TRANSMISSION BELTS

The Quality choice for any transmission

ROULUNDS transmission belts are used everywhere - within industries, agriculture and fishing as well as within horticulture and in household machines - not to mention, in automobiles. They are used in millions all over the world. - That is proven quality!

Products Design manual

Key Power rating tables

Application	V-belt type								
	Features								Key
These are guidelines only; for further information see the individual programmes	Temperature +/- [C°]	Oil resistance	Antistatic	Shock or pulsating load	Outside tension idler	Tolerance stable TS	Recommended maximum belt speed [m/s]	1: Suitable 2: Moderate 3: Conditional Designation	Programme No.
V-BELTS									
Machine industry, high speed, compact drives	+90 -35	1	Yes	1	3	Yes	50	Narrow V-belts ROFLEX RE-X Raw-edge, moulded cog	10
Machine industry in general, and partly agricultural machinery	+70 -40	2	Yes	1	3	Yes	42	Narrow V-belts ROFLEX Wrapped	11
Machine industry, high speed drives	+70 -40	2	Yes	2	3	Yes	50	Narrow V-belts ROFLEX - X Raw-edge, moulded cog	12
Machine industry and agricultural machinery	+70 -40	2	Yes	1	2	Yes	30	Classical V-belts ROFLEX Wrapped	15
Machine industry, high speed drives	+70 -40	2	Yes	2	2	Yes	50	Classical V-belts ROFLEX - X Raw-edge, moulded cog	16
Machine industry, high speed drives	+90 -35	1	Yes	2	2	Yes	50	Classical V-belts ROFLEX RE-X Raw-edge, moulded cog	17
Agricultural machinery and special industrial drives	+70 -40	2	Yes	1	1	Yes	30	Classical V-belts ROFLEX Wrapped	20
Agricultural machinery and industrial drives	+70 -40	2	Yes	1	1		30	Double V-belts ROFLEX Wrapped	21
Agricultural machinery and industrial drives with heavily pulsating load. Coupling belt.	+70 -35	2	Yes	1	2		30	Joined V-belts ROFLEX Wrapped	23
Industrial drives with difficult installation conditions. Conveyor systems.	+70 -30	2		3			30	Connector V-belts ROCON Wrapped	30
VARIABLE SPEED V-BELTS									
Industrial speed adjustable gears.	+90 -30	1	Yes	2	3		42	Variable speed V-belts ROFLEX-VARI Raw-edge, moulded cog	40
Agricultural machinery, speed adjustable gears.	+90 -30	1		1	3		42	Variable speed V-belts ROFLEX-VARI Raw-edge, moulded cog	41

Application	V-belt type								
	Features								Key
These are guidelines only; for further information see the individual programmes	Temperature +/- [C°]	Oil resistance	Antistatic	Shock or pulsating load	Outside tension idler	Tolerance stable TS	Recommended maximum belt speed [m/s]	1: Suitable 2: Moderate 3: Conditional Designation	Programme No.
MULTI-RIB BELTS									
High speed, compact industrial drives.	+90 -35	1	Yes	2	1			Multi-rib belt ROFLEX	33
TIMING BELTS									
Synchronous drives.	+90 -35	1	Yes	3	2			Synchronous belts RO-DRIVE	34
SPECIAL V-BELTS									
Textile, food, paper industries etc.	+70 -35	2		2	2	Yes	30	Non-fric V-belts ROFLEX Wrapped	31
Woodworking and packaging industries. Agricultural harvesting machinery.	+70 -30	2			3			V-belts with special top surfaces ROFLEX Wrapped or raw-edge moulded cog	35
SPECIAL BELTS									
Flat belt drives. Conveyor systems.	+60 -30			2	1		40 20 20	Flat belts DANCORD STARKODDER, VIDAR	50 50 50
Packaging machines, canning industry.	+80 -30							Flat belts WHITE-CAP	51

BACK

ROFLEX RE-X NARROW V-BELTS

SPECIFICATIONS - STANDARD PROGRAMME

APPLICATION:
Machine industry, high-speed drives, compact drives.

ROFLEX NARROW V-BELTS

SPECIFICATIONS - STANDARD PROGRAMME

APPLICATION:
Machine industry in general, and partly agricultural machinery.

ROFLEX-X NARROW V-BELTS

SPECIFICATIONS - STANDARD PROGRAMME

APPLICATION:
Machine industry, high-speed drives.

ROFLEX CLASSICAL V-BELTS

SPECIFICATIONS - STANDARD PROGRAMME

APPLICATION:
Machine industry and agricultural machinery.

ROFLEX-X CLASSICAL V-BELTS

SPECIFICATIONS - STANDARD PROGRAMME

APPLICATION:
Machine industry, high speed drives.

ROFLEX RE-X CLASSICAL V-BELTS

SPECIFICATIONS

APPLICATION:
Machine industry, high speed drives.

ROFLEX V-BELTS - AGRICULTURE

SPECIFICATIONS

APPLICATION:
Agricultural machinery and special industrial drives.

ROFLEX DOUBLE V-BELTS

SPECIFICATIONS - STANDARD PROGRAMME

APPLICATION:
Agricultural machinery and industrial drives.

ROFLEX JOINED V-BELTS

SPECIFICATIONS - STANDARD PROGRAMME

APPLICATION:
Agricultural machinery and industrial drives with heavily pulsating load. Coupling belt.

ROCON CONNECTOR V-BELTS

SPECIFICATIONS

APPLICATION:
Industrial drives with difficult installation conditions. Conveyor systems.

ROFLEX-VARI VARIABLE SPEED V-BELTS

SPECIFICATIONS - STANDARD PROGRAMME

APPLICATION:
Industrial speed adjustable gears.

ROFLEX-VARI VARIABLE SPEED V-BELTS

SPECIFICATIONS - STANDARD PROGRAMME

APPLICATION:
Agricultural machinery, speed adjustable gears.

ROFLEX MULTI-RIB BELTS

SPECIFICATIONS - STANDARD PROGRAMME

APPLICATION:
High-speed, compact industrial drives.

RO-DRIVE TIMING BELTS

SPECIFICATIONS - STANDARD PROGRAMME

APPLICATION:
From electric typewriters to heavy industrial machinery.

ROFLEX NON-FRIC BELTS

SPECIFICATIONS

APPLICATION:
Textile, food, paper industries etc.

ROFLEX SPECIAL V-BELTS

SPECIFICATIONS

APPLICATION:
Woodworking and packaging industries. Agricultural harvesting machinery.

DANCORD FLAT BELTS

SPECIFICATIONS

APPLICATION:
DANCORD endless transmission belts. Flat belt drives for agriculture, industrial and fishing industries.

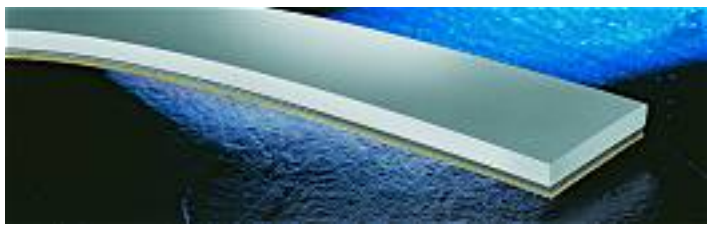
STARKODDER FLAT BELTS

SPECIFICATIONS

APPLICATION:
STAERKODDER endless transmission belts. Flat belt transmissions and conveyor belting for light-duties within agriculture, fishing, packing deparments and industries.

ROFLEX CAPPING BELTS

SPECIFICATIONS



APPLICATION:
Packaging machines, canning industry.

PROGRAMME 10

PRODUCT DESCRIPTION

The ROFLEX RE-X narrow V-belt is a raw-edge type with moulded cog. A special rubber compound wiht textile fibres oriented across the belt length resists deformation of the belt and provides great wear resistance. The moulded cog provides high flexibility and a good fit in the pulley grooves as well as a lower operating temperature which extends teh belt's life. The belt keeps a constant friction level for the remainder of its life after running in. ROFLEX RE-X is resistant to oil and the stress of temperatures. This type of belt is both antistatic and tolerance stable TS, and it can be used in matched sets without sorting.

SECTION PROGRAMME

Section	Top width [mm]	Height [mm]	Length range [mm]
XPZ / 3VX[1)]	9.7	8	530-5000
XPA	12.7	9	538-5000
XPB / 5VX[1)]	16.3	13	805-5000
XPC	22	18	1750-5000

[1)] American RMA sections.

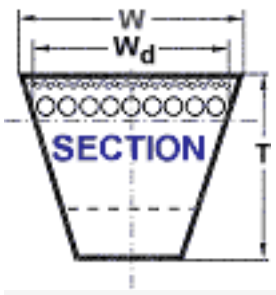
APPLICATION

We recommend using ROFLEX RE-X in new drive designs. The belt has a higher power rating, greater efficiency and longer life than other belt types, and it is able to operate with small pulley diameters, high belt speeds and speed ratios. Drives can therefore be made in more compact, space-saving designs and at a lower overall cost. Moreover, it matyh be more economical to use ROFLEX RE-X vbelts when replacing the V-belts in existing drives.

STANDARDS

ROFLEX RE-X narrow V-belts:
ISO 4184, BS 3790, DIN 7753/1, RMA/MPTA IP-22 etc.

Pulleys:
ISO 4183, BS 3790, DIN 2211/1, RMA/MPTA IP-22 etc.



ISO 4184, BS 3790 DIN 7753/1 RMA/MPTA IP-22		XPZ	XPA	XPB	XPC	3VX/ 9NX	5VX/ 15NX
Top width	W [mm] ≃	9.7	12.7	16.3	22	9	15
Datum width	W_d [mm]	8.5	11	14	19		
Section height	T [mm] ≃	8	9	13	18	8	13
Datum belt length	$L_d \simeq L_e$ - [mm]					4	11
Outside belt length	$L_a \simeq L_d$ + [mm]	13	18	22	30		
Minimum pulley datum-diameter	d_d [mm]	50	63	100	160		
Weight	[kg/m] ≃	0.065	0.105	0.190	0.325		
Maximum deflection frequency	f [Hz]	120					
Recommended maximum belt speed	v [m/s]	50					

PROGRAMME 10

STANDARD PROGRAMME - ROFLEX RE-X

Section XPZ / 3VX						Section XPA		Section XPB / 5VX		Section XPC
Datum length [mm]	3VX No.	Datum length [mm]	3VX No.	Datum length [mm]	3VX No.	Datum length [mm]	Datum length [mm]	Datum length [mm]	5VX No.	Datum length [mm]
587		1187		3000	1180	732	1600	1250		2000
612		1202	475	3150		757	1607	1320		2120
630	250	1212		*3170*	*1250* ▲	782	1650	*1335*	*530* ▲	2240
637		1237		3350	1320	800	1657	1400		2360
662	260	1250		3550	1400	807	1700	1500	600	2500
670	265	1262	500			832	1750	1600	630	2650
687		1287				850	1757	1700	670	2800
710	280	1312				857	1782	1800	710	3000
722		1320	520			882	1800	1900	750	3150
737		1337				900	1850	1950		3350
750		1362				907	1900	2000		3550
762	300	1387				932	1932	2120	840	3750
780		1400				950	1950	2150	850	4000
787		1412				957	2000	2240		4250
795		1437				982	2057	2285	900	4500
800	315	1462				1000	2082	2360		4750
812		1487				1007	2120	2410	950	5000
825		1500				1032	2182	2500		
837		1512				1060	2240	2650		
850	335	1537				1082	2360	2730	1080	
862		1562	617			1107	2432	2800		
875		1587				1120	2482	2840	1120	
887	350	1600	630			1132	2500	3000	1180	
900	355	1612				1157	2582	3150		
912		1637				1180	2650	*3165*	*1250* ▲	
925		1662				1207	2800	3350	1320	
930		1687				1232	3000	3550	1400	
937	370	1700	670			1250	3150	3750		
950	375	1762				1257	3350	3800	1500	
962		1800	710			1272	3550	4000		
987		1850				1282	3750	4060	1600	
1000		1900	750			1307	4000	4250		
1012	400	2000				1320	4500	*4310*	*1700* ▲	
1024		2037	800			1332		4500		
1037		2120				1357		*4560*	*1800* ▲	
1047		2137				1382		4750		
1060		2240				1400		5000		
1077	425	2287	900			1432				
1087		2360				1457				
1112		2410	950			1482				
1120		*2*500				1500				
1137	450	*2540*	*1000* ▲			1507				
1150		2650				1532				
1162		2800				1557				
1180		*2840*	*1120* ▲			1582				

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

PROGRAMME 11

PRODUCT DESCRIPTION

ROFLEX narrow V-belt are resistant to temperatures and oil, and they are antistatic. The belt core, comprising the rubber compression zone which is resistant to intensive heat stresses and compressions as well as the power transmitting cord, is wrapped in a fabric cover that provides both protection agains external influences and uniform friction against the pulleys.
The ROFLEX narrow V-belt is tolerance stable TS - manufactured and checked to comply with such exacting length tolerances that the belts can be used in matched sets without sorting.

SECTION PROGRAMME

Section	Top width [mm]	Height [mm]	Length range [mm]
SPZ / 3V[1)]	9.7	8	548 - 5538
SPA	12.7	10	732 - 5330
SPB / 5V[1)]	16.3	13	1210 - 16000
SPC	22	18	1860 - 16000
8V / 25N[1)]	25	23	920[2)] - 6300[2)]
S19	18.6	15	2475 - 6975

1) American RMA sections
2) Effective belt length in 1/10 inch

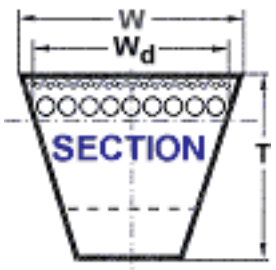
APPLICATION

ROFLEX narrow V-belts are used in industrial and agricultural machinery. They are especially suitable for drives with high belt speeds.
Narrow V-belts use up to 50% smaller pulley widths than classical sections, allowing more compact drives.
Since most new drives use universal pulleys, the classical belt can in most cases be replaced with a narrow V-belt, thereby achieving better power transmission and longer belt life.

STANDARDS

ROFLEX narrow V-belts:
ISO 4184, BS 3790, DIN 7753/1, RMA/MPTA IP-22 etc.

Pulleys:
ISO 4183, BS 3790, DIN 2211/1, RMA/MPTA IP-22 etc.



ISO 4184, BS 3790 DIN 7753/1 RMA/MPTA IP-22		SPZ	SPA	SPB	SPC	S19	3V/ 9N	5V/ 15N	8V/ 25N
Top width	W [mm] ≃	9.7	12.7	16.3	22	18.6	9	15	25
Datum width	W_d [mm]	8.5	11	14	19	16			
Section height	T [mm] ≃	8	10	13	18	15	8	13	23
Datum belt length	L_d ≃ L_e - [mm]						4	11	16
Inside belt length	L_i ≃ L_d - [mm]	37	45	60	83	69			
Outside belt length	L_a ≃ L_d + [mm]	13	18	22	30	25			
Min. pulley datum-diameter	d_d [mm]	63	90	140	224	180			315
Weight	[kg/m] ≃	0.065	0.115	0.200	0.350	0.275			0.520
Maximum deflection frequency	f [Hz]	100							
Recommended maximum belt speed	v [m/s]	42							

Section SPZ / 3V						Section SPA			Section SPB / 5V					
Datum length [mm]	3V No.	Datum length [mm]	3V No.	Datum length [mm]	3V No.	Datum length [mm]	Datum length [mm]	Datum length [mm]	Datum length [mm]	5V No.	Datum length [mm]	5V No.	
562		1202	475	2030		732	1600	2582	1250		3825		
587		1212		2037	800	782	1607	2607	1320		*3870*		Δ
612		1237		2087		800	1632	2632	1400		4000		
630	250	1250		2120		832	1655	2650	1450		4060	1600	
637		1262		2137		850	1657	2682	1500	600	*4120*		Δ
662	260	1270	500	2160		857	1682	2732	1600	630	4250		
670	265	1287		2187		882	1700	2782	1700	670	*4310*	*1700*	Δ
687		1312		2240		900	1707	2800	1750		*4370*		Δ
710	280	1320	520	2287	900	907	1732	2832	1800	710	4500		
737		1337		2360		932	1750	2847	*1850*		Δ	*4620*		Δ
750		1338		2410	950	950	1757	2882	1900	750	4750		
762	300	1347		2500		957	1782	2900	1950		*4870*		Δ
772		1362		2540	1000	967	1800	2932	2000		5000		
780		1387		2650		982	1807	2982	2020	800	5300		
787		1400		2690		1000	1832	3000	2060		5385	2120	
800	315	1412		2800		1007	1852	3032	2120		5600		
812		1420	560	2840	1120	1032	1857	3082	2150	850	6000	2360	
825		1437		3000	1180	1060	1882	3150	2180		6300	2500	
837		1462		3150		1082	1900	3182	2240		6700	2650	
850	335	1487		3350	1320	1107	1907	3282	2285	900	7100	2800	
862		1500		3550	1400	1120	1932	3350	2360		7500		
875		1512				1132	1950	3382	2410	950	8000	3150	
887	350	1537				1157	1957	3550	2430				
900	355	1562				1180	1982	3750	2500				
912		1587				1207	2000	4000	2530	1000			
925		1600	630			1232	2020	4250	2580				
937	370	1612				1250	2032	4500	2650				
950	375	1637				1257	2057		2730				
962		1650				1272	2082		2760				
987		1662				1282	2120		2800				
1000		1687				1307	2132		2840	1120			
1012	400	1700	670			1320	2182		2900				
1024		1737				1332	2207		3000	1180			
1037		1762				1357	2232		*3070*		Δ		
1047		1787				1382	2240		3150				
1060		1800	710			1400	2282		3250				
1077	425	1812				1407	2300		*3320*		Δ		
1087		1837				1432	2307		3350	1320			
1112		1850				1457	2332		3425				
1120		1862				1482	2360		*3450*		Δ		
1137	450	1887				1500	2382		3550	1400			
1150		1900	750			1507	2432		3650				
1162		1937				1532	2482		3675				
1180		1987				1557	2500		3750				
1187		2000				1582	2532		3800	1500			

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Section SPC | Section 8V | See next page

STANDARD PROGRAMME - ROFLEX

Section SPC	Section 8V	
Datum length [mm]	Datum length [mm]	
2000	1000	
2120	1060	
2240	1120	
2360	1180	
2500	1250	
2650	1320	
2800	1400	
3000	1500	
3100 Δ	1600	
3150	1700	
3350	1800	
3550	1900	
3750	2000	
4000	2120	
4100	2240	
4250	2360	
4380 Δ	2500	
4400	2650	
4500	2800	
4750	3000	
5000	3150	
5300	3350	
5600	3550	
6000	3750	
6050 Δ	4000	
6300	4250	
6700	4500	
7100	4750	
7500	5000	
8000		
8500		
9000		
9500		
10000		
10600		
11200		
11800		
12500		

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

PROGRAMME 12

PRODUCT DESCRIPTION

ROFLEX-X is a raw-edge narrow V-belt type with moulded cog which is temperature and oil resistant as well as antistatic. The belt is tolerance stable TS, such that belts with the same section and length marking can be used in matched sets without matching. The moulded cog provides high flexibility and a good fit in the pulley grooves as well as a lower operating temperature, which increases belt life.

SECTION PROGRAMME

Section	Top width [mm]	Height [mm]	Length range [mm]
XPZ / 3VX[1)]	9.7	8	530-5000
XPA	12.7	9	538-5000
XPB / 5VX[1)]	16.3	13	865-5000
XPC	22	18	1750-5000

[1)] American RMA sections.

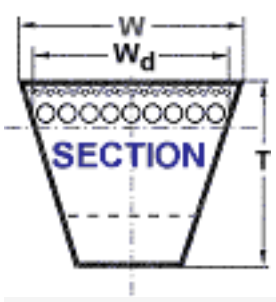
APPLICATION

ROFLEX-X is ROULUNDS new programme within narrow V-belts; it has a wide range of applications, especially in industrial drives with high belt speeds.
This new programme allows immediate improvement of existing drives which use wrapped belts, providing overall benefits with regard to economy as well as power transmission and reliability of operation.

STANDARDS

ROFLEX-X narrow V-belts:
ISO 4184, BS 3790, DIN 7753/1, RMA/MPTA IP-22 etc.

Pulleys:
ISO 4183, BS 3790, DIN 2211/1, RMA/MPTA IP-22 etc.



ISO 4184, BS 3790 DIN 7753/1 RMA/MPTA IP-22		XPZ	XPA	XPB	XPC	3VX/ 9NX	5VX/ 15NX
Top width	W [mm] ≃	9.7	12.7	16.3	22	9	15
Datum width	W_d [mm]	8.5	11	14	19		
Section height	T [mm] ≃	8	9	13	18	8	13
Datum belt length	$L_d \simeq L_e$ - [mm]					4	11
Outside belt length	$L_a \simeq L_d$ + [mm]	13	18	22	30		
Minimum pulley datum-diameter	d_d [mm]	50	63	100	160		
Weight	[kg/m] ≃	0.060	0.100	0.180	0.320		
Maximum deflection frequency	f [Hz]	120					
Recommended maximum belt speed	v [m/s]	50					

Section XPZ / 3VX						Section XPA			Section XPB / 5VX	
Datum length [mm]	3VX No.	Datum length [mm]	3VX No.	Datum length [mm]	3VX No.	Datum length [mm]	Datum length [mm]	Datum length [mm]	Datum length [mm]	5VX No.
562		1137	450	*1812*	Δ	732	1407	2300	1250	
587		1150		*1837*	Δ	750	1432	*2307* Δ	1320	
612		1162		1850		757	1450	2332	*1340*	*530* Δ
630	250	1180		*1862*	Δ	782	1457	2360	1400	
637		1187		1887	Δ	800	1482	*2382* Δ	1450	
662	260	1200	475	1900	750	807	1500	2432	1500	600
670	265	1202	475	*1937*	Δ	825	1507	2482	1525	
687		1212		1950		832	1532	2500	1550	
710	280	1237		*1987*	Δ	850	1550	*2532* Δ	1590	
722		1250		2000		857	1557	2582	1600	630
737		1262		*2025*	Δ	882	1582	*2632* Δ	1650	
750		1270	500	2037	800	900	1600	2650	1700	670
762	300	1287		2120		907	1607	*2682* Δ	1750	690
772	Δ	1312		2137		925	1632	*2732* Δ	1800	710
780		1320	520	*2150*	*850* Δ	932	1650	*2782* Δ	1850	730
787		1337		2187		950	1657	2800	1900	750
795	Δ	*1340*	*530* Δ	2240		957	1682	2832	1950	
800	315	*1347*	Δ	*2280*	*900* Δ	967	1700	*2847* Δ	2000	
812		1362		2287	900	975	1732	*2882* Δ	2020	800
825		1387		2360		982	1750	*2932* Δ	2120	840
837		1400	617	2410	950	1000	1757	*2982* Δ	2150	850
850	335	1412		2500		1007	1782	3000	2180	
862		1420	560	*2540*	*1000* Δ	1032	1800	*3032* Δ	*2202*	Δ
875		1437		2650		1060	*1807* Δ	*3082* Δ	2240	
887	350	1450		2685	1060	1075	1832	3150	2285	900
900	355	1462		2800		1082	1850	*3182* Δ	2300	
912		1470		*2840*	*1120* Δ	1090	1857	*3282* Δ	2360	
925		1487		3000	1180	1107	*1882* Δ	3350	*2400*	Δ
930		1500		3150		1120	1900	*3382* Δ	2410	950
937	370	1512		*3170*	*1250* Δ	1132	*1907* Δ	3550	*2450*	Δ
950	375	1520	600	3350	1320	1150	1932	3750	2500	
962		1537		3550	1400	1157	1950	4000	2530	1000
987		1562	617			1180	1957	*4250* Δ	*2630*	Δ
1000		1587				1207	1982	*4500* Δ	2650	
1010	400	1600	630			1232	2000		2680	1060
1012	400	1612				1250	*2020* Δ		2730	1080
1024		*1625*	Δ			1257	2032		2800	
1037		1637				1272	2057		2840	1120
1047		1662				1282	2082		2900	
1060		1687				1307	2120		3000	1180
1075		1700	670			1320	*2132* Δ		3150	
1077	425	*1737*	Δ			1332	2182		*3170*	*1250* Δ
1087		1762				1357	*2207* Δ		*3210*	Δ
1112		1787				1382	2240		3250	
1120		1800	710			1400	2282		3350	1320

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Section XPB / 5VX | Section XPC | See next page

STANDARD PROGRAMME - ROFLEX-X

Section XPB / 5VX		Section XPC	
Datum length [mm]	5VX No.	Datum length [mm]	
3550	1400	2000	
3750		2120	
3800	1500	2240	
4000		2360	
4060	1600	2500	
4250		2650	
4310	*1700* ▲	2800	
4500		3000	
4560	*1800* ▲	3150	
4750		3350	
4815	*1900* ▲	3550	
5000		3750	
		4000	
		4250	
		4500	
		4750	
		5000	

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

PROGRAMME 15

PRODUCT DESCRIPTION

The ROFLEX classical V-belt is a temperature and oil resistant, antistatic, universal belt type with good power transmission capabilities. ROFLEX classical V-belts are marked TS, tolerance stable, and belts with the same number can be combined into matched sets without sorting.

SECTION PROGRAMME

Section	Top width [mm]	Height [mm]	Length range [mm]
8	8	5	1168 - 5334
Z / 10	10	6	305 - 5334
A / 13	13	8	406 - 7874
B / 17	17	11	581 - 16000
C / 22*)	22	14	798 - 16000
25*)	25	16	1670 - 16000
D / 32	32	20	1778 - 16000
E / 40	40	25	4064 - 16000

*) Primarily used for agricultural machinery.

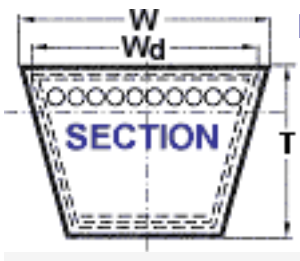
APPLICATION

ROFLEX classical V-belts are an all-round V-belt type with a wide range of applications in agricultural and industrial machinery. ROFLEX classical V-belts provide a technically and economically good design for most ordinary drives.

STANDARDS

ROFLEX classical V-belts:
ISO 4184, BS 3790, DIN 2215, ANSI/RMA IP-20, ASAE S 211.4 etc.

Pulleys:
ISO 4183, BS 3790, DIN 2211/1, DIN 2217/1, ANSI/RMA IP-20, ASAE S 211.4 etc.



ISO 4184, BS 3790
DIN 2215
ANSI/RMA IP-20

		8	Z/10	A/13	B/17	20	C/22	25	D/32	E/40
Top width	W [mm] ≃	8	10	13	17	20	22	25	32	40
Datum width	W_d [mm]	6.7	8.5	11	14	17	19	21	27	32
Section height	T [mm] ≃	5	6	8	11	12.5	14	16	20	25
Datum belt length	L_d ≃ L_i + [mm]	19	22	30	43	48	65	61	69	84
Outside belt length	L_a ≃ L_i + [mm]	31	38	50	66	79	85	101	126	157
Min. pulley datum-diameter	d_d [mm]	40	50	63	100	140	160	224	280	450
Weight	[kg/m] ≃	0.040	0.058	0.104	0.172	0.239	0.282	0.366	0.591	0.958
Maximum deflection frequency	f [Hz]					70				
Recommended maximum belt speed	v [m/s]					30				

PROGRAMME 15

STANDARD PROGRAMME - ROFLEX CLASSICAL

OTHER SECTIONS

Section Z / 10						Section A / 13					
Belt No.	Belt length Inside [mm]	Datum [mm]	Belt No.	Belt length Inside [mm]	Datum [mm]	Belt No.	Belt length Inside [mm]	Datum [mm]	Belt No.	Belt length Inside [mm]	Datum [mm]
14	356	378	46,5	1180	1202	16	407	437	60	1525	1555
15	381	403	47,5	1207	1229	18	457	487	61	1550	1580
15,7	399	421	49	1245	1267	19	480	510	62	1575	1605
16,7	425	447	50	1270	1292	20	508	538	63	1600	1630
17,7	450	472	50,7	1288	1310	21	533	563	64	1623	1653
18,5	470	492	52	1320	1342	22	560	590	65	1650	1680
19	483	505	53	1346	1368	23	584	614	66	1676	1706
19,5	495	517	53,5	1360	1382	23,5	597	627	67	1700	1730
20	508	530	54	1372	1394	24	610	640	68	1725	1755
20,5	521	543	55	1400	1422	25	635	665	69	1750	1780
21	530	552	55,7	1415	1437	26	660	690	70	1775	1805
21,7	551	573	56,7	1440	1462	27	686	716	71	1800	1830
22,2	564	586	58	1475	1497	28	710	740	72	1829	1859
23	584	606	59	1500	1522	29	737	767	73	1854	1884
24	610	632	59,7	1516	1538	30	762	792	74	1880	1910
24,7	630	652	61	1550	1572	31	787	817	75	1900	1930
25,7	653	675	62	1575	1597	32	813	843	76	1930	1960
26,5	673	695	63	1600	1622	33	838	868	77	1956	1986
27	686	708	64	1625	1647	34	864	894	78	1980	2010
28	710	732	64,7	1643	1665	35	889	919	79	2007	2037
29,5	749	771	66	1675	1697	36	914	944	80	2032	2062
30	762	784	67	1700	1722	37	940	970	81	2060	2090
30,5	775	797	68	1725	1747	37,5	953	983	82	2083	2113
30,7	780	802	69	1750	1772	38	965	995	83	2110	2140
31,5	800	822	70	1775	1797	39	990	1020	84	2134	2164
32	813	835	71	1800	1822	40	1016	1046	85	2160	2190
33	838	860	73	1854	1876	41	1041	1071	86	2184	2214
33,7	856	878	75	1900	1922	42	1067	1097	87	2210	2240
35	889	911	78	1981	2003	43	1090	1120	88	2235	2265
35,5	902	771	79	2007	2029	44	1120	1150	89	2261	2291
36	914	784	82	2083	2105	45	1143	1173	90	2286	2316
36,5	927	949	85	2160	2182	46	1168	1198	91	2310	2340
37	940	962	88	2235	2257	47	1194	1224	92	2337	2367
37,5	953	975	90	2286	2308	48	1220	1250	93	2360	2390
38	965	987	91	2311	2333	49	1245	1275	94	2388	2418
39	990	1012				50	1270	1300	95	2413	2443
39,5	1003	1025				51	1295	1325	96	2438	2468
39,7	1008	1030				52	1320	1350	97	2464	2494
40,5	1029	1051				53	1350	1380	98	2489	2519
41	1041	1063				54	1372	1402	99	2515	2545
42	1067	1089				55	1400	1430	100	2540	2570
43	1090	1112				56	1422	1452	101	2565	2595
44	1120	1142				57	1450	1480	102	2591	2621
45	1143	1165				58	1473	1503	103	2616	2646
45,5	1156	1178				59	1500	1530	104	2642	2672

Section A / 13
Section B / 17
See next page

Section A / 13			Section B / 17								
Belt No.	Belt length Inside [mm]	Datum [mm]	Belt No.	Belt length Inside [mm]	Datum [mm]	Belt No.	Belt length Inside [mm]	Datum [mm]	Belt No.	Belt length Inside [mm]	Datum [mm]
105	2667	2697	23	584	627	69	1750	1793	115	2921	2964
106	2692	2722	26	660	703	70	1775	1818	116	2950	2993
107	2718	2748	27	686	729	71	1803	1846	117	2972	3015
108	2743	2773	28	710	753	72	1828	1871	118	3000	3043
110	2794	2824	29	737	780	73	1854	1897	120	3048	3091
112	2845	2875	30	762	805	74	1880	1923	122	3099	3142
113	2870	2900	31	787	830	75	1900	1943	124	3150	3193
114	2900	2930	32	813	856	76	1930	1973	125	3175	3218
116	2950	2980	33	838	881	77	1956	1999	126	3200	3243
118	3000	3030	34	864	907	78	1981	2024	127	3226	3269
120	3048	3078	35	889	932	79	2007	2050	128	3250	3293
124	3150	3180	36	914	957	80	2032	2075	130	3302	3345
128	3250	3280	37	940	983	81	2060	2103	132	3350	3393
130	3302	3332	37,5	953	996	82	2083	2126	133	3378	3421
132	3350	3380	38	965	1008	83	2108	2151	134	3404	3447
134	3404	3434	39	990	1033	84	2134	2177	135	3429	3472
136	3454	3484	40	1016	1059	85	2160	2203	136	3450	3493
140	3550	3580	41	1041	1084	86	2184	2227	138	3505	3548
143	3632	3662	42	1067	1110	87	2210	2253	140	3550	3593
144	3658	3688	43	1090	1133	88	2235	2278	*141*	*3581*	*3624* ▲
148	3759	3789	44	1120	1163	89	2261	2304	142	3607	3650
158	4013	4043	45	1143	1186	90	2286	2329	144	3658	3701
162	4115	4145	46	1168	1211	91	2311	2354	146	3708	3751
167	4242	4272	47	1194	1237	92	2337	2380	*147*	*3734*	*3777* ▲
173	4394	4424	48	1219	1262	93	2360	2403	148	3759	3802
180	4572	4602	49	1245	1288	94	2388	2431	150	3810	3853
196	4978	5008	50	1270	1313	95	2413	2456	151	3835	3878
210	5334	5364	51	1295	1338	96	2438	2481	152	3861	3904
			52	1320	1363	97	2464	2507	154	3912	3955
			53	1350	1393	98	2489	2532	156	3962	4005
			54	1372	1415	99	2515	2558	157	3988	4031
			55	1400	1443	100	2540	2583	158	4013	4056
			56	1422	1465	101	2565	2608	160	4064	4107
			57	1450	1493	102	2591	2634	162	4115	4158
			58	1473	1516	103	2616	2659	163	4140	4183
			59	1500	1543	104	2642	2685	165	4191	4234
			60	1525	1568	105	2667	2710	167	4242	4285
			61	1550	1593	106	2692	2735	168	4267	4310
			62	1575	1618	107	2718	2761	170	4318	4361
			63	1600	1643	108	2743	2786	173	4394	4437
			64	1625	1668	109	2769	2812	175	4445	4488
			65	1650	1693	110	2794	2837	177	4500	4543
			66	1676	1719	112	2845	2888	180	4572	4615
			67	1700	1743	113	2870	2913	185	4699	4742
			68	1725	1768	114	2900	2943	187	4750	4793

