

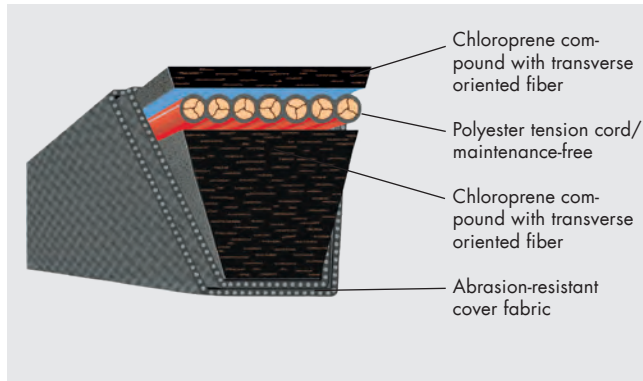
# PRODUCT DESCRIPTION

## optibelt RED POWER 3 HIGH PERFORMANCE WEDGE BELTS



### Structure

optibelt RED POWER 3 wedge belts:



The tension cord consists of a special polyester cord. Due to the special processing of the tension cord the optibelt RED POWER 3 wedge belt is very low-stretch and maintenance-free, so that re-tensioning is not necessary.

The transverse fibre mixture on top of and under the tension cord guarantees a high dynamic load of the belt and ensures great flexibility. The cover fabric is highly flexible and abrasion-proof.

### Properties

The optibelt RED POWER 3 is maintenance-free due to the high quality components and the special production method. The production processes are continuously monitored using state-of-the-art static and dynamic testing devices. The optibelt RED POWER 3 is suitable for the application in drives with idler pulleys due to its special construction.

The optibelt RED POWER 3 has the following properties:

- Maintenance-free
- Powerful
- Cost-effective
- S=C Plus usable in sets
- Environmentally friendly
- Electrically conductive according to ISO 1813
- Oil-resistant
- Heat-resistant
- Dust-protected as standard

On request with acceptance test certificate according to EN 1020 "3.1.B".

### V-belt tensioning

For the initial installation of optibelt RED POWER 3 V-belts, the same methods are used as for standard Optibelt V-belts. The tension values are to be calculated on the same basis or to be taken from the table on page 147. Once correctly tensioned optibelt RED POWER 3 V-belts need no re-tensioning.

### Application areas

optibelt RED POWER 3 wedge belts were especially developed for mechanical engineering. The application areas include compressors, pumps, presses, fans and other heavy duty drives.

### Standardisation/Dimensions

optibelt RED POWER 3 wedge belts in the profiles SPZ, SPA, SPB, SPC, 3V/9N, 5V/15N and 8V/25N are standardised according to DIN 7753 Part 1, ISO 4184 and ARPM/MPTA.

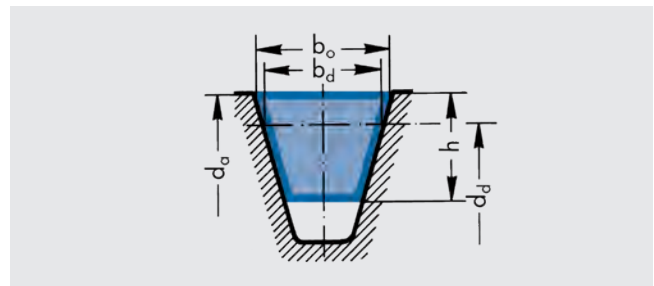


Table 1

Profile		SPZ	SPA	SPB	SPC
Belt top width	$b_o \approx$	9.7	12.7	16.3	22
Datum width	$b_d \approx$	8.5	11	14	19
Belt height	$h \approx$	8	10	13	18
Recommended minimum datum pulley diameter	$d_{d \min}$	63	90	140	224
Weight per meter (kg/m)	$\approx$	0.074	0.123	0.195	0.377
Flex rate ( $s^{-1}$ )	$f_{B \max} \approx$	100			
Belt speed (m/s)	$v_{\max} \approx$	55*			

\* $v > 55$  m/s. Please consult our Application Engineering Department.

Table 2

Profile		3V/9N	5V/15N	8V/25N
Datum width	$b_o \approx$	9	15	25
Belt height	$h \approx$	8	13	23
Recommended minimum outside pulley diameter	$d_{a \min}$	67	151	315
Weight per meter (kg/m)	$\approx$	0.074	0.195	0.575
Flex rate ( $s^{-1}$ )	$f_{B \max} \approx$	100		
Belt speed (m/s)	$v_{\max} \approx$	55*		

\* $v > 55$  m/s. Please consult our Application Engineering Department.