

NEW
The Universal Solution

ConveyXonic™

ConveyXonic™, the revolution in roller conveyors

Cost Savings :

- At least a 30% savings.
- Decreased electrical consumption.
- Reduced inventory costs.
- Budget cuts on maintenance.

Ease of Use :

- Universal standard shelf product.
- Automatic or semi-automatic installation.
- Worldwide product line availability.
- Simplified installation thanks to the product's elasticity.

Technical Performances :

- The only technology capable of transporting packages from 1 to 1 200 Kg (2lb to 2600 lb).
- Power transmission 4 times greater than a round belt.
- Rapid and smooth package flow (2m/s).

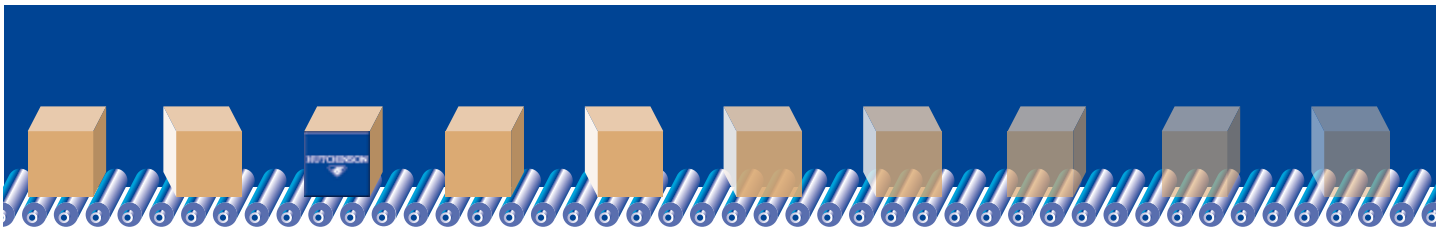
Customer Confidence :

- Durable and clean system.
- Reliable and quiet technology.
- Guaranteed efficiency and ROI.
- ISO Standard 9982

MOTOR OF INNOVATION

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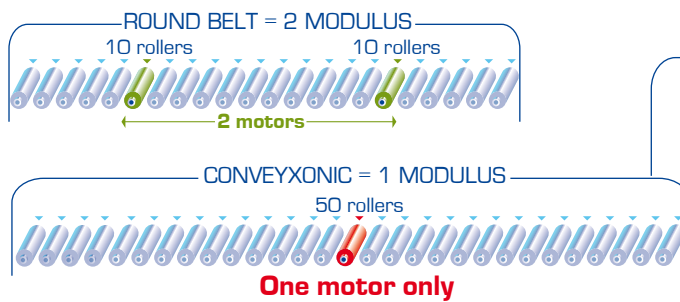




Cost Savings

MOTOR

Considering the exceptional mechanical properties of the ConveyXonic™ belt, **only one motor** is needed **to power 50 rollers** generating at least a **30% cost savings** per module.



This device is designed also for curve conveyor lines.



ELECTRICITY

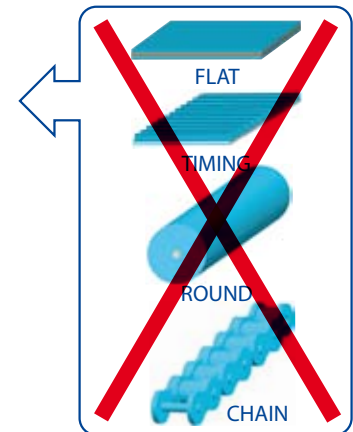
The efficiency of ConveyXonic™ **reduces the electrical consumption** of the motor.

INVENTORY

Only one item to stock : ConveyXonic™ **is the « 4 in 1 » belt** capable of replacing 4 systems used in conveyors. (Flat belt, round belt, timing belt and chain).

MAINTENANCE

Hidden costs will disappear : no need for lubricants, no corrosion, no initial tensioning or subsequent retensioning.



Technical Performance

MORE POWER

With a **potent torque transmission (4 times greater than a round belt)**, ConveyXonic™ transports ever heavier loads.

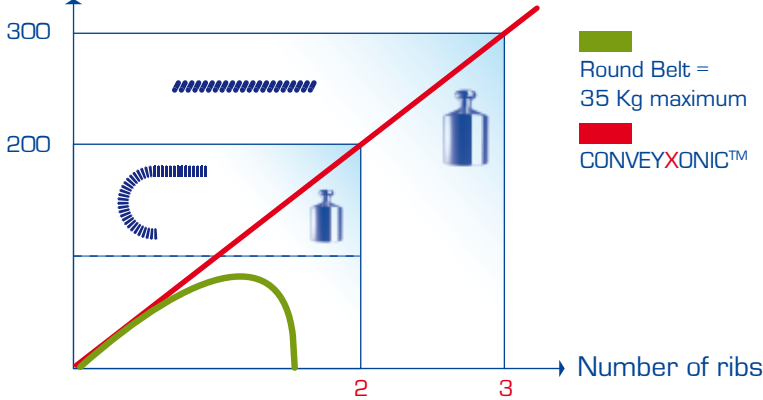
INCREASED SPEED

Small and thin, the ConveyXonic™ belt **increases the speed of package flow – up to 2m/s** – as a smooth operation.



ConveyXonic™ belt performance in straight and curve conveyors compared to o-ring

WEIGHT OF PACKAGES (Kg)



Calculations performed per package weight spread over 4 rollers (rollers of ø 48-50mm)

ConveyXonic™ belt performance compared to a timing belt :

- The **elasticity** of the ConveyXonic™ allows it to stretch, avoiding the tearing of the belt,
- The ConveyXonic™ belt is **already available** in the most common sizes,
- The drive performs more **quietly** across the entire conveyor line,
- When overloaded, the ConveyXonic™ belt is not damaged thanks to the form of its ribs, Thereby **securing** the drive components.

