



# FLEXONIC®

THE ORIGINAL ELASTIC BELT FOR INDUSTRY

We make it **possible**



## INSTALLING THE FLEXONIC®

The **FlexXonic®** belts can be installed on all standard Poly V® pulleys (ISO 9982 norm). In certain cases, smooth pulleys can be used.

Installing the **FlexXonic®** can be done in record time.



Hutchinson offers a wide range of installation tools.

We can also work with you to develop a custom solution.

At the installation stage, Hutchinson's **Easytec** tension meter checks the tension of your belt and optimises the lifespan of your transmission.

Various installation methods are possible: **Possible to vary center distance**



Installation with center distance adjustment.

**Fixed center distance**



Directly fitting the belt on pulley without a tool

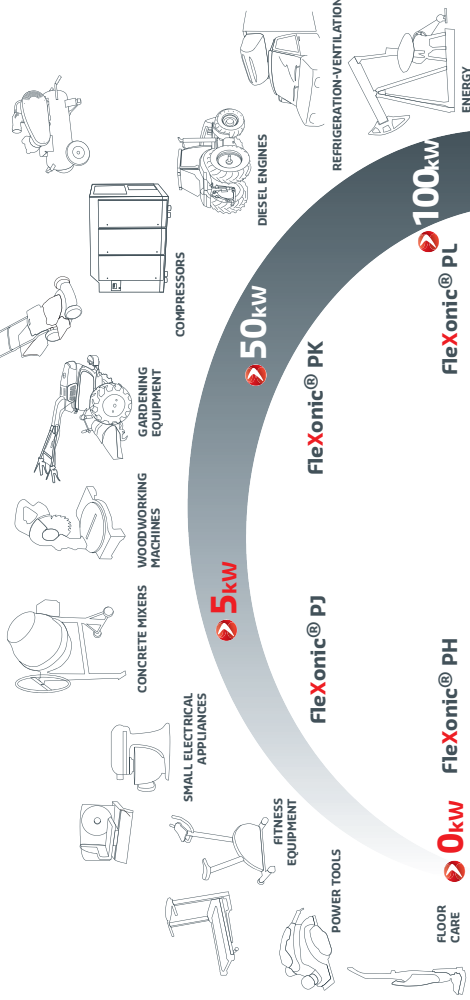


Installation with an eccentric pulley



Fitting the belt to the pulley with a SNAP ON tool

## APPLICATIONS



## CONTACTS

HUTCHINSON DISTRIBUTOR



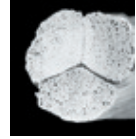
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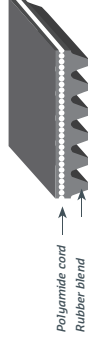
## STRUCTURE

The **FlexXonic®** elastic polyamide cord has better mechanical properties. It can tolerate temperatures of over 100 °C and maintains an identical tension throughout the transmission's lifespan.

Range of main structures (polychloroprene, polybutadiene and EPDM).



Hutchinson cord, patented technology

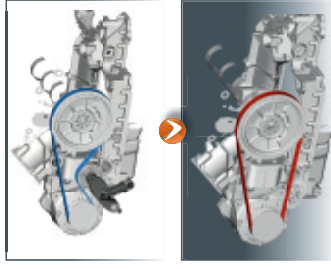


Polyamide cord  
Rubber blend



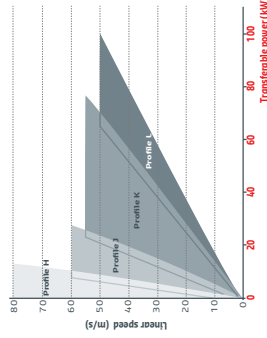
## CHARACTERISTICS

- Level of **tension adapted** to each transmission.
- Due to its composition it can adapt to **temperature variations**: from -40°C to +120°C.
- Wide power range: from **0 to 75 KW**.
- Compatible with **standard Poly V® pulleys** in accordance with the ISO 9982 norm.
- Possible to install on **fixed center distances**.
- No need to re-tension the installation.



## POWER RANGE

The different profiles offer a **wide range of power and speed settings**.



