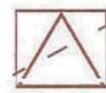


# PV V-RIBBED BELTS Rubber belts





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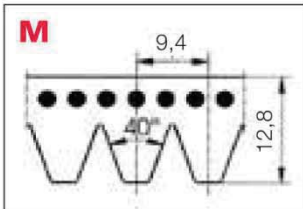
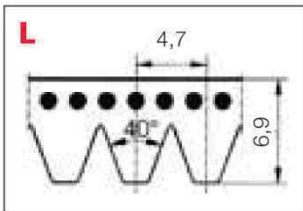
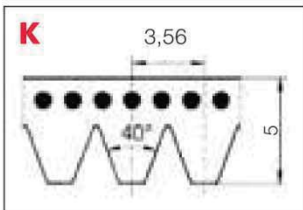
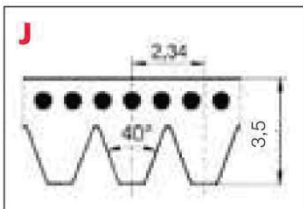
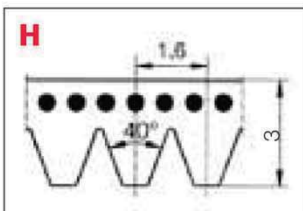
**PV V-RIBBED BELTS** are made of polybutadiene compound.

High performance V ribbed belts are produced in **H, J, L** and **M** profiles (K on request).

PV belts design:

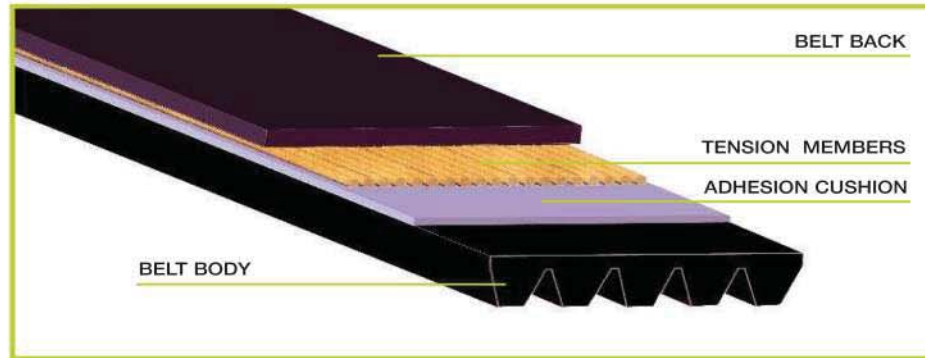
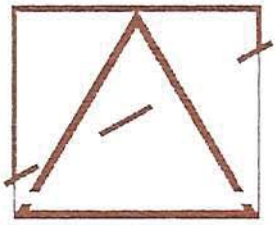
- eliminates belt matching;
- permits drive design to meet exact power or space requirements;
- distributes the drive load across the entire belt width;
- permits cooler running and high drive efficiency;
- excels on small pulleys at high speeds.

PV-Ribbed belts are also available in elastic version (TEM) and they are suitable in the transmission where fixed centre distance is required. The TEM belt is developed according to the Customer requirements.



<b>J</b>		<b>J</b>		<b>K</b>		<b>L</b>		<b>M</b>	
Effective length		Effective length		Effective length		Effective length		Effective length	
(mm)	(inches)	(mm)	(inches)	(mm)	(inches)	(inches)	(mm)	(mm)	(mm)
350	13.8	1236	48.7	630	24.8	37.5			900
381	15.0	1244	49.0	650	25.6	39.0			940
406	16.0	1262	49.7	675	26.6	42.3			990
432	17.0	1270	50.0	700	27.6	42.5			1060
457	18.0	1280	50.4	730	28.7	43.3			1115
483	19.0	1287	50.7	755	29.7	47.0			1150
495	19.5	1295	51.0	775	30.5	50.0			1185
508	20.0	1302	51.3	800	31.5	52.0			1230
533	21.0	1315	51.8	830	32.7	52.5			1310
559	22.0	1318	51.9	845	33.3	54.0			1390
584	23.0	1321	52.0	870	34.3	55.0			1470
610	24.0	1326	52.2	885	34.8	56.0			1610
650	25.6	1365	53.7	920	36.2	56.5			1650
660	26.0	1371	54.0	925	36.4	58.0			1760
685	27.0	1397	55.0	950	37.4	61.5			1830
711	28.0	1428	56.2	970	38.2	63.5			1980
723	28.5	1473	58.0	1000	39.4	65.5			2130
737	29.0	1524	60.0	1015	40.0	67.5			2410
762	30.0	1549	61.0	1035	40.8	69.5			2710
769	30.3	1651	65.0	1060	41.7	71.0			3010
790	31.1	1752	69.0	1080	42.5	72.5			3310
813	32.0	1854	73.0	1145	45.1	76.5			3610
864	34.0	1895	74.6	1165	45.9	77.0			3910
895	35.2	1910	75.2	1200	47.2	78.0			4210
914	36.0	1930	76.0	1230	48.4	79.5			4810
944	37.2	1956	77.0	1300	51.2	81.5			5410
955	37.6	2083	82.0	1335	52.6	82.5			6010
965	38.0	2135	84.1	1385	54.5	84.0			6600
990	39.0	2210	87.0	1420	55.9	86.5			
1016	40.0	2337	92.0	1460	57.5	88.0			
1036	40.8	2489	98.0	1490	58.7	91.5			
1040	40.9			1520	59.8	93.0			
1051	41.4			1555	61.2	97.5			
1065	41.9			1610	63.4	99.0			
1080	42.5			1655	65.2	106.5			
1089	42.9			1700	66.9	108.0			
1092	43.0			1725	67.9	112.0			
1100	43.3			1755	69.1	114.0			
1108	43.6			1800	70.9	115.0			
1116	43.9			1860	73.2	118.0			
1136	44.7			1885	74.2	121.5			
1143	45.0			1900	74.8	123.0			
1150	45.3			1980	78.0	129.5			
1160	45.7			2050	80.7	131.0			
1168	46.0			2080	81.9	137.5			
1170	46.1			2145	84.5	145.5			
1184	46.6			2235	88.0	159.5			
1190	46.9			2330	91.7	165.0			
1194	47.0			2490	98.03	176.0			
1200	47.2			2555	100.59	182.0			
1203	47.4					198.0			
1210	47.6					212.0			
1214	47.8					240.0			
1222	48.1								
1232	48.5								