Ease of Use

READY TO USE

The ConveyXonic™ belt with 2, 3 ribs **fits standard identical rollers** regardless of the weight you wish to transport.

The ConveyXonic™ product line has **already been designed for you:**

Nominal center distance		ConveyXonic™	
		2 ribs 1-200 Kg	3 ribs 200-300 Kg
(inches)	(mm)		
2,36	60	PJ 256	
2,87	73	PJ 282	
3,00	75	PJ 286	
3,70	94	PJ 316	
4,00	100	PJ 336	
4,30	105	PJ 346	
4,72	120	PJ 376	
5,23	133	PJ 416	
6,30	160	PJ 456	

Primarily available for rollers with a 50 mm diameter.

* Beyond 700 Kg, contact us.

INSTALLATION

Automatic of semi-automatic installation of the ConveyXonic™ belt is performed with a **simple wrist** movement.

AVAILABILITY

Our ConveyXonic™ belt is **available in stock** for quick delivery **worldwide** via a **network of knowledgeable distributors and integrators.**





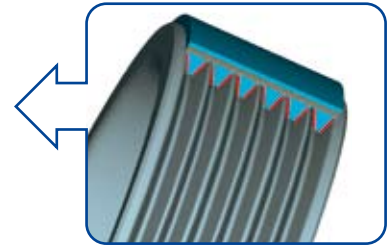
Customer Confidence

DURABILITY AND CLEANNESS

The ConveyXonic™ belt has a **long life-span** and requires no **special maintenance**.

RELIABILITY AND SILENCE

The elastic properties of the ConveyXonic™ belt **prevent from the susceptibility of the belt to jump and minimize noise** by absorbing shocks, vibrations and flappings.



EFFICIENCY AND ROI

With the ConveyXonic™ belt, roller conveyors can **withstand continuous use up to a 24/7 cycle**.

ConveyXonic™ belt performance on pallet conveyors :

The ConveyXonic™* belt can replace chains, offering the following advantages :

- **quiet**, loads to 1.20 T
- **clean**
- **maintenance free** (no grease necessary)

*ø 80-89mm, for other diameters, please ask



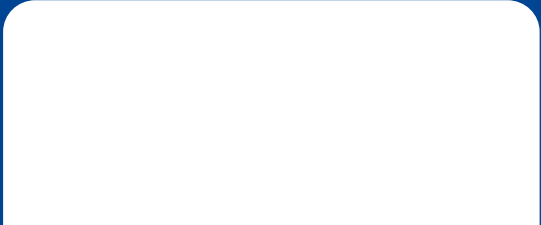
Help us push the limits of the ConveyXonic™ belt on :
transfer lines, sloping conveyors, twisted belts ...

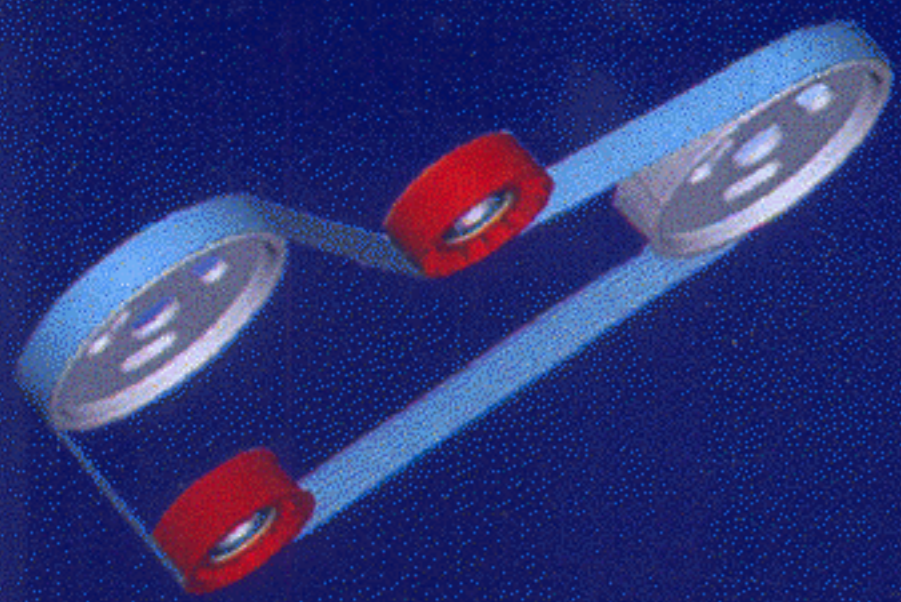
Contact us :



