethylene, carbone tetrachlorure or ether of petrol, no abrasive nor sharp tools. The cleaned belts must be dried at ambient temperature.



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**TROUBLES AND SOLUTIONS**

Troubles	Causes	Remedies
<u>Belt breaking after fitting</u>	<ul style="list-style-type: none"> - Forcing belt over pulley when fitting, damaging cord and cover - Ingress of a foreign body - Insufficient belts for drive 	<ul style="list-style-type: none"> - Change the belt without forcing - Check drive details
<u>Cuts and splits in the base of the belt</u>	<ul style="list-style-type: none"> - Outside idler pulley in use - Use of the internal face of the belt - Pulley diameter too small 	<ul style="list-style-type: none"> - Replace with inside idler pulley - Using the recommended minimum pulley pitch diameter
<u>Belt cannot be retensioned</u>	<ul style="list-style-type: none"> - Regulation is too small - Excessive stretch - Belts from different manufacturers used on the same drive 	<ul style="list-style-type: none"> - Increase the regulation possibility - Recalculate drive design and modify - Replace with new matched set of belts - Change the complete set
<u>Friction, belt turn over in pulleys</u>	<ul style="list-style-type: none"> - Poor drive alignment - Incorrect pulley groove section - Use of the grooves - Vibrations - Low belt tension - Excessive wear on belts flanks 	<ul style="list-style-type: none"> - Realign or replace the pulleys - Retension belt - Renew the belt - Use banded belt VECOBAND®
<u>Excessive wear on belts flanks</u>	<ul style="list-style-type: none"> - Incorrect pulley groove angle - Incorrect pulley section - Excessive wear in pulley grooves - Poor drive alignment 	<ul style="list-style-type: none"> - Renew pulleys - Realign
<u>Break of belts flanks</u>	<ul style="list-style-type: none"> - Heating of the belt - Too high temperature (> 80 °C) - Slid 	<ul style="list-style-type: none"> - Remove source of heat - Use "LONGUE DUREE®" belts - Retension belt
<u>Excessive noise</u>	<ul style="list-style-type: none"> - Incorrect belt tension - Overload drive 	<ul style="list-style-type: none"> - Retension belt - Check drive details and redesign if necessary
<u>Overload of bearings</u>	<ul style="list-style-type: none"> - Overload or overdimensionned drive - Belt tension too high 	<ul style="list-style-type: none"> - Redesign drive - Control the tension again
<u>Belt swelling or softening</u>	<ul style="list-style-type: none"> - Contamination by oil or other chemicals - Temperature too high > 80 °C 	<ul style="list-style-type: none"> - Protect drive from contamination - Clean pulley's grooves - Use "LONGUE DUREE®" belts
<u>Inegal use of the wrapping</u>	<ul style="list-style-type: none"> - Rough pulleys - Excessive dust 	<ul style="list-style-type: none"> - Change the pulleys - Equalize the surfaces of the pulleys
<u>Separation of the belts</u>	<ul style="list-style-type: none"> - Non standard pulleys - Excessive belt tension 	<ul style="list-style-type: none"> - Redesign drive - Do the installation of belts again
<u>Return of the belts</u>	<ul style="list-style-type: none"> - Misalignment of pulleys - Excessive vibrations - Used pulleys 	<ul style="list-style-type: none"> - Renew pulleys - Control the alignment
<u>To long or to short belts</u>	<ul style="list-style-type: none"> - Wrong belts - Wrong drive installation - Low belt tension 	<ul style="list-style-type: none"> - Renew belts - Check drive installation
<u>Lenght problems</u>	<ul style="list-style-type: none"> - Used pulleys - Mix of new and old belts - Non parallel shafts - Belts provided by several suppliers 	<ul style="list-style-type: none"> - Replace with new matched set of belts - Renew the pulleys - Check alignment - Use only new belts - Use VECOBAND® belts