Moulded Raw Edge Cogged Belts

Moulded Raw Edge Cogged Belts, as the name suggest, does not have the fabric wrapping on the outer surface. They are produced by slitting an individual Belt from a rubber sleeve and hence they are also called Cut Edge Belts.

The manufacturing process of the Raw Edge Cogged Belt differs from the Wrap Belts, with the cogs at the bottom of the Belt. They are more flexible, and the bending stress on the Belts is also lower compared to the Wrap Belts. They can operate on pulleys with approximately 20% smaller diameters.

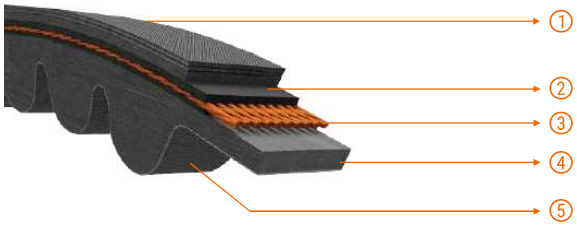
The decreased bending stress reduces the mechanical loss and leads to improved efficiency of the drive with reduced working temperature.

The heat dissipation is further improved by a large area between the Belt and the surrounding atmosphere, and also due to air turbulence around the cogs during operation.

To exhibit higher power transmission capability, the tension required in Raw Edge Cogged Belts is higher, compared to the Wrap Belts.

Raw Edge Belts are of three types

- Raw Edge Cogged Belts
- Raw Edge Plain Belts
- Raw Edge Laminated Belts



1. Special top fabric layer
2. Cushion rubber compound
3. Specially treated and stabilized polyester cords
4. Fiber filled base compound
5. Moulded coggs for better flexibility

Features

Special top-layer with fabric
The rigid layer on the top surface restricts the top layer from cracking and gives uniform tension to the end of the cord. The top fabric gives better support and protection from the environment.

Tough tensile member for greater strength
Specially treated stabilised polyester cords provide high tensile strength with minimum stretch which offers superior resistance to fatigue and shock loads.

Moulded cogs
The cogs facilitate the Belts to operate even over smaller diameter pulleys, at a higher speed. The cogs also help in reducing the bending stress apart from providing a higher surface area for heat dissipation.

Features

Cushion rubber compound
Ensure the best possible bond between the base compound, the tension cord and rubber impregnated fabric top surface that provides long service life without cord separation

Fibre-filled base compound
Give enhanced power transmission capability, superior transverse stiffness and high wear resistance

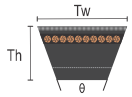
Speed ratios up to 1:12 are possible:
This eliminates the need for a multi-stage drive

Maximum recommended Belt speed
- Classical Belts: 30 m/sec, Wedge Belts: 42 m/sec, Narrow section Belts: 45 m/sec
- Anti-static, oil and heat resistant
- ATEX certified FRAS Belts are also available
- Temperature range: -25˚C to +100˚C

Advantages:
The advantages of Raw Edge Cogged Belts over Wrap Belts are of great importance in the following cases.
- Higher power transmission capacity than Wrapped Belts
- Special cog design for enhanced flexibility and heat dissipation rate
- Suitable for drives using smaller diameter pulleys and high RPM

Application:
Compressors, pumps, fans, vacuum pumps, blowers, generators, heat exchangers, industrial drives, etc.

Product range



PIX-X'tra® Classical Section Belts

Section	Top Width (Tw) (mm)	Thickness (Th) (mm)	Angle (θ) (Degree)	Standard	Min. Pulley Dia. (mm)	Manufacturing Range		Belt Length Factor		
						Min.	Max.	Lp to La (mm)	Li to Lp (mm)	Li to La (mm)
ZX	10	6	36	IS 2494, BS 3790, ISO 4184	40	21.5"	200"	16	22	38
AX	13	8	36	IS 2494, BS 3790, ISO 4184	63	21.5"	200"	14	36	50
BX	17	11	36	IS 2494, BS 3790, ISO 4184	90	21.5"	330"	26	43	69
CX	22	14	36	IS 2494, BS 3790, ISO 4184	140	23.5"	330"	32	56	88
DX	32	19	38	IS 2494, BS 3790, ISO 4184	280	40.0"	200"	40	79	119

Length Designation: Li (inside length)

PIX-X'tra® Wedge Section Belts

Section	Top Width (Tw) (mm)	Thickness (Tw) (mm)	Angle (θ) (Degree)	Standard	Min. Pulley Dia. (mm)	Manufacturing Range		Belt Length Factor		
						Min.	Max.	Lp to La (mm)	Li to Lp (mm)	Li to La (mm)
XPZ	10.0	8	36	BS 3790	56	550 mm	5000 mm	13	37	50
XPA	13.0	10	36	BS 3790	71	550 mm	5000 mm	18	45	63
XPB	16.3	14	36	BS 3790	112	550 mm	8380 mm	28	60	88
XPC	22.0	18	38	BS 3790	180	600 mm	8380 mm	30	83	113

Length Designation: Lp (pitch length)

Product range

PIX-X'tra® High Capacity Narrow V-Belts

Section	Top Width (Tw) (mm)	Thickness (Th) (mm)	Angle (θ) (Degree)	Standard	Min. Pulley Dia. (mm)	Manufacturing Range		Belt Length Factor		
						Min.	Max.	Lp to La (mm)	Li to Lp (mm)	Li to La (mm)
3VX	9.7	8.0	38	RMA IP 22	56	21.5"	200"	13	37	50
5VX	15.8	13.5	38	RMA IP 22	112	21.5"	330"	25	60	85
8VX	25.4	23.0	38	RMA IP 22	254	90"	330"	53	92	145

Length Designation: La (outside length)

PIX-X'tra® Light Duty Single V-Belts

Section	Top Width (Tw) (mm)	Thickness (Th) (mm)	Angle (θ) (Degree)	Standard	Min. Pulley Dia. (mm)	Manufacturing Range		Belt Length Factor		
						Min.	Max.	Lp to La (mm)	Li to Lp (mm)	Li to La (mm)
3LX	9.7	5.6	36	RMA IP 23	36	21.5"	200"	16	22	38
4LX	12.7	7.9	36	RMA IP 23	58	21.5"	200"	14	36	50
5LX	16.7	9.7	36	RMA IP 23	72	21.5"	200"	26	43	69

Length Designation: La (outside length)

Note:
- Intermediate sizes are available upon request.
- Aramid cord construction Belts are available upon request

Product label