**HUTCHINSON TRANSMISSION
POLY V® SERVICE**

Rue des Martyrs - B.P. 42 - 37304 Joué-les-Tours Cedex - Tel : + 33 2 47 48 39 99 - Fax : + 33 2 47 48 38 34
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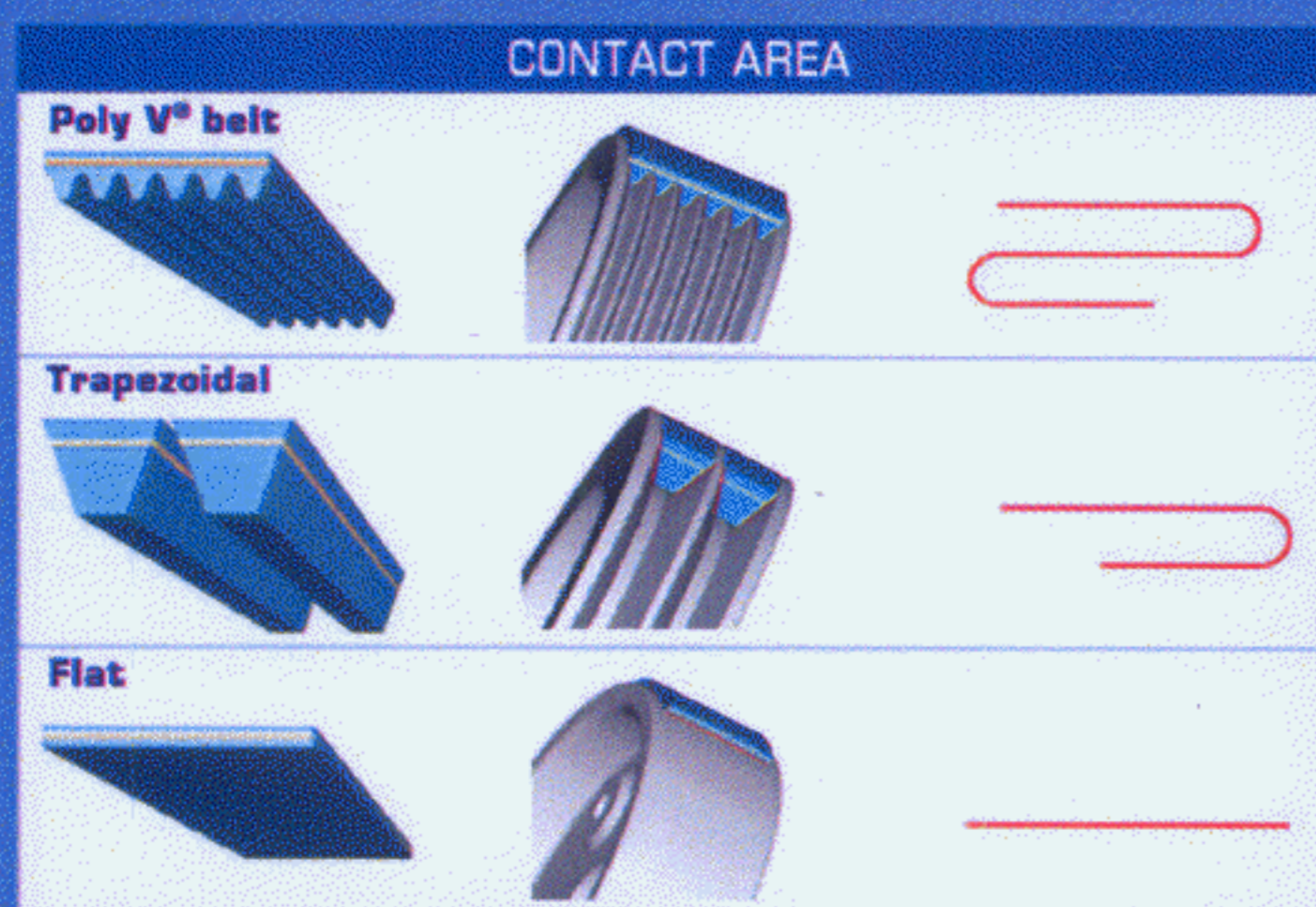


HUTCHINSON POLY V[®]

The belt for all applications

PRESENTATION :

The Poly V[®] belt is a power transmission belt featuring lengthwise grooves. It operates from contact between the ribs of the belt and the grooves in the pulley. Its single-piece structure guarantees an even distribution of tension across the width of the pulley where the belt is in contact.



ADVANTAGES :

Multipurpose :

- Power range up to 600 kW.

Economical :

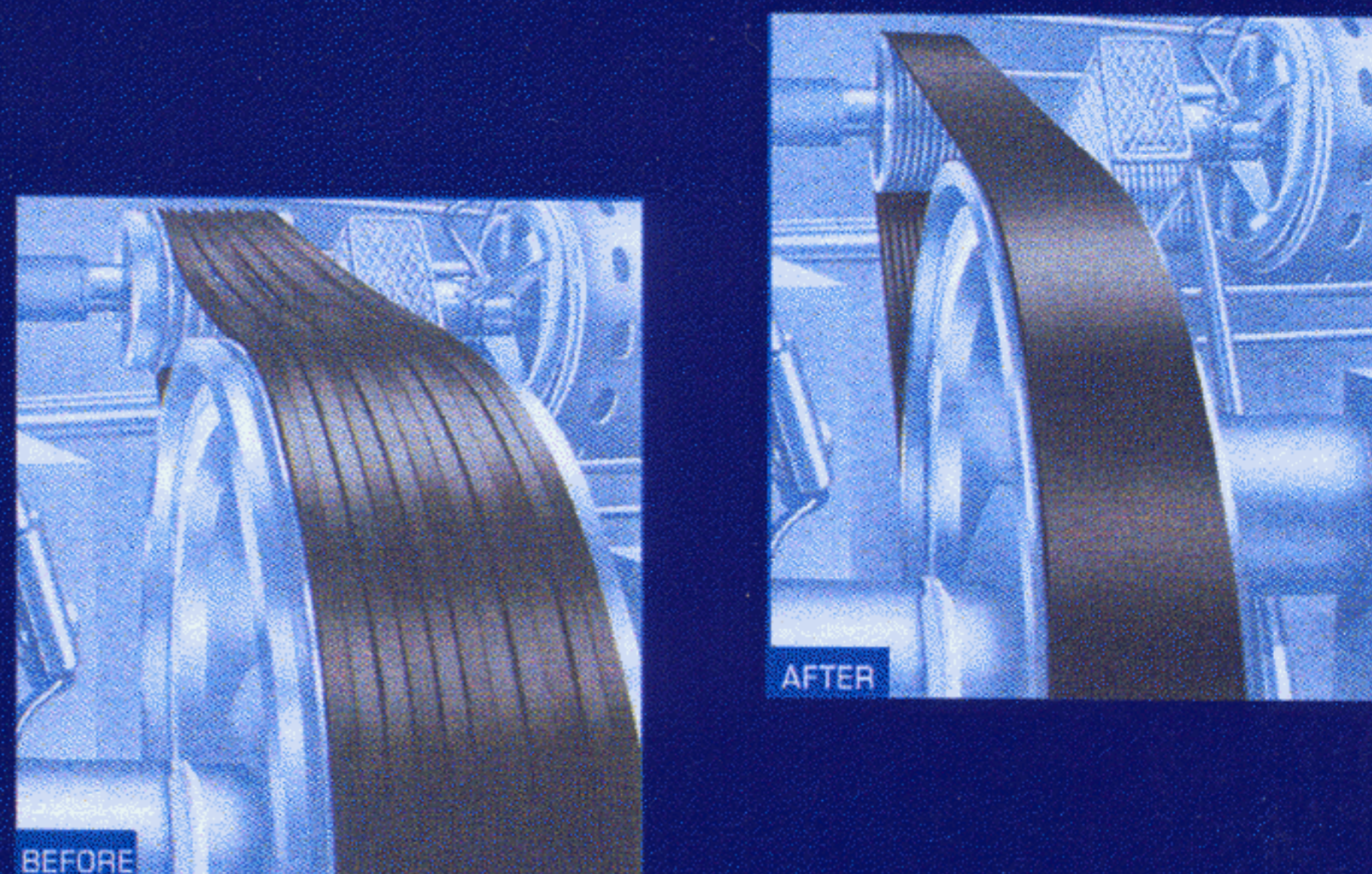
- Reduction in the Poly V[®] pulley diameters compared to trapezoidal belt pulleys (Poly V[®] : 9 mm ; trapezoidal : 50 mm).
- Decreased maintenance costs.
- Quick fitting (a single Poly V[®] can replace up to 15 V belts).
- Only one Poly V[®] per transmission.