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Section B / 17 | Section C / 22 | See next page

STANDARD PROGRAMME - ROFLEX CLASSICAL

OTHER SECTIONS

Section B / 17			Section C / 22								
Belt No.	Belt length Inside [mm]	Datum [mm]	Belt No.	Belt length Inside [mm]	Datum [mm]	Belt No.	Belt length Inside [mm]	Datum [mm]	Belt No.	Belt length Inside [mm]	Datum [mm]
188	4775	4818	42	1067	1132	87	2210	2275	136	3454	3519
190	*4826*	*4869* Δ	43	1090	1155	88	2235	2300	137	3480	3545
191	4851	4894	44	1120	1185	89	2261	2326	139	3531	3596
192	4877	4920	45	1143	1208	90	2286	2351	140	3556	3621
193	4900	4943	46	1168	1233	91	2311	2376	142	3607	3672
195	4953	4996	47	1194	1259	92	2337	2402	144	3658	3723
197	5000	5043	48	1219	1284	93	2360	2425	145	3683	3748
204	5182	5225	49	1245	1310	94	2388	2453	146	3708	3773
208	*5283*	*5326* Δ	50	1270	1335	95	2413	2478	148	3759	3824
210	5334	5377	51	1295	1360	96	2438	2503	*149*	*3785*	*3850* Δ
220	5588	5631	52	1320	1385	97	2464	2529	150	3810	3875
223	5664	5707	53	1350	1415	98	2489	2554	151	3835	3900
224	5715	5758	54	1372	1437	99	2515	2580	152	3861	3926
228	5791	5834	55	1400	1465	100	2489	2554	154	3912	3977
240	6096	6139	56	1422	1487	101	2565	2630	*155*	*3937*	*4002* Δ
248	6300	6343	57	1450	1515	102	2591	2656	156	3962	4027
259	*6579*	*6622* Δ	58	1473	1538	103	2616	2681	157	3988	4053
270	*6858*	*6901* Δ	59	1500	1565	104	2642	2707	158	4013	4078
275	6985	7028	60	1524	1589	105	2667	2732	*159*	*4039*	*4104* Δ
276	7010	7053	61	1550	1615	106	2692	2757	160	4064	4129
300	7620	7663	62	1575	1640	107	2718	2783	*162*	*4115*	*4180* Δ
315	*8001*	*8044* Δ	63	1600	1665	108	2743	2808	*163*	*4140*	*4205* Δ
330	8382	8425	64	1625	1690	109	2769	2834	164	4166	4231
345	8763	8806	65	1650	1715	110	2794	2859	166	4216	4281
472	*11989*	*12032* Δ	66	1676	1741	111	2819	2884	*167*	*4242*	*4307* Δ
			67	1700	1765	112	2845	2910	168	4267	4332
			68	1727	1792	113	2870	2935	170	4318	4383
			69	1750	1815	114	2896	2961	*172*	*4369*	*4434* Δ
			70	1775	1840	115	2921	2986	173	4394	4459
			71	1800	1865	116	2946	3011	*175*	*4445*	*4510* Δ
			72	1829	1894	117	2972	3037	177	4496	4561
			73	1854	1919	118	2997	3062	180	4572	4637
			74	1880	1945	120	3048	3113	*182*	*4623*	*4688* Δ
			75	1900	1965	*121*	*3073*	*3138* Δ	187	4750	4815
			76	1930	1995	122	3099	3164	*190*	*4826*	*4891* Δ
			77	1956	2021	124	3150	3215	193	4902	4967
			78	1981	2046	125	3175	3240	195	4953	5018
			79	2007	2072	126	3200	3265	197	5004	5069
			80	2032	2097	127	3226	3291	*198*	*5029*	*5094* Δ
			81	2060	2125	128	3251	3316	*200*	*5080*	*5145* Δ
			82	2083	2148	130	3302	3367	204	5182	5247
			83	2108	2173	*131*	*3327*	*3392* Δ	*208*	*5283*	*5348* Δ
			84	2134	2199	132	3353	3418	210	5334	5399
			85	2160	2225	133	3378	3443	*212*	*5385*	*5450* Δ
			86	2184	2249	134	3404	3469	*215*	*5461*	*5526* Δ

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Section C / 22 | Section D / 32 | Section 25 | See next page

PROGRAMME 15

STANDARD PROGRAMME - ROFLEX CLASSICAL

Section C / 22			Section D / 32			Section D / 32			Section 25	
Belt No.	Belt length Inside [mm]	Datum [mm]	Belt No.	Belt length Inside [mm]	Datum [mm]	Belt No.	Belt length Inside [mm]	Datum [mm]	Belt length Inside [mm]	Datum [mm]
220	5588	5653	94	2388	2457	*480*	*12192*	*12261* Δ	*1900*	*1961* Δ
225	5715	5780	98	2489	2558	*525*	*13335*	*13404* Δ	*2000*	*2061* Δ
228	5791	5856	*101*	*2565*	*2634* Δ				*2500*	*2561* Δ
230	*5842*	*5907* Δ	110	2800	2869				*2700*	*2761* Δ
238	6045	6110	*115*	*2921*	*2990* Δ				*2800*	*2861* Δ
240	6096	6161	120	3048	3117				*3200*	*3261* Δ
248	6300	6365	*121*	*3073*	*3142* Δ				*3250*	*3311* Δ
250	*6350*	*6415* Δ	*125*	*3175*	*3244* Δ				*3300*	*3361* Δ
255	6477	6542	*126*	*3200*	*3269* Δ				*3350*	*3411* Δ
260	*6604*	*6669* Δ	128	3251	3320				*3430*	*3491* Δ
261	*6629*	*6694* Δ	*132*	*3350*	*3419* Δ				*3550*	*3611* Δ
268	*6807*	*6872* Δ	133	3378	3447				*3660*	*3721* Δ
270	6858	6923	134	3404	3473				*4000*	*4061* Δ
276	7010	7075	136	3454	3523				*4500*	*4561* Δ
285	7239	7304	140	3550	3619				*4750*	*4811* Δ
298	*7569*	*7634* Δ	143	3632	3701				*5700*	*5761* Δ
300	7620	7685	144	3658	3727					
323	*8205*	*8270* Δ	148	3759	3828					
330	8382	8447	*152*	*3861*	*3930* Δ					
345	*8763*	*8828* Δ	154	3912	3981					
360	9144	9209	158	4013	4082					
390	*9906*	*9971* Δ	160	4064	4133					
394	10008	10073	162	4115	4184					
420	10668	10733	163	4140	4209					
			167	4242	4311					
			169	*4293*	*4362* Δ					
			173	4394	4463					
			175	*4445*	*4514* Δ					
			180	4572	4641					
			195	4953	5022					
			197	*5004*	*5073* Δ					
			210	5334	5403					
			220	5588	5657					
			225	5715	5784					
			240	6096	6165					
			248	6300	6369					
			250	6350	6419					
			255	6477	6546					
			270	6858	6927					
			285	*7239*	*7308* Δ					
			300	7620	7689					
			315	*8001*	*8070* Δ					
			330	8382	8451					
			360	9144	9213					
			441	11201	11270					

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

PROGRAMME 16

PRODUCT DESCRIPTION

ROFLEX-X is a raw-edge classical V-belt type with moulded cog which is temperature and oil resistant as well as antistatic. The belts are tolerance stable, TS, such that belts with the same section and length marking can be used immediately in matched sets.
The moulded cog provides high flexibility and a good fit in the pulley grooves as well as a lower operating temperature, which increases belt life.

SECTION PROGRAMME

Section	Top width [mm]	Height [mm]	Length range [mm]
ZX / 10X	10	6	483-5000
AX / 13X	13	8	483-5000
BX / 17X	17	11	584-5000
CX / 22X	22	14	1067-5000

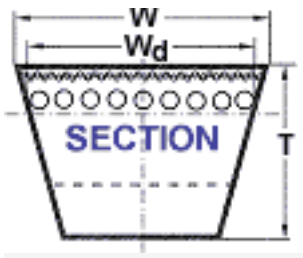
APPLICATION

ROFLEX-X is ROULUNDS new programme within classical V-belts; it has a wide range of applications, especially in industrial drives with high belt speeds and small pulley diameters. This new programme allows immediate improvement of existing drives which use wrapped belts, providing overall benefits with regard to economy as well as power transmission and reliability of operation.

STANDARDS

ROFLEX-X classical V-belts:
ISO 4184, BS 3790, DIN 2215, ANSI/RMA IP-20 etc.

Pulleys:
ISO 4183, BS 3790, DIN 2211/1, ANSI/RMA IP-20 etc.



ISO 4184, BS 3790 DIN 2215 ANSI/RMA IP-20		ZX / 10X	AX / 13X	BX / 17X	CX / 22X
Top width	W [mm] ≃	10	13	17	22
Datum width	W_d [mm]	8.5	11	14	19
Section height	T [mm] ≃	6	8	11	14
Inside belt length	$L_i \simeq L_d$ - [mm]	22	30	43	65
Outside belt length	$L_a \simeq L_d$ + [mm]	16	20	23	20
Minimum pulley datum-diameter	d_d [mm]	40	50	80	140
Weight	[kg/m] ≃	0.055	0.080	0.165	0.250
Maximum deflection frequency	f [Hz]	120			
Recommended maximum belt speed	v [m/s]	50			

PROGRAMME 16

STANDARD PROGRAMME - ROFLEX-X

OTHER SECTIONS

Section ZX / 10X				Section AX / 13X					
Belt No.	Datum length [mm]	Belt No.	Datum length [mm]	Belt No.	Datum length [mm]	Belt No.	Datum length [mm]	Belt No.	Datum length [mm]
19	505	*52*	*1343* Δ	19	513	56	1452	*102*	*2621* Δ
19,5	517	*53*	*1368* Δ	20	538	57	1478	*104*	*2672* Δ
20	530	*53,5*	*1381* Δ	21	563	58	1503	*105*	*2697* Δ
20,5	543	*54*	*1394* Δ	22	589	59	1529	*106*	*2722* Δ
21	555	*55*	*1419* Δ	23	614	60	1554	*107*	*2748* Δ
21,7	*573* Δ	*55,7*	*1437* Δ	24	640	61	1579	*108*	*2773* Δ
22,2	*586* Δ	*56,7*	*1462* Δ	25	665	62	1605	*110*	*2824* Δ
23	606	*58*	*1495* Δ	26	690	63	1630	*112*	*2875* Δ
24	632	*59*	*1521* Δ	27	716	64	1656	*113*	*2900* Δ
24,7	649	*59,7*	*1538* Δ	28	741	65	1681	*114*	*2926* Δ
25,7	675	*60*	*1546* Δ	29	767	66	1706	*115*	*2951* Δ
27	708	*61*	*1571* Δ	30	792	67	1732	*116*	*2976* Δ
28	733	*62*	*1597* Δ	31	817	68	1757	*118*	*3027* Δ
28,5	746	*63*	*1622* Δ	*31,5*	*830* Δ	69	1783	*120*	*3078* Δ
29,5	*771* Δ	*64*	*1648* Δ	32	843	70	1808	*124*	*3180* Δ
30	784	*64,7*	*1665* Δ	*32,5*	*856* Δ	71	1833	*128*	*3281* Δ
30,5	*797* Δ	*66*	*1698*	33	868	72	1859	*130*	*3332* Δ
30,7	*802* Δ	*67*	*1724* Δ	34	894	73	1884	*132*	*3383* Δ
31,5	*822* Δ	*68*	*1749* Δ	*34,5*	*906* Δ	74	1910	*134*	*3434* Δ
32	835	*69*	*1775* Δ	35	919	75	1935	*136*	*3484* Δ
33	860	*70*	*1800* Δ	36	944	76	1960	*140*	*3586* Δ
33,7	*878* Δ	*71*	*1825* Δ	37	970	77	1986	*144*	*3688* Δ
35	911	*73*	*1876* Δ	*37,5*	*983* Δ	78	2011	*148*	*3789* Δ
35,5	*924* Δ	*75*	*1927* Δ	38	985	79	2037	*158*	*4043* Δ
36	*936* Δ	*78*	*2003* Δ	*38,5*	*1008* Δ	80	2062	*162*	*4145* Δ
36,5	*949* Δ	*79*	*2029* Δ	39	1021	81	2087		
37	*962* Δ	*80*	*2054* Δ	40	1046	*82*	*2113* Δ		
37,5	*975* Δ	*82*	*2105* Δ	41	1071	*83*	*2138* Δ		
38	*987* Δ	*85*	*2181* Δ	42	1097	*84*	*2164* Δ		
39	*1013* Δ	*88*	*2257* Δ	*42,5*	*1110* Δ	*85*	*2189* Δ		
39,5	*1025* Δ	*90*	*2308* Δ	43	1122	*86*	*2214* Δ		
39,7	1030	*91*	*2333* Δ	*43,5*	*1135* Δ	*87*	*2240* Δ		
40	*1038* Δ			44	1148	*88*	*2265* Δ		
40,5	*1051* Δ			*44,5*	*1160* Δ	*89*	*2291* Δ		
41	*1063* Δ			45	1173	*90*	*2316* Δ		
42	1089			46	1198	*91*	*2341* Δ		
43	*1114* Δ			47	1224	*92*	*2367* Δ		
44	1140			48	1249	*93*	*2392* Δ		
45	1165			49	1275	*94*	*2418* Δ		
45,5	*1178* Δ			50	1300	*95*	*2443* Δ		
46,5	*1203* Δ			51	1325	*96*	*2648* Δ		
47,5	*1229* Δ			52	1351	*97*	*2494* Δ		
49	*1267* Δ			53	1376	*98*	*2519* Δ		
50	*1292* Δ			54	1402	*99*	*2545* Δ		
50,7	*1310* Δ			55	1427	*100*	*2570* Δ		

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Section BX / 17X **Section CX / 22X** **See next page**

Section BX / 17X						Section CX / 22X			
Belt No.	Datum length [mm]	Belt No.	Datum length [mm]	Belt No.	Datum length [mm]	Belt No.	Datum length [mm]	Belt No.	Datum length [mm]
23	627	69	1796	*117*	*3015* Δ	42	1132	87	2275
26	703	70	1821	*118*	*3040* Δ	44	1183	88	2300
27	729	71	1846	*120*	*3091* Δ	45	1208	*89*	*2326* Δ
28	754	72	1872	*122*	*3142* Δ	46	1233	90	2351
29	780	73	1897	*124*	*3193* Δ	47	1259	*91*	*2376* Δ
30	805	74	1923	*125*	*3218* Δ	48	1284	92	2402
31	830	75	1948	*126*	*3243* Δ	49	1310	93	2427
32	856	76	1973	*127*	*3269* Δ	50	1335	*94*	*2453* Δ
33	881	77	1999	*128*	*3294* Δ	51	1360	95	2478
34	907	78	2024	*130*	*3345* Δ	52	1386	96	2503
35	932	79	2050	*132*	*3396* Δ	53	1411	97	2529
36	957	80	2075	*133*	*3421* Δ	54	1437	98	2554
36,7	975	81	2100	*134*	*3447* Δ	55	1462	99	2580
37	983	82	2126	*135*	*3472* Δ	56	1487	100	2605
38	1008	83	2151	*136*	*3497* Δ	57	1513	*101*	*2630* Δ
39	1034	84	2177	*138*	*3548* Δ	58	1538	102	2656
40	1059	85	2202	*140*	*3599* Δ	59	1564	*103*	*2681* Δ
41	1084	86	2227	*144*	*3701* Δ	60	1589	*104*	*2707* Δ
42	1110	87	2253	*146*	*3751* Δ	61	1614	105	2732
43	1135	88	2278	*148*	*3802* Δ	62	1640	*106*	*2757* Δ
44	1161	89	2304	*150*	*3853* Δ	63	1665	*107*	*2783* Δ
45	1186	90	2329	*152*	*3904* Δ	63,2	1670	*108*	*2808* Δ
46	1211	91	2354	*154*	*3955* Δ	64	1691	*109*	*2834* Δ
47	1237	92	2380	*157*	*4031* Δ	65	1716	*110*	*2859* Δ
48	1262	93	2405	*158*	*4056* Δ	66	1741	*111*	*2884* Δ
49	1288	94	2431	*162*	*4158* Δ	67	1767	*112*	*2910* Δ
50	1313	95	2456	*163*	*4183* Δ	68	1792	*113*	*2935* Δ
51	1338	96	2481	*165*	*4234* Δ	69	1818	*114*	*2961* Δ
52	1364	96,5	2494	*168*	*4310* Δ	70	1843	*115*	*2986* Δ
53	1389	97	2507	*173*	*4437* Δ	71	1868	*116*	*3011* Δ
54	1415	98	2532	*175*	*4488* Δ	72	1894	*117*	*3037* Δ
55	1440	99	2558	*180*	*4615* Δ	73	1919	*118*	*3062* Δ
56	1465	100	2583	*185*	*4742* Δ	74	1945	*120*	*3113* Δ
57	1491	101	2608	*187*	*4793* Δ	75	1970	*122*	*3164* Δ
58	1516	102	2634	*188*	*4818* Δ	76	1995	*124*	*3215* Δ
59	1542	103	2659			77	2021	*125*	*3240* Δ
60	1567	104	2685			78	2046	*126*	*3265* Δ
61	1592	105	2710			79	2072	*127*	*3291* Δ
62	1618	*108*	*2786* Δ			80	2097	*128*	*3316* Δ
63	1643	*110*	*2837* Δ			81	2122	*130*	*3367* Δ
64	1669	*112*	*2888* Δ			82	2148	*132*	*3418* Δ
65	1694	*112,5*	*2901* Δ			83	2173	*133*	*3443* Δ
66	1719	*114*	*2939* Δ			84	2199	*134*	*3469* Δ
67	1745	*115*	*2964* Δ			85	2224	*136*	*3519* Δ
68	1770	*116*	*2898* Δ			86	2249	*137*	*3545* Δ

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Section CX / 22X **See next page**

STANDARD PROGRAMME - ROFLEX-X

Section CX / 22X	
Belt No. / Datum length [mm]	
140 3621 ∆ *144 3723 ∆* *150 3875 ∆* *158 4078 ∆* *166 4281 ∆* *173 4459 ∆* *175 4510 ∆* *180 4637 ∆* *195 5018 ∆*	

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

PRODUCT DESCRIPTION

The ROFLEX RE-X classical V-belt is of the raw-edge type with moulded cog. The belt is resistant to oil and temperature stresses as well as antistatic. The moulded cog provides high flexibility and a good fit in the pulley grooves as well as a lower operating temperature, which increases belt life. A special rubber compound with textile fibres oriented across the belt length resists deformation of the belt and provides great wear resistance. The belt keeps a constant friction level for the remainder of its life after running in.
The belts are tolerance stable, TS, allowing it to be used in matched sets without sorting.

SECTION PROGRAMME

Section	Top width [mm]	Height [mm]	Length range [mm]
ZX / 10X	10	6	483-5000
AX / 13X	13	8	483-5000
BX / 17X	17	11	584-5000
CX / 22X	22	14	1067-5000

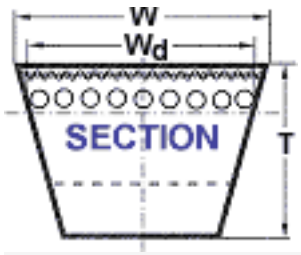
APPLICATION

ROFLEX RE-X has higher power ratings, greater efficiency and longer life than other belt types in classical sections. It is able to operate with smaller pulley diameters, higher belt speeds and speed ratios. Drives can therefore be made in more compact, space-saving designs and at a lower overall cost.
ROFLEX RE-X are recommended for installation in new drives.
Moreover, it may be more economical to use ROFLEX RE-X belts when replacing the V-belts in existing drives.

STANDARDS

ROFLEX RE-X classical V-belts:
ISO 4184, BS 3790, DIN 2215, ANSI/RMA IP-20 etc.

Pulleys:
ISO 4183, BS 3790, DIN 2211/1, ANSI/RMA IP-20 etc.



ISO 4184, BS 3790 DIN 2215 ANSI/RMA IP-20		ZX / 10X	AX / 13X	BX / 17X	CX / 22X
Top width	W [mm] ≃	10	13	17	22
Datum width	W_d [mm]	8.5	11	14	19
Section height	T [mm] ≃	6	8	11	14
Inside belt length	$L_i \simeq L_d$ - [mm]	22	30	43	65
Outside belt length	$L_a \simeq L_d$ + [mm]	16	20	23	20
Minimum pulley datum-diameter	d_d [mm]	40	50	80	140
Weight	[kg/m] ≃	0.060	0.090	0.180	0.255
Maximum deflection frequency	f [Hz]	120			
Recommended maximum belt speed	v [m/s]	50			

PROGRAMME 20

PRODUCT DESCRIPTION

ROFLEX special belts for agricultural machinery are available in three different types, all of which are temperature and oil resistant as well as antistatic.

Quality 311: Reinforced belt design with lowered neutral axis, specially strong polyester cord and wear resistant fabric cover.

Quality 312: High heat resistant, reinforced belt design with lowered neutral axis. The belt is made with chloroprene rubber, specially strong polyester cord and wear resistant fabric cover.

Quality 313: Specially heat resistant, with lowered neutral axis. The belt is made with chloroprene rubber, Kevlar cord and wear resistant fabric cover.

SECTION PROGRAMME

Section	Top width [mm]	Height [mm]	Length range [mm]
A / 13	13	8	1041-7884
B / 17	17	11	1041-16000
20	20	12.5	1170-16000
C / 22	22	14	1041-16000
25	25	16	1780-16000
32	32	16	3380-7500
D / 32	32	20	1778-16000

APPLICATION

ROFLEX special belts for complicated and special belt drives on all types of agricultural machinery.
Quality 311: For drives with an outside idler, and where better belt properties are generally required.
Quality 312: Drives on agricultural machinery requiring a higher power transmission capability, and where an outside idler and small pulleys are used.
Quality 313: Used where the belt is subjected to shock loads, where a high power transmission capability and minimum extension during operation are required, and where an outside idler and small pulley diameters are used.

STANDARDS

ROFLEX classical V-belts:
ISO 4184, BS 3790, DIN 2215, ANSI/RMA IP-20, ASAE S 211.4 etc.

Pulleys:
ISO 4183, BS 3790, DIN 2211/1, DIN 2217/1, ANSI/RMA IP-20, ASAE S 211.4 etc.

PROGRAMME 21

PRODUCT DESCRIPTION

ROFLEX double V-belts combine temperature and oil resistance with antistatic features. The cord is placed at the centre of the belt croos section, making the belt flexible in both directions.
Double V-belts are able to transmit approx. 50% of the power ratings specified for the classical V-belt with the same top width. As regards section 25x22, the power rating is approx. 65% of that of a C section.

SECTION PROGRAMME

Section	Top width [mm]	Height [mm]	Length range [mm]
HAA / AA	13	10	1760-6832
HBB / BB	17	13	1819-7915
HCC / CC	22	17	2847-16055
25 x 22	25	22	2569-7669
HDD / DD	32	25	2924-16079

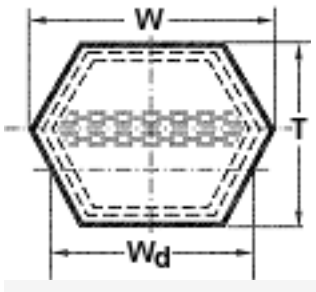
APPLICATION

The double V-profile of the belt makes it suitable for drives with an S-bend and in which both sides of the belt have to be used for transmitting power. This type of drive is especially used in agricultural machinery. The belt is also used for special industrial drives.

STANDARDS

ROFLEX double V-belts:
ISO 5289, DIN 7722, ASAE S 211.4 etc.

Pulleys:
ISO 4183, DIN 2211/1, DIN 2217/1, ASAE S 211.4 etc.



ISO 5289 ASAE S 211.4 DIN 7722		HAA/AA	HBB/BB	HCC/CC	25x22	HDD/DD
Top width	W [mm] ≃	13	17	22	25	32
Datum width	W_d [mm]	11	14	19	21	27
Section height	T [mm] ≃	10	13	17	22	25
Datum belt length	$L_d \simeq L_e$ - [mm]	21	26	36	40	51
Outside belt length	$L_a \simeq L_e$ + [mm]	31	41	53	69	79
Minimum pulley effective-diameter	d_e [mm]	80	125	224	280	355
Weight	[kg/m] ≃	0.140	0.244	0.409	0.590	0.878
Maximum deflection frequency	f [Hz]			60		
Recommended maximum belt speed	v [m/s]			30		

PROGRAMME 21

STANDARD PROGRAMME - ROFLEX DOUBLE

Section HBB / BB		Section HCC / CC		Section 25 x 22		
Belt No.	Effective length [mm]	Belt No.	Effective length [mm]	Belt No.	Effective length [mm]	
74	*1949* Δ	*146*	*3809* Δ	*2810*	*2871* Δ	
75	*1969* Δ	*147*	*3835* Δ	*3210*	*3271* Δ	
76	*1999* Δ	*149*	*3886* Δ			
85	*2229* Δ	*162*	*4216* Δ			
91	*2380* Δ	*175*	*4546* Δ			
96	*2507* Δ	*195*	*5054* Δ			
97	*2533* Δ					
98	*2558* Δ					
112	*2914* Δ					
118	*3069* Δ					
119	*3092* Δ					
121	*3142* Δ					
135	*3498* Δ					
138	*3574* Δ					
143	*3701* Δ					
155	*4006* Δ					
173	*4463* Δ					
174	*4489* Δ					

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

PRODUCT DESCRIPTION

ROFLEX joined V-belts, also termed JV-belts, consist of several single belts which are joined into one unit with a band at the top. This design absorbs the natural individual vibrations generated in a belt set.
The belt is temperature and oil resistant as well as antistatic.
Special belts are available in an extra heat resistant type and with a special polyester or Kevlar cord.
Every section of a joined V-belt is able to transmit the same power ratings as the corresponding section of programmes 11 and 15.

SECTION PROGRAMME

Section	Section width [mm]	Belt height [mm]	Length range [mm]
HA / A	13	10	1300 - 2879
HB / B	17	13	1300 - 7600
HC / C	22	17	1431 - 7000
HD / D	32	22	4575 - 16000
3V[1)] / 9J	9	10	1105 - 4875
5V[1)] / 15J	15	16	2390 - 7500
8V[1)] / 25J	25	26	4575 - 16000

1) American RMA sections

APPLICATION

Joined V-belts are used for industrial machinery with pulsating/shock loads, e.g. crushers, compressors, etc., as well as for drives in which the natural vibrations of a belt set may have an adverse effect on the operation of the machine, e.g. lathes, cutters and grinders.
On agricultural machinery, and particularly combine harvesters, they are often used as coupling belts, replacing flat belts or instead of belt sets in order to reduce vibration and increase belt life.

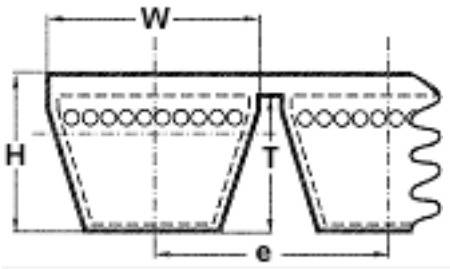
STANDARDS

ROFLEX joined V-belts:
ASAE S 211.4, ANSI/RMA IP-20 and RMA/MPTA IP-22

Pulleys:
Joined V-belts require pulleys which comply with the following standards.

Classical sections:
ISO 5291, ASAE S 211.4, ANSI/RMA IP-20.

RMA sections:
ISO 5290, ASAE S 211.4, RMA/MPTA IP-22.
As regards the American standards, please refer to the dimensions stated in inches.



ASAE S 211.4 ANSI/RMA IP-20 RMA/MPTA IP-22		HA/A	HB/B	HC/C	HD/D	3V/ 9J	5V/ 15J	8V/ 25J
Top width	W [mm] ≃	13	17	22	32	9	15	25
Section height	T [mm]≃	8	11	14	19	8	13	23
Total height	H [mm]	10	13	17	22	10	16	26
Section spacing	e [mm]	15.88	19.05	25.4	36.53	10.3	17.5	28.6
Effective belt length	$L_e \simeq L_i$ + [mm]	32	51	68	94	38	71	125
Outside belt length	$L_a \simeq L_i$ + [mm]	64	80	100	130	66	100	157
Min. pulley effective-diameter	d_e [mm]	80	130	210	370	67	180	315
Weight per section	[kg/m] ≃	0.154	0.237	0.406	0.750	0.095	0.250	0.637
Maximum deflection frequency	f [Hz]				60			
Recommended maximum belt speed	v [m/s]				30			

PROGRAMME 23

STANDARD PROGRAMME - ROFLEX JOINED

OTHER SECTIONS

Section HA / A Standard			Section HB / B Standard					
Profile	Effective length [mm]	Outside length [mm]	Profile	Effective length [mm]	Outside length [mm]	Profile	Effective length [mm]	Outside length [mm]
2HA	*1636*	*1668 Δ*	*2HB*	*1800*	*1829 Δ*	*3HB*	*4735*	*4764 Δ*
2HA	*2000*	*2032 Δ*	*2HB*	*1885*	*1914 Δ*	*4HB*	*2170*	*2199 Δ*
3HA	*2648*	*2680 Δ*	*2HB*	*1950*	*1979 Δ*	*4HB*	*2180*	*2209 Δ*
			2HB	*2120*	*2149 Δ*	*4HB*	*2240*	*2269 Δ*
			2HB	*2380*	*2409 Δ*	*4HB*	*2700*	*2729 Δ*
			2HB	*2450*	*2479 Δ*	*4HB*	*3048*	*3077 Δ*
			2HB	*2500*	*2529 Δ*	*4HB*	*3095*	*3124 Δ*
			2HB	*2650*	*2679 Δ*	*4HB*	*3160*	*3189 Δ*
			2HB	*3000*	*3029 Δ*	*4HB*	*3215*	*3244 Δ*
			2HB	*3030*	*3059 Δ*	*4HB*	*3229*	*3258 Δ*
			2HB	*3050*	*3079 Δ*	*4HB*	*3250*	*3279 Δ*
			2HB	*3089*	*3118 Δ*	*4HB*	*3300*	*3329 Δ*
			2HB	*3110*	*3139 Δ*	*4HB*	*3350*	*3379 Δ*
			2HB	*3280*	*3309 Δ*	*4HB*	*3700*	*3729 Δ*
			2HB	*3300*	*3329 Δ*	*4HB*	*3725*	*3754 Δ*
			2HB	*4380*	*4409 Δ*	*4HB*	*3750*	*3779 Δ*
			2HB	*4650*	*4679 Δ*	*4HB*	*3950*	*3979 Δ*
			2HB	*5190*	*5219 Δ*	*5HB*	*1727*	*1756 Δ*
			3HB	*1486*	*1515 Δ*	*5HB*	*2642*	*2671 Δ*
			3HB	*1575*	*1604 Δ*	*6HB*	*3390*	*3419 Δ*
			3HB	*1716*	*1745 Δ*			
			3HB	*1900*	*1929 Δ*			
			3HB	*1959*	*1988 Δ*			
			3HB	*1980*	*2009 Δ*			
			3HB	*2108*	*2137 Δ*			
			3HB	*2120*	*2149 Δ*			
			3HB	*2180*	*2209 Δ*			
			3HB	*2230*	*2259 Δ*			
			3HB	*2360*	*2389 Δ*			
			3HB	*2450*	*2479 Δ*			
			3HB	*2590*	*2619 Δ*			
			3HB	*2616*	*2645 Δ*			
			3HB	*2670*	*2699 Δ*			
			3HB	*3030*	*3059 Δ*			
			3HB	*3095*	*3124 Δ*			
			3HB	*3150*	*3179 Δ*			
			3HB	*3155*	*3184 Δ*			
			3HB	*3180*	*3209 Δ*			
			3HB	*3280*	*3309 Δ*			
			3HB	*3390*	*3419 Δ*			
			3HB	*3392*	*3421 Δ*			
			3HB	*3400*	*3429 Δ*			
			3HB	*3510*	*3539 Δ*			
			3HB	*3556*	*3585 Δ*			
			3HB	*4100*	*4129 Δ*			

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Section HC / C Standard **SPECIAL BELTS** **See next page**

PROGRAMME 23

STANDARD PROGRAMME - ROFLEX JOINED

Section HC / C Standard			Section HB / B Special			Section HC / C Special		
Profile	Effective length [mm]	Outside length [mm]	Profile	Effective length [mm]	Outside length [mm]	Profile	Effective length [mm]	Outside length [mm]
2HC	*1610*	*1642* Δ	*2HB*	*2200*	*2229* Δ	*2HC*	*3280*	*3312* Δ
2HC	*3185*	*3217* Δ	*2HB*	*2451*	*2480* Δ	*2HC*	*4370*	*4402* Δ
2HC	*3250*	*3282* Δ	*2HB*	*2500*	*2529* Δ	*3HC*	*3325*	*3357* Δ
2HC	*5135*	*5167* Δ	*2HB*	*3510*	*3539* Δ			
3HC	*2311*	*2343* Δ	*2HB*	*4630*	*4659* Δ			
3HC	*3300*	*3332* Δ	*3HB*	*1575*	*1604* Δ			
3HC	*3710*	*3742* Δ	*3HB*	*2450*	*2479* Δ			
3HC	*3815*	*3847* Δ	*3HB*	*2515*	*2544* Δ			
			3HB	*2600*	*2629* Δ			
			3HB	*3030*	*3059* Δ			
			3HB	*3150*	*3179* Δ			
			3HB	*3225*	*3254* Δ			
			3HB	*3280*	*3309* Δ			
			3HB	*3420*	*3449* Δ			
			3HB	*3510*	*3539* Δ			
			3HB	*4100*	*4129* Δ			
			3HB	*4480*	*4509* Δ			
			4HB	*1575*	*1604* Δ			
			4HB	*2240*	*2269* Δ			
			4HB	*2300*	*2329* Δ			
			4HB	*2450*	*2479* Δ			
			4HB	*2700*	*2729* Δ			
			4HB	*3160*	*3189* Δ			
			4HB	*3725*	*3754* Δ			
			4HB	*4030*	*4059* Δ			
			4HB	*4245*	*4274* Δ			

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

PROGRAMME 30

PRODUCT DESCRIPTION

ROCON has been designed to provide great resistance to connector pull-out. Fixed or linked mechanical connectors are used for ROCON.
The belts have a high ultimate tensile strength and profile stability while the special design provides good flexibility at the same time.
ROCON connector V-belts are resistant to temperatures and oil.
Connector V-belts are able to transmit approx. 50% of the power ratings stated for classical
V-belts of the same section.

