

www.optibelt.com
optibelt

Products and Applications

VARIABLE SPEED BELTS



Drive solutions with Optibelt





Variable speed belt – raw edge, moulded cogged

The base compound consists of a polychloroprene rubber with fibres inlaid transversely to the running direction. The high-quality and extremely low-stretch tension cord of polyester or aramid is embedded into a rubber cushion compound. It is effectively supported by a fabric outer surface and by the base compound. The base compound provided with its incorporated transverse fibres provides transverse rigidity without sacrificing flexibility.

Advantages

- high power transmission
- high flexibility
- resistant against abrasion and slip
- long service life
- smooth running

Optibelt SUPER VX variable speed belts are preferably used for infinitely variable speed control.

The special belt structure allows high dynamic loads, a superior power transmission capability and good control characteristics.

Examples of Applications

- | | | |
|-------------------------|---|-------------------------------------|
| Mechanical engineering | ■ | <i>Special drives</i> |
| Gear manufacturing | ■ | <i>Adjustable flange pulleys</i> |
| Printing presses | ■ | <i>Multi-colour offset printing</i> |
| Agricultural machinery | ■ | <i>Threshing cylinder drives</i> |
| Machine tools | ■ | <i>Lathes</i> |
| Adjustable speed drives | ■ | <i>Compact units</i> |
| Textile machines | ■ | <i>Spooling machine</i> |



- 1 Belt outer surface
- 2 Tension cord
- 3 Cushion compound
- 4 Base compound
- 5 Moulded cogs

Sections:

Belt top widths from 13 to 85 mm
Belt thickness from 5 to 25 mm

Dimensions:

Range of lengths from 500 to 3500 mm
Standardized dimensions according to DIN/ISO and RMA/MPTA American Standards

Variable speed belt – raw edge, double-cogged

The belt structure and production methods are derived from the SUPER VX. The SUPER DVX is double-cogged, with the tooth height and pitch adjusted to the respective belt section. The double-cog ensures improved internal heat dissipation and thus substantially reduces the belt temperature during flexing.

Depending on application and/or area of application, the belt may be provided with an additional multi-layer transverse corded fabric in the base compound.

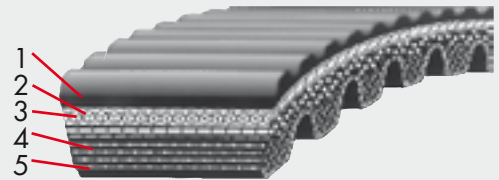
Advantages

- extremely high power transmission
- high flexibility
- better internal heat dissipation
- smooth running for high belt speeds
- long service life

In particular with the Optibelt SUPER DVX double-cogged variable speed belt, the demands of increased performance and service life are met. This belt is characterised by space-saving drive solutions, optimal control behaviour, reduction of running temperature and a wide range of applications.

Examples of Applications

- | | | |
|------------------------|---|------------------------------|
| Vehicle engineering | ■ | Snowmobile drives |
| Gear manufacturing | ■ | Adjustable flange pulleys |
| Printing presses | ■ | Multi-colour offset printing |
| Agricultural machinery | ■ | Threshing cylinder drives |
| Machine tools | ■ | Lathes |



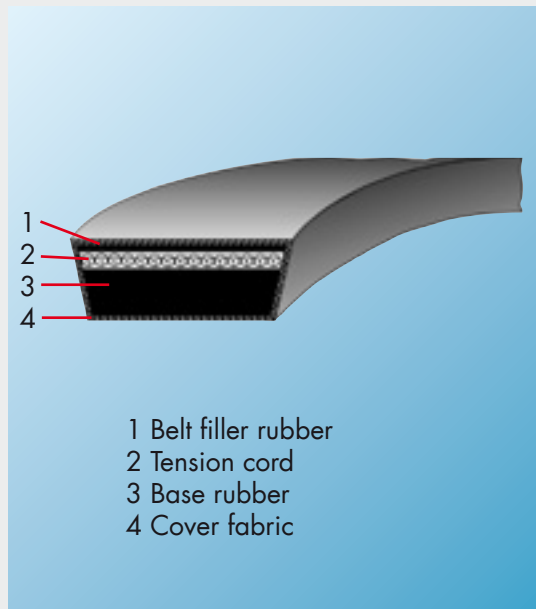
- 1 Belt outer surface
- 2 Tension cord
- 3 Cushion compound
- 4 Base compound
- 5 Moulded cogs

Sections:

Belt top widths from 20 to 85 mm
Belt thickness from 10 to 30 mm

Dimensions:

Range of lengths from 600 to 3500 mm
Standardized dimensions following DIN/ISO.



Sections and dimensions:

on request

Variable speed belt – wrapped

In its structure, the Optibelt VS is similar to the classical or wedge section belt with the difference that the rubber base and filler consist of a fibre enriched compound. The tension cord may be either polyester or aramid. The belt has a wear resistant cover fabric, impregnated with an abrasion resistant rubber compound.

Advantages

- high performance
- compact form
- proven design
- extraordinary efficiency
- long service life

The Optibelt VS is the classic among the variable speed belts. It is characterised by its compact and robust design. The wrapped variable speed belt is especially suitable for extreme environmental conditions, e.g. for operation in wet and dusty areas.

Examples of Applications

- Gear manufacturing
Adjustable flange pulleys
- Printing presses
Multi-colour offset printing
- Machine tools
Lathes
- Adjustable speed drives
Compact units
- Textile machines
Spooling machine

optibelt

www.optibelt.com

Optibelt GmbH

P.O. Box 10 01 32 • 37669 Hörter/Germany
Tel. +49 (0) 52 71 - 6 21 • Fax +49 (0) 52 71 - 97 62 00
info@optibelt.com • www.optibelt.com
A member of the Arntz Optibelt Group



Power Transmission