## **FLEXONIC®**

#### INSTALLING THE FLEXONIC® X

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

Installing the **FleXonic**® 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.



Directly fitting the

without a tool

belt to the main pulley

adiustment

**Fixed center distance** 

Various installation methods are possible:

Installation with center distance

Possible to vary center distance

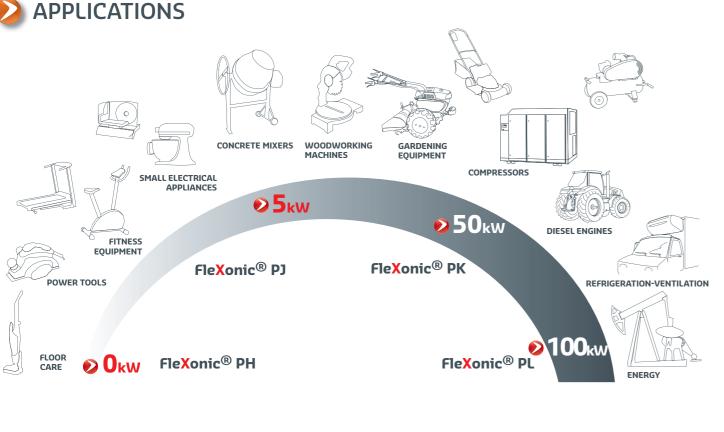


Installation with an eccentric pulley



Fitting the belt to the

main pulley with a SNAP ON tool



CONTACTS HUTCHINSON DISTRIBUTOR





## STRUCTURE

The **FleXonic**<sup>®</sup> 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).

## **CHARACTERISTICS**

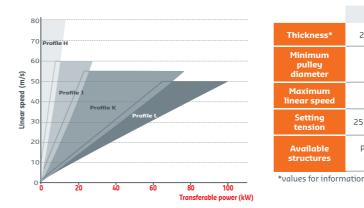
Level of tension adapted to each transmission.

- Due to its composition it can adapt to **temperature** variations: from -40°C to +120°C.
- Wide power range: from 0 to 100 kW.
- Ocompatible with standard Poly V<sup>®</sup> pulleys in accordance with the ISO 9982 norm.
- Possible to install on fixed center distances.

No need to re-tension the installation

## **POWER RANGE**

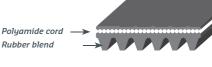
The different profiles offer a wide range of power and speed settings.



# THE ORIGINAL ELASTIC BELT FOR INDUSTRY

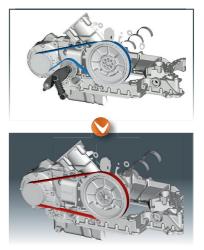
The FleXonic<sup>®</sup> is a power transmission elastic belt featuring multiple longitudinal ribs. Each **FleXonic**<sup>®</sup> belt is custom sized for your application. Our technical teams calculate and decide

The **FleXonic**<sup>®</sup> belt can be installed on a fixed center distance. Its elastic polyamide cord gives it unrivalled





Hutchinson cord, patented technology



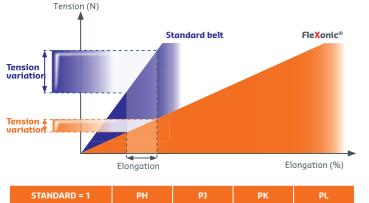
Fle <mark>X</mark> onic® PH	Fle <mark>X</mark> onic® PJ	Fle <mark>X</mark> onic® PK	FleXonic® PL
2.3mm / 2.5mm	3.2mm / 3.3mm / 3.5mm	4.6mm	7mm
9mm	18mm	45mm	70mm
80m/s	60m/s	55m/s	50m/s
25 to 35 N/rib/span	35 to 50 N/rib/span	90 to 110 N/rib/span	135 to 200 N/rib/ span
Polychloroprene Polybutadiene	Polychloroprene Polybutadiene EPDM	Polychloroprene Polybutadiene EPDM	Polychloroprene Polybutadiene





## 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.



variation of tension with a standard belt

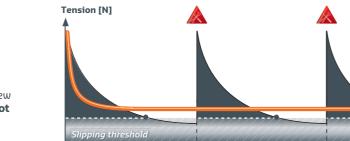
variation of tension with the **FleXonic**<sup>®</sup> belt

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**The FleXonic**<sup>®</sup> belt maintains its tension over time and thus **improves** transmission (**98%**).

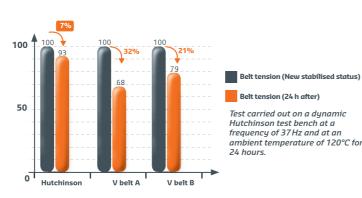




/-belt

Time

FleXonic



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 FleXonic® belt and a V-belt:

**The FleXonic**<sup>®</sup> monoblock belt replaces several V-belts, absorbs shocks and eliminates belt flapping.

pollution

#### Comparison of the FleXonic<sup>®</sup> belt and a synchronous belt for a portable compressor:

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

## REDUCED COSTS

Reduced development time.

## 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 FleXonic<sup>®</sup> 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.
- -10%

-5



As the **FleXonic**<sup>®</sup> belt is specially dimensioned for your application, you can reinforce your position in the spare parts market as well as improving customer follow-up.

TENSION RELIABILITY AND

2.5

The FleXonic's<sup>®</sup> 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 FleXonic**<sup>®</sup> belt's elastic properties guarantee automatic and continuous tension.