SECTION PROGRAMME

Section	Top width [mm]	Height [mm]	Minimum pulley diameter [mm]	Approx. weight [kg/m]
8*)	8	5	63	0.046
Z / 10	10	6	80	0.061
A / 13	13	8	100	0.120
B / 17	17	11	140	0.182
C / 22	22	14	224	0.311
D / 32*)	32	19	355	0.597

*) On request.
Available in coils of 50 m each.

APPLICATION

Connector V-belts are used for drives where installation of endless V-belts is difficult, or as replacement of endless V-belts where immediate replacement is essential in order to reduce down time.
Rocon is also used for conveyor systems.

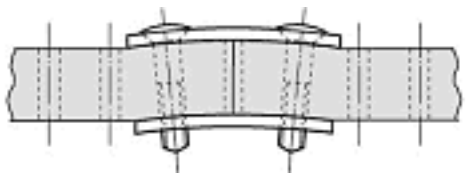
STANDARDS

ROCON connector V-belts:
DIN 2216

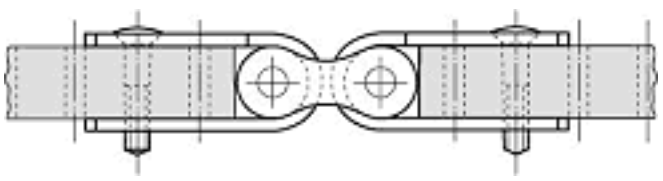
Pulleys:
DIN 2217/1

CONNECTOR TYPES

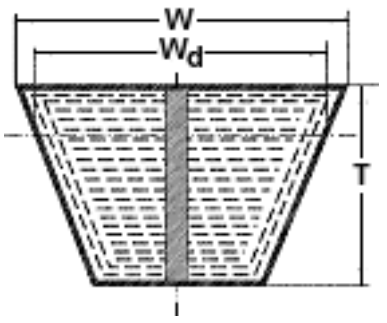
Plate type



Link type



SECTION



PROGRAMME 40

ROFLEX-VARI VARIABLE SPEED BELTS - INDUSTRY

PRODUCT DESCRIPTION

ROFLEX-VARI 403 variable speed V-belts, also termed V/S-belts, are temperature and oil resistant as well as antistatic. A special rubber compound with textile fibres oriented across the length of the belt provides high stability and minimizes deflection in the cross section. The moulded cog ensures maximum flexibility and optimum fit in the pulley grooves.
The cord, the power transmitting element, has been designed for heavy power transmission while at the same time ensuring a very high degree of length stability.

Special belts are produced to order, e.g. with Kevlar cord or in a moulded double-cog version.

PROGRAMME / PRODUCT RANGE

According to ISO 1604, DIN 7719/1, RMA/MPTA IP-25 or customer specifications; available within the following dimensional ranges:

Top width:	**13 - 100 mm**
Height:	**5 - 32 mm**
Belt angle:	**20°- 42° with 2° interval**
Outside length:	**500 - 5000 mm**

APPLICATION

ROFLEX-VARI 403 variable speed V-belts have been specially designed for infinitely variable gears for industrial machinery. The belt runs vibrationlessly and ensures effective control of speed ratios and long life.
Variable speed V-belts are used in open or closed gear types.

ROULUNDS is the leading European supplier of original equipment variable speed V-belts for variable gears.

STANDARDS

ROFLEX-VARI industrial belts:
ISO 1604, DIN 7719/1, RMA/MPTA IP-25

STANDARD SECTIONS

STANDARD SECTION DIMENSIONS - ROFLEX-VARI INDUSTRY

ROFLEX-VARI 403 is supplied according to the following standards:

ISO 1604, DIN 7719/1, section dimensions in mm.

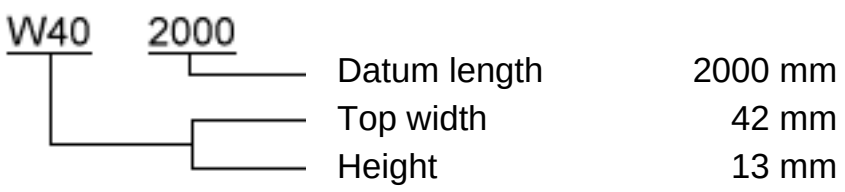
Designation		W16	W20	W25	W31,5	W40	W50	W63	W71*)	W80	W100
Top width	$W_{\sim}$	17	21	26	33	42	52	65	74	83	R104
Pitch width	W_p	16	20	25	31.5	40	50	63	71	80	100
Height	$T_{\sim}$	6	7	8	10	13	16	20	23	26	32

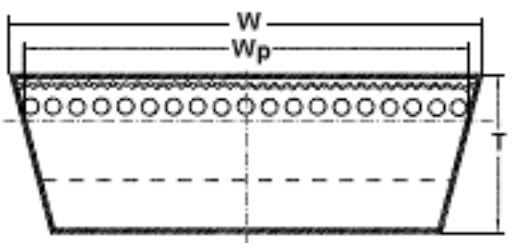
*) In DIN 7719 only

ISO 1604 uses datum belt length L_d [mm] which corresponds to pitch belt length L_p [mm].

DIN 7719/1 uses Richtlänge L_r [mm], which corresponds to datum belt length L_d [mm].

Belt designation:

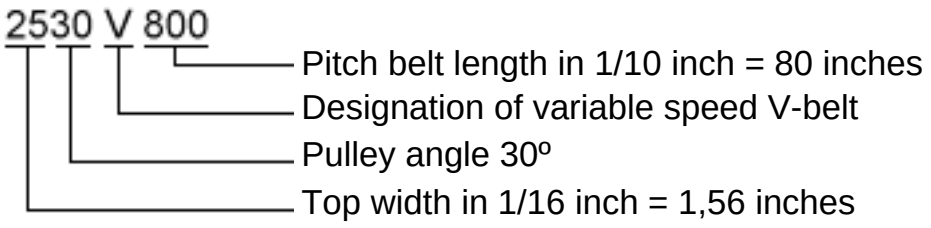


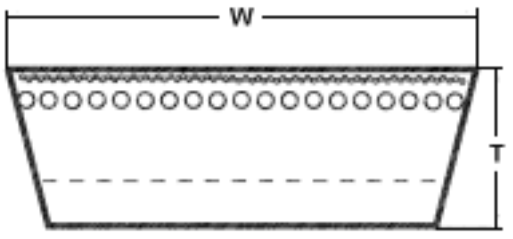


RMA/MPTA IP-25, section dimensions in inches.

Desig-nation		1422V	1922V	2322V	1926V	2926V	3226V	2530V	3230V	4430V	4036V	4436V	4836V
Top-width	$W_{\sim}$	0.88	1.19	1.44	1.19	1.81	2.00	1.56	2.00	2.75	2.50	2.75	3.00
Height	$T_{\sim}$	0.31	0.38	0.44	0.44	0.50	0.53	0.59	0.62	0.69	0.69	0.72	0.75

Belt designation





RMA/MPTA IP-25, section dimensions in mm.

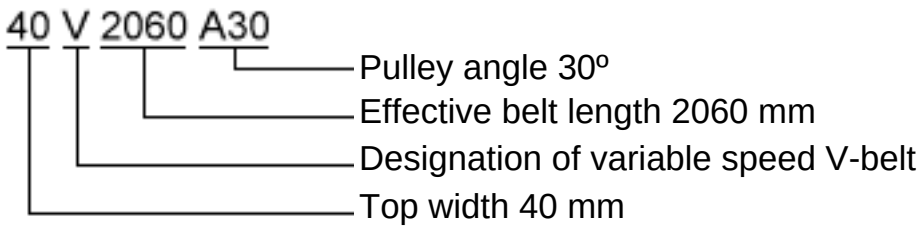
SEE NEXT PAGE

STANDARD SECTION DIMENSIONS - ROFLEX-VARI INDUSTRY

RMA/MPTA IP-25, section dimensions in mm.

Desig-nation		22V A22	30V A22	37V A22	30V A26	46V A26	51V A26	40V A30	51V A30	70V A30	64V A36	70V A36	76V A36
Top-width	W ~	22	30	37	30	46	51	40	51	70	64	70	76
Height	T ~	8	10	11	11	13	13	15	16	18	18	18	19

Belt designation:



Calculation of belt length:

Outside belt length	≃	Datum / pitch length + belt height x 1.57
Pitch/datum belt length	≃	Outside length - belt height x 1.57
Inside belt length	≃	Outside length - belt height x 6.283
Effective belt length	≃	Outside belt length
Belt angle	≃	Pulley angle + 2º as a guideline.

Section 13 x 6		Section 17 x 6		Section 22 x 8		Section 24 x 8	
Length Inside [mm]	ROULUNDS No.	Length Inside [mm]	ROULUNDS No.	Length Inside [mm]	ROULUNDS No.	Length Inside [mm]	ROULUNDS No.
402	*13H0440B* Δ	*452*	*17H0490B* Δ	485	22H0535D	*965*	*24H1015D* Δ
467	13H0505B	*502*	*17H0540B* Δ	*500*	*22H0550D* Δ	*1145*	*24H1195D* Δ
477	13H0515B	*552*	*17H0590B* Δ	525	22H0575D	*1165*	*24H1215D* Δ
502	*13H0540B* Δ	570	17H0608B	550	22H0600D	*1525*	*24H1575D* Δ
527	*13H0565B* Δ	602	17H0640B	575	22H0625D	*1725*	*24H1775D* Δ
552	*13H0590B* Δ	652	17H0690B	*600*	*22H0650D*		
1252	*13H1290B* Δ	702	17H0740B	*610*	*22H0660D*		
		752	*17H0790B* Δ	625	22H0675D Δ		
		802	17H0840B	650	22H0700D		
		852	*17H0890B* Δ	675	22H0725D		
		1002	*17H1040B* Δ	700	22H0750D		
		1052	*17H1090B* Δ	725	22H0775D		
		1152	17H1190B	750	22H0800D		
		1202	17H1240B	*775*	*22H0825D* Δ		
				800	22H0850D		
				850	22H0900D		
				900	22H0950D		
				950	22H1000D		
				1000	22H1050D		
				1060	22H1110D		
				1120	22H1170D		
				1180	22H1230D		
				1225	*22H1275D* Δ		
				1250	22H1300D		
				1320	22H1370D		
				1400	22H1450D		
				1500	*22H1550D* Δ		

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Section 25 x 8 | Section 26 x 8 | Section 27 x 8 | Section 28 x 8 | See next page

Section 25 x 8		Section 26 x 8		Section 27 x 8		Section 28 x 8	
Length Inside [mm]	ROULUNDS No.	Length Inside [mm]	ROULUNDS No.	Length Inside [mm]	ROULUNDS No.	Length Inside [mm]	ROULUNDS No.
630	*25H0680D* Δ	*655*	*26H0705D* Δ	*705*	*27H0755D* Δ	530	28H0580D
655	25H0705D	*710*	*26H0760D* Δ	*805*	*27H0855D* Δ	*575*	*28H0625D* Δ
710	25H0760D	750	26H0800D	*855*	*27H0905D* Δ	*605*	*28H0655D* Δ
750	25H0800D	762	26H0812D	*905*	*27H0955D* Δ	*630*	*28H0680D* Δ
800	*25H0850D* Δ	*800*	*26H0850D* Δ	*1005*	*27H1055D* Δ	650	28H0700D
		850	*26H0900D* Δ	*1255*	*27H1305D* Δ	700	28H0750D
		862	*26H0912D* Δ	*1405*	*27H1455D* Δ	750	28H0800D
		900	*26H0950D* Δ	*1505*	*27H1555D* Δ	805	28H0855D
		962	*26H1012D* Δ	*1805*	*27H1855D* Δ	850	28H0900D
		1082	26H1132D			900	28H0950D
						950	28H1000D
						1000	28H1050D
						1060	28H1110D
						1120	28H1170D
						1185	28H1235D
						1255	28H1305D
						1305	28H1355D
						1320	28H1370D
						1400	28H1450D
						1500	28H1550D
						1605	28H1655D
						1705	28H1755D
						1805	28H1855D
						2005	*28H2055D* Δ

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Section 28 x 12 | Section 30 x 10 | Section 32 x 10 | Section 33 x 10 | See next page

Section 28 x 12		Section 30 x 10		Section 32 x 10		Section 33 x 10	
Length Inside [mm]	ROULUNDS No.	Length Inside [mm]	ROULUNDS No.	Length Inside [mm]	ROULUNDS No.	Length Inside [mm]	ROULUNDS No.
1055	28H1105H	650	30H0713F	*709*	*32H0772F* Δ	853	33H0916F
		800	30H0863F	750	32H0813F	953	33H1016F
		900	*30H0963F* Δ	790	32H0853F		
		1000	*30H1063F* Δ	*820*	*32H0883F* Δ		
		1178	*30H1241F* Δ	850	32H0913F		
		1200	*30H1263F* Δ	900	32H0963F		
		1320	*30H1383F* Δ	950	32H1013F		
				1000	32H1063F		
				1250	*32H1313F* Δ		
				1400	*32H1463F* Δ		
				1500	*32H1563F* Δ		

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Section 37 x 10 | Section 40 x 12 | Section 42 x 12 | Section 47 x 12 | See next page

Section 37 x 10		Section 40 x 12		Section 42 x 12		Section 47 x 12	
Length Inside [mm]	ROULUNDS No.	Length Inside [mm]	ROULUNDS No.	Length Inside [mm]	ROULUNDS No.	Length Inside [mm]	ROULUNDS No.
647	37J0710F	925	40J1000H	*900*	*42J0975H* Δ	855	47J0930H
697	*37J0760F* Δ	1000	40J1075H	*1000*	*42J1075H* Δ	905	47J0980H
747	37J0810F			1064	42J1139H	*955*	*47J1030H* Δ
797	37J0860F			*1120*	*42J1195H* Δ	1005	47J1080H
847	37J0910F			1194	42J1269H	*1035*	*47J1110H* Δ
897	37J0960F			*1250*	*42J1325H* Δ	1065	47J1140H
900	*37J0963F* Δ			1344	42J1419H	1125	47J1200H
947	37J1010F			*1400*	*42J1475H* Δ	*1150*	*47J1225H* Δ
997	37J1060F			*1544*	*42J1619H* Δ	1185	47J1260H
1057	37J1120F					*1200*	*47J1275H* Δ
1117	37J1180F					1255	47J1330H
1177	37J1240F					1325	47J1400H
1247	37J1310F					1405	47J1480H
1317	37J1380F					*1440*	*47J1515H* Δ
1397	37J1460F					*1480*	*47J1555H* Δ
1497	37J1560F					1505	47J1580H
1597	37J1660F					1605	47J1680H
1697	37J1760F					*1645*	*47J1720H* Δ
1797	37J1860F					1705	47J1780H
1997	37J2060F					1805	47J1880H
						1905	*47J1980H* Δ
						2005	47J2080H
						2215	47J2290H
						2245	47J2320H
						2505	*47J2580H* Δ
						2805	47J2880H

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Section 50 x 14 **Section 52 x 16** **Section 55 x 16** **Section 65 x 20** **See next page**

Section 50 x 14		Section 52 x 16		Section 55 x 16		Section 65 x 20	
Length Inside [mm]	ROULUNDS No.	Length Inside [mm]	ROULUNDS No.	Length Inside [mm]	ROULUNDS No.	Length Inside [mm]	ROULUNDS No.
1450	*50J1538K* Δ	1180	52J1280M	1150	55J1250M	1706	65K1832S
		1250	52J1350M	1180	55J1280M		
		1325	52J1425M	1250	55J1350M		
		1400	52J1500M	*1286*	*55J1386M* Δ		
		1525	52J1625M	1320	55J1420M		
		1600	*52J1700M* Δ	1400	55J1500M		
		1725	52J1825M	1500	55J1600M		
		2165	52J2265M	1600	55J1700M		
		3075	*52J3175M* Δ	1700	55J1800M		
				1800	55J1900M		
				2000	55J2100M		
				2120	55J2220M		
				2240	55J2340M		
				2500	55J2600M		

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Section 70 x 18 **Section 70 x 20** **Section 83 x 23** **See next page**

Section 70 x 18		Section 70 x 20		Section 83 x 23		
Length Inside [mm]	ROULUNDS No.	Length Inside [mm]	ROULUNDS No.	Length Inside [mm]	ROULUNDS No.	
1397	*70K1510P* Δ	1444	70K1570S	1692	83L1836V	
1597	70K1710P	*1699*	*70K1825S* Δ	*1756*	*83L1900V* Δ	
1697	70K1810P	*2239*	*70K2365S* Δ	1892	83L2036V	
1797	*70K1910P* Δ	*2799*	*70K2925S* Δ			
1997	70K2110P					
2237	70K2350P					
2497	70K2610P					
2797	70K2910P					
3147	*70K3260P* Δ					

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

PROGRAMME 41

ROFLEX-VARI VARIABLE SPEED V-BELTS - AGRICULTURE

PRODUCT DESCRIPTION

ROFLEX-VARI 401 variable speed V-belts are temperature and oil resistant. The cord, the power transmitting element, has been designed for heavy power transmission while at the same time ensuring a very high degree of length stability. A special rubber compound with textile fibres oriented across the length of the belt provides high stability and minimizes deflection in the transverse direction. The moulded cog ensures maximum flexibility and optimum fit in the pulley grooves.

ROFLEX-VARI 404 is a reinforced version of 401. For example, the cord has been replaced by Kevlar cord which ensures better power transmission and a higher ultimate tensile strength.

PROGRAMME / PRODUCT RANGE

According to ISO 3410 and ASAE S 211.4 or according to customer specifications; available within the following dimensional ranges:

Top width:	**16 - 100 mm**
Height:	**8 - 25 mm**
Belt angle:	**20°- 42° with 2° interval**
Outside length:	**600 - 5000 mm**

APPLICATION

ROFLEX-VARI 401 has been specially designed for the various infinitely variable transmissions of the combine harvesters.
The belt has been designed to absorb shock loads and large lateral pressures. It serves as a coupling belt in the event of blockings, yet the adapted friction level means that the belt pulls better through and causes fewer blockings.

ROFLEX-VARI 404 is recommended for cylinder drives where the demand for power transmission is particularly pronounced.

STANDARDS

ROFLEX-VARI variable speed V-belts:
ISO 3410, ASAE S 211.4

STANDARD SECTIONS

STANDARD SECTION DIMENSIONS - ROFLEX-VARI AGRICULTURE

ROFLEX-VARI 401 and 404 are supplied according to the ISO and ASAE standards:

ISO 3410, section dimensions in mm.

Designation		HG*)	HH*)	HI	HJ	HK	HL	HM	MN	HO
Top width	W ~	16.5	20.4	25.4	31.8	38.1	44.5	50.8	57.2	63.5
Height	T ~	8	10	12.7	15.1	17.5	19.8	22.2	23.9	25.4

*) On request only

ISO 3410 uses datum belt length L_d [mm] which corresponds to pitch belt length L_p [mm].

Belt designation:

HM 2800
- Datum length 2800 mm
- Section 50.8 x 22.2 mm

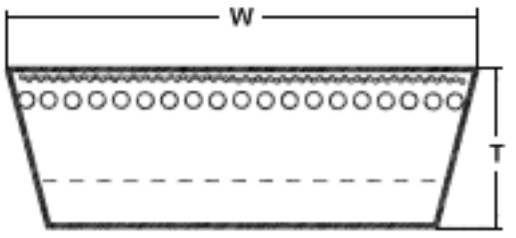
ASAE S 211.4*), section dimensions in inches.

Designation		HI	HJ	HK	HL	HM	HN	HO
Top width	W ~	1.00	1.25	1.50	1.75	2.00	2.25	2.50
Height	T ~	0.50	0.59	0.69	0.78	0.88	0.94	1.00
Length reduction **)		0.94	1.16	1.41	1.63	1.88	2.14	2.36

*) ASAE specifies effective belt length L_e in inches.

Belt designation:

HM 80
- Effective belt length 80 inches
- Section 2.00 x 0.88 inch



**) Conversion into datum belt length L_d with the above-mentioned reducion.

Example: HM 80. Effective belt length 80 inches, datum belt length $L_d \sim$ 80 - 1.88 $\simeq$ 78.12"

ASAE S 211.4, section dimensions in mm.

SEE NEXT PAGE

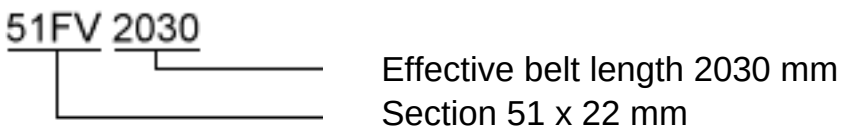
STANDARD SECTION DIMENSIONS - ROFLEX-VARI AGRICULTURE

ASAE S 211.4*), section dimensions in mm.

Designation		25 FV	32 FV	38 FV	44 FV	51 FV	57 FV	63 FV
Top width	W ~	25	32	38	44	51	57	63
Height	T ~	13	15	18	20	22	24	26
Length reduction **)		24	30	36	41	48	54	60

*) ASAE specifies effective belt length Le in mm.

Belt designation:



**) Conversion into datum belt length Ld with the above-mentioned reduction.

Example: 51FV 2030. Effective belt length 2030 mm, datum belt length Ld ~ 2030 - 48 ≃ 1982 mm.

Calculation of belt length:

Outside belt length	≃	Datum + belt height x 2.094
Pitch/datum belt length	≃	Outside length - belt height x 2.094
Inside datum belt length	≃	Outside length - belt height x 6,283
Effective outside belt length	≃	Outside belt length
Belt angle	≃	Pulley angle + 2º as a guideline.

Type 401 STANDARD							
Section 25 x 13		**Section 28 x 13**		**Section 30 x 12**		**Section 32 x 15**	
Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.
1184	*25J1184J* Δ	*1180*	*28N1180J* Δ	*1020*	*30J1020H* Δ	*1130*	*32J1130L* Δ
		2430	*28N2430J* Δ	*1025*	*30J1025H* Δ	*1225*	*32J1225L* Δ
				1582	*30J1582H* Δ	*1320*	*32J1320L* Δ
				1610	*30J1610H* Δ	*1450*	*32J1450L* Δ
				1762	*30J1762H* Δ	*1480*	*32J1480L* Δ
						1615	*32J1615L* Δ
						2575	*32J2575L* Δ
						3160	*32J3160L* Δ
						4420	*32P4420L* Δ

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Section 32 x 19 | **Section 38 x 17** | **Section 40 x 12** | **Section 40 x 13** | **See next page**

Type 401 STANDARD							
Section 32 x 19		**Section 38 x 17**		**Section 40 x 12**		**Section 40 x 13**	
Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.
1700	*32J1700R* Δ	*1816*	*38J1816N* Δ	*1435*	*40J1435H* Δ	*920*	*40J0920J* Δ
		2594	*38J2594N* Δ				
		2960	*38J2960N* Δ				

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Section 40 x 17 | **Section 43 x 19** | **Section 45 x 19** | **Section 45 x 20** | **See next page**

Type 401 STANDARD							
Section 40 x 17		**Section 43 x 19**		**Section 45 x 19**		**Section 45 x 20**	
Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.
1860	*40N1860N* Δ	*2600*	*43J2600R* Δ	*1715*	*45J1715R* Δ	*2085*	*45J2085S* Δ
				1751	*45J1751R* Δ	*2108*	*45J2108S* Δ
				1926	*45J1926R* Δ		
				1984	*45J1984R* Δ		
				2145	*45J2145R* Δ		
				2222	*45J2222R* Δ		
				2326	*45J2326R* Δ		
				2418	*45J2418R* Δ		
				2470	*45J2470R* Δ		
				2552	*45J2552R* Δ		
				2584	*45J2584R* Δ		
				2693	*45J2693R* Δ		
				2830	*45J2830R* Δ		
				2875	*45J2875R* Δ		
				3014	*45J3014R* Δ		
				3165	*45J3165R* Δ		
				3202	*45J3202R* Δ		
				3226	*45J3226R* Δ		
				3283	*45J3283R* Δ		
				3430	*45J3430R* Δ		
				3520	*45J3520R* Δ		

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Section 45 x 23 **Section 50 x 20** **Section 51 x 21** **Section 51 x 22** **See next page**

Type 401 STANDARD							
Section 45 x 23		**Section 50 x 20**		**Section 51 x 21**		**Section 51 x 22**	
Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.
3226	*45J3226V* Δ	*2100*	*50J2100S* Δ	*2100*	*51J2100T* Δ	*2121*	*51J2121U* Δ
				2175	*51J2175T* Δ		
				2272	*51J2272T* Δ		
				2523	*51J2523T* Δ		
				3319	*51J3319T* Δ		
				3900	*51J3900T* Δ		

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Section 51 x 23 **Section 55 x 23** **SPECIAL BELTS** **See next page**

PROGRAMME 41

STANDARD PROGRAMME - ROFLEX-VARI AGRICULTURE

Type 401 STANDARD				Type 404 SPECIAL
Section 51 x 23		Section 55 x 23		
Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.	
1930	*51J1930V* ▲	*1900*	*55J1900V* ▲	

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Type 404 SPECIAL							
Section 25 x 13		**Section 30 x 13**		**Section 30 x 15**		**Section 32 x 15**	
Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.
1174	*25J1174J* Δ	*1025*	*30J1025J* Δ	*1695*	*30J1695L* Δ	*1280*	*32J1280L* Δ
				1780	*30J1780L* Δ	*1800*	*32J1800L* Δ
						3030	*32J3030L* Δ

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Section 32 x 17 **Section 38 x 17** **Section 45 x 19** **Section 45 x 20** **See next page**

Type 404 SPECIAL							
Section 32 x 17		**Section 38 x 17**		**Section 45 x 19**		**Section 45 x 20**	
Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.
1930	*32J1930N* Δ	*3157*	*38J3157N* Δ	*3283*	*45J3283R* Δ	*1984*	*45J1984S* Δ
						2085	*45J2085S* Δ
						2215	*45J2215S* Δ
						2220	*45J2220S* Δ
						2326	*45J2326S* Δ
						3078	*45J3078S* Δ
						3226	*45J3226S* Δ
						3490	*45J3490S* Δ
						3520	*45J3520S* Δ

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Section 50 x 20 | **Section 50 x 22** | **Section 51 x 21** | **Section 51 x 22** | **See next page**

Type 404 SPECIAL							
Section 50 x 20		**Section 50 x 22**		**Section 51 x 21**		**Section 51 x 22**	
Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.
2100	*50J2100S* Δ	*2270*	*50J2270U* Δ	*3160*	*51J3160T* Δ	*1815*	*51N1815U* Δ
						1930	*51J1930U* Δ
						2100	*51J2100U* Δ
						2121	*51J2121U* Δ
						2175	*51J2175U* Δ
						2360	*51J2360U* Δ

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Section 51 x 25 | **Section 55 x 22** | **Section 55 x 25** | **Section 56 x 25** | **See next page**

Type 404 SPECIAL							
Section 51 x 25		**Section 55 x 22**		**Section 55 x 25**		**Section 56 x 25**	
Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.
2400	*51J2400X* ▲	*2159*	*55J2159U* ▲	*2227*	*55J2227X* ▲	*2470*	*56J2470X* ▲
2910	*51J2910X* ▲						

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

Section 60 x 19 **Section 60 x 25** **Section 62 x 25** **See next page**

Type 404 SPECIAL							
Section 60 x 19		**Section 60 x 25**		**Section 62 x 25**			
Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.	Length outside [mm]	ROULUNDS No.		
2175	*60J2175R* Δ	*2155* *2170* *2380* *2420*	*60J2155X* Δ *60J2170X* Δ *60J2380X* Δ *60J2420X* Δ	*2220*	*62J2220X* Δ		

Belt numbers in plain writing are standard belts which are normaly stocked.
Belt numbers in italic writing and marked with a triangle are standard belts which are normaly NOT stocked.

PROGRAMME 33

PRODUCT DESCRIPTION

The ROFLEX Multi-rib belt, also termed v-ribbed belt, with the characteristic V-ribs is resistant to oil and temperature stresses, and it is antistatic. The V-profiles of the belt are in a special rubber compound with direction-oriented fibres that provide very high stability.

APPLICATION

ROFLEX Multi-rib belts can replace several traditional belts and reduce operating costs considerably. ROFLEX Multi-rib belts also distinguish themselves by their light and vibration-free operation and long life. The low cross section of the Multi-rib belt makes it very flexible and permits it to be used in serpentine drives.

STANDARDS

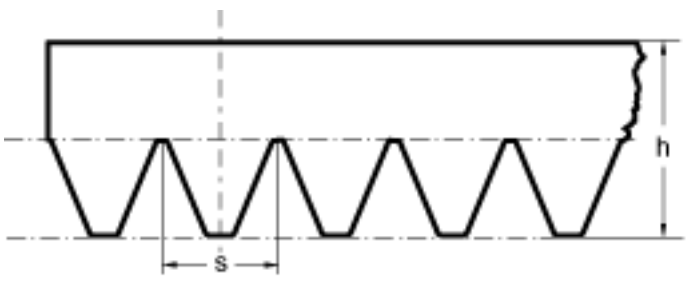
ROFLEX Multi-rib belt:
DIN 7867, ASAE S 211.4, ISO 9982 and RMA/MPTA IP-26

Pulleys:
DIN 7867, ASEA S 221.4, ISO 9982 and RMA/MPTA IP-26

PROGRAMME
Sections H/PH, J/PJ, L/PL, M/PM.

Standard sections

Section designation		**PH**	**PJ**	**PK**	**PL**	**PM**
Rib spacing	s [mm]	1.60	2.34	3.56	4.70	9.40
Belt height	h [mm] ~	3	4	6	10	17
Minimum pulley diameter	d_e [mm]	13	20	45	75	180



STANDARD PROGRAMME - ROFLEX MULTI-RIB

Section J / PJ		Section K / PK		Section L / PL	
Effective length [mm].	No. of ribs per sleeve	Effective length [mm].	No. of ribs per sleeve	Effective length [mm].	No. of ribs per sleeve
660	199	2083	199	1030	129	954	95
686	199	2210	199	1098	129	991	95
711	199	2286	199	1130	129	1041	95
723	199	2337	199	1173	129	1075	95
737	199	2489	199	1205	129	1150	95
762	199	2760	199	1251	129	1194	95
782	199	2870	199	1473	129	1219	95
813	199			1650	129	1270	95
838	199			1860	129	1295	95
864	199			2080	129	1334	95
895	199					1372	95
914	199					1397	95
958	199					1422	95
965	199					1435	95
1016	199					1562	95
1040	199					1613	95
1059	199					1651	95
1065	199					1664	95
1092	199					1715	95
1168	199					1765	95
1180	199					1803	95
1194	199					1842	95
1200	199					1943	95
1219	199					1956	95
1220	199					1981	95
1244	199					2019	95
1270	199					2070	95
1280	199					2096	95
1287	199					2134	95
1321	199					2197	95
1372	199					2235	95
1397	199					2324	95
1428	199					2362	95
1473	199					2477	95
1550	199					2515	95
1626	199					2705	95
1651	199					2743	95
1661	199					2845	95
1753	199						
1854	199						
1930	199						
1956	199						
1981	199						
1992	199						
2019	199						

PROGRAMME 34

RO-DRIVE TIMING BELTS

RO-DRIVE belts provide technically superior operation in various synchronous drives - from typewriters to heavy industrial machinery.