Reliable :

- Longer life.
- Stability and homogeneity of the drive tension.

APPLICATIONS :

Agricultural equipment, cement mixers, cooling plants, fans, spraying equipment, food mixers, flour mills, centrifuges, printing machines, escalators, hammer mills, calenders, extruders, saws, crushers, wood working equipment, column drills, fitness cycles, single-action pumps, sowers, lawn mowers, floor polishers, industrial washing machines, hydraulic turbines...



Compact :

- High speed ratio (Poly V[®] 1 : 60 ; V belts 1 : 20)
- Serpentine drives (possibility to drive off the back of the belt).
- Winding around pulleys with small diameters (9 mm).
- No matching.

Silent :

Reduced vibration

- ↳ Reduced tension decay.
- ↳ Eliminates belt flap.
- ↳ Reduced level of noise (up to 3 dB).

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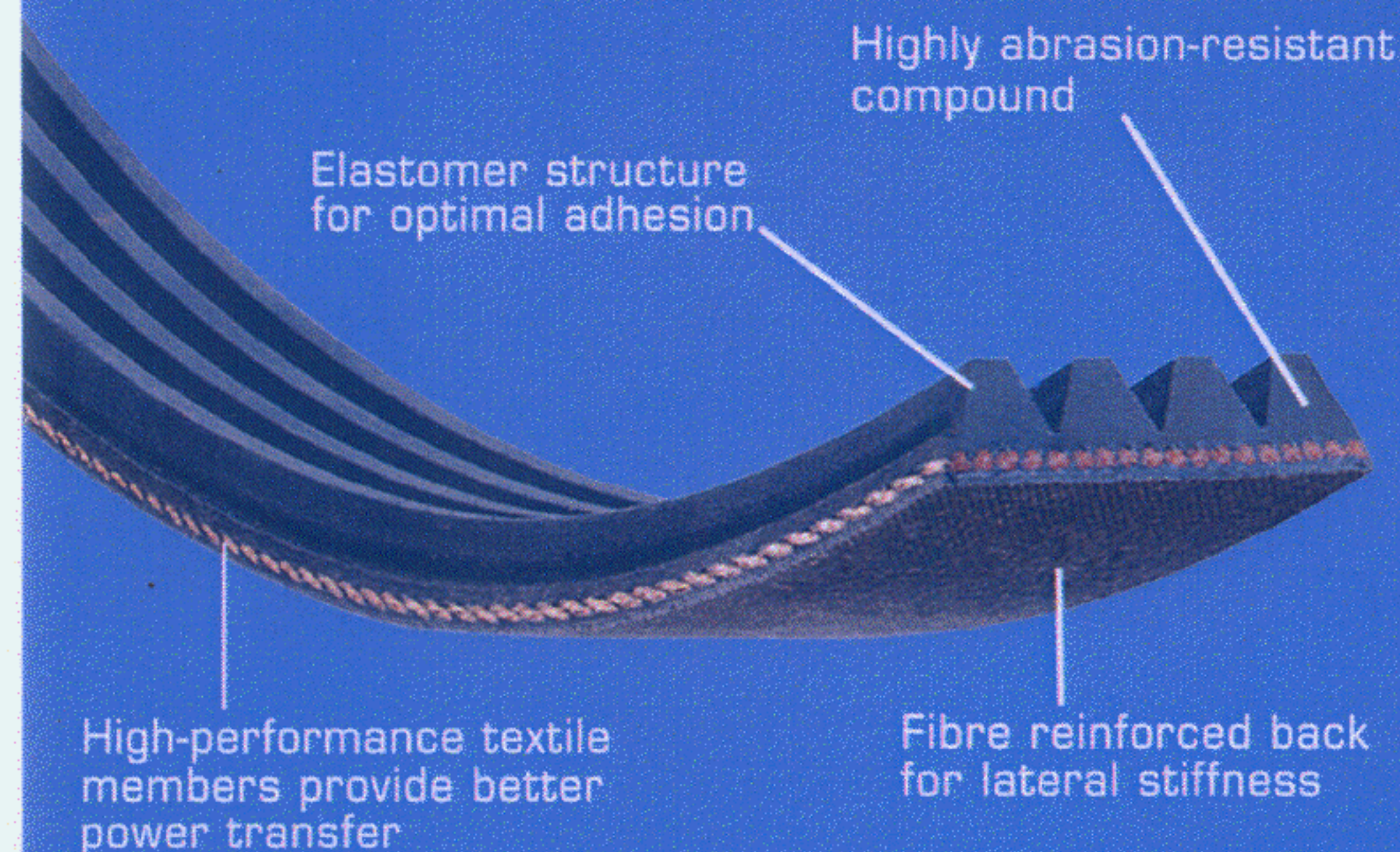


