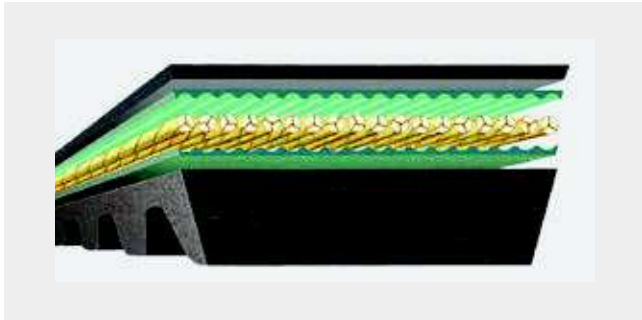


PRODUCT DESCRIPTION

optibelt **VARIO POWER** VARIABLE SPEED BELTS

RAW EDGE, MOULDED COGGED / DOUBLE-COGGED – DIN 7719 / ISO 1604

optibelt **VARIO POWER** variable speed belts – raw edge, moulded cogged



Increasing demands on variable speed belts due to the continuous increase of power transmission levels initiated the development of the raw edge, moulded cogged variable speed belts.

The base compound consists of a polychloroprene rubber compound with traverse fibres. The high quality and extremely low-stretch polyester or aramid tension cord is embedded in a rubber compound. It is effectively supported by an upper and substructure. The special characteristics of the raw edge, moulded cogged variable speed belt are:

- high power transmission
- excellent flexibility in running direction
- high traverse stability
- exceptionally smooth running
- wear and slip resistance
- long operational life
- electrically conductive according to ISO 1813

Profiles

Belt widths of up to 100 mm

Belt heights of 5-25 mm

Dimensions

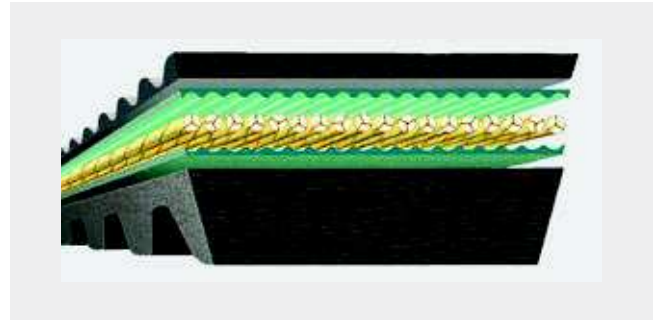
Lengths up to 5000 mm

Standardised dimensions to BS/DIN/ISO and USA standard RMA/MPTA

Application areas

Industrial machinery:	special drives
Variable speed drives:	compact units
Printing machinery:	multi-colour offset drives
Gearboxes:	variable diameter pulley sets
Agricultural machinery:	thresher drum drives
Textile machinery:	winding machinery
Machine tools:	lathes
Automotive technology:	snowmobile drives

optibelt **VARIO POWER** variable speed belts – raw edge, double-cogged



Further increases in demand on the performance of drive elements and the trend towards designing ever smaller, space saving drive units, led to the development of the double-cogged, raw edge optibelt **VARIO POWER** variable speed belt.

Double-cogged OPTIBELT variable speed belts allow for the smallest pulley diameters, even below standard recommendations. The double-cogged design improves heat emission, thereby significantly reducing the belt running temperature. The production methods and the structure of the belt have been derived from the raw edge **VARIO POWER** variable speed belt. Depending upon the application and application range, this belt can also be equipped with layers of special cross-cord material in the base compound. The belt is double-cogged, with the depth and spacing of the cogs matching with the specific belt profile. The polyester or aramid tension cord ensures ideal power transmission, increased service life, and extremely low-stretch characteristics.

The features of the **VARIO POWER** variable speed belt can be summarised as follows:

- extremely high acceptance of axial loads
- high flexibility and flexing rate
- better heat emission
- use with small pulley diameters
- high running smoothness with high belt speeds
- long operational life
- electrically conductive according to ISO 1813

Profiles

Belt widths of 20-85 mm

Belt heights of 10-30 mm

Dimensions

Length ranges from 600-3500 mm

Profiles and dimensions following DIN/ISO and USA standard RMA/MPTA

optibelt **VS** variable speed belts – wrapped

The optibelt **VS** is the first generation of variable speed belts. Its structure complies with the standard constructions of wrapped, classic V-belts or wedge belts.