STANDARDS

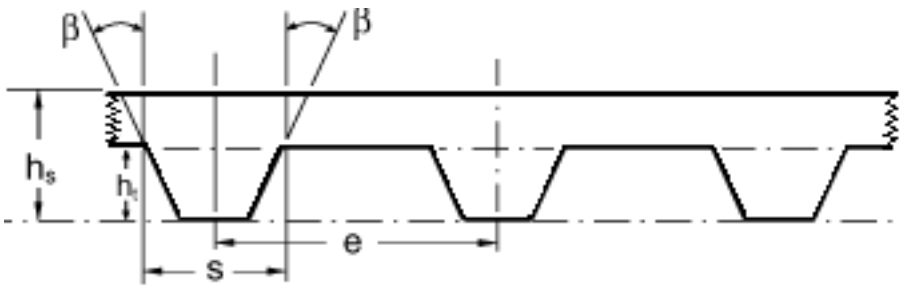
RO-DRIVE belts:
ISO 5296-1 and -2, ANSI/RMA IP-24.

PROGRAMME

The standard sections MXL, XL, L, H, XH, XXH and the HTD sections 3M, 5M, 8M and 14M.

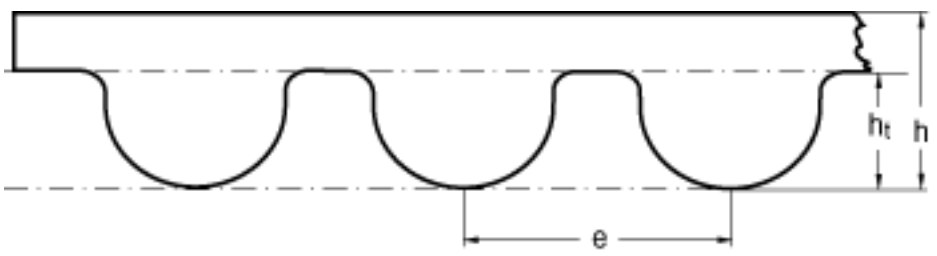
Standard sections

Section designation		MXL	XXL	XL	L	H	XH	XXH
Circular pitch	e [mm]	2.032	3.175	5.080	9.525	12.700	22.225	31.750
Tooth width	s [mm]	1.14	1.73	2.57	4.65	6.12	12.57	19.05
Tooth height	h_t [mm]	0.51	0.76	1.27	1.91	2.29	6.35	9.53
Tooth angle	2ß [º]	40	50	50	40	40	40	40
Belt height	h_S [mm] ~	1.14	1.52	2.3	3.6	4.3	11.2	15.7



HPPD sections

Section designation		3M	5M	8M	14M	20M
Circular pitch	e [mm]	3.0	5.0	8.0	14.0	20.0
Tooth height	h_t [mm]	1.2	2.1	3.4	6.1	8.4
Belt height	h [mm] ~	2.4	3.8	5.6	10.0	13.2



DRIVE BELT DESIGN

PROGRAMME 34

STANDARD PROGRAMME - RO-DRIVE

OTHER SECTIONS

Section MXL					Section XL				
Belt No.	No. of teeth	Pitch length [inch]	Pitch length [mm]	Sleeve width [mm]	Belt No.	No. of teeth	Pitch length [inch]	Pitch length [mm]	Sleeve width [mm]
432 MXL	54	4.32	109.73	1200	54 XL	27	5.40	137.16	1200
440 MXL	55	4.40	111.76	1200	60 XL	30	6.00	152.40	1200
480 MXL	60	4.80	121.92	1200	70 XL	35	7.00	177.80	1200
488 MXL	61	4.88	123.95	1200	80 XL	40	8.00	203.20	1200
536 MXL	67	5.36	136.14	1200	90 XL	45	9.00	228.60	1200
544 MXL	68	5.44	138.18	1200	98 XL	49	9.80	248.92	1200
576 MXL	72	5.76	146.30	1200	100 XL	50	10.00	254.00	1200
584 MXL	73	5.84	148.34	1200	102 XL	51	10.20	259.08	1200
640 MXL	80	6.40	162.56	1200	106 XL	53	10.60	269.24	1200
704 MXL	88	7.04	178.82	1200	110 XL	55	11.00	279.40	1200
720 MXL	90	7.20	182.88	1200	120 XL	60	12.00	304.80	1200
776 MXL	97	7.76	197.10	1200	130 XL	65	13.00	330.20	1200
800 MXL	100	8.00	203.20	1200	140 XL	70	14.00	355.60	1200
824 MXL	103	8.24	209.30	1200	150 XL	75	15.00	381.00	1200
840 MXL	105	8.40	213.36	1200	160 XL	80	16.00	406.40	1200
880 MXL	110	8.80	223.52	1200	170 XL	85	17.00	431.80	1200
912 MXL	114	9.12	231.65	1200	180 XL	90	18.00	457.20	1200
944 MXL	118	9.44	239.78	1200	182 XL	91	18.20	462.28	1200
960 MXL	120	9.60	243.84	1200	190 XL	95	19.00	482.60	1200
976 MXL	122	9.76	247.90	1200	200 XL	100	20.00	508.00	1200
984 MXL	123	9.84	249.94	1200	202 XL	101	20.20	513.08	1200
1056 MXL	132	10.56	268.22	1200	210 XL	105	21.00	533.40	1200
1120 MXL	140	11.20	284.48	1200	214 XL	107	21.40	543.56	1200
1200 MXL	150	12.00	304.80	1200	220 XL	110	22.00	558.80	1200
1280 MXL	160	12.80	325.12	1200	228 XL	114	22.80	579.12	1200
1400 MXL	175	14.00	355.60	1200	230 XL	115	23.00	584.20	1200
1472 MXL	184	14.72	373.89	1200	234 XL	117	23.40	594.36	1200
1680 MXL	210	16.80	426.72	1200	240 XL	120	24.00	609.60	1200
1888 MXL	236	18.88	479.55	1200	250 XL	125	25.00	635.00	1200
1922 MXL	249	19.92	505.97	1200	260 XL	130	26.00	660.40	1200
2048 MXL	256	20.48	520.19	1200	270 XL	135	27.00	685.80	1200
					290 XL	145	29.00	736.60	1200
					310 XL	155	31.00	787.40	1200
					316 XL	158	31.60	802.64	1200
					330 XL	165	33.00	838.20	1200
					352 XL	176	35.20	894.08	1200
					384 XL	192	38.40	975.36	1200
					390 XL	195	39.00	990.60	1200
					392 XL	196	39.20	995.68	1200

Section L
Section H
See next page

PROGRAMME 34

Section L					Section H				
Belt No.	No. of teeth	Pitch length [inch]	Pitch length [mm]	Sleeve width [mm]	Belt No.	No. of teeth	Pitch length [inch]	Pitch length [mm]	Sleeve width [mm]
124 L	33	12.38	314.33	1650	225 H	45	22.50	571.50	1200
135 L	36	13.50	342.90	1650	240 H	48	24.00	609.60	1200
150 L	40	15.00	381.00	1650	270 H	54	27.00	685.80	1200
187 L	50	18.75	476.25	1200	300 H	60	30.00	762.00	1200
210 L	56	21.00	533.40	1200	330 H	66	33.00	838.20	1200
225 L	60	22.50	571.50	1200	360 H	72	36.00	914.40	1200
240 L	64	24.00	609.60	1200	390 H	78	39.00	990.60	1200
255 L	68	25.50	647.70	1200	420 H	84	42.00	1066.80	1200
270 L	72	27.00	685.80	1200	450 H	90	45.00	1143.00	1200
285 L	76	28.50	723.90	1200	480 H	96	48.00	1219.20	1200
300 L	80	30.00	762.00	1200	510 H	102	51.00	1295.40	1200
322 L	86	32.25	819.15	1200	540 H	108	54.00	1371.60	1200
345 L	92	34.50	876.30	1200	570 H	114	57.00	1447.80	1200
367 L	98	36.75	933.45	1200	600 H	120	60.00	1524.00	1200
390 L	104	39.00	990.60	1200	630 H	126	63.00	1600.20	1200
405 L	108	40.50	1028.70	1200	660 H	132	66.00	1676.40	1200
420 L	112	42.00	1066.80	1200	700 H	140	70.00	1778.00	1200
450 L	120	45.00	1143.00	1200	725 H	145	72.50	1841.50	1200
480 L	128	48.00	1219.20	1200	750 H	150	75.00	1905.00	1200
510 L	136	51.00	1295.40	1200	800 H	160	80.00	2032.00	1200
540 L	144	54.00	1371.60	1200	850 H	170	85.00	2159.00	1200
600 L	160	60.00	1524.00	1200	900 H	180	90.00	2286.00	1200
660 L	176	66.00	1676.40	1200	1000 H	200	100.00	2540.00	1200
					1100 H	220	110.00	2794.00	1200
					1250 H	250	125.00	3175.00	1200
					1400 H	280	140.00	3556.00	1200
					1700 H	340	170.00	4318.00	1200

Section XH
Section XXH
See next page

PROGRAMME 34

STANDARD PROGRAMME - RO-DRIVE

OTHER SECTIONS

Section XH					Section XXH				
Belt No.	No. of teeth	Pitch length [inch]	Pitch length [mm]	Sleeve width [mm]	Belt No.	No. of teeth	Pitch length [inch]	Pitch length [mm]	Sleeve width [mm]
507 XH	58	50.75	1289.05	1200	700 XXH	56	70.00	1778.00	1200
560 XH	64	56.00	1422.40	1200	800 XXH	64	80.00	2032.00	1200
630 XH	72	63.00	1600.20	1200	900 XXH	72	90.00	2286.00	1200
700 XH	80	70.00	1778.00	1200	1200 XXH	96	120.00	3048.00	1200
770 XH	88	77.00	1955.80	1200					
840 XH	96	84.00	2133.60	1200					
980 XH	112	98.00	2489.20	1200					
1120 XH	128	112.00	2844.80	1200					
1750 XH	140	122.50	3111.50	1200					
1260 XH	144	126.00	3200.40	1200					
1400 XH	160	140.00	3556.00	1200					
1540 XH	176	154.00	3911.60	1200					

Section 5M
Section 8M
See next page

PROGRAMME 34

STANDARD PROGRAMME - RO-DRIVE

OTHER SECTIONS

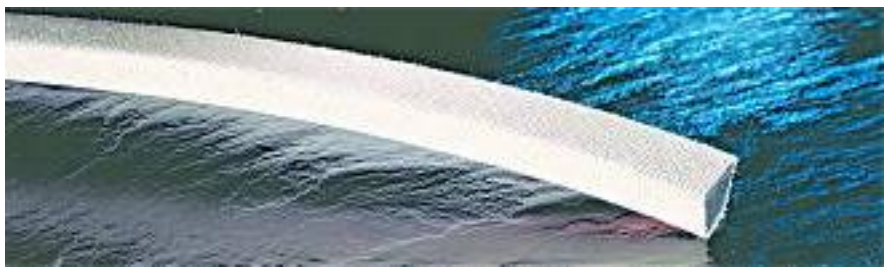
Section 5M				Section 8M			
Belt No.	No. of teeth	Pitch length [mm]	Sleeve width [mm]	Belt No.	No. of teeth	Pitch length [mm]	Sleeve width [mm]
350 5M	70	350.00	660	480 8M	60	480.00	660
375 5M	75	375.00	660	560 8M	70	560.00	660
400 5M	80	400.00	660	600 8M	75	600.00	660
425 5M	85	425.00	660	640 8M	80	640.00	660
450 5M	90	450.00	660	720 8M	90	720.00	660
475 5M	95	475.00	660	800 8M	100	800.00	660
500 5M	100	500.00	660	880 8M	110	880.00	660
535 5M	107	535.00	660	960 8M	120	960.00	660
565 5M	113	565.00	660	1040 8M	130	1040.00	660
600 5M	120	600.00	660	1120 8M	140	1120.00	660
635 5M	127	635.00	660	1200 8M	150	1200.00	660
670 5M	134	670.00	660	1280 8M	160	1280.00	660
710 5M	142	710.00	660	1440 8M	180	1440.00	660
740 5M	148	740.00	660	1600 8M	200	1600.00	660
800 5M	160	800.00	660	1760 8M	220	1760.00	660
850 5M	170	850.00	660	1800 8M	225	1800.00	660
890 5M	178	890.00	660	2000 8M	250	2000.00	660
950 5M	190	950.00	660	2400 8M	300	2400.00	660
1000 5M	200	1000.00	660	2600 8M	325	2600.00	660
1050 5M	210	1050.00	660	2800 8M	350	2800.00	660
1125 5M	225	1125.00	660	3048 8M	381	3048.00	330
1195 5M	239	1195.00	660	3280 8M	410	3280.00	330
1270 5M	254	1270.00	660	3600 8M	450	3600.00	330
1420 5M	284	1420.00	660	4400 8M	550	4400.00	330
1595 5M	319	1595.00	660				
1690 5M	338	1690.00	660				
1790 5M	358	1790.00	660				
1895 5M	379	1895.00	660				
2000 5M	400	2000.00	660				

Section 14M
See next page

STANDARD PROGRAMME - RO-DRIVE

Section 14M

Belt No.	No. of teeth	Pitch length [mm]	Sleeve width [mm]
966 14M	69	966.00	660
1190 14M	85	1190.00	660
1400 14M	100	1400.00	660
1610 14M	115	1610.00	660
1778 14M	127	1778.00	660
1890 14M	135	1890.00	660
2100 14M	150	2100.00	660
2310 14M	165	2310.00	660
2450 14M	175	2450.00	660
2590 14M	185	2590.00	660
2800 14M	200	2800.00	660
3150 14M	225	3150.00	330
3360 14M	240	3360.00	330
3500 14M	250	3500.00	330
3850 14M	275	3850.00	330
4326 14M	309	4326.00	330
4956 14M	354	4956.00	330



ROFLEX NON-FRIC V-BELTS

PRODUCT DESCRIPTION

ROFLEX Non-Fric is a wrapped belt type without rubber on the outside. It is used for agricultural machinery, special drives in the textile and food industries and as a coupling belt where low friction between belt and pulleys is specially required in order to achieve the coupling effect.

PROGRAMME

All classical and narrow V-belt sections to order.

ROFLEX V-BELTS WITH SPECIAL TOP SURFACE

PRODUCT DESCRIPTION

ROFLEX with a special top surface of rubber is supplied in wrapped or raw-edge belt design. The special top surface is available in various patterned or plain designs to suit customer requirements.
The belt is used for light conveyance applications in the woodworking and packaging industries. Heavier versions are used for agricultural machinery such as potato, beet and carrot harvesters.

PROGRAMME

All classical and narrow V-belt sections to order.

PROGRAMME 50

PRODUCT DESCRIPTION

DANCORD flat belts are resistant to oil and temperature stresses. The belt has specially treated power transmitting cords which provide a high power transmission capability, minimum extension and great flexibility.

APPLICATION

The DANCORD endless cord belt is highly suitable for difficult drives with small pulley diameters, high belt speeds and shock loads.
On combine harvesters, it is used as a coupling belt on the main drive. It is also used as a coupling belt on fishing vessel winches, on rams, etc.

DELIVERY PROGRAMME

WIDTH		TYPE		
		M	G	H
[Inch]	[mm]	thickness 4 mm	thickness 6 mm	thickness 8 mm
1.5	38	X		
2	50	X	X	
2.5	64	X	X	
3	75	X	X	
3.5	90	X	X	
4	100	X	X	X
4.5	114	X	X	
5	125	X	X	X
5.5	140	X	X	
6	150	X	X	X
7	180		X	X
8	200		X	X
10	250		X	X
Length range [mm]		1250 - 4000	1600 - 12500	2000 - 14000

PROGRAMME 50

PRODUCT DESCRIPTION

STARKODDER - with red label and edges - is made of 33 1/3 oz cotton fabric. The weight per ply per 100 mm width is approx. 0.150 kg/m.
VIDAR - with green label and edges - is made of 28 oz cotton fabric. Weight per ply per 100 mm width is approx. 0.145 kg/m.
STARKODDER / VIDAR are available in coils or as endless belts.

APPLICATION

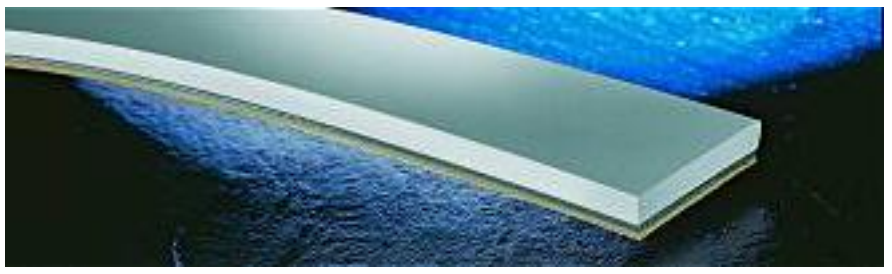
STARKODDER is a typical industrial belt, and because of its special design it has a very wide range of applications. It can be recommended for both ordinary and heavy belt drives working under difficult operating conditions.

VIDAR has a wide range of applications within agriculture and industry for ordinary belt drives and as light-duty conveyor belt.

DELIVERY PROGRAMME

Width [mm]	3 plies		4 plies		5 plies		6 plies	
	Starkodder	Vidar	Starkodder	Vidar	Starkodder	Vidar	Starkodder	Vidar
25		X		•		•		
30		•		•				
32		X	•	•				
38		X		•				
40		X	•	X				
50		X	•	X	•	•		
60		•		•		•		
63		X	•	X				
70		•		•		•		
75		X	X	X		•	•	•
80		X	•	X		•		•
90		X		X		•		•
100		X	X	X	X	•	•	•
120		•		•	•	•		
125		X	X	X	X	•	X	•
140		•	•	•	•	•	•	•
150		•	•	X	X	•	X	•
175			•		X		X	
200		X	X	X	X	•	X	•
250		•	•	•			•	•
300		•	•	•	•	•	X	
350		•		•	•	•	•	•
400		•			•		•	
450		•	•		•	•		
600		•	•	•	•	•	•	•
800		•	•		•			

X = stock programme • = normally not on stock.
Ordinary coil length 100 m. Widths up to and including 45 mm only available in coils of 50 m each. - Available in a maximum width of 1300 mm. Length tolerance for endless belts +0.75% to -0.5%.



PROGRAMME 51

ROFLEX CAPPING BELTS

PRODUCT DESCRIPTION

The ROFLEX CAPPING BELTS is a special flat belt designed for packaging machines in the canning industry.

PROGRAMME

To order.

ROULUNDS
DESIGN MANUAL

The Quality choice for any transmission

ROULUNDS DESIGN MANUAL

This manual provides information on ROULUNDS belt types as well as instructions on designing of drives with V-belts or flat belts.

In the calculation and design of a belt drive there are often several options as regards selection of belt type. This selection is decisive for the design of a belt drive that provides the optimum operation and life and ensures the lowest possible costs of establishment and maintenance.

The many belt types produced by ROULUNDS are divided into programmes, which are described briefly in the

PROGRAMME KEY

Belt types are selected by means of the information in this key. A detailed description of the selected belt type can be foundt on the programme in question in the

PRODUCT SPECIFICATIONS

In the following calculation of the drive it should be checked whether or not the selected belt type provides an optimum solution. This means that it will often be necessary to repeat the calculations with a different type of belt than the one first selected.

V-belt pulleys and lengths are now defined by means of the DATUM-system, which is subject to ISO 1081-1980. This system is described in the section on terminology.

ROULUNDS' technicians will advise on all questions concerning belt drives and suggest solutions to specific drive problems. This service also includes the belt types which are not included in the manual instructions on designing.

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Tel. (+45) 63 11 50 00, Fax (+45) 66 11 23 80

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PRODUCT FEATURES

In ROULUNDS' belt programmes the features of the standard types are characterized by the following expressions.
The design of the individual belt types is described in the section BELT CONSTRUCTIONS, page 54.

As regards nonstandard types, supplementary descriptions may be used for the special features of these specific types. That will appear from the product description in the individual programmes.

TOLERANCE STABLE TS

means that V-belts marked with the same No./dimension and TS can be applied without sorting in matching belt sets with a tolerance on the belt length according to ISO 4184, BS 3790, DIN 2215, DIN 7753/1 etc.

TOLERANCE CODE NO.
For those V-belt types which are not TS, a code No. is used which indicates the belt length relative to the nominal belt length. The difference between one code No. (e.g. 50) and the next (51) is 2 mm.
The section on installation, page 34, includes a description of how belts with a code No. should be sorted for matched belt sets.

MARKING

Example: Classical V-belts

RESISTANT TO OIL AND TEMPERATURE

OIL
A brief exposure to oil or fatty substances has no influence on the life and operation of the belts. If the drive cannot be screened off from or protected against persistent oil sprays or oil vapours, its life and operating capacity will be reduced. For this kind of operating environment we recommend selecting an extra oil resistant belt type, see the PROGRAMME KEY.

TEMPERATURE
The permissible temperature range is listed in the PROGRAMME KEY.
It generally applies that a V-belt drive operates satisfactorily within the following limits:
Wrapped V-belts -40 - +70°C
Raw-edge V-belts -35 - +90°C
However, we recommend that good air circulation be maintained in the drive under all conditions.

ANTISTATIC

means that static electricity is conducted away from the drive, provided that it is effectively earthed.
ROULUNDS belt products are antistatic as standard according to ISO - 1813, as indicated in the individual programmes and in the PROGRAMME KEY.
A certificate to that effect will be issued on request.

DESIGN OF V-BELT DRIVES

You can calculate industrial drives with ROFLEX belt types by the following procedure.

If the drives are for agricultural machinery or special drives and drives for mass production, we recommend that you contact ROULUNDS technical department which has experts ready to assist you with advice on how to achieve the optimum solution for your belt drive tasks, for example by running ROFLEX calculation programs but also on the basis of many years' practical experience.

DESIGNATIONS AND UNITS APPLIED

a	Number of pulleys in the drive	
B	Width of pulley	[mm]
B_F	Width of flat pulley	[mm]
b_d	Correction supplement to datum-diameter for V-belt pulley	[mm]
b_e	Correction reduction of effective-diameter for V-belt pulley	[mm]
C	Centre distance	[mm]
c_1	Service factor	
c_2	Belt length correction factor	
c_3	Arc of contact correction factor on smaller V-belt pulley	
c_4	Correction factor for tension idler	
c_5	Arc of contact correction factor in a V-flat drive	
D_F	Diameter of flat pulley	[mm]
D_{FD}	Calculated datum-diameter of flat pulley	[mm]
D_{FP}	Calculated pitch-diameter of flat pulley	[mm]
D_{FE}	Calculated effective-diameter of flat pulley	[mm]
D_t	Supplement for belt height	[mm]
D_e	Effective-diameter of larger V-belt pulley	[mm]
D_d	Datum-diameter of larger V-belt pulley	[mm]
D_p	Pitch-diameter of larger V-belt pulley	[mm]
d_e	Effective-diameter of smaller V-belt pulley	[mm]
d_d	Datum-diameter of smaller V-belt pulley	[mm]
d_p	Pitch-diameter of smaller V-belt pulley	[mm]

f	Deflection frequency	[Hz]
h	Height difference between shafts in turned drives	[mm]
i	Speed ratio	
K	Deflection force per belt	[N]
k_1	Tensioning factor for belt tension	
k_2	Factor for centrifugal force	[kg/m]
l	Span length of belt	[mm]
L_a	Outside V-belt length	[mm]
L_d	Datum V-belt length	[mm]
L_e	Effective V-belt length	[mm or 1/10 inch]
L_i	Inside V-belt length	[mm]
L_m	Mean V-belt length	[mm]
P_M	Power consumption of driven unit or motor output	[kW]
P_N	Power rating per V-belt	[kW]
P_D	Design power	[kW]
n_1	Revolutions of smaller V-belt pulley	[rev/min]
n_2	Revolutions of larger V-belt pulley	[rev/min]
S_{dyn}	Shaft load, dynamic	[N]
S_{stat}	Shaft load, static	[N]
T_{stat}	Belt tension per belt, static	[N]
T	Section height of V-belt	[mm]
v	Belt speed	[m/s]
z	Number of V-belts	[pieces]
x	Adjustment of centre distance for take-up	[mm]
y	Adjustment of centre distance for installation	[mm]
β	Arc of contact on smaller V-belt pulley	[°]
σ	Deflection of span length	[mm]
φ	Angle between pulleys in drives with nonparallel shafts	[°]
π	3.1416	
hp	0.736 kW	
kp	9.815 N	
inch	25.4 mm	

CALCULATION PROCEDURE

1. Service factor c_1

Table 1, page 15.
Choose from the table the operating conditions which best correspond to the actual operating conditions for the drive.

2. Belt section

is selected on the basis of diagrams 1 - 5, page 16 - 18.
As a principal rule, narrow V-belts should be used for new drives. This gives the most economical and least space demanding design.
For high-speed drives, or where small pulley diameters are required, ROFLEX RE-X programmes 10 and 17 and ROFLEX-X programmes 12 and 16 will usually provide the optimum solution.

When selecting belt type and section, the recommended maximum belt speed v [m/s] must be taken into consideration. This speed is listed on the data sheet for the belt type in question, in the PROGRAMME KEY and in the DIMENSION TABLES, page 41 - 43.

3. Speed ratio i

is the ratio of the rev/min of the smaller to that of the larger V-belt pulley

$$i = \frac{n_1}{n_2}$$

or the ratio of the pitch-diameter of the larger to that of the smaller pulley.

$$i = \frac{D_p}{d_p}$$

For calculation of pitch-diameter, see point 4.

Having selected the V-belt pulley diameters, check that the speed ratio is as desired.

4. V-belt pulley diameters d_d/d_p and D_d/D_p [mm]

Tables 2 and 3 on page 19 - 20 indicate the standard datum- and effective-diameters.

We recommend selecting as large diameters as practically possible in order to obtain better power transmission at higher belt speeds.

The diameter of the smaller V-belt pulley is selected from the table. The diameter of the larger V-belt pulley is calculated as follows:

$D_d = d_d \times i$ [mm]

Standard diameters should always be selected if at all possible.

The PITCH-diameter is used for an exact calculation of the speed ratio i, point 3, and the belt speed v, point 8.

These are calculated from the datum-diameter or the effective-diameter:

$d_p = d_d + 2b_d$ [mm] $\quad d_p = d_e - 2b_e$ [mm]

$D_p = D_d + 2b_d$ [mm] $\quad D_p = D_e - 2b_e$ [mm]

Correction supplement/reduction $2b_d$ and $2b_e$, see tables 2a and 3a on page 20.

For most drives it is sufficiently accurate to use datum-diameters when calculating the speed ratio and belt speed.

V-belt pulley groove dimensions are shown in tables 21 - 25 on page 43 - 46.

5. Centre distance C [mm]

The centre distance should be selected within this range:

$C > 0{,}7\ (d_d + D_d)$ [mm]

$C < \quad 2\ (d_d + D_d)$ [mm]

Deviations from this may occur due to the practical conditions of space or other technical requirements.

Actual centre distance, see point 7.

6. Belt length, datum L_d [mm]

$$L_d = 2C + 1{,}57\ (D_d + d_d) + \frac{(D_d - d_d)^2}{4C} \text{ [mm]}$$

C = Centre distance, point 5
D_d = Datum-diameter of larger V-belt pulley [mm].
d_d = Datum-diameter of smaller V-belt pulley [mm].

Find the closest standard belt length in the selected belt programme.

7. Centre distance C [mm]

The actual centre distance is calculated by adjusting the selected C with half of the difference between the belt length calculated in point 6 and the selected standard belt length.

For necessary installation and take-up allowance, see tables 4 - 5, page 21 - 22, which indicate the recommended minimum.

8. Belt speed v [m/s]

$$v = \frac{d_p \times n_1}{19100} \text{ [m/s]}$$

d_p = V-belt pulley pitch-diameter [mm]
For calculation of pitch diameter, see point 4.

In practice it will usually be sufficiently accurate to use the datum-diameter d_d [mm].

n_1 = Number of revolutions [rev/min] of same V-belt pulley.

Check that the belt speed is not higher than the recommended maximum speed v, which is listed in the PROGRAMME KEY and in the DIMENSION TABELS, page 41 - 43.

9. Deflection frequency f [Hz]

$$f = \frac{a \times v \times 1000}{L_d} \quad [Hz]$$

a = Number of pulleys in the drive
v = Belt speed [m/s]
L_d = Datum belt length [mm]

"f" is to be checked in proportion to the maximum deflection frequency, which is listed in the selected belt programme.

10. Power rating per belt P_N [kW]
can be found in the power ratings table for the selected belt programme and section.

11. Belt length correction factor c_2
See table 6, page 23.

12. Arc of contact correction factor c_3

The ratio $\frac{D_d - d_d}{C}$
is calculated and factor c_3 is found in table 7, page 24, for wrapped or raw-edge belt types.

Table 7 also contains the arc of contact β [°] on the smaller V-belt pulley. This is used for calculating the shaft load, point 15, for example.

13. Number of V-belts z
The required number of V-belts z is calculated according to the following formula and the result then rounded up to the nearest whole number above it.

$$z = \frac{P_M \times c_1}{P_N \times c_2 \times c_3}$$

P_M = Power consumption of driven unit or the motor's rated output [kW].
P_N = Power rating per V-belt, point 10.
c_1 = Service factor, point 1.
c_2 = Belt length correction factor, point 11.
c_3 = Arc of contact correction factor, point 12.

Calculation of drive with tension idler, see point 16.

14. Belt tension T_{stat} [N]
Correct belt tension is one of the preconditions for achieving satisfactory operation of the V-belt drive. For calculation, see page 25.

Belt tension checking, page 26.

Instructions on procedure for installation and maintenance of drive, see page 34

15. Shaft load S_{stat} and S_{dyn} [N]
Based on the prescribed belt tension, the shaft load is calculated according to the formulas on page 27.

The dynamic shaft load S_{dyn} is used for dimensioning bearings and shafts.

16. Drives with tensioning idler
Installation of an extra idler in the drive may be required for technical reasons.
Instructions on
- placing and design
- dimensioning

see page 28.

17. Drives with nonparallel shafts
For conditions, see page 29.

18. Fully turned drives
For conditions, see page 30.

19. V-Flat drives
Page 31.

CALCULATION EXAMPLE

QUSTIONNAIRE - ROFLEX V-BELTS

Company: Date:

Reference: Phone:

Address: Fax:

Postcode: City/Town: Telex:

NEW DRIVE

	Driving unit	Driven unit
Type	***AC motor, 3-phase***	***Centrifugal pump***
Power	P_M ***40*** [kW]	Service load ***35*** kW
Start	***x*** direct λ/Δ	Start load kW
Rev/min.	n_1 ***1470*** [rev/min]	n_2 ***1000*** (rev/min]
Max. pulley diameter	d_d ***300*** [mm] or d_e [mm]	D_d ***500*** [mm] or D_e [mm]
Max. pulley width	B ***125*** [mm]	B ***150*** [mm]

Centre distance C max. **1000** [mm] C min. **450** [mm]

Desired belt life Approx. hours

Please indicate operating conditions in section below

EXISTING DRIVE

Type				
Power	P_M	[kW]	Service load	kW
Start		direct λ/Δ	Startload	kW
Rev/min.	n_1	[rev/min]	n_2	[rev/min]
Max. pulley width	d_d	mm or d_e [mm]	D_d	[mm] or D_e [mm]
Number of grooves	z	grooves		

Centre distance C max. [mm] C min. [mm]

V-belts Section Length L_d/L_i mm No.

