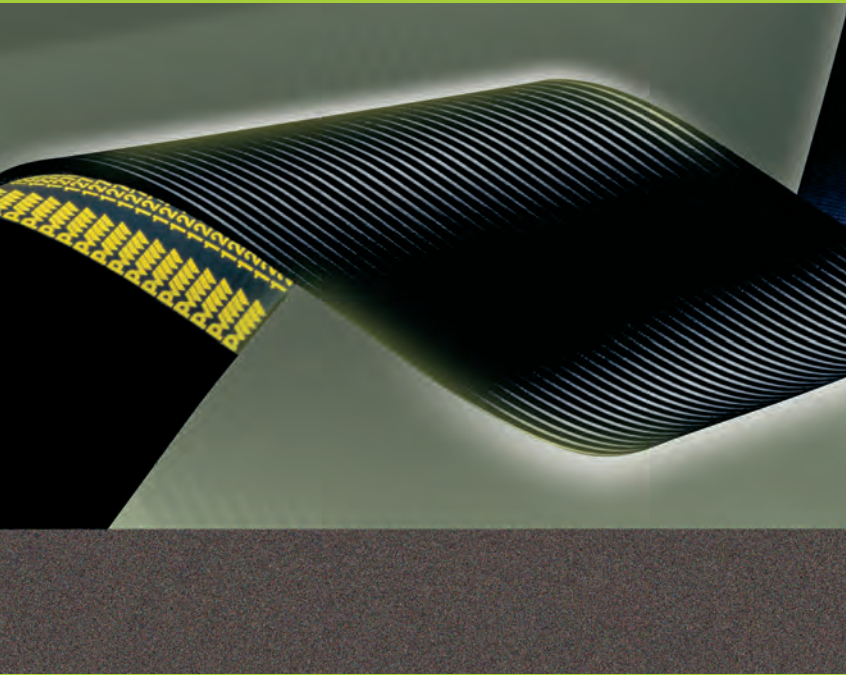




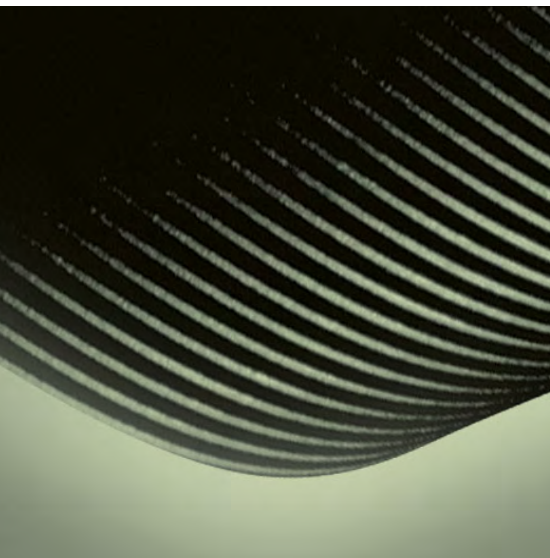
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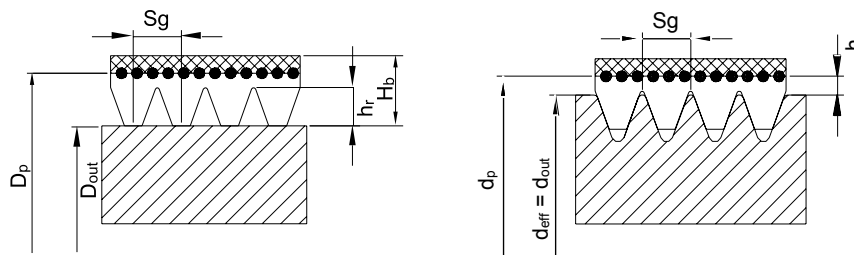
PV-BELTS

TECHNICAL
HANDBOOK



BELT CROSS SECTIONS AND DIMENSIONS

PV-belts are divided in six 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 hr have to be added in order to calculate the pitch diameter of the pulleys.

TABLE 1 - BASIC DESIGN DATA

	MATERIAL	PU-RUBBER	PU	PU-RUBBER	RUBBER		
		PH	PTB2	PJ	PK	PL	PM
BELT DIMENSIONS	Sg [mm]	1.6	2.0	2.34	3.56	4.70	9.40
	Hb [mm]	2.6	2.2	3.5	4.6	6.6	12.8
	H [mm]	0.8	0.6	1.2	2.0	3.0	4.0
	hr [mm]	1.2	1.3	1.7	2.5	4.75	6.3
DRIVE PARAMETERS	Max. belt speed [m/s]	60	60	55	55	50	40
	Weight per rib [kg/m]	PU: 0.0036	0.0037	PU: 0.0073	0.0177	0.0354	0.1171
		RUBB: 0.0045		RUBB: 0.0085			
	Min. pulley diameter [mm]	13	15	20	45	75	180
	Min. diameter for external flat idlers [mm]	40	40	50	65	150	300
Min. diameter for internal flat idlers [mm]	22	30	38	52	76	180	

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

TABLE 2 - APPLICATION EXAMPLES OF PV-BELTS

PH	household appliances	dryers	washing machines
PTB2	slicers	balancing machines	
PJ	magnetic agitators automatic doors concrete mixers	fitness equipments floor polishers elevator doors	laundry machines small compressors lift appliances, etc...
PK	tractors lifting equipment	elevators fans	pumps & compressors wood saws, etc...
PL	high pressure cleaners piston compressors	flour mills escalators	crushers brick machinery, etc...
PM	paper industry quarries	hammer mills granulators	turbines excavators, etc...