HUTCHINSON POLY V[®]

GENERAL DATA :

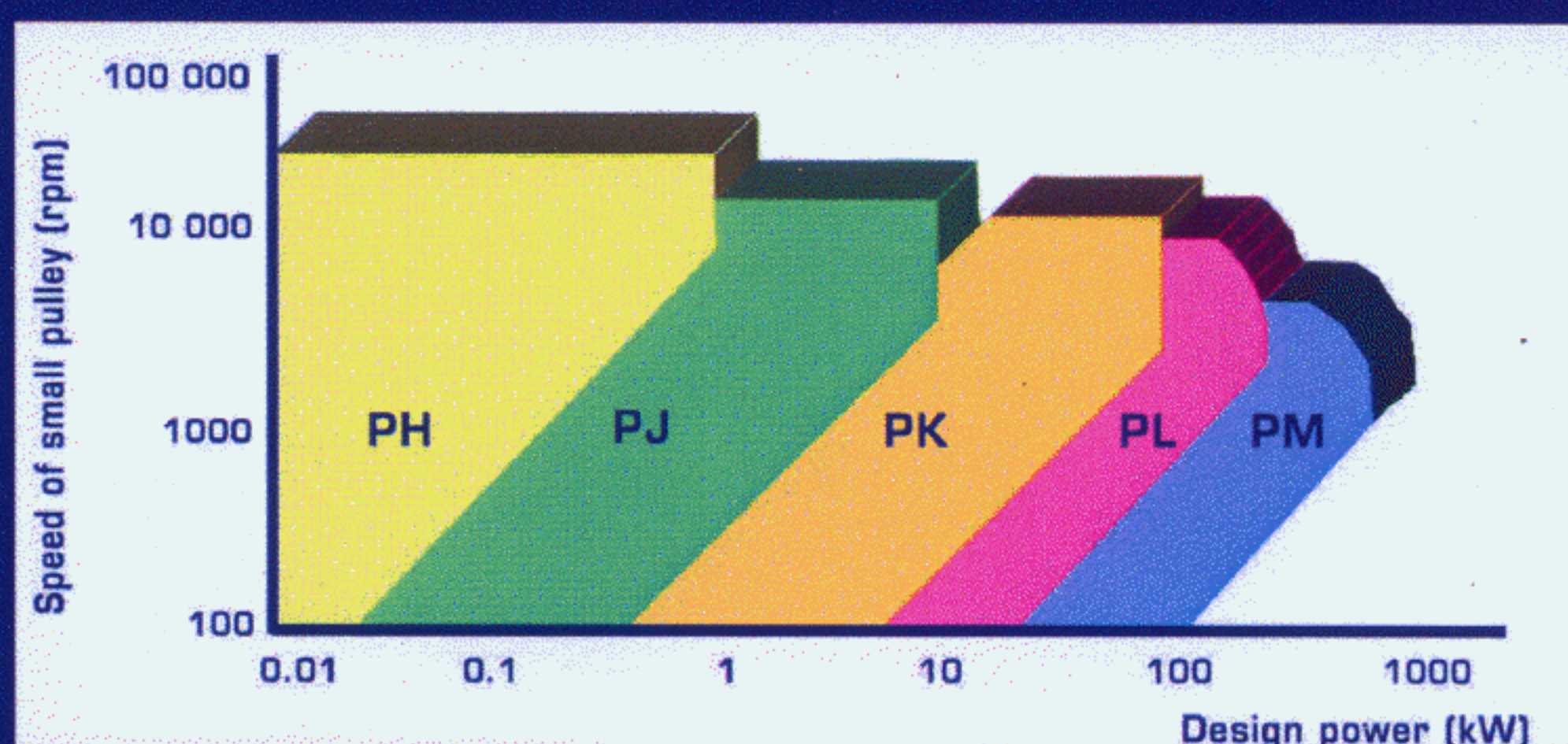
- High performance textile members
- Easy bending and counter flexing (minimal diameter = 9 mm – PH section)
- Can be used on flat pulleys (speed ratio > 4)
- Optimum contact area
- Absorption of any shock-loading and overloads (minimal slipping)
- Compound adapted to extreme temperatures : -40°C to 100°C
- High motor out put (up to 98%)
- High belt speed (up to 90 m/s)

STRUCTURE :



CHOOSE YOUR POLY V[®] BELT :

5 Poly V[®] profiles to meet all of your transmission requirements.



Design your Poly V[®] belt drive with our on line calculation software.