Make Marking

Belt life Currently hours Desired hours

Predominant mode of belt failure: Bottom cracking Longitudinal separation

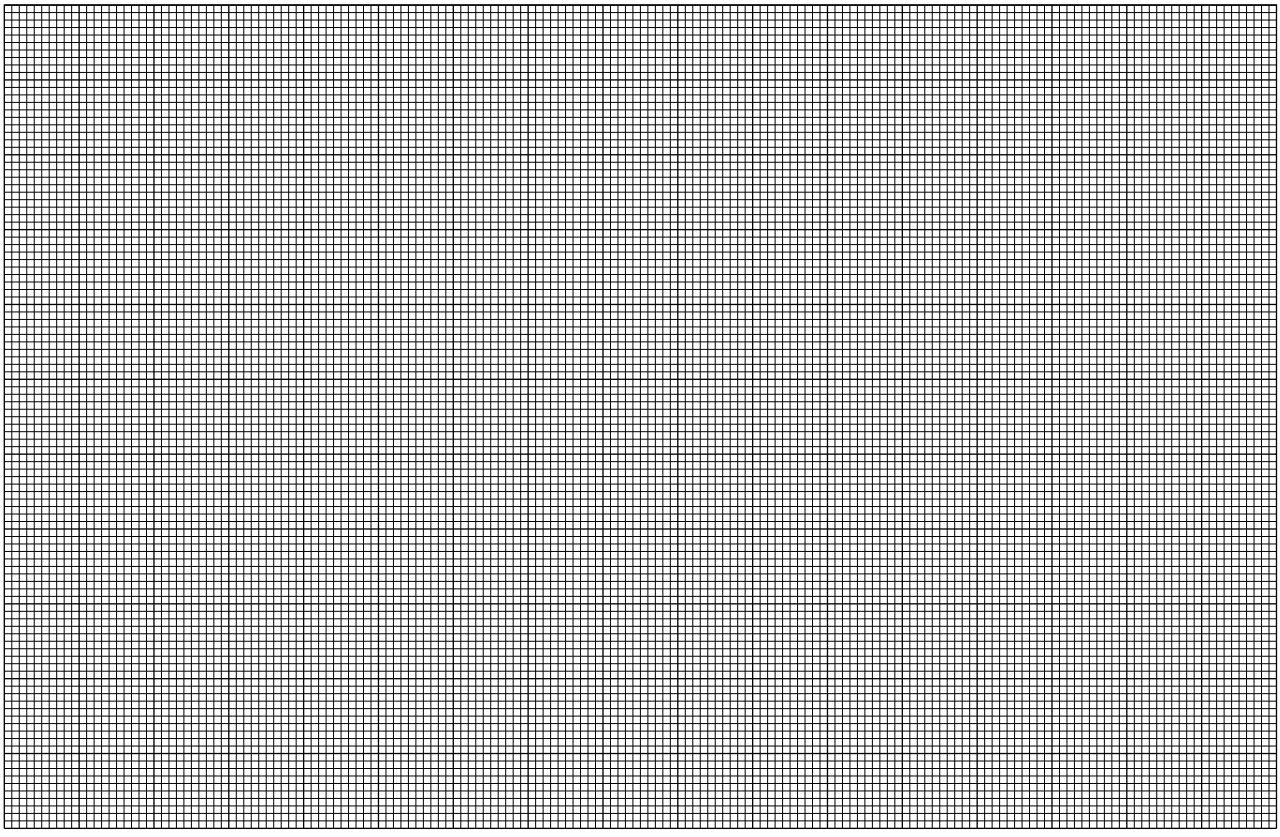
Wear Rupture

Other

OPERATING CONDITIONS

Operating hours per day	Up to10	10 - 16	Over 16 ***x***
Number of starts per 24 hours			
The load is	Even ***x***	Pulsating	In shocks
Transmission is exposed to	Oil	Chemicals, nature	
	Water ***x***	Dust, nature	
	Ambient temperature ***40*** °C		

SKETCH
Please sketch and dimension the drive on the following page. Any tension idler used in the drive should be included and dimensioned in the sketch. Please indicate direction of rotation.



Supplementary comments:

Dealer:

CALCULATION EXAMPLE

According to the information given in the questionnaire, select in the PROGRAMME KEY.

Programme 11
Narrow V-belts, wrapped

---

1. Service factor c_1

Table 1, page 15.
Look for centrifugal pump or the closest similar unit under driven unit.

Rotary pump

Look for motor type and operating time over 16 hours under driving machine/motor and read the value c_1.

$c_1 = 1.4$

---

2. Belt section for programme 11

Diagram 2, page 17

$P_D = P_M \times c_1$ [kW]

$P_D = 35 \times 1.4 = 49$ kW

The point of intersection of P_D and the 1470 rev/min of the smaller V-belt pulley is in the borderland between sections SPA and SPB. In such cases we recommend selecting the smaller section.

Belt section SPA

---

3. Speed ratio i

$$i = \frac{n_1}{n_2} \qquad i = \frac{1470}{1000} = 1.47$$

---

4. Pulley diameter

The diameter of the smaller pulley is selected from table 2, page 19, under section SPA.

$d_d = 150$ mm

The datum-diameter of the larger pulley is calculated as follows:
$D_d = d_d \times i$ [mm]

$D_d = 150 \times 1.47 = 220.5$ mm

Closest standard according to table 2:

$D_d = 224$ mm

The pitch-diameter of the pulleys is calculated and the speed ratio checked:

$$i = \frac{D_d + 2\,b_d}{d_d + 2b_d} = \frac{D_p}{d_p} \qquad i = \frac{224 + 0}{150 + 0} = 1.49$$

$2\,b_d$ according to table 2a, page 20, under belt section SPA and programme 11.

The deviation from the desired speed ratio i = 1.47 is acceptable for this drive.

---

5. Centre distance C [mm]

Should be selected within this area:

$C > 0.7\,(d_d + D_d)$ [mm] $\qquad C > 0{,}7(150 + 224) \quad C > 262$ mm

$C < \quad 2\,(d_d + D_d)$ [mm] $\qquad C < \quad 2(150 + 224) \quad C < 748$ mm

C min. according to questionnaire
450 mm.
C max. according to questionnaire
1000 mm.

C is initially selected as = 550 mm

6. Belt length L_d [mm]

$$L_d = 2 \times C + 1.57 \times (D_d + d_d) + \frac{(D_d - d_d)^2}{4 \times C} \text{ [mm]}$$

$$L_d = 2 \times 550 + 1.57 \times (224 + 150) + \frac{(224 - 150)^2}{4 \times 550} \text{ [mm]}$$

Closest standard L_d according to programme 11, section SPA, STANDRAD PROGRAMME

L_d = 1690 mm

L_d = 1682 mm

---

7. Centre distance C [mm]

With proper correction for belt length, the actual centre distance will be C [mm].

$$C = 550 - \frac{1690 - 1682}{2} = 546 \text{ mm}$$

Adjustment of C, table 4, page 21.

C min. = C – y [mm]
C max. = C + x [mm]

C min. = 546 - 27 = 519 mm
C max. = 546 + 22 = 568 mm

which is within the limits specified in the questionnaire.

---

8. Belt speed v [m/s]

Calculation of pitch-diameter
$d_p = d_d + 2b_d$

$d_p = 150 + 0 = 150$ mm

$2b_d$ according to table 2a, page 20.

$$v = \frac{d_p \times n_1}{19100} \text{ [m/s]}$$

$$v = \frac{150 \times 1470}{19100} = 11.5 \text{ m/s}$$

Recommended maximum belt speed v for programme 11.

42 m/s

---

9. Deflection frequency f [Hz]

$$f = \frac{a \times v \times 1000}{L_d} \text{ [Hz]}$$

$$f = \frac{2 \times 11.5 \times 1000}{1682} = 13.7 \text{ Hz}$$

Recommended maximum f for programme 11

100 Hz

---

10. Power rating per belt P_N [kW]

According to programme 11, section SPA, POWER RATING TABLES.
n_1 = 1470 rev/min and i = 1.5
Smaller V-belt pulley d_d is 150 mm. With interpolation for d_d = 140 mm and d_d = 160 mm.

P_N = 6.7 kW

---

11. Belt length correction factor c_2

For L_d 1682 mm under section SPA narrow V-belts in table 6, page 23.

c_2 = 0.95

12. Arc of contact correction factor c_3

For wrapped V-belts
Table 7, page 24.

$\frac{D_d - d_d}{C}$ $\frac{224 - 150}{546} \approx 0.14$ $\beta = 172°$

Arc of contact ß and factor c_3 is calculated by interpolation between $\beta = 174°$ and $\beta = 169°$.

Correction factor $c_3 = 0.99$

---

13. Number of V-belts z

$z = \frac{P_M \times c_1}{P_N \times c_2 \times c_3}$ $z = \frac{35 \times 1.4}{6.7 \times 0.95 \times 0.99} = 7.8$ pcs.

Number of V-belts z = 8 pcs.

Checking of pulley width B [mm].

According to table 21, page 43, Section SPA.

$B = (z-1) \times e + 2 \times f$ [mm] $B = (8-1) \times 15 + 2 \times 10 = 125$ mm

Maximum permissible B according to questionnaire 125 mm.

<u>Proposal for drive design</u>

Belt type	ROFLEX narrow V-belts, programme 11
Datum-diameter of smaller pulley	$d_d = 150$ mm
Datum-diameter of larger pulley	$D_d = 224$ mm
Pulley width	B = 125 mm
Speed ratio	i = 1.49
Centre distance	C = 546 mm
Installation and take-up allowance	- 27/+ 22 mm
Belt set	8 pcs. ROFLEX SPA 1682 L_d

The above is one of several possible solutions. We therefore recommend making more calculations in order to optimize the solution both technically and economically.

If a different programme is selected, e.g. programme 10, together with larger pulley diameters, the drive design could have the technical data shown in example 2. This proposal gives a solution that is technically and economically superior.

<u>Example 2</u>

Belt type	ROFLEX RE-X narrow V-belt, programme 10
Datum-diameter of smaller pulley	$d_d = 224$ mm
Datum-diameter of larger pulley	$D_d = 315$ mm
Pulley width	B = 65 mm
Speed ratio	i = 1.4
Centre distance	C = 541 mm
Installation and take-up allowance	- 27/+ 22 mm
Belt set	4 pcs. ROFLEX RE-X XPA 1932 L_d

14. Belt tension T_{stat} [N] per belt

Static tension T_{stat} [N], see page 25.

In table 8, look for k_1 under programme 11, mean load and arc of contact $\beta = 172°$.

$k_1 = 1.75$

In table 9, look for k_2 under programme 11, section SPA.

$k_2 = 0.115$

$$T_{stat} = 500 \times k_1 \times \frac{P_M}{z \times v} + k_2 \times v^2 \text{ [N]}$$

$$T_{stat} = 500 \times 1.75 \times \frac{35}{8 \times 11.5} + 0.115 \times 11.5^2 \text{ [N]}$$

$T_{stat} \approx 348$ N per belt

For example 2, the belt tension will be

$$T_{stat} = 500 \times 1.74 \times \frac{35}{4 \times 17.2} + 0.105 \times 17.2^2 \text{ [N]}$$

$T_{stat} \approx 474$ N per belt

Checking the belt tension.
Calculation of deflection force K [N], page 26.

$K = 0.06 \times T_{stat}$ [N]

$K = 0.06 \times 348 \approx 20.9$ N

Span length of belt $l = c \times \sin \frac{\beta}{2}$ [mm]

$l = 546 \times \sin \frac{172}{2} = 545$ mm

Deflection $\sigma = \frac{l \times 15}{1000}$ [mm]

$\sigma = \frac{545 \times 15}{1000} = 8.2 \text{ mm} \approx 8$ mm

For example 2, K will be

$K = 0.06 \times 474 = 28.4$ N

Span length

$l = 541 \times \sin \frac{171}{2} = 539$ mm

Deflection

$\sigma = \frac{539 \times 15}{1000} = 8.1 \text{ mm} \approx 8$ mm

---

15. Shaft load, page 27

Static shaft load S_{stat} [N].

$$S_{stat} = 2 \times z \times T_{stat} \times \sin \frac{\beta}{2} \text{ [N]}$$

$$S_{stat} = 2 \times 8 \times 348 \times \sin \frac{172}{2} \text{ [N]}$$

$S_{stat} = 5554$ N

Example 2

$$S_{stat} = 2 \times 4 \times 474 \times \sin \frac{171}{2} \text{ [N]}$$

$S_{stat} = 3780$ N

Dynamic shaft load

$$S_{dyn} = 707 \times \frac{P_M}{v} \sqrt{k_1^2 + 1 - (k_1^2 - 1)\cos\beta} \text{ [N]}$$

$$S_{dyn} = 707 \times \frac{35}{11.5} \sqrt{1{,}75^2 + 1 - (1{,}75^2 - 1)\cos 172} \text{ [N]}$$

$S_{dyn} = 5317$ N

Example 2

$$S_{dyn} = 707 \times \frac{35}{17.2} \sqrt{1{,}74^2 + 1 - (1{,}74^2 - 1)\cos 171} \text{ [N]}$$

$S_{dyn} = 3533$ N

SERVICE FACTOR c_1, POINT 1

With the c_1 factor, allowance is made for the load conditions which are characteristic of the listed driving unit types and driven units as well as of the number of operating hours.
If the driving unit or driven unit in question is not listed, we recommend selecting a listed unit which is as close to the applicable load con-ditions as possible.

Under extreme operating conditions with e.g. sharp dust, high temperatures, high starting tor-que and heavy shock loads, the c_1 factor should be increased.
Our technical department is ready to help you with advice within this area, too.

Table 1, Service factor c_1

Driven unit	Driving unit / Motor					
	AC motors, single- and three-phase with star-delta start. DC shunt-wound motors. Multiple cylin-der internal combustion engines.			AC motors, single- and three-phase, series wound, slip-ring motors with direct start. DC motors, series and compound wound. Single cylinder internal com-bustion engines.		
	Number of operating hours per 24 hours			Number of operating hours per 24 hours		
	Up to 10	Over 10 to 16	Over 16	Up to 10	Over 10 to 16	Over 16
Agitators for liquids. Small centrifugal blowers. Fans up to 7.5 kW. Light-duty conveyors.	1.0	1.1	1.2	1.1	1.2	1.3
Belt conveyors for sand, grain, etc. Dough mixers. Fans over 7.5 kW. Generators. Washing machines. Machine tools. Punching, pressing and shearing machines. Printing machines. Positive displacement rotary pumps. Vibrating and rotary screens.	1.1	1.2	1.3	1.2	1.3	1.4
Brick-making machinery. Bucket elevator. Piston compressors. Screw conveyors. Hammer mills. Hollanders. Piston pumps. Positive displacement blowers. Crushers. Woodworking machinery. Textile machinery.	1.2	1.3	1.4	1.4	1.5	1.6
Gyratory and jaw-roll crushers. Mills (ball/rod). Hoists (heavy loads). Rolling mills, calenders etc. for the rubber and plastics industries.	1.3	1.4	1.5	1.5	1.6	1.8

Diagrams 1-5 provide guidelines for selection of belt section within the selected programme. Consequently, it is often appropriate to make calculations with a different section and programme.

In marginal cases we recommend selecting the closest smaller section, since it is our experience that this gives the best solution, economically as well as technically.

From an overall point of view, we further recommend selecting the largest possible pulley diameter within the limits of the recommended maxi-mum belt speed and the space available.

The diagrams are a function of the design power P_D [kW] and the number of revolutions n_1 [rev/min] of the smaller pulley.

Design power $P_D = P_M \times c_1$ [kW]

P_M = Power consumption of the driven unit in kW or the rated kW of the driving unit.

c_1 = Service factor, table 1, page 15.

The belt section is found in the intersection of lines drawn from the design power P_D in the left-hand side of the diagrams and the number of re-volutions n_1 on the bottom line. The pulley dia-meter d_d [mm] corresponding to the recom-mended maxi-mum belt speed is shown here, too.

Diagram 1, Programme 10, ROFLEX RE-X narrow V-belts
Programme 12, ROFLEX-X narrow V-belts

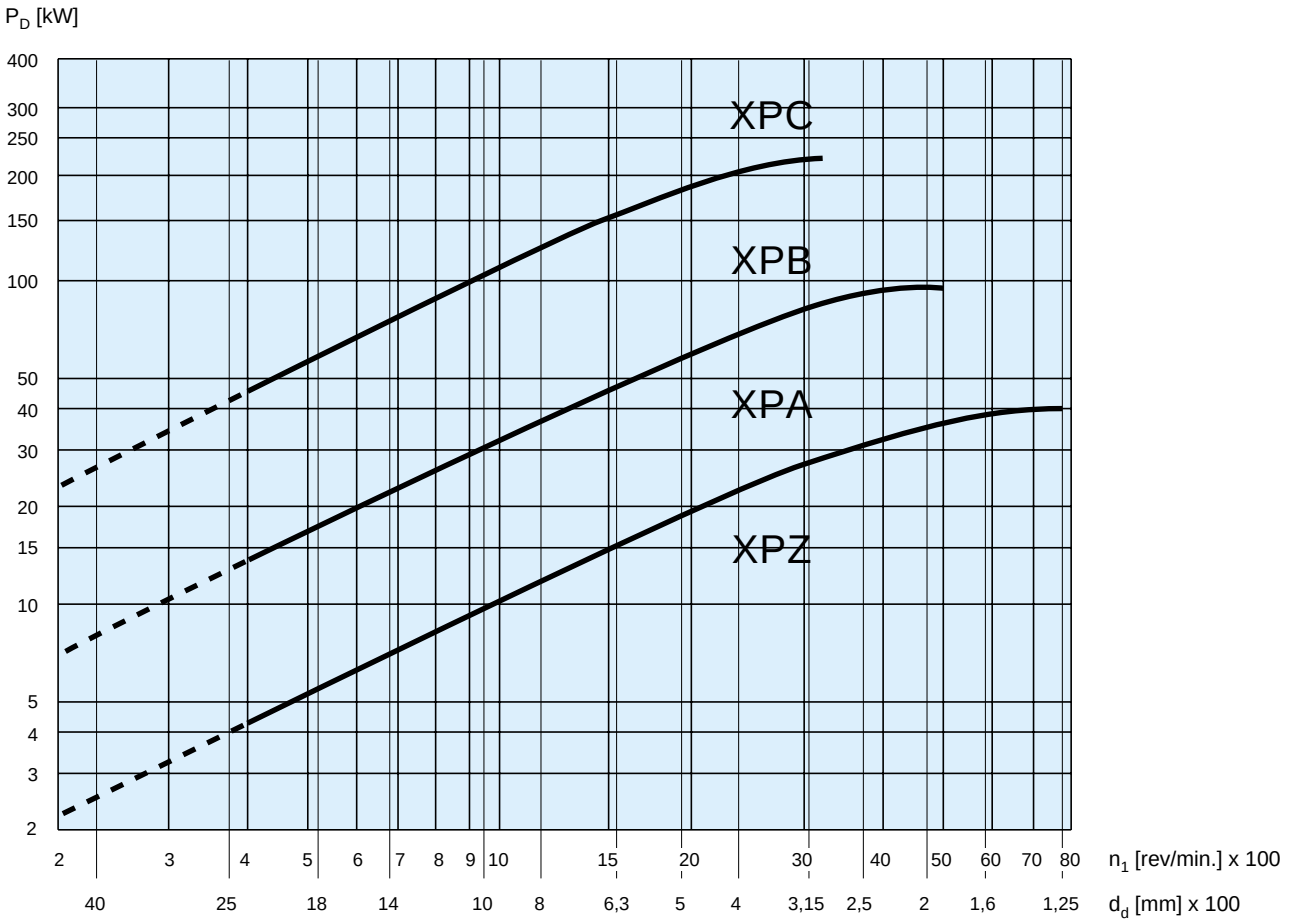


Diagramme 2, Program 11, ROFLEX narrow V-belts

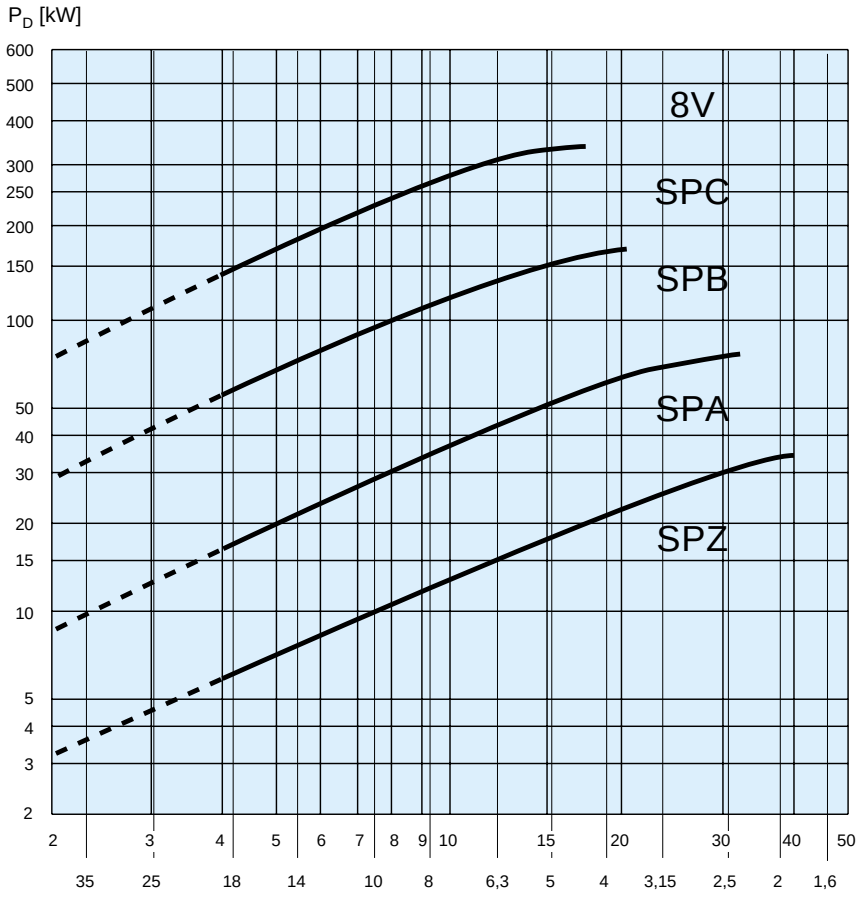


Diagram 3, Programme 15, ROFLEX classical V-belts

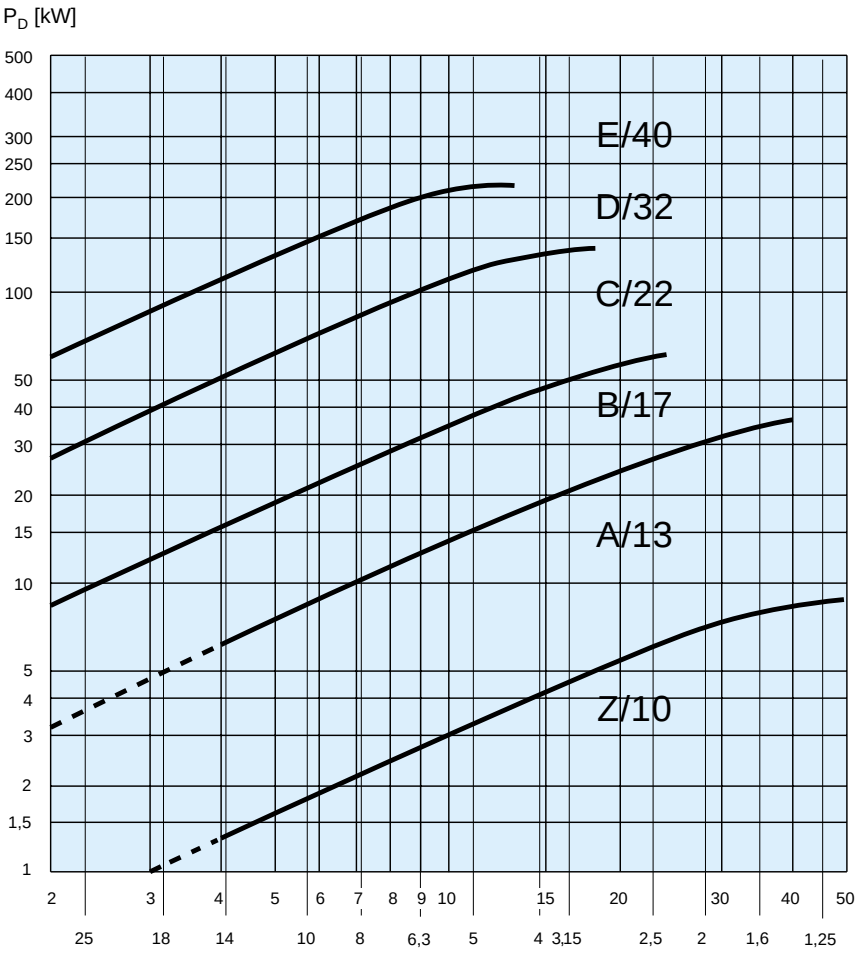


Diagram 4, Programme 16, ROFLEX-X classical V-belts

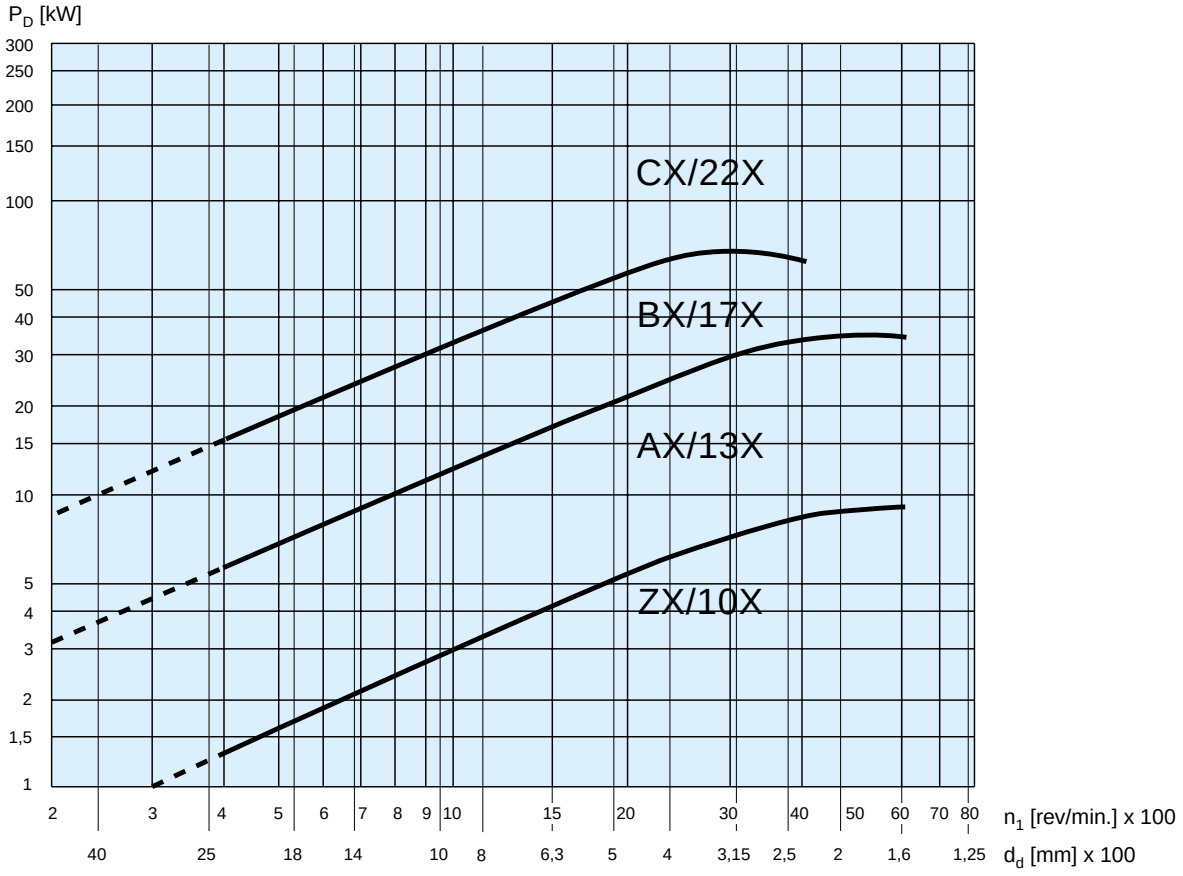
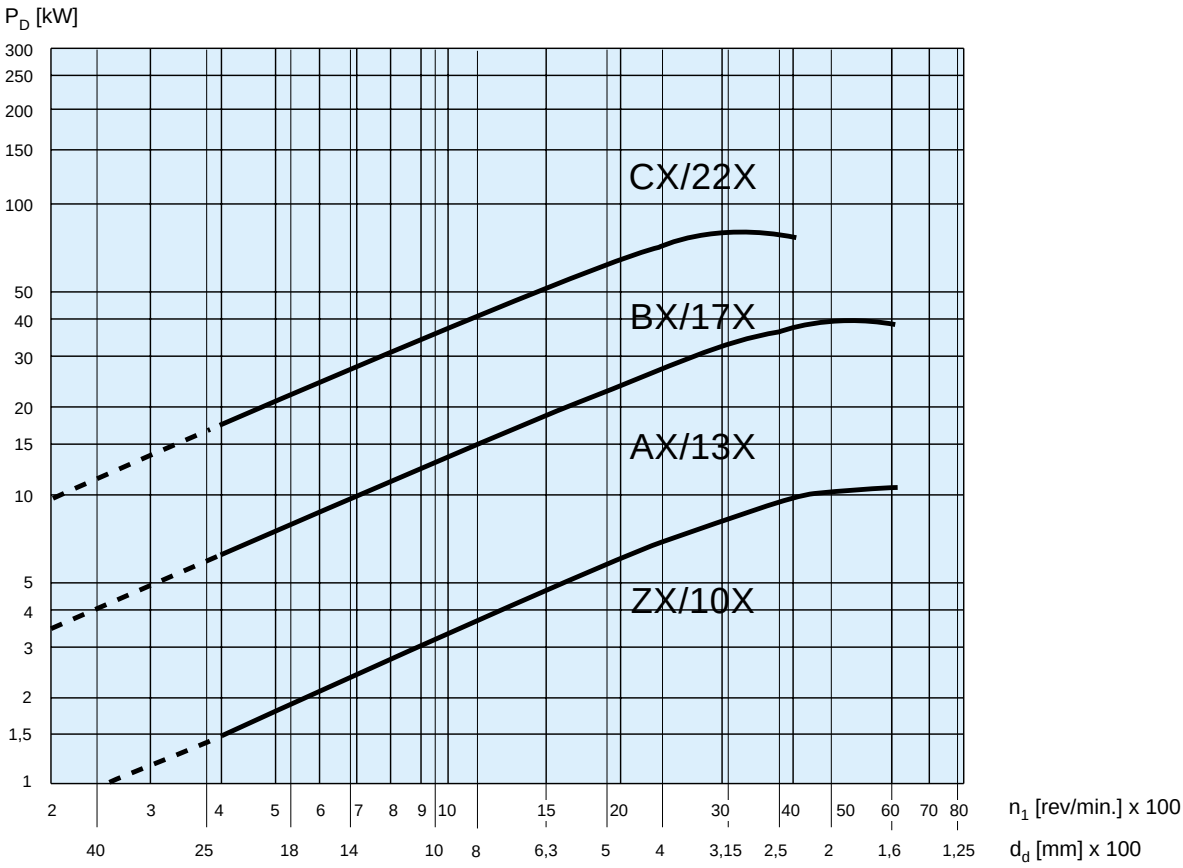


Diagram 5, Programme 17, ROFLEX RE-X classical V-belts



For further information, please refer to the standards ISO 4183, BS 3790, DIN 2211/1, DIN 2217/1.
The datum designation has not been introduced in some standards.
For further reference, please see the summary on page 57.

The recommended minimum pulley diameter is listed in power rating tables for belt programmes 10, 11, 12, 15, 16 and 17.
As regards the other programmes, this information is listed on the applicable programme in the PRODUCT SPECIFICATIONS

Table 2, Standard diameters [mm]

Classical V-belt sections	**Z ZX 10 10X**	**A AX 13 13X**	**B BX 17 17X**		**20**	**C CX 22 22X**	**25**	**D 32**	**E 40**
Narrow V-belt sections	**SPZ XPZ**	**SPA XPA**	**SPB XPB**	**S19**		**SPC XPC**			
Datum-diameter [mm]	40 50 56	50							
	63 71 80	63 71 80	80						
	90 100 112	90 100 112	100 112						
	125 132	118 125 132	125						
	140 150 160	140 150 160	140 150 160		140 160	140 160			
	180 200	180 190 200	180 190 200	180 190 200	180 200	180 190 200			
	224	224 236	224 236	212 224	224	212 224 236	224		
	250 280 300	250 280 300	250 280 300	250 280	250 280	250 280 300	250 280	280	
	315 355 400	315 355 400	315 355 400	315 355 400	315 355 400	315 355 400	315 355 400	315 355 400	
	450 500 560	450 500 560	450 500 560	450 500 560	450 500 560	450 500 560	450 500 560	450 500 560	450 500 560
	630	630	600 630	630	630	600 630	630	600 630	600 630 670
	800	710 800	710 750 800	710 800	710 800	710 750 800	710 800	710 750 800	710 800
		1000	900 1000 1120	900 1000 1120	900 1000 1120	900 1000 1120	900 1000 1120	900 1000 1120	900 1000 1120
			1250	1250 1400	1250 1400	1250 1400	1250 1400	1250 1400 1500	1250 1400 1500
				1600 1800 2000	1600 1800 2000	1600 1800 2000	1600 1800 2000	1600 1800 2000	1600 1800 2000

For calculation of PITCH-DIAMETER, see table 2a, page 20.