	FlexXonic® PH	FlexXonic® PJ	FlexXonic® PK	FlexXonic® PL
Thickness*	2,3mm / 2,5mm	3,2mm / 3,3mm / 3,5mm	4,6mm	7mm
Minimum diameter	9mm	18mm	45mm	70mm
Maximum linear speed	80m/s	60m/s	55m/s	50m/s
Setting tension	25 to 35N/rib/span	35 to 50N/rib/span	90 to 110N/rib/span	135 to 200 N/rib/span
Available structures	Polychloroprene Polybutadiene	Polychloroprene Polybutadiene EPDM	Polychloroprene Polybutadiene EPDM	Polychloroprene Polybutadiene

\*values for information



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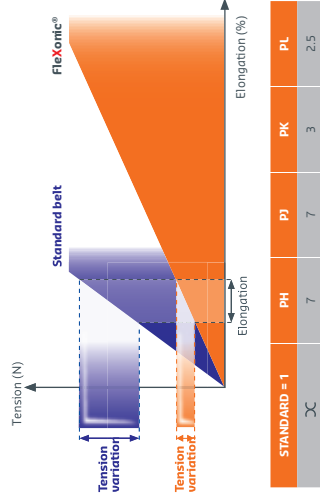


# FLEXONIC®



## TENSION AND ELONGATION

The module which is lower than a standard belt results in **(for identical elongation variations)** a lower tension variation that can attenuate the majority of process dispersions.



$$\left( \alpha = \frac{\text{variation of tension with a standard belt}}{\text{variation of tension with the FlexXonic® belt}} \right)$$



## TENSION RELIABILITY AND STABILITY

The FlexXonic® tension can be stabilised after just a few minutes in dynamic performance mode. **Tension will not change throughout the lifetime of the belt.**



No need for maintenance operations to re-tension V-belts. The FlexXonic® belt's elastic properties guarantee automatic and continuous tension.



## ABSORBS VIBRATIONS AND REDUCES NOISE LEVELS

The cord's elastic properties ensure a good level of absorption of the dynamic of the installation and NVH (Noise, Vibration and Harshness).

### Comparison of the FlexXonic® belt and a V-belt:

The FlexXonic® monoblock belt replaces several V-belts, absorbs shocks and eliminates belt flapping.



### Comparison of the FlexXonic® belt and a synchronous belt:

The FlexXonic® belt absorbs vibrations and eliminates operating noises (e.g. squealing) common to synchronous belt transmissions.



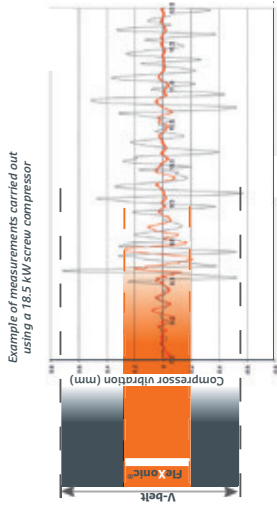
## REDUCED COSTS

- 1 Reduced development time.**
- 2 Reduced acquisition costs.** no need for tensioning device.
  - Reduced weight and compactness of transmission.
  - Reduced pulley diameter.
- 3 Standardisation and rationalisation of references.**
- 4 Simplified installation on site:** saves time and increases productivity.
  - Installed on fixed center distance with standard grooved pulleys (Poly V®).
  - Auto matic tensioning.
- 5 Increased lifespan of transmission components.**
  - Using the FlexXonic® belt avoid the need to adjust the tension. Over-tensioning due to repeated maintenance operations and adjustment errors is also eliminated.
- 6 Reduced energy costs** (better transmission efficiency).
- 7 Reduced maintenance budget:**
  - No need for re-tensioning and verification operations.
  - Increased lifespan of the belt.

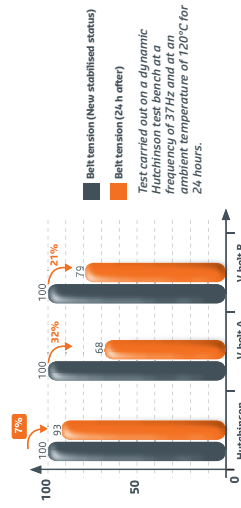
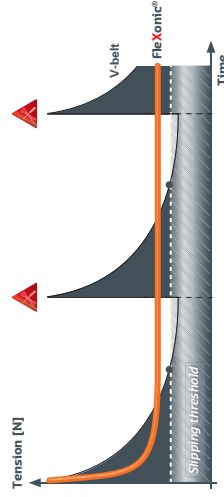


## CAPTIVE AFTERMARKET

As the FlexXonic® belt is specially dimensioned for your application, you can reinforce your position in the spare parts market as well as improving customer follow-up.



The FlexXonic® belt maintains its tension over time and thus improves transmission (98%).



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