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TECHNICAL DATA :

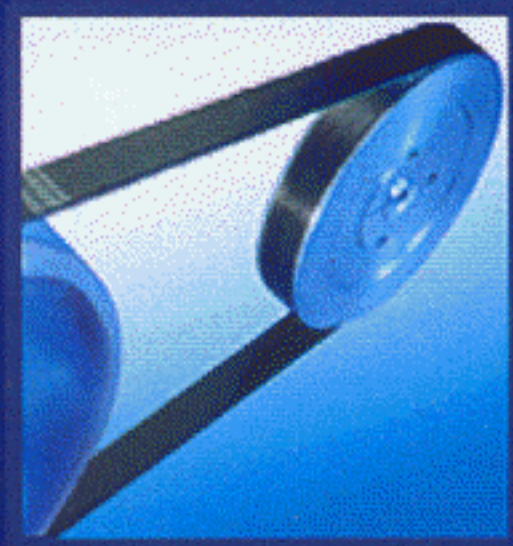
	Poly V [®] PH	Poly V [®] PJ	Poly V [®] PK	Poly V [®] PL	Poly V [®] PM
Thickness	2.7 mm	3.5 mm	5.0 mm	7.0 mm	12.0 mm
Minimum pulley diameter	9 mm	18 mm	50 mm	70 mm	180 mm
High linear speed	80 m/s	60 m/s	55 m/s	50 m/s	40 m/s
Linear mass	0.0042 kg/m/rib	0.008 kg/m/rib	0.020 kg/m/rib	0.032 kg/m/rib	0.110 kg/m/rib
Setting tension	25 à 35 N/rib/span	35 à 50 N/rib/span	90 à 110 N/rib/span	140 à 160 N/rib/span	450 à 550 N/rib/span

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HUTCHINSON TRANSMISSION
POLY V[®] SERVICE

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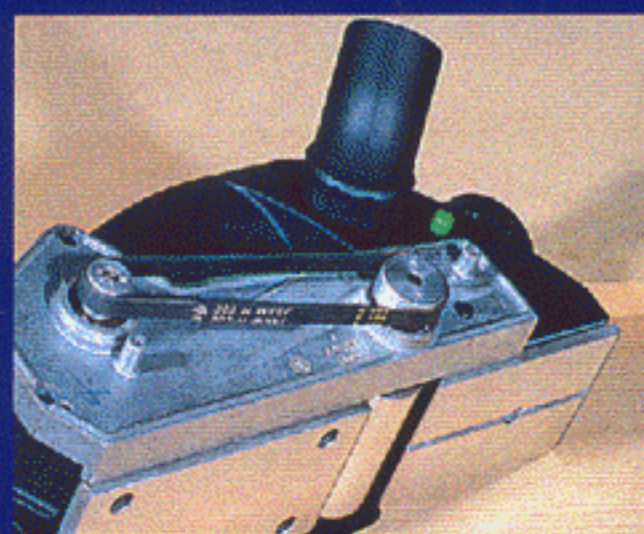


Flexonic®

The first flexible belt for industry

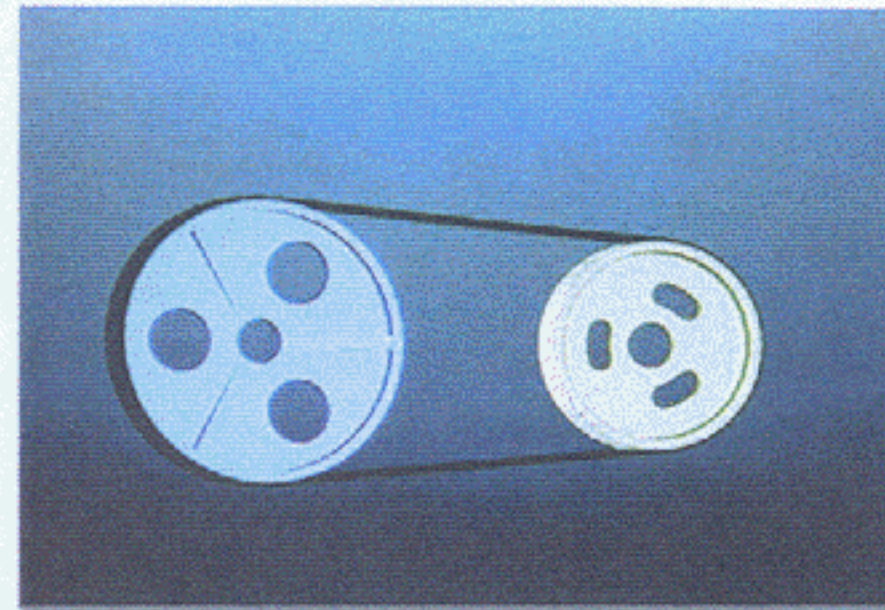
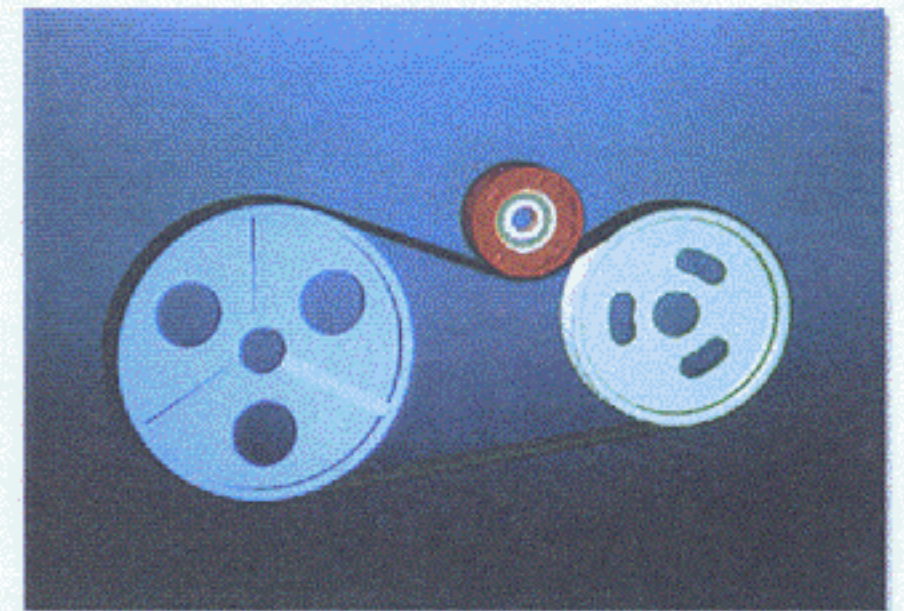
HIGH QUALITY DRIVE