Table 2a Correction supplement $2b_d$ [mm]

Pitch-diameter calculation:
Pitch-diameter d_p = datum-diameter d_d + $2b_d$ [mm]

Programme	V-belt section								
	Z ZX 10 10X SPZ XPZ	**A AX 13 13X SPA XPA**	**B BX 17 17X SPB XPB**	**S19**	**20**	**C CX 22 22X SPC XPC**	**25**	**D 32**	**E 40**
10, 12, 16, 17	0	1.7	3.2			5.5			
11	–1.4	0	0	1.8		2.5			
15	1.2	2.8	1.2		2.4	4.8	3.4	4.8	3.2

Pulley groove dimensions, see tables 21-22, page 46 - 47.

PULLEY DIAMETERS, standard
The recommended minimum pulley diameter is listed in the power rating table for belt programmes 10, 11 and 12.
When converting the belt section according to the RMA/MPTA standard into SP and XP, then:

3V/9N ≈ SPZ 5V/15N ≈ SPB
3VX ≈ XPZ 5VX ≈ XPB
For further information, please refer to the US standard RMA/MPTA IP-22.

Table 3 Standard diameters [mm]

V-belt section	Effective-diameter d_e [mm]												
3V/9N 3VX	67 140 630	71 150 800	75 160 850	80 165	85 175	90 200	92,5 250	100 265	103 315	112 355	118 400	125 475	132 500
5V/15N 5VX	180 315 1000	190 335 1120	200 355 1250	212 375 1600	224 400 1800	236 475	243 500	250 530	258 600	265 630	272 710	280 800	300 950
8V/25N	315 250	335 800	355 900	375 1000	400 1120	425 1250	450 1320	475 1600	500 1800	530 2000	560 2500	600	630

Table 3a, Correction reduction $2b_e$ [mm]

Pitch-diameter calculation:
Pitch-diameter d_p = effective diameter d_e - $2b_e$ [mm]

Programme	V-belt section						
	3V	5V	8V	HA/A	HB/B	HC/C	HD/D
10, 11, 12	3,0	4,3	9,2				
23*)	–0,8	1,5	4,1	–2,4	1,4	2,3	5,9

*) See programme 23, PRODUCT SPECIFICATION, regarding standards for pulleys.
As regards pulley groove dimensions, see tables 23-25, page 48 - 49.

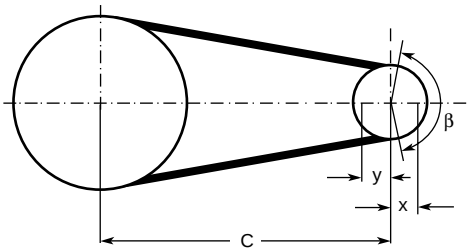
To install the belts without damaging them and to maintain the proper belt tension, it must be possible to adjust the centre distance as specified in table 4.

As regards joined V-belts, see table 5, page 22.

The adjustments are guidelines, and they can be used for most drives.

If a specific calculation of x and y is required, these formulas have to be used:

If the centre distance is fixed, an adjustment facility can be established by means of a tension idler, see page 28.



$$x = \frac{0.01 \times L_d}{\sin\frac{\beta}{2}} \text{ [mm]}$$

$$y = \frac{0.005 \times L_d + \pi \times T \times \frac{\beta}{360}}{\sin\frac{\beta}{2}} \text{ [mm]}$$

L_d = Datum belt length [mm]
T = Section height [mm]
β = Arc of contact [°]
π = 3.1416

Table 4 ROFLEX V-belts programmes 10, 11, 12, 15, 16, 17.

Datum belt length L_d [mm]	Minimum adjustment y [mm]											Minimum take-up x [mm]
	SPZ XPZ 3V A/13 AX 13X	SPA XPA	SPB XPB 5V 20	SPC XPC	Z/10 ZX 10X	B/17 BX 17X	C/22 CX 22X	25 S19	D/32	E/40	8V	All sections
≤ 670	16	19			13	20						10
> 670 - 1000	18	21			14	21	27					10
> 1000 - 1320	19	22	27		16	23	29				43	13
> 1320 - 1662	21	24	29		18	25	30				44	17
> 1662 - 2240	24	27	32	39	21	28	33	36	41		47	22
> 2240 - 3000	28	31	35	43	24	31	37	40	45		51	30
> 3000 - 3550	30	33	38	46	27	34	40	43	48		54	36
> 3550 - 4500	35	38	43	51	32	39	44	48	52	62	59	45
> 4500 - 5600	41	44	48	56	37	44	50	53	58	67	64	56
> 5600 - 6700	46		54	62		50	55	59	63	73	70	67
> 6700 - 8500	55		63	71		59	64	68	72	82	79	85
> 8500 - 10000			70	78		66	72	75	80	89	86	100
> 10000 - 11800			79	87		75	81	84	89	98	95	118
> 11800 - 13500			88	96		84	89	93	97	107		135
> 13500 - 15000			95	103		91	97	103	105	114		150
> 15000 - 16100			101	109		97	102	106	110	120		160

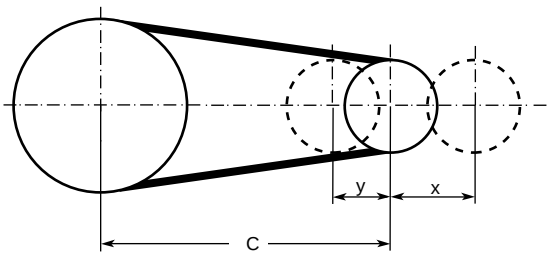
Table 5 ROFLEX joined V-belts, programme 23.

Effective belt length L_e [mm]	Minimum adjustment y [mm]							Minimum take-up x [mm]
	HA/A	HB/B	HC/C	HD/D	3V/9J	5V/15J	8V/25J	All sections
1100 ≤ 2240	36	46	55		36			**22**
> 2240 - 3550	43	53	62		43	59		**36**
> 3550 - 4500		58	67		48	64		**45**
> 4500 - 5600		63	72	88	53	69	100	**56**
> 5600 - 6700		69	78	94		75	106	**67**
> 6700 - 8500		78	87	103		84	115	**85**
> 8500 - 10000				110			122	**100**
> 10000 - 11800				119			131	**118**
> 11800 - 13500				128			140	**135**
> 13500 - 15000				135			147	**150**
> 15000 - 16000				140			152	**160**

The adjustments in table 5 are guidelines. If a specific calculation of x and y is required, use these formulas:

$$x = \frac{0{,}01 \times L_e}{\sin \frac{\beta}{2}} \quad [mm]$$

$$y = \frac{0{,}005 \times L_e + \pi \times T}{\sin \frac{\beta}{2}} \quad [mm]$$



L_e = Effective belt length [mm]
T = Section height [mm]
β = Arc of contact [°]
π = 3,1416

BELT LENGTH CORRECTION FACTOR c_2, POINT 11

The length factor c_2 expresses the deflection frequency which the V-belt is subjected to when passing over the pulleys.
The table values for power rating P_N [kW] per belt are based on a reference or basic belt length.

Where belt lengths differ from that length, the deflection frequency and thus also the factor c_2 are changed.
The reference length is listed against c_2 = 1.00.

Table 6 Belt length correction factor c_2

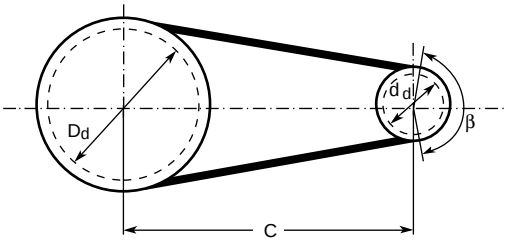
c_2	Narrow V-belts						Classical V-belts							
	SPZ XPZ 3V 3VX	SPA XPA	SPB XPB 5V 5VX	SPC XPC	S19	8V	Z/10 ZX 10X	A/13 AX 13X	B/17 BX 17X	20	C/22 CX 22X	25	D/32	E/40
0.80	465	551	915	1.453	1.622	1.653	297	666	875	1.216	1.448	1.735	2.320	2.578
0.81	496	695	977	1.551	1.241	1.765	312	700	920	1.279	1.523	1.824	2.440	2.712
0.82	529	741	1.042	1.655	1.324	1.883	328	736	967	1.345	1.601	1.918	2.565	2.851
0.83	565	791	1.112	1.765	1.412	2.008	345	774	1.017	1.414	1.683	2.016	2.697	2.997
0.84	602	843	1.185	1.881	1.505	2.141	362	813	1.069	1.486	1.769	2.119	2.834	3.150
0.85	642	898	1.263	2.005	1.604	2.282	381	854	1.123	1.561	1.859	2.227	2.978	3.310
0.86	684	957	1.346	2.136	1.709	2.431	400	897	1.179	1.640	1.953	2.339	3.128	3.477
0.87	728	1.019	1.433	2.275	1.820	2.589	420	943	1.239	1.722	2.051	2.457	3.286	3.652
0.88	775	1.085	1.526	2.422	1.938	2.756	441	990	1.301	1.809	2.154	2.580	3.450	3.835
0.89	825	1.155	1.624	2.577	2.062	2.933	463	1.039	1.366	1.899	2.261	2.708	3.622	4.026
0.90	877	1.228	1.727	2.742	2.194	3.120	486	1.091	1.433	1.993	2.373	2.842	3.802	4.225
0.91	933	1.306	1.837	2.916	2.333	3.319	510	1.144	1.504	2.091	2.490	2.983	3.989	4.434
0.92	992	1.389	1.953	3.100	2.480	3.528	535	1.201	1.578	2.194	2.613	3.129	4.185	4.652
0.93	1.054	1.476	2.075	3.295	2.636	3.749	561	1.260	1.655	2.302	2.741	3.283	4.390	4.880
0.94	1.120	1.568	2.205	3.500	2.800	3.984	589	1.321	1.735	2.414	2.874	3.443	4.604	5.118
0.95	1.190	1.666	2.342	3.718	2.974	4.231	617	1.385	1.820	2.581	3.014	3.610	4.828	5.366
0.96	1.263	1.768	2.487	3.947	3.158	4.492	647	1.452	1.908	2.653	3.159	3.784	5.061	5.625
0.97	1.341	1.877	2.639	4.190	3.352	4.768	678	1.522	2.000	2.781	3.311	3.966	5.304	5.895
0.98	1.423	1.992	2.801	4.445	3.555	5.069	711	1.595	2.095	2.914	3.470	4.156	5.558	6.178
0.99	1.509	2.112	2.971	4.715	3.772	5.366	745	1.671	2.195	3.053	3.635	4.354	5.823	6.473
1.00	1.600	2.240	3.150	5.000	4.000	5.690	780	1.750	2.300	3.198	3.808	4.561	6.100	6.780
1.01	1.695	2.375	3.339	5.300	4.240	6.032	817	1.833	2.409	3.349	3.956	4.777	6.368	7.101
1.02	1.797	2.516	3.539	5.617	4.494	6.392	855	1.919	2.522	3.507	4.176	5.002	6.689	7.435
1.03	1.904	2.666	3.749	5.951	4.761	6.772	895	2.009	2.640	3.671	4.372	5.236	7.003	7.783
1.04	2.017	2.823	3.971	6.302	5.042	7.172	937	2.103	2.764	3.843	4.576	5.481	7.330	8.147
1.05	2.135	2.989	4.204	6.673	5.338	7.594	981	2.201	2.892	4.021	4.788	5.735	7.671	8.526
1.06	2.260	3.164	4.450	7.063	5.651	8.038	1.026	2.302	3.026	4.208	5.010	6.001	8.026	8.920
1.07	2.392	3.348	4.709	7.474	5.979	8.505	1.074	2.409	3.166	4.402	5.241	6.278	8.396	9.332
1.08	2.530	3.542	4.981	7.907	6.325	8.998	1.123	2.519	3.311	4.604	5.482	6.566	8.781	9.760
1.09	2.676	3.746	5.268	8.362	6.689	9.516	1.174	2.634	3.452	4.814	5.732	6.866	9.183	10.206
1.10	2.829	3.961	5.570	8.841	7.073	10.061	1.228	2.754	3.620	5.033	5.994	7.179	9.601	10.671
1.11	2.990	4.186	5.887	9.344		10.634	1.283	2.879	3.784	5.262	6.265	7.504	10.036	11.155
1.12	3.160	4.424	6.221	9.874		11.237	1.341	3.009	3.955	5.499	6.548	7.843	10.490	11.659
1.13	3.338	4.673	6.572	10.431		11.871	1.402	3.145	4.133	5.747	6.843	8.196	10.962	12.184
1.14	3.525	4.935	6.940	11.016		12.537	1.464	3.286	4.318	6.004	7.150	8.563	11.483	12.730
1.15	3.722	5.211	7.328	11.632		13.237	1.530	3.432	4.511	6.272	7.469	8.945	11.964	13.298
1.16	3.929	5.500	7.735	12.278		13.972	1.598	3.585	4.711	6.551	7.801	9.343	12.496	13.889
1.17	4.146		8.163	12.957		14.745	1.669	3.744	4.920	6.841	8.146	9.757	13.049	14.504
1.18	4.374		8.612	13.669		15.556	1.742	3.909	5.137	7.143	8.505	10.187	13.624	15.143
1.19	4.614		9.083	14.417		16.407	1.819	4.080	5.363	7.456	8.879	10.634	14.223	15.808
1.20	4.865		9.578	15.203			1.898	4.259	5.597	7.783	9.267	11.100	14.845	16.500
1.21	5.129		10.097	16.027			1.981	4.444	5.841	8.122	9.671	11.583	15.492	
1.22	5.405		10.641	15.551			2.067	4.667	6.095	6.474	10.091	12.035	15.164	
1.23	5.695		11.213				2.155	4.838	6.358	8.841	10.527	12.609	15.863	
1.24	6.000		11.812				2.249	5.046	6.632	9.221	10.980	13.152		

ARC OF CONTACT CORRECTION FACTOR c_3, POINT 12

The V-belt power rating P_N [kW/belt] is based on a 180° arc of contact. If the arc of contact is smaller, the power transmission capability is reduced and P_N is adjusted by multiplying the read table value by factor c_3.

Correction factor c_3 is listed in table 7

- for wrapped V-belts, programmes 11, 15.
- for raw-edge V-belts, programmes 10, 12, 16, 17.



D_d = Datum-diameter of larger V-belt pulley [mm]

d_d = Datum-diameter of smaller V-belt pulley [mm]

β = Arc of contact on smaller V-belt pulley [°]

For those drives in which effective-diameters D_e/d_e [mm] are used, these values must be used in the calculations.

Table 7, Arc of contact correction factor c_3.

$\frac{D_d - d_d}{C}$	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
Angle β [°]	**180**	**174**	**169**	**163**	**157**	**151**	**145**	**139**	**133**	**127**	**120**	**113**	**106**	**99**	**91**	**83**
c_3, wrapped	1.00	0.99	0.99	0.98	0.98	0.97	0.96	0.95	0.94	0.92	0.91	0.89	0.87	0.85	0.82	0.78
c_3, raw-edge	1.00	1.00	0.99	0.99	0.99	0.98	0.98	0.97	0.97	0.96	0.95	0.94	0.92	0.90	0.88	0.85

BELT TENSION, POINT 14

It is essential to the operation and life of V-belts that they are installed with the necessary tension and that this tension is maintained.

Excessive belt tension results in poorer efficiency and an increased, unnecessary load on the belt. This means shorter belt life and extra load on shaft bearings etc.

Insufficient belt tension reduces the power transmission capability. Any slip between belt profile and pulley groove causes extra wear of the belt edges and increased heat build-up in the belts. This means faster destruction of the belts and thus too short life.

We therefore recommend calculating the necessary static belt tension T_{stat} according to the following formula:

$$T_{stat} = 500 \times k_1 \times \frac{P_M}{z \times v} + k_2 \times v^2 \quad [N/belt]$$

k_1 = Tension factor, table 8.
k_2 = Factor for centrifugal force [kg/m], table 9, page 23.
P_M = Power consumption or rated output of the motor [kW]
z = Number of V-belts
v = Belt speed [m/s]

When installing new belts, we recommend a belt tension of $1.3 \times T_{stat}$ in order to compensate for the initial belt tension drop which occurs during the first hours of operation.

The belt tension should then be checked periodically, see the section on installation and maintenance, page 34 - 38.

Table 8 Tension factor k_1

Arc of contact β [°]	Programmes 10, 12, 16, 17			Programmes 11, 15, 20, 23		
	Operating conditions			Operating conditions		
	Light drives Constant load k_1	Mean load k_1	Heavy drives Shock load k_1	Light drives Constant load k_1	Mean load k_1	Heavy drives Shock load k_1
180	1.50	1.73	2.03	1.50	1.73	2.03
175	1.51	1.73	2.03	1.51	1.74	2.04
170	1.51	1.74	2.04	1.52	1.75	2.06
165	1.52	1.75	2.05	1.54	1.77	2.08
160	1.53	1.75	2.06	1.55	1.79	2.10
155	1.53	1.76	2.07	1.57	1.80	2.12
150	1.54	1.77	2.08	1.59	1.83	2.14
145	1.55	1.79	2.10	1.61	1.85	2.17
140	1.57	1.80	2.12	1.63	1.88	2.20
135	1.58	1.82	2.13	1.66	1.90	2.24
130	1.60	1.84	2.16	1.68	1.94	2.27
125	1.62	1.86	2.18	1.72	1.97	2.32
120	1.64	1.88	2.21	1.75	2.01	2.36
115	1.66	1.91	2.24	1.79	2.06	2.42
110	1.69	1.94	2.28	1.83	2.11	2.48
105	1.72	1.98	2.32	1.88	2.17	2.54
100	1.75	2.02	2.37	1.94	2.23	2.62
95	1.80	2.07	2.43	2.00	2.30	2.70
90	1.85	2.12	2.49	2.08	2.39	2.80

Table 9 Factor for centrifugal force k_2 [kg/m]

Programme	Belt section									
	XPZ	**XPA**	**XPB**	**XPC**	**SPZ**	**SPA**	**SPB**	**S19**	**SPC**	**8V**
10	0.065	0.105	0.190	0.325						
11					0.065	0.115	0.200	0.275	0.350	0.520
12	0.060	0.100	0.180	0.320						
	ZX/10X	**AX/13X**	**BX/17X**	**CX/22X**						
16	0.055	0.080	0.165	0.250						
17	0.060	0.090	0.180	0.255						
	Z/10	**A/13**	**B/17**	**20**	**C/22**	**25**	**32**	**D/32**	**E/40**	
15	0.058	0.104	0.172	0.239	0.282	0.366		0.591	0.958	
20		0.104	0.172	0.239	0.282	0.366	0.519	0.591		
	HA/A	**HB/B**	**HC/C**	**HD/D**	**3V/9J**	**5V/15J**	**8V/25J**			
23	0.154	0.237	0.406	0.750	0.095	0.250	0.637			

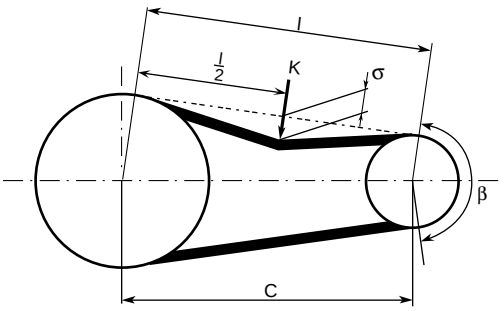
CHECKING THE BELT TENSION

When the V-belt set has been installed, the belt tension can be checked in the following, simple way, which provides adequate security that the belt tension is correct.

Apply a calculated force K at the centre of the span l. This force shall be sufficient for deflecting the belt 15 mm per 1000 mm of span. K must be applied perpendicularly to the belt.

$K = 0{,}06 \times T_{stat}$ [N]

K = Deflection force per belt [N]
T_{stat} = Static tension per belt [N], see page 25.



Span length of belt l [mm]

$l = C \times \sin\frac{\beta}{2}$ [mm]

C = Centre distance [mm]

β = Arc of contact [°], see table 7, page 24

Deflection σ [mm]

$\sigma = \frac{l \times 15}{1000}$ [mm]

A practical procedure for checking the belt tension is shown in the section “Installation”, page 34.

JOINED V-BELTS

The method with the deflection force and deflection of a belt cannot be used for checking the belt tension of joined V-belts.

We recommend using the following procedure which is based on an elastic belt extension corresponding to the static belt tension T_{stat}.

1. The joined V-belt is installed on the pulleys and stretched so slightly that in reality it has no tension.

2. The belt length L is measured with a tape measure placed on the outside of the belt. Then the necessary belt extension is calculated - length correction L_k - to achieve the proper belt tension.

   The length correction L_k is calculated according to the following principle:

$$L_k = \frac{T_{stat} \times L}{c_k} \text{ [mm]}$$

   T_{stat} = Static tension per belt [N], see page 25

   L = Measured outside belt length [mm]

   c_k = Extension factor, see table 10

Tabel 10 Extension factor c_k

Belt section	c_k
HA/A	53.000
HB/B	75.000
HC/C	104.000
HD/D	161.000
3V/9J	37.000
5V/15	75.000
8V/25J	127.000

3. The outside belt length L_a in tensioned condition is calculated as follows:

$$L_a = L + L_k \text{ [mm]}$$

4. Then tension the belt until it has reached the calculated outside length L_a [mm]

Subsequent periodic checking of the belt tension is carried out by slackening the belt until it is without tension, point 1. Then follow the procedure as described in points 2 - 4.

SHAFT LOAD, POINT 15

Based on the necessary belt tension, the static and dynamic shaft loads can be calculated according to the following formulas:

Static shaft load S_{stat} [N]

$$S_{stat} = 2 \times z \times T_{stat} \times \sin \frac{\beta}{2} \text{ [N]}$$

z = Number of V-belts

T_{stat} = Static belt tension [N], see page 86

β = Arc of contact [°] on smaller pulley Table 7, page 24.

Dynamic shaft load S_{dyn} [N]

$$S_{dyn} = 707 \times \frac{P_M}{V} \sqrt{k_1^{\,2} + 1 - (k_1^{\,2} - 1) \cos \beta} \text{ [N]}$$

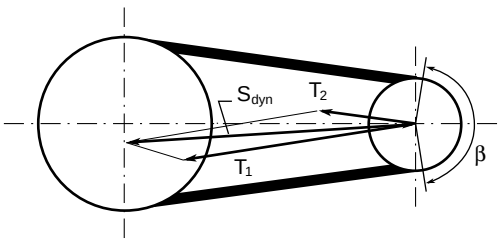
P_M = Power consumption or rated output of the motor [kW]

v = Belt speed [m/s]

k_1 = Tension factor, table 8, page 25.

β = Arc of contact [°] on smaller pulley Table 7, page 24.

The dynamic shaft load is used for dimensioning shafts and bearings.



T_1 = Effective belt force in tight belt part [N]

T_2 = Effective belt force in slack belt part [N]

S_{dyn} = Dynamic shaft load [N]

DRIVES WITH TENSIONING IDLER, POINT 16

It may be necessary to install an additional idler or tensioning idler on V-belt drives for several reasons, for example where you have:

FIXED CENTRE DISTANCE
An adjustable tensioning idler has to provide the retensioning facility necessary for installing V-belts and securing the tension.

DESIGN DETAILS
The V-belts can be guided around fixed structural parts of the machine by means of an idler.

LARGE CENTRE DISTANCE
By applying a slight pressure an idler is able to damp any vibrations in the slack belt part which ensures that the V-belts do not keel over when entering the groove of the driven pulley.

SMALL ARC OF CONTACT
The arc of contact can be increased by means of an outside idler, thereby reducing the risk of slippage.

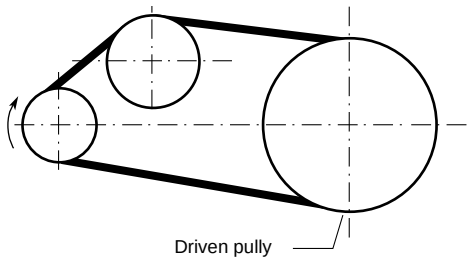
NONPARALLEL SHAFTS
Proper entry into the pulley groove can be ensured by means of a tensioning idler or guide idler.

COUPLING FEATURE
The drive can be engaged or disengaged by means of an idler system which establishes the belt tension with springs or hydraulics.
With extremely varying loads, such a system is also able to safeguard against overloading of the drive and machine parts.

An idler will apply additional load to the belts and should be omitted if technically possible.

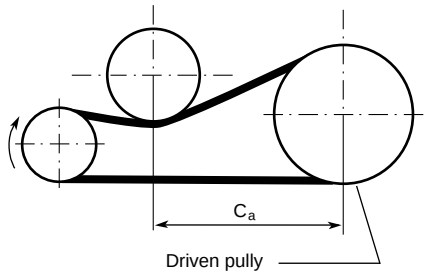
The following principal rules are recommended for the placing of an idler system:

The idler should act on the “slack” part of the belt drive, if possible. This will reduce the load on the idler system and the belts to a minimum.
This means that tensioning idlers should not be used in reversible drives.



An inside idler for belt types within programmes 10, 11, 12, 16 and 17 should be constructed as a V-belt pulley. For programmes 15, 20, 21 and 23 it may be constructed as a flat pulley.
However, a V-belt pulley should always be used for drives with a large centre distance in order to achieve lateral control of the V-belts.

An inside idler reduces the arc of contact on the pulleys. We recommend that it be placed such that it produces the same arc of contact on both pulleys regardless of how it is set within its adjustment range.



An outside idler may be constructed as a flat pulley with a cylindrical face. It increases the arc of contact on the pulleys but the possibility of retensioning is often limited, and the take-up allowance should therefore be checked in relation to tables 4-5, page 21 - 22.

The idler should be placed with the greatest possible distance Ca from the pulley where the belts are running in. The reason for this is that a flat pulley does not control the V-belts laterally, which may result in sidewards tracking.

DIAMETER OF IDLERS

The diameter of an inside idler must as a minimum be equal to the diameter of the smaller pulley in the drive.

The diameter of an outside idler must as a minimum be 1.4 × the diameter of the smaller pulley.

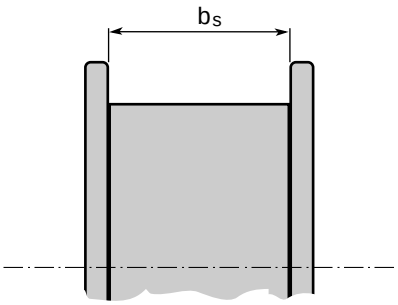
We recommend using a diameter larger than the stated minimum if that is technically possible. This will reduce the extra load always applied by the idlers to the V-belts.

IDLER CONSTRUCTION

Inside idlers with grooves should be made in accordance with the applicable standard for V-belt pulleys, see tables 21 - 25, page 46 - 49.

An outside or inside idler constructed as a flat pulley must have a cylindrical face, i.e. not convex.

From a technical point of view, the drive will often operate better if idlers with flanges are used. Any rounding between flanges and face must be avoided, since that may cause the belts to pull up the sides of the flanges and capsize.



Distance between flanges bs [mm]

b_s = 1.5 × top width of V-belt profile + width of pulley B [mm].

as regards the V-belt sections D/32 and E/40:

b_s = 1.3 x top width of V-belt profile + width of pulley B [mm].

CALCULATION OF DRIVE

Belt length

It will usually be necessary to calculate the belt length according to a drawing of the drive.
Check that the idler movement provides the adjustment facility necessary for installation and take-up allowance, see tables 4 and 5 on page 21 - 22.

Correction factor for idler c_4

An idler will have a negative influence on V-belt life. To compensate for that, the correction factor c_4 is inserted into the formula for calculating the required number of belts.

Table 11 Correction factor for idler c_4

Number of idlers	c_4
1	0.91
2	0.86
3	0.81

The number of V-belts is then calculated as follows:

$$z = \frac{P_M \times c_1}{P_N \times c_2 \times c_3 \times c_4}$$

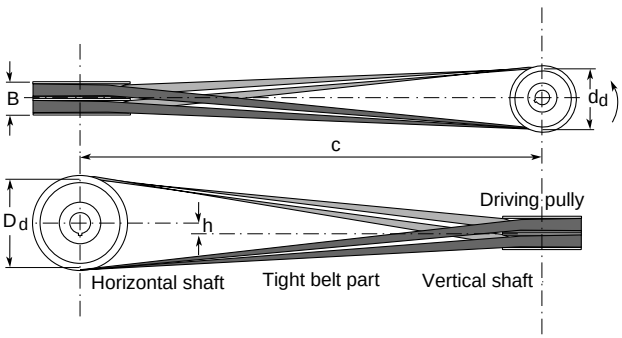
For further information, see point 13, page 8.

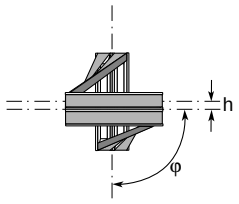
DRIVES WITH NONPARALLEL SHAFTS, POINT 17

are also termed turned drives.

When the following guidelines are observed, this type of drive operates well but shorter belt life relative to a traditional drive must be expected.

Our technical department gives advice on design, dimensioning and, if necessary, selection of special belts which have been designed to absorb the extra loads.





Drives with 30 - 90° angle between the shafts.

1. Minimum centre distance C [mm]

At φ = 90°
C min. = 5,5 (D_d + B) [mm]

At φ = 45°
C min. = 4 (D_d + B) [mm]

At φ = 30°
C min. = 3 (D_d + B) [mm]

D_d = Datum-diameter of larger pulley [mm]

B = Width of pulley [mm]

2. The speed ratio i

should not exceed i = 2.5.
If a greater speed ratio is required, the power has to be transmitted in two stages, e.g. first a traditional drive and then a turned.

3. Height difference h [mm]

The centre line of the horizontal shaft must be h [mm] higher than the centre line of the pulley on the vertical shaft.

The size of h is changed in relation to the centre distance C, see table 12.

Table 12

Centre distance C [mm]	Classical V-belts h [mm]	Narrow V-belts h [mm]
- 1500	5	3
1501 - 2000	10	8
2001 - 2500	15	10
3001 - 3500	30	20
3501 - 4000	35	25
4001 - 4500	45	35
4501 - 5000	60	40
5001 - 5500	70	50
5501 - 6000	85	55

4. Direction of rotation

The direction of rotation is selected such that the tight belt part is at the bottom of the drive.

5. Pulleys

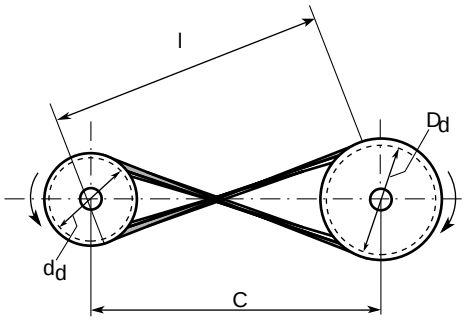
Both pulleys must be with grooves according to standard, see tables 21 - 25 on page 46 - 49.
For drives with a single V-belt, we recommend using deep groove pulleys, see table 22, page 47.

6. Calculation

The calculation of the drive follows the procedure described in points 1-15, page 5 - 8.

FULLY TURNED DRIVE, POINT 18

The shafts are parallel and the V-belt turned 180°, thereby producing a reversal of the direction of rotation of one of the shafts.



The following guidelines should be followed when establishing a fully turned V-belt drive.

1. Minimum length of belt part l [mm]

l min. = 6 × (D_d + B) [mm]

D_d = Datum-diameter of larger pulley [mm]

B = Width of pulley [mm], tables 21 - 25, page 46 - 49.

2. Guide idler

To avoid mutual wear where the two belt parts are crossing each other, a guide idler can be installed on the slack belt part near the point of intersection.

Raw-edge belt types with inside cogging must be turned such that the belt top of the two belt parts are facing each other.

3. Calculation of drive

follows the procedure described on page 5 - 8, with the exception of point 6, belt length, which is calculated as follows:

$$L_d = 2 \times C + 1{,}57\,(D_d + d_d) + \frac{(D_d + d_d)^2}{4 \times C} \text{ [mm]}$$

V-FLAT DRIVES, POINT 19

This type of drive is used when it is desirable to change a flat belt drive into a V-belt drive, because it is often most economical to retain the flat pulley which is also serving as flywheel in many cases. Moreover, it could be advantageous to use this type of drive in new constructions, because of the cost of manufacturing large V-belt pulleys.

The following ROFLEX programmes can be used for V-FLAT drives:

15 Classical V-belts
20 - -
21 Double V-belts
23 Joined V-belts.

As regards programmes 20 and 21, please contact our technical department.

Narrow V-belts should not be used because of the relatively small bottom width of the belt sections, which may result in the V-belts capsizing. However, this does not apply to joined V-belts in programme 23.

A V-FLAT drive does not exploit the power transmission capability of the belts as a drive with two V-belt pulleys. Special conditions and factors therefore need to be included in the calculations.

The following guidelines must be observed to ensure an efficient, functional drive.

1. The smaller pulley must be a V-belt pulley with grooves according to standard, see tables 21, 24 and 25, page 46 and 49, or a deep-groove pulley, see table 22 on page 47.

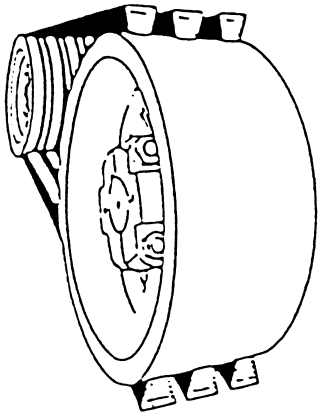
2. The flat pulley must have a straight/cylindrical belt face.

