

New SIT NEXT[®] high performance V-belts

Maintenance-free,
carefree.



EPDM
compound



DRIVE
SOLUTIONS

MAINTENANCE-FREE

SIT presents the new **SIT NEXT**® V-belts, the result of over 50 years of specific experience in the motion transmission.

SIT NEXT® narrow-section moulded cog belts are manufactured according to DIN7753, ISO4184 and RMA IP-22.

Designed to transmit high torques in extreme applications, they **don't need to be re-tensioned**, improving transmission efficiency. **SIT NEXT**® are **maintenance free**, reducing the machine downtime and maintenance costs.

Thanks to the **ISO SET** length tolerance system, it is possible to install multi belts drives with no matching requirements.

These features, combined with a considerable service life, make **SIT NEXT**® belts the best answer for the most demanding industrial applications.



CONSTRUCTION FEATURES

SIT NEXT® V-belts, made in **EPDM** compound, show an extremely high resistance to abrasion. They are antistatic according to **ISO 1813** and comply with **Reach** and **Rohs** regulations. The EPDM compound, the traction elements in polyester and the special anti-abrasive coating allow the **SIT NEXT**® belts to operate in particularly harsh conditions.

EPDM compound
(Ethylene-Propylene Diene Monomer)

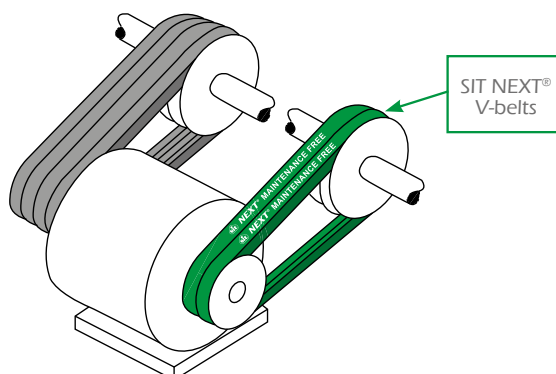
Low stretch
Polyester cords

High performance fabric



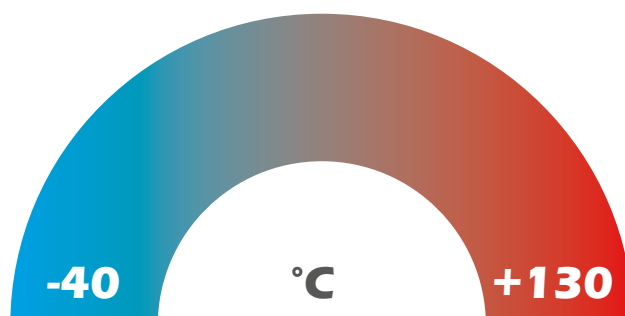
EFFICIENCY AND ENERGY SAVING

The new **SIT NEXT®** allows to **reduce the overall dimensions of the transmission**, guaranteeing **high efficiency and energy optimization**. It is capable of replacing existing mechanical transmissions by making considerable savings in terms of investment.



TEMPERATURE

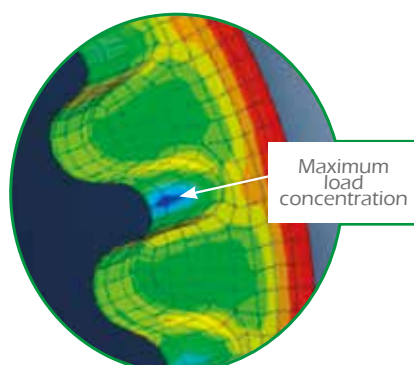
SIT NEXT® V-belts do not fear extreme environmental conditions and they are suitable for use at temperatures between **-40 °C** and **+130 °C**. They avoid the formation of cracks on the back at high temperatures and maintain excellent flexibility at low temperatures.



COGS SHAPE OPTIMIZATION

Through an analysis with Finite Elements (FEM) the cog shape profile has been optimized guaranteeing a **considerably longer life span** and allowing **more compact applications** compared to traditional friction belts.

The improved flexibility allows to increase the performances on lower pulley diameters. The new cogs profile increases resistance to fractures on small bending radii.



APPLICATIONS

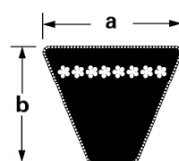
Designed to meet the needs of the most demanding sectors of the mechanical industry, **SIT NEXT®** belts are widely used in a **variety of machines and plants**.

For example, **SIT NEXT®** belts can be used in garden machines, mills, mixers, crushers and calenders. **The main application areas are** agriculture, ventilation, paper and paper mills.

SECTIONS AND DIMENSIONAL SPECIFICATIONS

SIT NEXT® belts are compatible with standard V-pulleys according to DIN7753 and ISO4184 for XPZ-XPA-XPB-XPC profiles and according to IP-22 for 3VX and 5VX profiles.

Sections	a [mm]	b [mm]
XPZ/3VX	10	8
XPA	13	9
XPB/5VX	16	13
XPC	22	18



RANGE OF AVAILABLE LENGTHS

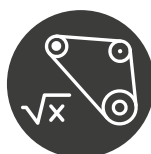
Sections	[mm]
XPZ/3VX	512-3550
XPA	590-4000
XPB/5VX	1000-5000
XPC	1900-5000

MINIMUM PULLEY DIAMETER

Sections	SIT NEXT® [mm]	Competitor α [mm]	Competitor β [mm]
XPZ/3VX	50	56	56
XPA	63	71	80
XPB/5VX	100	112	112
XPC	160	180	180

SITDRIVE

The **power rating** of **SIT NEXT®** belts is available in the calculation software for rubber belt drives on the **www.sitspa.com** site in the **tools** section.



SitDrive