- Compact drive
- Reduced vibration due to damping effect
- Increased effective power transmission
- Reduced noise level
- Uniform tension across belt width



APPLICATIONS FIELDS

Washing Machines / Industrial Blowers / Compressors / Wood Planing & Sanding Machines / Treadmills / Exercise Bicycles / Cement Mixers / Air Conditioning Units / Generators / Lawn and garden Equipment / Drives for Elevator Doors / Food Mixers / Agricultural Machinery / Concrete Cutting Saws / Vacuum Cleaners / Chainsaws / Floor Cleaners & Polishers / Miter Saws / and many more...



COST SAVINGS

- **Self tensioning - no need for tensioning devices**
- **Reduced maintenance cost due to :**
 - ➔ *No "take up" re-tensioning required*
 - ➔ *Increased belt life*
- **Quick and simple to fit in the field**
 - ➔ *Fixed center distances between pulleys*
 - ➔ *Uses standard Poly V® profile pulleys*
- **Increased life of transmission components**
 - ➔ *Damping effect reduces shock loading on bearings*

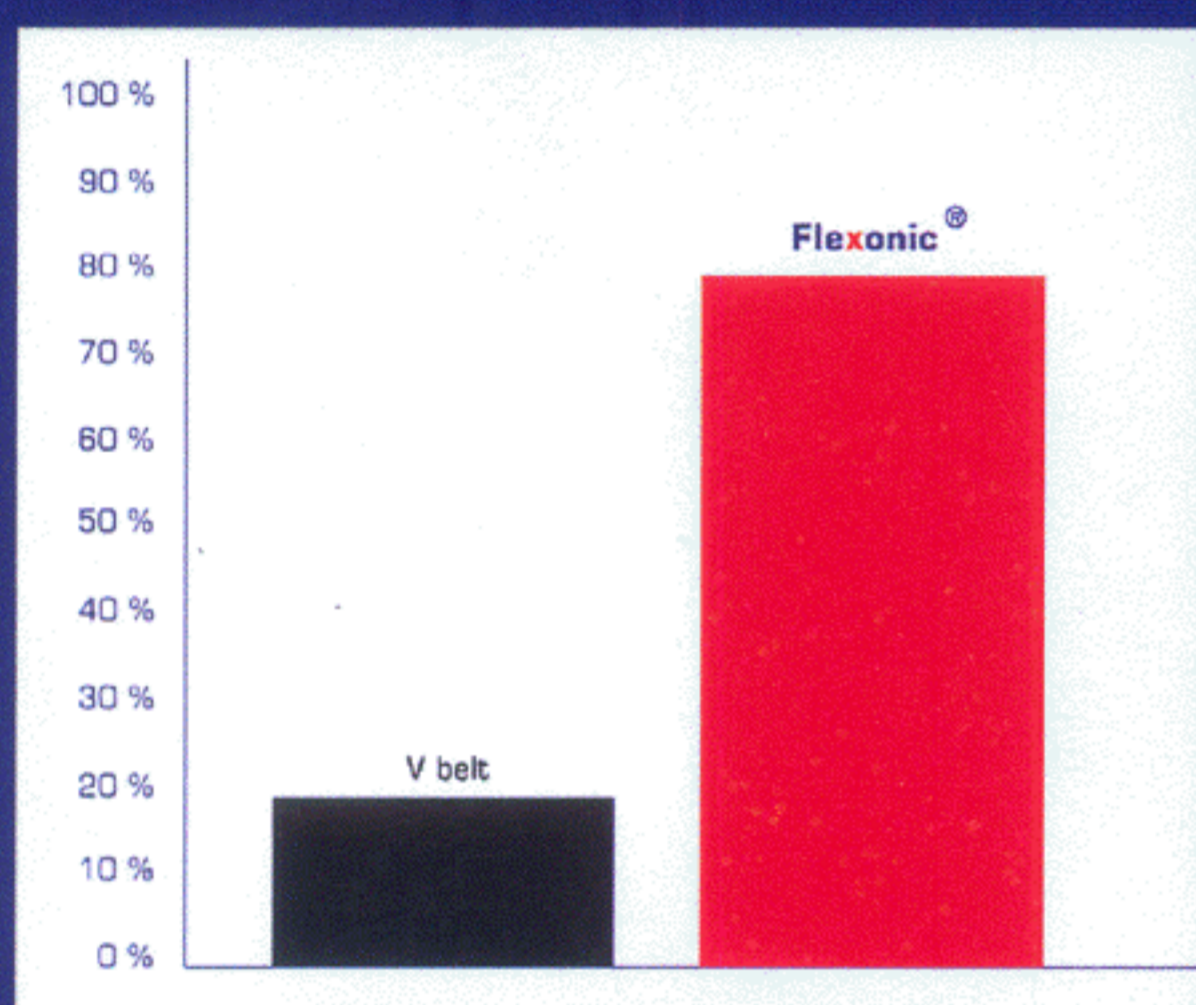
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GENERAL DATA