3. The speed ratio must be at least i = 3.

$$i = \frac{n_1}{n_2} = \frac{D_{FP}}{d_p} \geq 3$$

n_1 = Number of revolutions of smaller pulley [rev/min].

n_2 = Number of revolutions of larger pulley [rev/min].



D_{FP} = Calculated pitch-diameter of the flat pulley [mm], see page 32.

d_p = Pitch-diameter of V-belt pulley [mm].

4. Centre distance C to be selected within the following limits, as determined by the speed ratio.

at $i \leq 5$, $C = 1{,}2\ (D_F - d_d)$ [mm]

at $i > 5$, $C = D_F$ [mm]

D_F = Diameter of flat pulley [mm]

d_d = Datum-diameter of V-belt pulley [mm]

5. At the same time ratio $\frac{D_{Fp} - d_p}{C}$ should be within 0,5 - 1,17.

As regards D_{Fp} and d_p, see point 3.

The optimal ratio is 0.85.

6. The width of the flat pulley's belt face, B_F, should as a minimum be as specified in table 15, page 32.

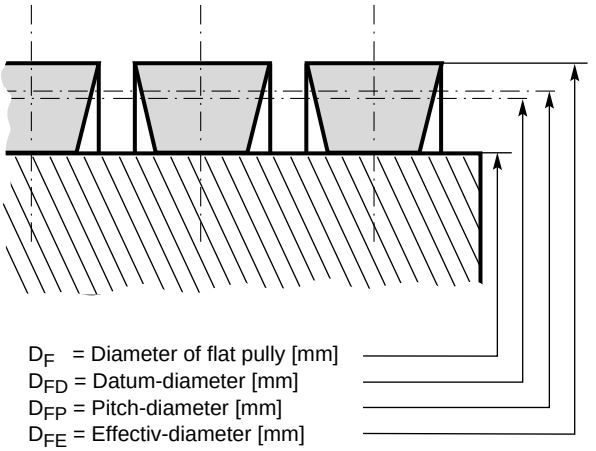
When the preconditions 1 - 6 have been satisfied, the V-FLAT drive is calculated as described on page 6 - 8, with the exception of:

Point 4, As regards the flat pulley, D_F, the calculation diameter is determined as shown on page 32.

Point 6, Belt length; see page 33.

Point 12, As regards the arc of contact correction factor, use factor c_5, table 16, page 33.

CALCULATION DIAMETRES OF FLAT PULLEY



Calculated diameters are determined with a supplement to D_F according to tables 13 - 14.

Datum-diameter	$D_{FD} = D_F + D_{td}$ [mm]
Pitch-diameter	$D_{FP} = D_F + D_{tp}$ [mm]
Effective-diameter	$D_{FE} = D_F + D_{te}$ [mm]

Table 13, Programme 15

Belt section	Z/10	A/13	B/17	20
D_{td}	7	10	14	16
D_{tp}	8	12	15	18

Belt section	C/22	25	D/32	E/40
D_{td}	21	20	22	27
D_{tp}	26	23	27	30

Table 14, Programme 23

Belt section	HA/A	HB/B	HC/C	HD/D
D_{tp}	12	14	18	24
D_{te}	10	16	22	30

Belt section	3V/9J	5V/15J	8V/25J	
D_{tp}	13	21	36	
D_{te}	12	23	40	

Example, Programme 15

D_F = 1200 mm, belt section C/22
D_{FP} = 1200 + 26 = 1226 mm.

V-BELT PULLEY
Calculation of pitch-diameter, see table 2a and 3a, page 20.

Table 15 Flat pulley, minimum width of belt face B_F [mm]

Programme No.	Belt section	Number of V-belts in belt set										Supplement per extra belt [mm]
		1	2	3	4	5	6	7	8	9	10	
15	**Z/10**	36	48	60	72	84	96	108	120	132	144	**12**
15	**A/13**	45	60	75	90	105	120	135	160	165	180	**15**
15	**B/17**	55	74	93	112	131	150	169	189	207	226	**19**
15	**20**	65	88	111	134	157	180	203	226	249	272	**23**
15	**C/22**	74	99	126	151	177	202	228	253	279	304	**25.5**
15	**25**	83	112	141	170	199	228	257	286	315	344	**29**
15	**D/32**	98	135	172	209	246	283	320	357	394	431	**37**
15	**E/40**	118	162	207	251	296	340	385	429	474	508	**44.5**
23	**HA/A**		60	76	92	108	124	139	155	171	187	**15.88**
23	**HB/B**		72	91	110	129	148	167	186	205	224	**19.05**
23	**HC/C**		97	123	148	174	199	224	250	275	301	**25.4**
23	**HD/D**		133	169	206	242	279	315	352	388	425	**36.53**
23	**3V/9J**		53	64	74	84	95	105	115	125	136	**10.3**
23	**5V/15J**		79	96	114	131	149	166	184	201	218	**17.5**
23	**8V/25J**		117	145	174	202	231	260	288	317	345	**28.6**

ARC OF CONTACT CORRECTION FACTOR c_5

The correction factor for the arc of contact on the smaller pulley differs from that used for drives with two V-belt pulleys.

The correction factor c_5 for a V-FLAT drive is listed in table 16 and has to be inserted into the formula in point 13 page 8 instead of factor c_3.

The calculation diameter of the flat pulley is
$D_{FD} = D_F + D_{td}$, see table 13.

The following formula is used for joined V-belts:

$$\frac{D_{FE} - d_e}{C}$$

$D_{FE} = D_F + D_{te}$ [mm], see table 14.
d_e = Effective-diameter of V-belt pulley [mm]

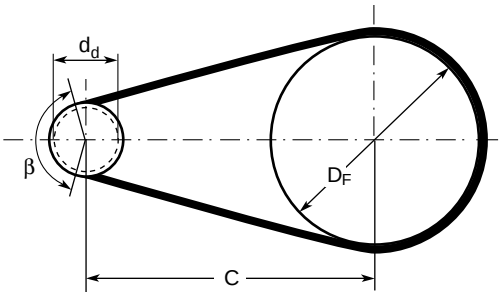


Table 16, Arc of contact correction factor c_5.

$\frac{D_{FD} - d_d}{C}$	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40
Arc of contact β [°]	**180**	**174**	**169**	**163**	**157**	**151**	**145**	**139**	**133**	**127**	**120**	**113**	**105**	**99**	**91**
c_5	0.75	0.76	0.78	0.79	0.80	0.81	0.83	0.84	0.85	0.85	0.82	0.80	0.77	0.73	0.70

CALCULATION OF BELT LENGTH

Datum belt length L_d [mm]

$$L_d = 2 \times C + 1{,}57\,(d_d + D_F + D_{td}) + \frac{(D_F + D_{td} - d_d)^2}{4 \times C} \text{ [mm]}$$

C = Centre distance [mm]
d_d = Datum-diameter of V-belt pulley [mm]
D_F = Diameter of flat pulley [mm]
D_{td} = Supplement to D_F, table 13, page 32

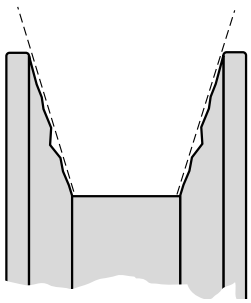
Effective belt length L_e [mm]

$$L_e = 2 \times C + 1{,}57\,(d_e + D_F + D_{te}) + \frac{(D_F + D_{te} - d_e)^2}{4 \times C} \text{ [mm]}$$

C = Centre distance [mm]
d_e = Effective-diameter of V-belt pulley [mm]
D_F = Diameter of flat pulley [mm]
D_{te} = Supplement to D_F, table 14 page 32

Checking the V-belt pulley grooves

Good contact between V-belts and pulley grooves is essential. This is ensured by using pulleys according to standard.



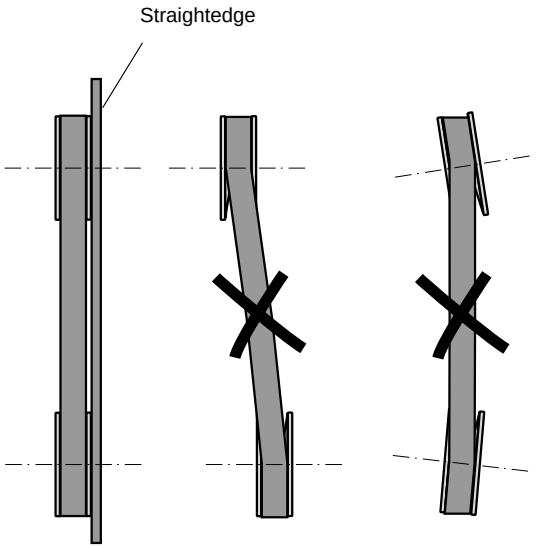
Worn pulleys should be replaced in order to secure proper operation of the drive and long V-belt life.

The grooves of the pulleys must be clean.

Checking V-belt pulleys and shafts

Before installing the V-belts, check that the pulleys are aligned and the shafts parallel. Sufficiently accurate checking can ordinarily be carried out by placing a straightedge or string along the side of the pulleys.

Repeat the check after installation and tensioning.



Belt sets

TS = Tolerance Stable means that the V-belts have been manufactured and checked according to the standard for length tolerance in a matched belt set.

ROFLEX V-belts marked with a “TS”, same section, No. or belt length can therefore be used in belt sets without prior matching.

For those belt types which are not marked with a “TS”, a code No. is used that indicates the belt length in proportion to the nominal belt length. A code No. or tolerance group corresponds to 2 mm.

ROFLEX V-belts marked with this length code can be combined in belt sets according to the following rules:

Datum belt length/ effective belt length L_d/L_e [mm]	Maximum number of tolerance groups
- 1899	1
1900 - 3149	2
3150 - 4999	3
5000 - 8999	4
9000 - 12499	6
12500 - 16000	7

Examples:

In a belt set with the datum belt length L_d 3091 mm, a maximum of two tolerance groups may be used, for example: 49, 50 or 51, 52.

If the datum belt length L_d is 7500 mm, a maximum of four tolerance groups may be used, for example: 47, 48, 49, 50 or 51, 52, 53, 54.

Installation of V-belts

Never lever V-belts over the pulleys, because that could damage the power transmitting cords and reduce belt life considerably.

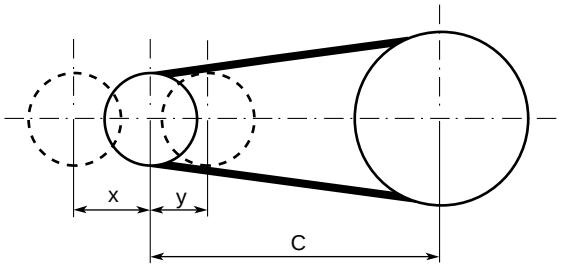
Consequently, it must be possible to reduce the centre distance so much that the V-belts can be fitted loosely into the pulley grooves.

Adjustment of centre distance

The centre distance C must be reduced by y [mm] in order to permit the V-belts to be installed.

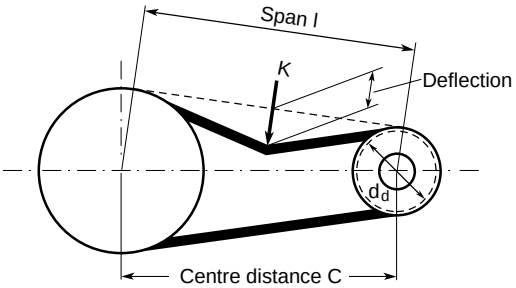
To establish and maintain proper belt tension, it must be possible to increase C by x [mm].

As regards values for x and y, see tables 4-5, page 21 - 22.



BELT TENSION

Proper belt tension is vital to the operation of the drive and the life of the V-belts.
To ensure optimum V-belt drive operation, we recommend calculating the belt tension and deflection force K [N] for the drive in question.
See the sections on belt tension, page 25, and checking of belt tension, page 26.



The belt tension in most drives can be checked with adequate reliability by means of ROULUNDS belt tension gauge; alternatively a spring balance can be used.

When checking the belt tension, follow this procedure:

1. When the V-belts have been installed into the grooves of the pulleys, increase the centre distance until the belts are taut.

2. Measure or calculate the span length of the belts l [mm] as shown on page 26.

3. The deflection is calculated as 15 mm per 1000 mm of span.

   For example, the span l = 900 mm

   $$\text{Deflection} = \frac{900 \times 15}{1000} = 13{,}5 \text{ mm}$$

4. Place the large O-ring on the scale of the belt tension gauge at the calculated deflection.

5. Place the small O-ring at 0 [mm].

6. Place a straightedge on the pulleys.

7. Place the belt tension gauge at the centre of the span and perpendicularly to the straightedge.

8. Push down the belt tension gauge until the large O-ring is flush with the bottom edge of the straightedge.

9. Read the deflection force K [N] on the belt tension gauge scale by the small O-ring.

10. Compare the K-value reading with the calculated value or the table value for the belt section of the belt type in question and with the datum-diameter of the smaller pulley, tables 17 - 20 page 36 - 37.

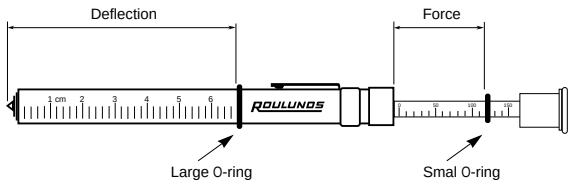
    K must be within K_{min} and K_{max} in the table. For drives with a heavy, pulsating load, we recommend $K = K_{max}$.

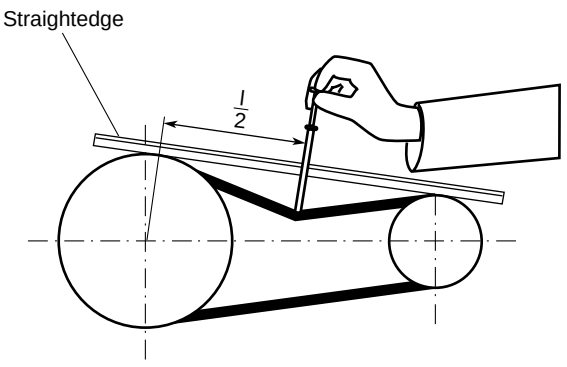
    When the belts are installed for the first time, we recommend multiplying the table values for K_{min} and K_{max} by 1.3.

11. If the K-value reading is too low or too high compared with the table or calculated value, adjust the centre distance until the correct K is achieved.

12. Start the drive. Let it run for 5 minutes. Check the belt tension, and adjust it if necessary.

13. After approx. 24 hours of operation, check the belt tension. Check it regularly after that, and keep it at the recommended value.





Joined V-belts
The procedure for ordinary V-belts cannot be applied to checking the belt tension of joined V-belts.

We recommend following the procedure described on page 26.

Table 17 Deflection force K [N]

Datum-diameter of smaller pulley	Programme 10								Programme 17							
d_d [mm]	XPZ		XPA		XPB		XPC		ZX/10X		AX/13X		BX/17X		CX/22X	
	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]
40									5	7						
45									6	8						
50	12	16							7	9	5	9				
56	13	18							7	10	8	12				
63	15	20	14	20					8	11	10	15				
71	16	21	17	23					8	11	13	17				
80	17	23	20	27					9	12	15	20	15	22		
90	18	24	23	31					9	12	16	22	19	25		
100	19	25	25	33	29	39			9	12	18	24	22	29		
112	19	26	27	36	34	45			9	13	19	25	24	32		
125	20	27	28	38	38	51			10	13	20	27	26	35		
140	20	27	30	40	42	56			10	13	21	28	28	38	34	46
160	21	28	31	42	46	62	56	75			22	29	30	41	39	52
180	21	29	33	44	49	66	63	84			23	30	32	43	42	56
200			33	45	52	69	69	92					33	44	45	60
224			34	46	54	72	75	100					35	46	48	63
250					57	75	80	106					36	47	50	66
280					59	78	85	112					37	48	52	69
315					61	80	90	118							55	71
355					63	82	94	123							57	73
400							99	127							59	75
450							103	132							61	77
500							107	135							63	78
560							112	139								

Table 18 Deflection force K [N]

Datum-diameter of smaller pulley	Programme 11											
d_d [mm]	SPZ		SPA		SPB		S19		SPC		8V/25N	
	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]
63	9	13										
71	11	15										
80	12	17										
90	14	19	14	20								
100	15	21	17	23								
112	16	22	20	26								
125	17	23	22	30								
140	18	24	24	32	27	37						
160	19	26	26	35	32	43						
180	20	26	28	38	37	49	34	47				
200	20	27	30	40	40	53	40	53				
224	21	28	31	41	43	57	45	59	53	71		
250			32	43	46	60	50	65	61	80		
280			33	44	48	63	54	71	68	89		
315			34	45	51	66	58	76	75	97	88	117
355					53	68	62	80	81	104	100	132
400					55	71	66	84	87	110	110	145
450					57	72	69	87	92	115	120	156
500					59	74	72	89	96	119	127	165
560							74	95	99	129	134	173
630							76	97	103	132	142	181
710									106	135	148	187
860									110	137	155	192

Table 19 Deflection force K [N]

Datum-diameter of smaller pulley	Programme 12								Programme 16							
d_d [mm]	XPZ		XPA		XPB		XPC		ZX/10X		AX/13X		BX/17X		CX/22X	
	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]
40									4	6						
45									5	7						
50	8	11							6	8	3	7				
56	10	13							6	8	6	10				
63	11	16	8	14					7	9	7	11				
71	13	18	12	18					7	10	10	14				
80	14	19	15	21					8	10	12	16	9	15		
90	16	21	18	25					8	11	14	19	13	19		
100	17	22	21	28	19	28			8	11	15	20	16	22		
112	17	23	23	31	25	34			9	11	17	22	19	25		
125	18	24	25	33	29	39			9	12	18	24	21	29		
140	19	25	27	36	34	45			9	12	19	25	24	32	24	34
160	20	26	28	38	38	51	43	58			20	27	26	35	30	40
180	20	27	30	40	42	56	51	68			21	28	28	37	34	45
200			31	41	45	60	57	76					30	39	38	50
224			32	43	48	63	64	84					31	41	41	54
250					50	66	69	91					32	43	44	58
280					52	69	75	98					34	44	47	61
315					54	71	80	104							49	64
355					57	74	84	109							52	66
400							89	114							54	69
450							94	119							57	71
500							98	122							59	73
560							102	126								

Table 20 Deflection force K [N]

Datum-diameter of smaller pulley	Programme 15, 20															
d_d [mm]	Z/10		A/13		B/17		20		C/22		25		32-D/32		E/40	
	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]	K_{min} [N]	K_{max} [N]
50	4	6														
56	5	6														
63	5	7	4	8												
71	6	8	7	11												
80	7	9	9	13												
90	7	9	11	16												
100	7	10	13	18	10	16										
112	8	10	15	20	13	19										
125	8	11	16	22	16	23										
140	8	11	17	23	19	26	18	26								
160	8	11	19	25	22	29	22	30	21	31						
180	9	11	20	26	24	32	26	34	27	37						
200			21	27	26	35	28	37	31	41						
224			21	28	28	37	31	40	36	46	35	48				
250					29	39	33	43	39	51	40	54				
280					31	40	35	45	43	55	46	60	53	72		
315					32	42	37	47	46	59	50	66	62	81		
355					34	43	39	49	49	62	55	72	70	91		
400							41	51	52	65	59	77	78	100		
450							42	54	54	70	62	81	85	108	86	113
500							43	55	56	72	66	84	90	114	97	125
560									58	74	69	87	96	121	108	138
630											71	92	101	129	119	150
710											74	95	105	134	129	161
800											76	97	110	139	139	171

Maintenance
In addition to checking the belt tension, regular checks should be made to ensure that the drive is not soiled with oil or dirt and that the V-belts and pulleys are not damaged.

The V-belts can be cleaned with a mixture of glycerol and alcohol at the ratio of 1:10.
Never use strong degreasing agents such as petrol, turpentine, diluents etc.

Belt dressing, regardless of its nature, must not be used.

Replacement
If a V-belt in a belt set is damaged, the entire belt set must be replaced.

A belt set must not consist of different belt makes.

Influence of heat
High temperatures are damaging and will reduce belt life. Sealed shields and other objects which prevent free circulation of air should therefore be avoided.

If the driven unit radiates strong heat, the belts should be protected with shielding.

Storage of V-belts
If stored as per the instructions, V-belts can be stored for several years without any noticeable influence on their features.

Storage on shelves is the best and least space demanding method.

If suspended, the peg diameter must be at least 12 × the belt height. Consequently, never use ordinary steel hooks, nails or similar objects.

Storage conditions
The temperature in the storage room should be 10 - 25°C, and the relative humidity must not exceed 65%.

Direct sunlight on V-belts and sources of heat near the belts must be avoided.

V-belts should not be stored near chemicals, oil and grease, acids and other substances which degrade rubber and textiles.

TERMINOLOGY

Standardised terms are used for describing a drive with V-belts; the most common ones will be described in this section.

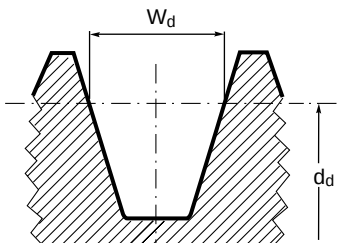
DATUM SYSTEM
The ISO 1081-1980 standard describes two systems for defining pulleys and V-belts: datum and effective.

This means that three concepts are now being used for describing drives with V-belts: datum and effective as well as the traditional term, pitch, but pitch is used only for calculating the speed ratio and the belt speed of the drive.

The DATUM/EFFECTIVE systems can be defined as systems that provide an unequivocal, unvarying identification, whereas PITCH is variable, depending on the design of the V-belt. For this very reason, the more recent belt designs have generated a need for an identification system other than pitch.

The grooves and diameters of pulleys as well as V-belt lengths have been determined unequivocally with the introduction of the datum/effective systems.

DATUM SYSTEM
The groove of a pulley is identified by its datum width W_d, which is independent of the groove angle.



The pulley diameter is termed the datum-diameter d_d and is measured by the groove width W_d.

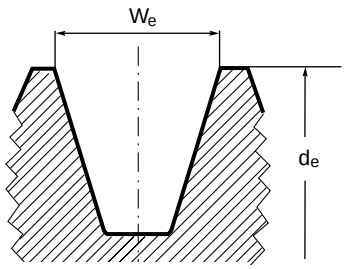
The V-belt length is defined as the datum length L_d and is measured as shown in the following point concerning V-belt length.

ISO has determined that the datum groove width W_d of pulleys shall be identical with the formerly standardised pitch groove widths.

In practice, this means that the pitch-diameter d_p of the pulleys is now termed datum-diameter d_d and that the pitch length L_p of the V-belts is changed into a datum belt length L_d.

EFFECTIVE SYSTEM

Under this system, a pulley groove width W_e is defined by the measurement shown in the illustration below.

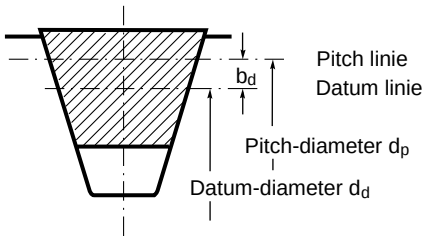


The pulley diameter is termed effective outside diameter d_e, or just effective-diameter.

The V-belt length is defined as effective belt length L_e and is measured as shown in the following points concerning V-belt length.

PITCH SYSTEM

This definition is used for calculating the exact speed ratio and belt speed of a drive, since these values are determined by the placement of the V-belt section pitch line in the pulley groove. See the following points concerning V-belt section.



The distance b_d is therefore variable and is included as a correction supplement when determining the pitch-diameter d_p of the pulley.

The calculation of the speed ratio i and the belt speed v is therefore as follows:

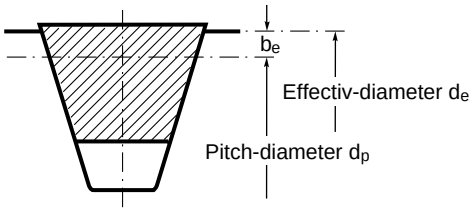
$$i = \frac{D_d + 2b_d}{d_d + 2b_d} = \frac{D_p}{d_p}$$

see point 3, page 7

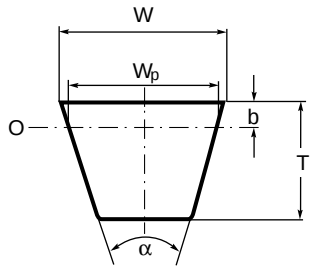
$$v = \frac{(d_d + 2b_d) \times n_1}{19100} = \frac{d_p \times n_1}{19100} \quad [m/s]$$

see point 8, page 7

Under the effective system, the pitch-diameter is calculated as follows: $d_p = d_e - 2b_e$ [mm]

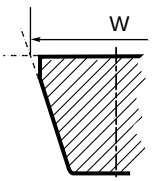


BELT SECTION



0 Pitch zone
Tensile and compressive stresses occur in the cross section of the profile during the bending of the belt in the pulley groove.
These stresses will decrease to “0” (zero) in the line that is termed NEUTRAL AXIS, PITCH ZONE or PITCH.

W Top width
As regards sections with bevelled corners, the top width is determined on the basis of the point of intersection of the extended lines.



W_p Pitch width

T Section height

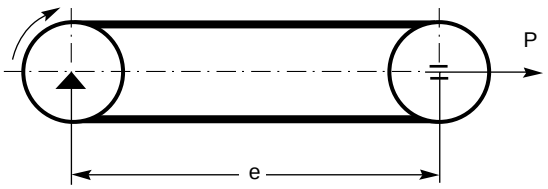
b Pitch placement
is the distance from the top line of the profile to the pitch zone.

α Profile angle
For standard V-belts α = 38 - 40°

V-BELT LENGTH

The V-belt length is defined in different ways in the standards but it is measured according to specified methods in all cases.

The measuring machine consists of two pulleys with the same datum-diameter, effective-diameter or two plane pulleys. The measurement load on the moving pulley depends on the belt section.



P = Measurement load
e = Centre distance

Datum belt length L_d [mm]

is measured over pulleys with datum-diameter d_d [mm].

$L_d = 2 \times e + d_d \times \pi$ [mm]

The ISO term datum length L_d [mm] is identical with the previously used pitch belt length L_p [mm].

Effective belt length L_e [mm]

The effective-diameter of the pulleys, d_e [mm], is used for calculating the belt length.

$L_e = 2 \times e + d_e \times \pi$ [mm].

Outside belt length L_a [mm]

The physical outside length of the V-belt is measured with a measuring tape on the outside of the belt while the belt is installed in the measuring machine.

Inside belt length L_i [mm]

is measured over two plane pulleys with the diameter d [mm], centre distance e [mm], is calculated as follows:

$L_i = 2 \times e + d \times \pi$ [mm]

Mean belt length L_m [mm]

occurs in connection with double V-belts, and for all practical purposes it may be said to be ≈ effective belt length.

$L_m \approx L_e$ [mm].

The programmes on ROFLEX V-belts and the dimension tables page 41 - 43 include informations regards the supplements and reductions to be applied when making an approximate calculation of a belt length specification other than the one listed, e.g. conversion from datum length L_d [mm] to inside length L_i [mm].

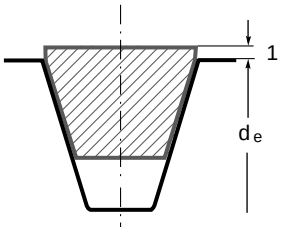
V-BELT IN PULLEY GROOVE

The placement of a V-belt section in the groove of the standard pulley designed for it is described with the term “Ride”. This is the distance from the top of the section to the outside diameter d_e of the pulley.

The permissible maximum/minimum distance/ride is specified in standards.

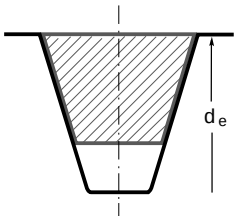
RIDE OUT

Distance (1) from the top of the V-belt section to the outside diameter d_e of the pulley.



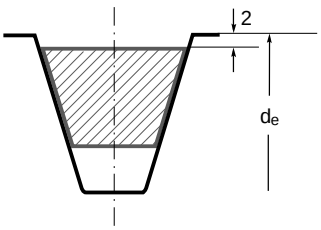
RIDE 0/RIDE FLUSH

The top of the V-belt section is flush with the outside diameter d_e of the pulley.



RIDE IN

Distance (2) from the top of the V-belt section to the outside diameter d_e of the pulley.



DIMENSION TABLES

In those programmes where several standards are listed, there may be minor differences in the dimension specification.

The designation “X” for V-belts of the raw-edge design has not been introduced in all standards.
Summary of standards, see page 57.