Profiles and dimensions: on request

STANDARD RANGE

optibelt **VARIO POWER** VARIABLE SPEED BELTS – RAW EDGE, MOULDED COGGED DIN 7719 / ISO 1604



Profile/ inside length L _i [mm]	ISO designation (datum length) L _d	Profile/ inside length L _i [mm]	ISO designation (datum length) L _d	Profile/ inside length L _i [mm]	ISO designation (datum length) L _d	Profile/ inside length L _i [mm]	ISO designation (datum length) L _d	Profile/ inside length L _i [mm]	ISO designation (datum length) L _d
13 x 5		26 x 8		32 x 10		47 x 13		70 x 18	
468		655	W 25 690	750	W 31,5 800	1000		1600	
500		672	W 25 710	790	W 31,5 840	1060		1700	
		710	W 25 750	820	W 31,5 870	1120		1800	
17 x 5		750	W 25 790	850	W 31,5 900	1180		1900	
426	W 16 450	762	W 25 800	900	W 31,5 950	1250		2000	
476	W 16 500	800	W 25 840	950	W 31,5 1000	1320		2240	
536	W 16 560	862	W 25 900	1000	W 31,5 1050	1400		2500	
570	W 16 600	962	W 25 1000	1073	W 31,5 1120	1500			
606	W 16 630	1082	W 25 1120	1120	W 31,5 1170	1600			
776	W 16 800			1180	W 31,5 1230	1700			
		28 x 8		1200	W 31,5 1250	1800			
21 x 6		600		1353	W 31,5 1400				
530	W 20 560	650				52 x 16			
600	W 20 630	700		37 x 10		1180	W 50 1250		
610	W 20 640	750		660		1250	W 50 1320		
675	W 20 710	800		800		1325	W 50 1400		
770	W 20 800	850		850		1400	W 50 1480		
870	W 20 900	900		900		1525	W 50 1600		
970	W 20 1000	950		950		1600	W 50 1680		
1220	W 20 1250	1000		1000		1725	W 50 1800		
		1060		1020		1925	W 50 2000		
22 x 8		1120		1060		2165	W 50 2240		
485		1180		1120		2240	W 50 2320		
525		1250		1180					
565		1320		1250		55 x 16			
650		1400		1320		1400			
700		1500		1400		1500			
750				1500		1600			
800		30 x 10		1600		1700			
850		650		1700		1800			
900		665		1800					
950		700				65 x 20			
1000		800		41 x 13		1706	W 63 1800		
1060		850		925	W 40 990	1906	W 63 2000		
1185		875		1000	W 40 1060				
		900		1040	W 40 1100				
		950		1060	W 40 1120				
		1000		1120	W 40 1180				
		1035		1180	W 40 1240				
		1120		1190	W 40 1250				
		1200		1250	W 40 1310				
		1340		1340	W 40 1400				
		1500		1440	W 40 1500				
		1600		1600	W 40 1660				
				1740	W 40 1800				
				1940	W 40 2000				

Standard production data

Belt length up to 5000 mm L_i

Belt top width up to 100 mm

Belt height 5 to 25 mm

24° angle for profile 13 x 5; 17 x 5

30° angle for profile 52 x 16; 55 x 16; 65 x 20 and 70 x 18

27° angle for all other profiles. Sizes according to USA standard RMA/MPTA as well as variable speed belts with angles from 22° to 42° can be produced on request. Minimum order quantities are required.

Further sizes as well as double-cogged variable speed belts on request

Tolerances

Length tolerance ± 1 % of the belt nominal length

Angle tolerance ± 1.5° of the nominal angle

Height tolerance ≤ 8 mm = ± 0.8 mm

> 8 to 20 mm = ± 1.0 mm

> 20 mm = ± 1.5 mm

Width tolerance ± 0.75 mm