



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

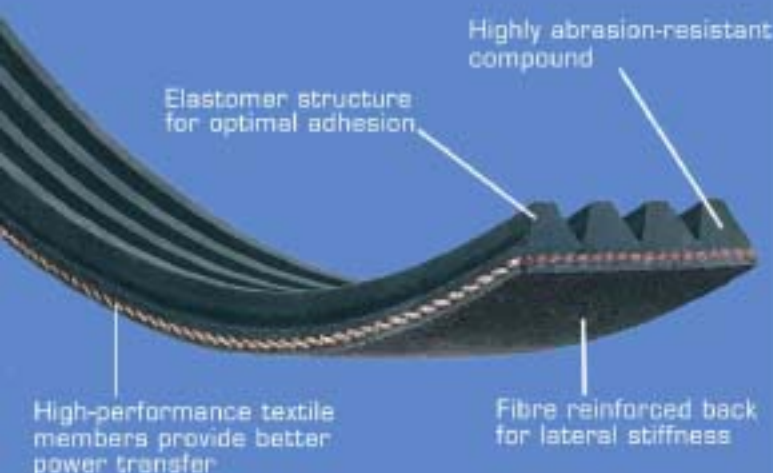
- ↳ Reduced tension decay.
- ↳ Eliminates belt flap.
- ↳ Reduced level of noise (up to 3 dB).

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GENERAL DATA :

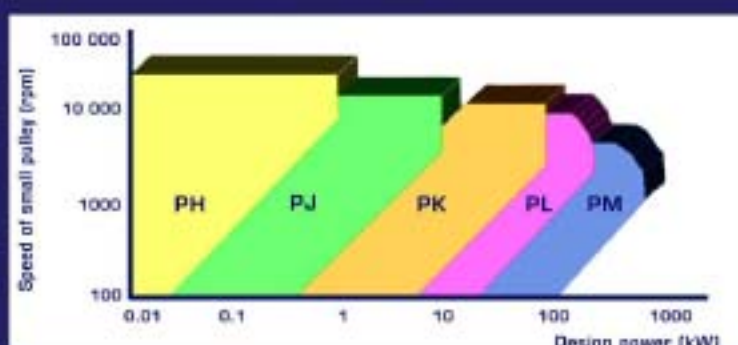
- High performance textile members
- Easy bending and counter flexing [minimal diameter = 9 mm - PH section]
- Can be used on flat pulleys [speed ratio > 4]
- Optimum contact area
- Absorption of any shock-loading and overloads [minimal slipping]
- Compound adapted to extreme temperatures : -40°C to 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



HUTCHINSON TRANSMISSION
POLY V® SERVICE

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