

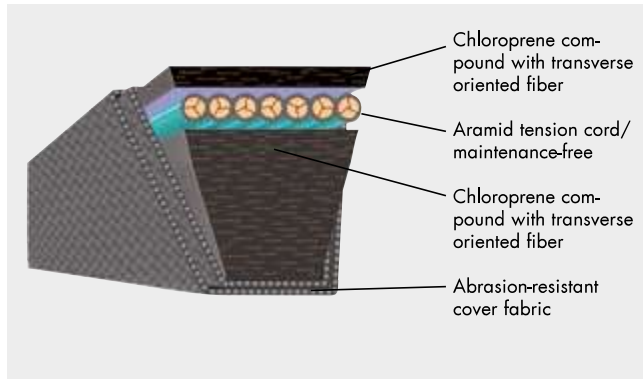
# PRODUCT DESCRIPTION

## optibelt BLUE POWER HIGH PERFORMANCE WEDGE BELTS



### Structure/Properties

optibelt BLUE POWER wedge belts:



The aramid tension cord has extremely low stretch compared to common materials such as polyester. The breaking strength is almost twice as high with the same cord diameter. Nevertheless, the fibre is extremely flexible. The high quality specially prepared aramid tension cord is embedded in a rubber compound. It is supported by the top and bottom structures. These consist of a polychloroprene rubber compound with transverse fibres. The abrasion-proof cover fabric is coated with a special rubber compound and covers the whole belt. The V-belt is electrically conductive according to ISO 1813

### Application areas

optibelt BLUE POWER belts are mainly used when

- highest power transmission levels are required
- there are limited design dimensions
- there is only little installation and tensioning space
- high temperature influences occur

This way, a much better performance is guaranteed e. g. with the same number of belts. Even the operation of once critical drives is now largely free of risk. Higher load limits are now safety zones. Thus optibelt BLUE POWER belts are mainly implemented in heavily loaded drives:

- in critical drives in mechanical engineering
- in special machines
- in agricultural machinery

### Application

Attention: When retro-fitting existing drives please let Optibelt check the tension. As part of this description not all criteria can be dealt with. Please consult our Application Engineering Department.

### Standardisation/Dimensions

optibelt BLUE POWER 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.

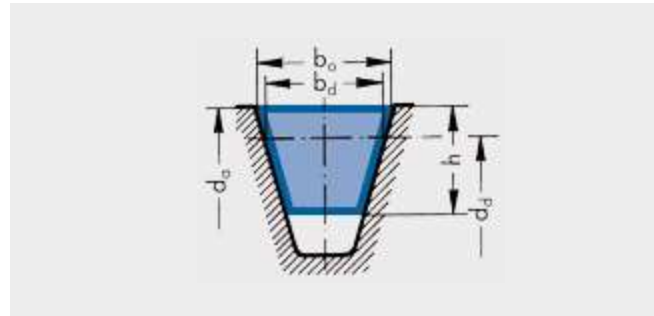


Table 3

Profile		SPB	SPC
Belt top width	$b_o \approx$	16.3	22
Datum width	$b_d \approx$	14	19
Belt height	$h \approx$	13	18
Distance	$h_d \approx$	3.5	4.8
Recommended minimum datum pulley diameter	$d_{d \min}$	180	280
Weight per meter (kg/m)	$\approx$	0.206	0.389
Flex rate ( $s^{-1}$ )	$f_{B \max} \approx$	100	
Belt speed (m/s)	$v_{\max} \approx$	50*	

\* $v > 50$  m/s. Please consult our Application Engineering Department.

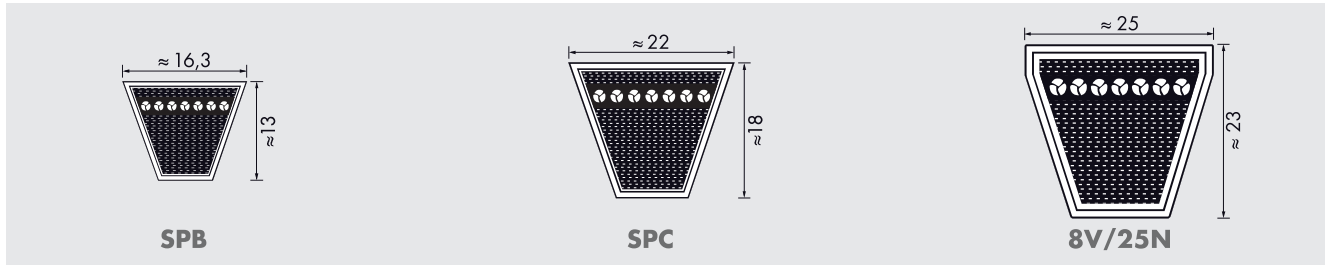
Table 4

Profile		5V/15N	8V/25N
Datum width	$b_o \approx$	15	25
Belt height	$h \approx$	13	23
Recommended minimum outside pulley diameter	$d_{a \min}$	191	315
Weight per meter (kg/m)	$\approx$	0.204	0.603
Flex rate ( $s^{-1}$ )	$f_{B \max} \approx$	100	
Belt speed (m/s)	$v_{\max} \approx$	50*	

\* $v > 50$  m/s. Please consult our Application Engineering Department.

# STANDARD RANGE

optibelt **BLUE POWER** HIGH PERFORMANCE WEDGE BELTS



DIN 7753 Part 1 / ISO 4184 / BS 3790

ARPM/MPTA

Profile SPB		Profile SPC		Profile 8V/25N	
Datum length ISO $L_d$ [mm]		Datum length ISO $L_d$ [mm]		Belt designation	
				Profile, length code	Profile, outside length, $L_o$ [mm]
1500	4750	2000	6300	8V 1600	25N 4064
1600	5000	2120	6700	8V 1700	25N 4318
1700	5300	2240	7100	8V 1800	25N 4572
1800	5600	2360	7500	8V 1900	25N 4826
1900	6000	2500	8000	8V 2000	25N 5080
2000	6300	2650	8500	8V 2120	25N 5385
2120	6700	2800	9000	8V 2240	25N 5690
2240	7100	3000		8V 2360	25N 5994
2360	7500	3150		8V 2500	25N 6350
2500	8000	3350		8V 2650	25N 6731
2650		3550		8V 2800	25N 7112
2800		3750		8V 3000	25N 7620
3000		4000		8V 3150	25N 8001
3150		4250		8V 3350	25N 8509
3350		4500		8V 3550	25N 9017
3550		4750			
3750		5000			
4000		5300			
4250		5600			
4500		6000			
Maximum production length: 18000 mm Minimum order quantity: 1500 mm – 1800 mm = 25 pieces Over 1800 mm = 23 pieces Weight: $\approx 0.206$ kg/m		Maximum production length: 18000 mm Minimum order quantity: from 2000 mm = 16 pieces  Weight: $\approx 0.389$ kg/m		Maximum production length: 18000 mm $L_o$ Minimum order quantity: from 4064 mm $L_o$ = 14 pieces  Weight: $\approx 0.603$ kg/m	