<b>H</b>
Effective length
(mm)
594
1200
1210
1265
1578
1830
1869
1885
1900
1904
1915
1922
1930
1940
1945
1975



### a) BELT BODY

The belt body is made of a special polybutadiene-based rubber compound which provides, due to its excellent mechanical characteristics, high transmission efficiency and assures a minimum rubber wear off.

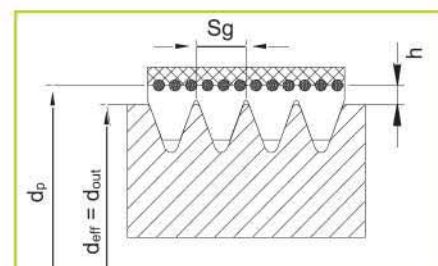
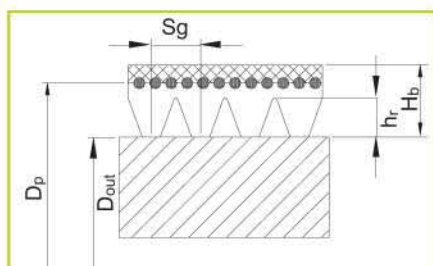
### b) TENSILE MEMBER

The tensile member consists of high-strength low-stretch polyester cords, which grant length stability over the belt life time.

### c) BELT BACK

The back side cushion protects the tensile member and permits the use of backside idlers.

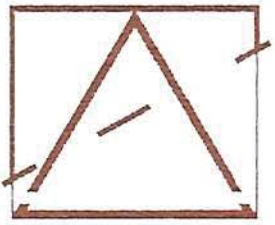
PV belts are divided in five different profiles to cover the needs of a wide range of applications. The dimensions and properties of each profile, are summarised in the following table:



$D_p$  : The pitch diameter is used to calculate the transmission ratio and the belt speed.

$D_{eff}$  : For grooved pulleys, the effective diameter is equal to the outside diameter.

$D_{out}$  : Depending if the pulley is flat or grooved the value  $h$  or  $h_r$  have to be added in order to calculate the pitch diameter of the pulleys.



# manutec<sub>sa</sub>

		PH	PJ	PK	PL	PM
Belt dimensions	S <sub>g</sub> [mm]	1.6	2.34	3.56	4.70	9.40
	H <sub>b</sub> [mm]	2.6	3.4	4.6	6.6	12.8
	h [mm]	0.8	1.2	2.0	3.0	4.0
	h <sub>r</sub> [mm]	1.2	1.7	2.5	4.75	6.3
Drive parameters	Max. belt speed [m/s]	60	55	55	50	40
	Weight per rib [kg/m]	0.0045	0.0085	0.0177	0.0354	0.1171
	Min. pulley diameter [mm]	13	20	45	75	180
	Min. diameter for external flat idlers [mm]	40	50	65	150	300
	Min. diameter for internal flat idlers [mm]	22	38	52	76	180

Basic design data

For further information regarding belt dimensions, please consult ISO 9982.

## APPLICATION EXAMPLES

	PH	PJ	PK	PL	PM
	Household appliances	Dryers	Washing machines		
	Magnetic agitators	Fitness equipments	Laundry machines		
	Automatic doors	Floor polishers	Small compressors		
	Concrete mixers	Elevator doors	Lift appliances, etc..		
	Tractors	Elevators	Pumps & compressors		
	Lifting equipment	Fans	Wood saws, etc...		
	High pressure cleaners	Flour mills	Crushers		
	Piston compressors	Escalators	Brick machinery, etc...		
	Paper industry	Hammer mills	Turbines		
	Quarries	Granulators	Excavators, etc...		

Application examples of PV Belts

### Designation