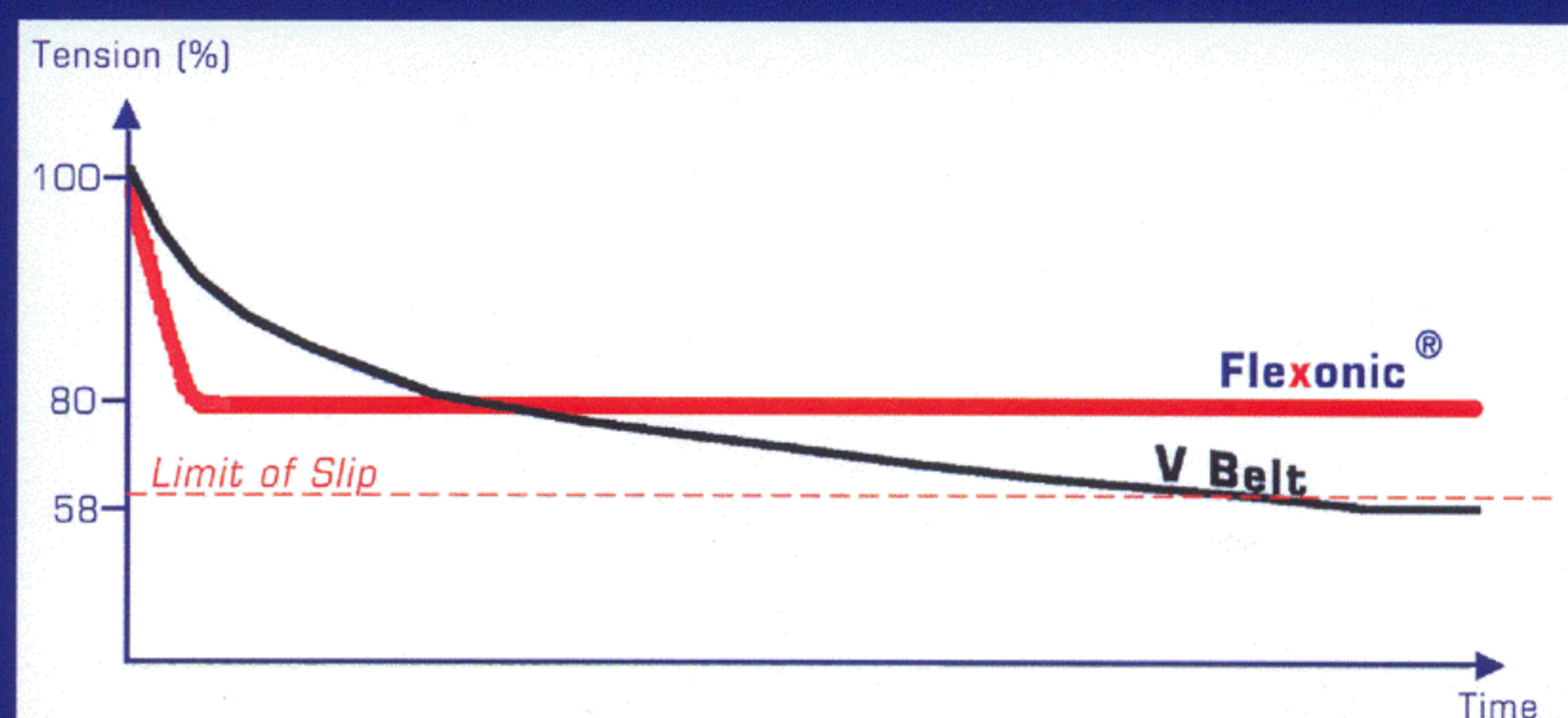
- An elastic Polyamid Tension Cord is built into the belt
- Increased flexibility
- The belt tension is engineered to suit each drive
- The compound is designed for extremes of temperature
- Power can be transmitted in a wide range, from 0 to 40 Kw
- Standard Poly V® pulleys to ISO 9982 can be used
- Used for simple 2 pulley drives, and multiple pulley "Serpentine" drives



ABSORBED VIBRATION



TENSION STABILITY



TECHNICAL DATA

	Flexonic® PH	Flexonic® PJ	Flexonic® PK
Thickness	2.3 mm/ 2.5 mm	3.2 mm/ 3.3 mm/ 3.5 mm	4.7 mm
Minimum pulley diameter	8 mm	16 mm	45 mm
High linear speed	80 m/s	60 m/s	55 m/s
Linear mass	0.0042 kg/m/rib	0.008 kg/m/rib	0.020 kg/m/rib
Setting tension	20 to 30 N/rib/span	30 to 50 N/rib/span	70 to 90 N/rib/span



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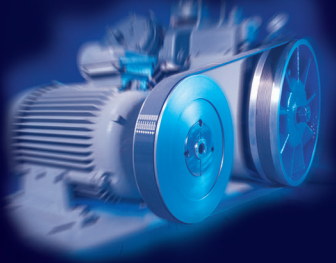
HUTCHINSON

will always find the solution...



- ✕ Quarrying & Mining
- ✕ Agriculture
- ✕ Food Processing
- ✕ Industry
- ✕ Hand Tools
- ✕ Air Conditioning / Heating & Ventilation
- ✕ Fitness Industry

...Together,
let us challenge the impossible !



THE POWER

- World number 1 for Industrial Rubber Products.
- 24,564 employees, 96 industrial sites throughout 5 continents.
- 1,620 degreed technicians in the group's R&D center.

Transfer of knowledge



HUTCHINSON TRANSMISSION SYSTEMS - YOUR PARTNER

- 1985 : First Poly V[®] belt on an Automotive engine application.
- 1987 : First MA elastic belt on a Washing Machine drive application.
- 2000 : First "PK" profile Poly V[®] belt for the Industrial Market.
- 2001 : First elastic FleXonic[®] belt for the Industrial Market.

HUTCHINSON TRANSMISSION SYSTEMS - SUPPORTING INDUSTRY

- A Systems approach
- Expertise combined with a high tech approach.
- A complete partnership

MOTOR OF INNOVATION

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