PIX-Duo®-XS: Twin-power, Hexagonal Wrap Belts

1. Wear-resistant bias-cut neoprene rubberised polyester cotton fabric
2. High tenacity, low stretch tension member
3. High modulus compression rubber

Hexagonal V-Belts are also known as Double V-Belts. In simple terms, Hexagonal Belts can be considered as two V-Belts joined back to back. The neutral axis containing the tension member is exactly halfway up the section.

Features

- Enhanced product life
- Transmits power from both sides of the Belt
- Centre cords provide excellent power transmission and low stretch
- Special design provides an excellent flexibility for serpentine drives
- Temperature range: -30°C to +80°C

Reference standard

IS 11038-1984

Application

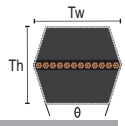
Rice mills, husker machines, serpentine drives, poultry feather-pickers, dyeing units, etc.

Drive calculation

The drive calculation for double V-Belts differs from the drive calculation in a drive using two pulleys.

The effective length, rotational speed, transmission ratio, and Belt speed are determined by the effective pulley diameter. There is no requirement for a special pulley for Hexagonal Belts.

Product range



Section	Top Width (Tw) (mm)	Thickness (Th) (mm)	Angle (θ) (Degree)	Min. Pulley Dia. (mm)	Manufacturing Range		Length Designation
					Min.	Max.	
AA	13	10	40	80	48"	258"	Le
BB	17	14	40	125	43"	930"	Le
CC	22	17	40	224	77"	930"	Le
25	25	22	40	280	92"	925"	Le

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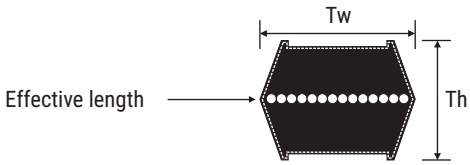

Length correction factor table

Section	Belt Numbers	Top Width (Tw) (mm)	Thickness (Th) (mm)	Angle (θ) (Degree)	Length correction factor		
					Effective length (Le) (mm)	Inner length (Li) (mm)	Outer Length (La) (mm)
AA	AA-100	13	10	40	Belt No. X 25.4 + 53	Li = Le - 32	La = Li + 63
BB	Upto BB-210	17	14	40	Belt No. X 25.4 + 69	Li = Le - 40	La = Li + 88
	Above BB-210				Belt No. X 25.4 + 29		
CC	Upto CC-210	22	17	40	Belt No. X 25.4 + 96	Li = Le - 52	La = Li + 106
	Above CC-210				Belt No. X 25.4 + 44		

Hexagonal Belts are designed to transmit power from both sides, they are especially used in serpentine drive applications. As the belt profile is hexagonal, effective length (Le) is important from a fitment point of view. Reference standard IS-11038-1984.

Product label