Section designation	Section dimension W × T [mm] ~	Datum width W_d [mm]	Datum belt length $L_d = L_e - [mm]$	Datum belt length $L_d = L_i + [mm]$	Outside belt length $L_a = L_d + [mm]$	Effective belt length $L_e = L_d + [mm]$	Inside belt length $L_i = L_d - [mm]$	Inside belt length $L_i = L_e - [mm]$	Min. pulley datum-diameter d_d [mm]	Min. pulley effective-diameter d_e [mm]	Recom. max. belt speed v [m/s]	Max. deflection freq. f [Hz]	Weight [kg/m] ~

ROFLEX RE-X NARROW V-BELTS ISO 4184, BS 3790, DIN 7753/1 — PROGRAMME 10

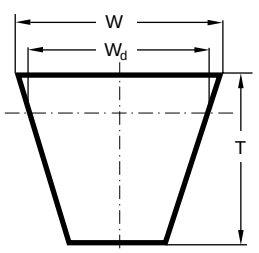
XPZ	9,7 × 8	8,5			13				50		50	120	0,065
XPA	12,7 × 9	11			18				63				0,105
XPB	16,3 × 13	14			22				100				0,190
XPC	22 × 18	19			30				160				0,325

ROFLEX NARROW V-BELTS ISO 4184, BS 3790, DIN 7753/1, RMA-MPTA IP-22 — PROGRAMME

SPZ	9,7 × 8	8,5		37	13		37		63		42	100	0,065
SPA	12,7 × 10	11		45	18		45		90				0,115
SPB	16,3 × 13	14		60	22		60		140				0,200
SPC	22 × 18	19		83	30		83		224				0,350
S19	18,6 × 15	16		69	25		69		180				0,275
3V/9N	9 × 8		4			4				67			
5V/15N	15 × 13		11			11				180			
8V/25N	25 × 23		16			16				315			0,520

ROFLEX-X NARROW V-BELTS ISO 4184, BS 3790, DIN 7753/1 — PROGRAMME 12

XPZ	9,7 × 8	8,5			13				50		50	120	0,060
XPA	12,7 × 9	11			18				63				0,100
XPB	16,3 × 13	14			22				100				0,180
XPC	22 × 18	19			30				160				0,320



Section designation	Section dimension W × T [mm] –	Datum width W_d [mm]	Datum belt length $L_d = L_e$ – [mm]	Datum belt length $L_d = L_i$ + [mm]	Outside belt length $L_a = L_i$ + [mm]	Effective belt length $L_e = L_d$ + [mm]	Inside belt length $L_i = L_d$ – [mm]	Inside belt length $L_i = L_e$ – [mm]	Minimum pulley datum-diameter d_d	Min. pulley effective-diameter d_e [mm]	Recom. max. belt speed v [m/s]	Max. deflection freq. f [Hz]	Weight [kg/m] –

ROFLEX CLASSICAL V-BELTS ISO 4184, BS 3790, DIN 2215, ANSI/RMA IP-20 PROGRAMME 15

8	8 × 5	6,7		19	31		19		40		30	70	0,040
Z/ 10	10 × 6	8,5		22	38		22		50				0,058
A/13	13 × 8	11		30	50		30		63				0,104
B/17	17 × 11	14		43	66		43		100				0,172
20	20 × 12,5	17		48	79		48		140				0,239
C/22	22 × 14	19		65	85		65		160				0,282
25	25 × 16	21		61	101		61		224				0,366
D/32	32 × 20	27		69	126		69		280				0,591
E/40	40 × 25	32		84	157		84		450				0,958

ROFLEX-X CLASSICAL V-BELTS ISO 4184, BS 3790, DIN 2215 PROGRAMME 16

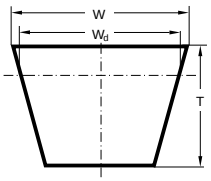
ZX/10X	10 × 6	8,5		22	38		22		40		50	120	0,055
AX/13X	13 × 8	11		30	50		30		50				0,080
BX/17X	17 × 11	14		43	66		43		80				0,165
CX/22X	22 × 14	19		65	85		65		140				0,250

ROFLEX RE-X CLASSICAL V-BELTS ISO 4184, BS 3790, DIN 2215 PROGRAMME 17

ZX/10X	10 × 6	8,5		22	38		22		40		50	120	0,060
AX/13X	13 × 8	11		30	50		30		50				0,090
BX/17X	17 × 11	14		43	66		43		80				0,180
CX/22X	22 × 14	19		65	85		65		140				0,255

ROFLEX CLASSICAL V-BELTS ISO 4184, BS 3790, DIN 2215, ASAE S 211.4 PROGRAMME 20

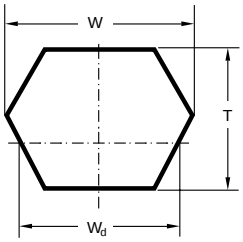
A/13	13 × 8	11		30	50		30	46	63		30	60	0,104
B/17	17 × 11	14		43	66		43	65	100				0,172
20	20 × 12,5	17		48	79		48		140				0,239
C/22	22 × 14	19		65	85		65	99	160				0,282
25	25 × 16	21		61	101		61		224				0,366
32	32 × 16	27		50	101		50	101	250				0,519
D/32	32 × 20	27		69	126		69	120	280				0,591



Section designation	Section dimension W × T [mm] ~	Datum width W_d [mm]	Datum belt length $L_d = L_e$ – [mm]	Datum belt length $L_d = L_i$ + [mm]	Outside belt length $L_a = L_i$ + [mm]	Effective belt length $L_e = L_d$ + [mm]	Inside belt length $L_i = L_d$ – [mm]	Inside belt length $L_i = L_e$ – [mm]	Min. pulley datum-diameter d_d [mm]	Min. pulley effective-diameter d_e [mm]	Recom. max. belt speed v [m/s]	Max. deflection freq. f [Hz]	Weight [kg/m] ~

ROFLEX DOUBLE V-BELTS DIN 7772, ASAE S 211.4 PROGRAMME 21

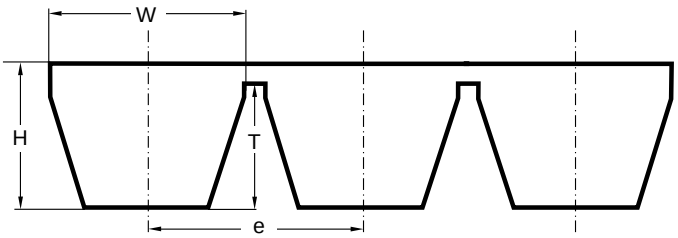
HAA/AA	13 × 10	11	21		63	21		31		80	30	60	0,140
HBB/BB	17 × 13	14	26		82	26		41		112			0,244
HCC/CC	22 × 17	19	36		107	36		53		200			0,409
25	25 × 22	21	40		138	40		69		280			0,590
HDD/DD	32 × 25	27	51		157	51		79		355			0,878



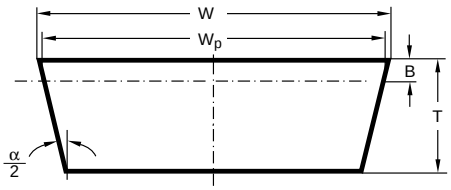
Section designation	Section dimension W × T [mm] ~	Total height H [mm] ~	Section spacing e [mm]	Datum belt length $L_d = L_e$ – [mm]	Outside belt length $L_a = L_i$ + [mm]	Effective belt length $L_e = L_a$ - [mm]	Inside belt length $L_i = L_d$ – [mm]	Inside belt length $L_i = L_e$ – [mm]	Min. pulley datum-diameter d_d [mm]	Min. pulley effective-diameter d_e [mm]	Recom. max. belt speed v [m/s]	Max. deflection freq. f [Hz]	Weight per section [kg/m] ~

ROFLEX JOINED V-BELTS ANSI/RMA IP-20, RMA/MPTA IP-22, ASAE S 211.4 PROGRAMM 23

HA/A	13 × 8	10	15,88	9	64	32		32		80	30	60	0,154
HB/B	17 × 11	13	19,05	13	80	29		51		130			0,237
HC/C	22 × 14	17	25,4	18	100	32		68		210			0,406
HD/D	32 × 19	22	36,53	28	130	36		94		370			0,750
3V/9J	9 × 8	10	10,3		66	28		38		67			0,095
5V/15J	15 × 13	16	17,5		100	29		71		180			0,250
8V/25J	25 × 23	26	28,6		157	32		125		315			0,637

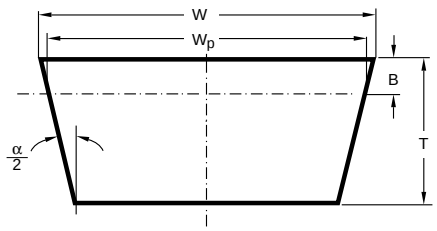


Section designation		W16	W20	W25	W31,5	W40	W50	W63	W71	W80	W100
Top width	W [mm] ~	17	21	26	33	42	52	65	74	83	104
Pitch width	W_p [mm]	16	20	25	31.5	40	50	63	71	80	100
Section height	T [mm] ~	6	7	8	10	13	16	20	23	26	32
Pitch zone	B [mm] ~	1.5	1.75	2	2.5	3.25	4	5	5.75	6.5	8
Section angle	α [°] ~	26	28	28	28	28	30	30	30	32	32

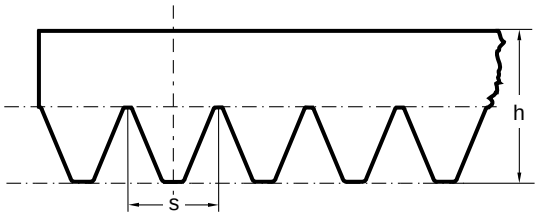


Section designation		1422V	1922V	2322V	1926V	2926V	3226V	2530V	3230V	4430V	4036V	4436V	4836V
		22V A22	30V A22	37V A22	30V A26	46V A26	51V A26	40V A30	51V A30	70V A30	64V A36	70V A36	76V A36
Top width	W [mm] ~	22	30	37	30	46	51	40	51	70	64	70	76
Section height	T [mm] ~	8	10	11	11	13	13	15	16	18	18	18	19
Section angle	α [°] ~	24	24	24	28	28	28	32	32	32	38	38	38

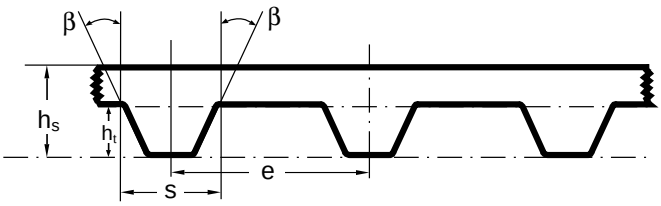
Section designation		HG	HH	HI	HJ	HK	HL	HM	HN	HO
Top width	W [mm] ~	16.5	20.4	25.4	31.8	38.1	44.5	50.8	57.2	63.5
Pitch width	W_p [mm]	15.4	19	23.6	29.6	35.5	41.4	47.3	53.2	59.1
Section height	T [mm] ~	8	10	12.7	15.1	17.5	19.8	22.2	23.9	25.4
Pitch zone	B [mm] ~	2.5	3	3.8	4.7	5.7	6.6	7.6	8.5	9.5
Section angle	α [°] ~	28	28	28	28	28	28	28	28	28



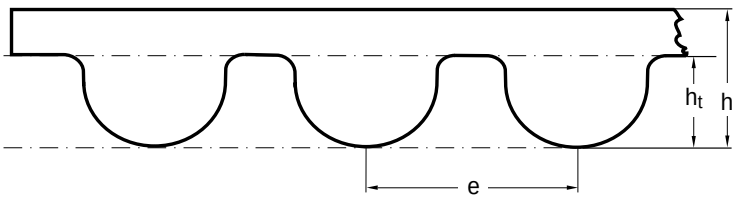
Section designation		PH	PJ	PK	PL	PM				
		H	J	K	L	M				
Rib spacing	s [mm]	1.60	2.34	3.56	4.70	9.40				
Belt height	h [mm] ~	3	4	6	10	17				
Minimum pulley diameter	d_e [mm]	13	20	45	75	180				



Section designation		MXL	XXL	XL	L	H	XH	XXH
Circular pitch	e [mm]	2.032	3.175	5.080	9.525	12.700	22.225	31.750
Tooth width	s [mm]	1.14	1.73	2.57	4.65	6.12	12.57	19.05
Tooth height	h_t [mm]	0.51	0.76	1.27	1.91	2.29	6.35	9.53
Tooth angle	2β [°]	40	50	50	40	40	40	40
Belt height	h_s [mm] ~	1.14	1.52	2.3	3.6	4.3	11.2	15.7



Section designation		3M	5M	8M	14M	20M		
Circular pitch	e [mm]	3.0	5.0	8.0	14.0	20.0		
Tooth height	h_t [mm]	1.2	2.1	3.4	6.1	8.4		
Belt height	h [mm] ~	2.4	3.8	5.6	10.0	13.2		



PULLEYS - GROOVE DIMENSIONS

For further information, please refer to the standards ISO 4183, BS 3790, DIN 2211/1, DIN 2217/1.
Summary of standards, see page 57.

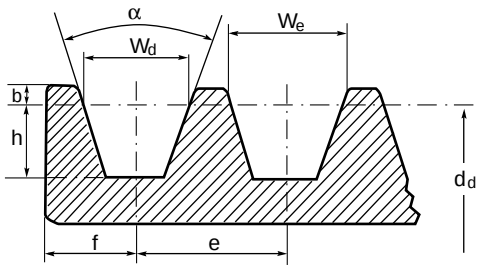
Narrow V-belts:
Programmes 10, 11 and 12

Classical V-belts:
Programmes 15, 16, 17, 20, 21 and 30

Table 21

Classical V-belts sections		Y 6	8	Z ZX 10	A AX 13	B BX 17		20	C CX 22	25	D 32	E 40
Narrow V-belt sections				SPZ XPZ	SPA XPA	SPB XPB	S19		SPC XPC			
W_d		5,3	6,7	8,5	11	14	16	17	19	21	27	32
W_e		6,3	8	9,7	12,7	16,3	18,6	20	22	25	32	40
b min.		1,6	2	2	2,75	3,5	4	5,1	4,8	6,3	8,1	9,6
h min.		4,7	7	9	11	14	16	13	19	16	19,9	23,4
e		8 ± 0,3	10 ± 0,3	12 ± 0,3	15 ± 0,3	19 ± 0,4	22 ± 0,4	23 ± 0,4	25,5±0,5	29 ± 0,5	37 ± 0,6	44,5±0,7
f		7 ± 1	7 ± 1	8 ± 1	10^{+2}_{-1}	$12{,}5^{+2}_{-1}$	$14{,}5^{+2}_{-1}$	15^{+2}_{-1}	17^{+2}_{-1}	19^{+2}_{-1}	24^{+3}_{-1}	29^{+4}_{-1}
α 32°	At datum-diameter d_d [mm]	≤ 63	≤ 71									
α 34°				≤ 80	≤ 118	≤ 190	≤ 250	≤ 250	≤ 315	≤ 355		
α 36°		> 63	> 71								≤ 500	≤ 600
α 38°				> 80	> 118	> 190	> 250	> 250	> 315	> 355	> 500	> 600

Total width B [mm] of pulley with × number of grooves: B = (x-1)e + 2f [mm]



DEEP - GROOVE PULLEYS - GROOVE DIMENSIONS

Table 22 lists the groove dimensions which are commonly used.
For further information, please refer to ANSI/RMA IP-20 and ASAE S 211.4

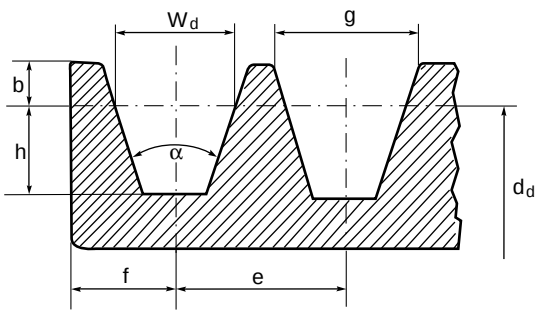
Narrow V-belts:
Programmes 10, 11 and 12

Classical V-belts:
Programmes 15, 16, 17, 20, 21 and 30

Table 22

Classical V-belt sections		**Z ZX**	**A AX**	**B BX**		**C CX**
		10	**13**	**17**		**22**
Narrow V-belt sections		**SPZ XPZ**	**SPA XPA**	**SPB XPB**	**S19**	**SPC XPC**
W_d		8.5	11	14	16	19
g ~	**α = 34°**	11	15	18.9	22.1	26.3
	α = 38°	11.3	15.4	19.5	22.9	27.3
b min.		4	6.5	8	10	12
h min.		9	11.5	14.5	16	19.5
e		14 ± 0.3	18 ± 0.3	23 ± 0.4	27 ± 0.5	31 ± 0.5
f		9 ± 0.6	11.5 ± 0.6	14.5 ± 0.8	17 ± 1	20 ± 1
α 34°	**At datum-diameter d_d [mm]**	80	118	190	250	315
α 38°		> 80	> 118	> 190	> 250	> 315

Total width B [mm] of pulley with × number of grooves: B = (x-1)e + 2f [mm]



PULLEYS - GROOVE DIMENSIONS

For further information, please refer to the standards RMA/MPTA IP-22 and ASAE S 211.4

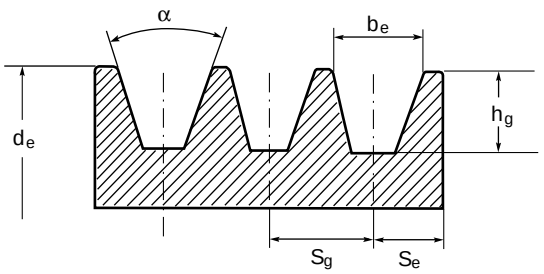
Narrow V-belts:
Programmes 10, 11 and 12

3V ≈ SPZ 3VX ≈ XPZ
5V ≈ SPB 5VX ≈ XPB

Table 23

Groove profile	d_e [mm]	α°	b_e	h_g min.	S_g	S_e min.	Groove profile ISO
3V	**≤ 90** **> 90 – ≤ 150** **> 150 – ≤ 305** **> 305**	36 38 40 42	8,89	8,6	10,3	9,0	9N
5V	**≤ 255** **> 255 – ≤ 405** **> 405**	38 40 42	15,24	15,0	17,5	13,0	15N
8V	**≤ 405** **> 405 – ≤ 570** **> 570**	38 40 42	25,4	25,1	28,6	19,0	25N

Total width B [mm] of pulley with × number of grooves: $B = (x-1)\ S_g + 2\ S_e$ [mm]



JOINED V-BELT PULLEYS - GROOVE DIMENSIONS

For further information, see the standards ISO 5290, ISO 5291, ASAE S 211.4, ANSI/RMA IP-20 and RMA/MPTA IP-22

Joined V-belts: Programme 23

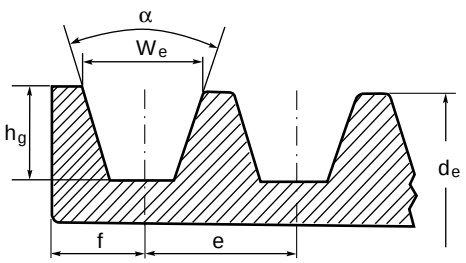
Table 24 Standard ISO 5291

Groove profile	d_e [mm]	α°	w_e	h_g min.	e	f min.	Groove profile ISO
HA/A	**≤ 125** **> 125**	34 38	13	12	15,88	9	AJ
HB/B	**≤ 195** **> 195**	34 38	16,5	14	19,05	11,5	BJ
HC/C	**≤ 325** **> 325**	34 38	22,4	19	25,40	16	CJ
HD/D	**≤ 490** **> 490**	36 38	32,8	26	36,53	23	DJ

Table 25 Standard ISO 5290

Groove profile	d_e [mm]	α°	w_e	h_g min.	e	f min.	Groove profile ISO
3V	**≤ 90** **> 90 – ≤ 150** **> 150 – ≤ 300** **> 300**	36 38 40 42	8,9	8,9	10,3	9,0	9J
5V	**≤ 250** **> 250 – ≤ 400** **> 400**	38 40 42	15,2	15,2	17,5	13,0	15J
8V	**≤ 400** **> 400 – ≤ 560** **> 560**	38 40 42	25,4	25,4	28,6	19,0	25J

Total width of pulley with × number of grooves: B = (x-1)e + 2 × f [mm]



DRIVES WITH FLAT BELTS

ROULUNDS standard flat belt types are described in programme 50, PRODUCT SPECIFICATIONS, and in the following calculation procedure their power rating is listed in tables 3 and 4, page 52. The belt type to be used for the drive in question is selected on the basis of this.

CALCULATION

Terms and units used.

B	Width of pulley	[mm]
b	Belt width	[mm]
C	Centre distance	[mm]
c_1	Service factor	
c_2	Arc of contact correction factor	
D	Diameter of larger pulley	[mm]
d	Diameter of smaller pulley	[mm]
h	Crown of camber on pulley face	[mm]
i	Speed ratio	
L_i	Inside belt length	[mm]
n_1	Number of revolutions of smaller pulley	[rev/min]
n_2	Number of revolutions of larger pulley	[rev/min]
P_M	Power consumption	[kW]
P_N	Power rating per 10 mm belt width	[kW]
v	Belt speed	[m/s]
x	Adjustment of centre distance for take-up allowance	[mm]
y	Adjustment of centre distance for installation	[mm]
β	Arc of contact on smaller pulley	[°]

1. Service factor c_1

Table 1, page 51.

The power rating tables are based on the maximum permissible tension in the applicable belt types at the stated pulley diameter and rev/min. It is therefore important that calculation is carried out with a service factor that makes allowance for the operating conditions of the driven unit, e.g. overloading when started, shock loads etc.

2. Belt type

To be selected according to application, see programme 50.

3. Speed ratio i

is the ratio of the rev/min of the smaller to that of the larger pulley

$$i = \frac{n_1}{n_2}$$

or the ratio of the diameter of the larger to that of the smaller pulley.

$$i = \frac{D}{d}$$

4. Pulley diameter

The diameter of the smaller pulley d [mm] is selected from the power rating table for the selected belt type, tables 3-4 page 52.

The diameter of the larger pulley D [mm] is calculated as follows:

$D = d \times i$ [mm]

Tension idlers, see point 13, page 53.

5. Centre distance C [mm]

C may be determined on the basis of the applicable conditions or it may be chosen to be 2 × the diameter of the larger pulley D [mm].

For installation and take-up allowance, see point 11, page 53.

6. Belt length L_i [mm]

The inside belt length is calculated as follows:

$$L_i = 2 \times C + 1{,}57\ (D + d) + \frac{(D - d)^2}{4 \times C} \quad [mm]$$

C = Centre distance [mm]
D = Diameter of larger pulley [mm]
d = Diameter of smaller pulley [mm]

For further detail, see point 14, page 53

7. Belt speed v [m/s]

$$v = \frac{d \times n_1}{19100} \text{ [m/s]}$$

d = Diameter of smaller pulley [mm]
n_1 = Rev/min of smaller pulley

The recommended maximum belt speed is listed in the power rating table for the selected belt type.

8. Arc of contact correction factor c_2
Table 2, page 52

In drives with more than two pulleys, the arc of contact is calculated according to drawing.

9. Power rating P_N [kW]
The power rating per 10 mm belt width is determined from the table for the selected belt type, tables 3-4, page 52.

For further detail, see point 14 for fully- and semi-turned drives.

10. Necessary belt width b [mm]

$$b = \frac{P_M \times c_1 \times 10}{P_N \times c_2} \text{ [mm]}$$

P_M = Power consumption of driven unit in kW or rated kW of motor.

P_N = Power rating [kW] per 10 mm belt width, tables 3-4.

c_1 = Service factor, table 1

c_2 = Arc of contact correction factor, table 2.

The belt width b [mm] is rounded up to the closest standard width, see table 5, page 53.

Table 1 Service factor c_1

Driven unit	Driving unit/motor					
	AC motors, single- and three-phase with star-delta start. DC shunt-wound motors. Multiple cylinder internal combustion engines.			AC motors, single- and three-phase, series wound, slip-ring motors with direct start. DC motors, series and compound wound. Single cylinder internal combustion engines.		
	Number of operating hours per 24 hours			Number of operating hours per 24 hours		
	Up to 10	Over 10 to16	Over 16	Up to 10	Over 10 to16	Over 16
Agitators for liquids. Small centrifugal blowers. Fans up to 7.5 kW. Light-duty conveyors.	1.0	1.1	1.2	1.1	1.2	1.3
Belt conveyors for sand, grain, etc. Dough mixers. Fans over 7.5 kW. Generators. Washing machines. Machine tools. Punching, pressing and shearing machines. Printing machines. Positive displacement rotary pumps. Vibrating and rotary screens.	1.1	1.2	1.3	1.2	1.3	1.4
Brick-making machinery. Bucket elevator. Piston compressors. Screw conveyors. Hammer mills. Hollanders. Piston pumps. Positive displacement blowers. Crushers. Woodworking machinery. Textile machinery.	1.2	1.3	1.4	1.4	1.5	1.6

Table 2 Arc of contact correction factor c_2

$\frac{D-d}{C}$	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70
Arc of contact β [°]	180	174	169	163	157	151	145	139
C_2	1.00	0.98	0.96	0.93	0.91	0.88	0.86	0.82
$\frac{D-d}{C}$	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
Arc of contact β [°]	133	127	120	113	106	99	91	83
C_2	0.80	0.78	0.74	0.71	0.66	0.64	0.59	0.54

Table 3 Power rating P_N [kW] per 10 mm belt width

DANCORD

	d [mm]	Number of revolutions of smaller pulley [rev/min]																	
		200	400	720	800	920	1200	1450	1600	2000	2400	2800	3200	3600	4000	4500	5000	5500	6000
DANCORD M	80	0.07	0.18	0.26	0.29	0.35	0.49	0.56	0.60	0.74	0.88	0.95	1.01	1.10	1.18	1.19	1.23	1.23	1.12
	100	0.11	0.26	0.49	0.57	0.73	0.82	0.96	1.01	1.23	1.38	1.51	1.60	1.72	1.80	1.80	1.78	1.76	1.71
	125	0.18	0.44	0.78	0.89	0.98	1.18	1.34	1.43	1.67	1.89	2.03	2.16	2.60	2.29	2.29	2.21	2.03	1.93
	160	0.29	0.60	1.07	1.21	1.38	1.60	1.82	1.94	2.23	2.46	2.63	2.69	2.71	2.57	2.27	1.96		
	200	0.44	0.82	1.43	1.58	1.87	2.14	2.45	2.60	2.94	3.18	3.35	3.23	3.03	2.71	2.02			
	250	0.53	1.01	1.95	2.13	2.40	2.76	3.10	3.23	3.56	3.74	3.57	3.21	2.57					
	315	0.71	1.37	2.36	2.54	2.90	3.36	3.68	3.83	3.96	3.71	2.99							
	400	0.89	1.71	2.94	3.17	3.51	2.92	4.16	4.16	3.71									
DANCORD G	160	0.37	0.66	1.18	1.26	1.43	1.71	1.95	2.06	2.36	2.61	2.71	2.78	2.80	2.61	2.21	1.64		
	200	0.55	1.03	1.66	1.81	2.08	2.43	2.76	2.93	3.31	3.53	3.68	3.59	3.21	2.82	2.02			
	250	0.74	1.40	2.28	2.46	2.76	3.24	3.69	3.85	4.23	4.40	4.19	3.71	2.93					
	315	0.92	1.76	2.93	3.20	3.55	4.10	4.49	4.66	4.90	4.67	4.45							
	400	1.18	2.27	3.75	4.04	4.50	5.07	5.38	5.38	4.96									
	630	1.79	3.49	5.16	5.38	5.67	5.49	4.49											
DANCORD H	250	0.26	1.20	1.88	2.03	2.28	2.43	2.29	2.04	1.89									
	400	1.01	1.91	3.01	3.24	3.65	3.88	3.68											
	500	1.45	2.78	4.32	4.54	4.94	4.90												
	630	2.09	3.74	5.46	5.68	5.77	4.95												
	700	2.40	4.32	6.13	6.30	6.25	4.61												
	800	2.74	4.96	6.62	6.82	6.32													
	900	3.07	5.59	6.79	6.53	5.30													
					v > approx. 40 m/s														

Recommended maximum belt speed 40 m/s

Table 4 Power rating P_N [kW] per 10 mm belt width

STARKODDER

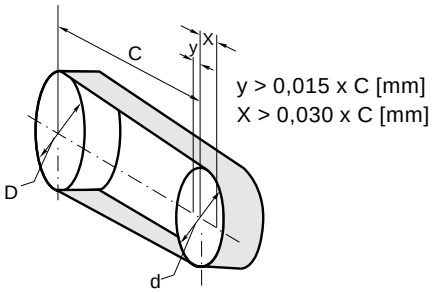
	d [mm]	Number of revolutions of smaller pulley [rev/min]														
		200	400	720	800	920	1200	1450	1600	2000	2400	2800	3200	3600	4000	4500
3 plies	80	0.04	0.09	0.21	0.23	0.26	0.32	0.38	0.41	0.52	0.63	0.71	0.78	0.85	0.91	1.02
	100	0.06	0.15	0.28	0.31	0.37	0.44	0.56	0.60	0.76	0.90	1.00	1.13	1.21	1.31	
	125	0.12	0.22	0.37	0.43	0.51	0.65	0.78	0.87	1.04	1.22	1.41	1.50	1.59	1.69	
	160	0.16	0.31	0.54	0.62	0.74	0.88	1.07	1.18	1.47	1.62	1.74	1.87	1.99		
	200	0.19	0.41	0.74	0.87	0.97	1.17	1.43	1.52	1.79	1.95	2.13				
	250	0.29	0.55	0.94	1.06	1.17	1.29	1.51	1.76	1.90	2.13	2.26				
4 plies	125	0.13	0.18	0.40	0.53	0.57	0.65	0.87	0.99	1.25	1.31	1.38	1.45	1.57		
	160	0.18	0.33	0.59	0.68	0.81	0.96	1.20	1.31	1.54	1.71	1.91				
	200	0.26	0.48	0.81	0.92	1.10	1.36	1.58	1.69	1.97	2.24					
	250	0.35	0.53	1.19	1.26	1.47	1.64	2.06	2.19	2.49						
	315	0.46	0.85	1.51	1.67	1.97	2.32	2.57	2.72							
	400	0.61	1.14	1.97	2.15	2.43	2.82	3.01								
5 plies	160	0.18	0.37	0.62	0.74	0.84	0.96	1.07	1.18	1.46	1.63	1.87				
	200	0.26	0.53	0.93	1.02	1.25	1.50	1.76	1.91	2.18	2.40					
	250	0.39	0.71	1.31	1.45	1.67	2.02	2.36	2.49	2.80						
	315	0.51	0.98	1.74	1.93	2.23	2.69	2.97	3.17							
	400	0.74	1.38	2.32	2.51	2.90	3.29	3.54								
	500	0.96	1.76	2.90	3.14	3.51	3.83									
6 plies	200	0.29	0.56	0.96	1.06	1.24	1.50	1.74	1.89	2.16						
	250	0.41	0.74	1.38	1.49	1.74	2.14	2.47	2.65	2.88						
	315	0.56	1.12	1.88	2.09	2.44	2.90	3.31	3.41							
	400	0.79	1.54	2.59	2.84	3.24	3.71	3.97								
	500	1.06	1.96	3.28	3.53	3.82										
	630	1.38	2.62	4.07	4.38											
				v > approx. 20 m/s												

Recommended maximum belt speed 20 m/s for belts with endless joint.

Table 5 Recommended belt and pulley widths

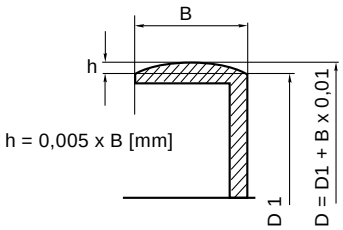
Belt width b [mm]	25	32	40	50	63	71	80	90	100	112	125	
Corresponding pulley width B [mm]	32	40	50	63	71	80	90	100	112	125	140	
Belt width b [mm]	**140**	**160**	**180**	**200**	**224**	**250**	**280**	**315**	**355**	**400**	**450**	**500**
Corresponding pulley width B [mm]	160	180	200	224	250	280	315	355	400	450	500	560

11. Installation and take-up allowance.



12. Pulley crown, camber h [mm]

To achieve optimum exploitation of the drive, the belt must be assured an even run on the pulleys. This can be achieved by giving the pulleys a smooth, crowned face with a camber h [mm] according to the sketch below.

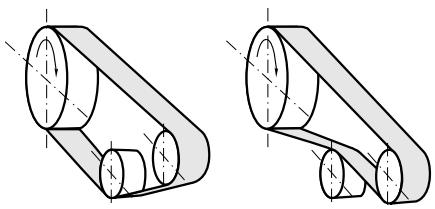


The pulleys must never be equipped with side edges/flanges.

13. Tension idlers

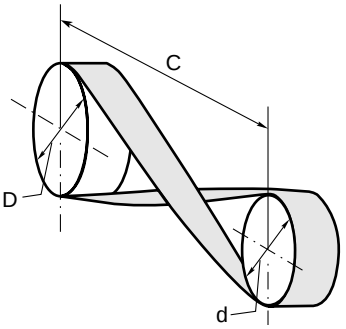
If a tension idler is used, it should have at least the same diameter as that of the smaller pulley, and it must provide the same possibilities with regard to installation and take-up allowance as those mentioned in point 11.

The tension idler should be installed against the slack part of the belt, as illustrated in the sketches below.



14. Fully- and semiturned transmissions

Fully turned transmission - 180°



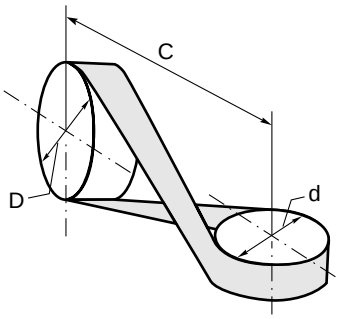
Belt length L_i [mm]

$$L_i = 2 \times C + 1{,}57\ (D + d) + \frac{(D + d)^2}{4 \times C}\ [mm]$$

Power transmission

P_N = Table value $\times$ 0,75 [kW]

Semiturned transmission - 90°



Belt lenght L_i [mm]

$$L_i = 2 \times C + 1{,}57\ (D + d) + \frac{\left(D + \frac{d}{2}\right)^2}{4 \times C}\ [mm]$$

Power transmission

P_N = Table value $\times$ 0,75 [kW]

P_N = kW per 10 mm belt width.

BELT CONSTRUCTIONS

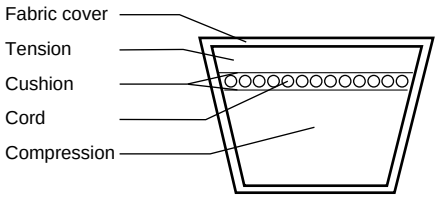
The following is a description of the basic designs used for the belt types listed in the PROGRAMME KEY.

The technical features, fields of application and data of the individual belt types, which are intended for use in the design of the drive, are listed in the DIMENSION TABLES, pages 41 - 43.

WRAPPED V-BELTS

The term “wrapped” indicates that the V-belt core is protected by one or more plies of fabric called fabric cover.

The fabric cover is of cotton or polyester, it is wear resistant and coated with rubber.



The power transmitting element in the cord zone is ordinarily polyester cord or several plies of special cord fabric. Kevlar cord is used in certain special belts.

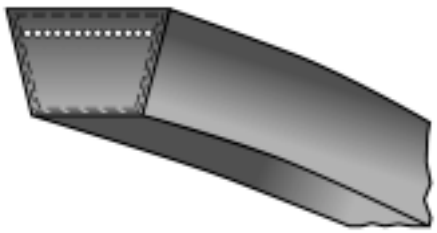
Tension, cushion and compression are rubber compounds with specific properties.

The cushion bonds the cord to the other rubber elements and absorbs shock loads.

The compression gives the belt cross section form stability and supports the cord zone against deflection while under load.

This design is used for both classical and narrow V-belts.

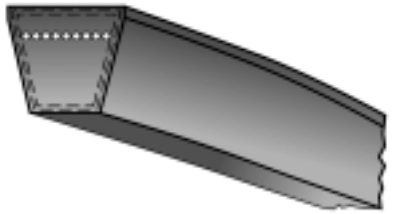
Classical V-belts
are defined in terms of dimensions in standards such as ISO 4184, DIN 2215, BS 3790, ANSI/RMA IP-20 etc., see standards summary on page 57.



The ratio of the top width to the height of the sections is approx. 1.6.

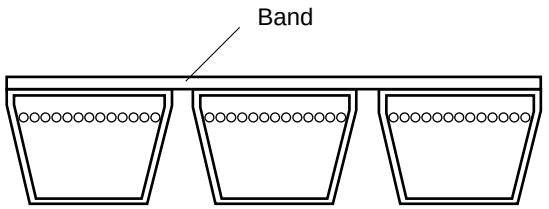
Narrow V-belts
Dimensions according to the standards ISO 4184, DIN 7753/1, BS 3790, RMA/MPTA IP-22 etc., see summary on page 57.

The top width of the section is often bevelled to facilitate adaptation to minor deviations from the standard for pulley groove dimension.



The ratio of the top width to the height of the sections is approx. 1.2. Hence the term narrow V-belts, as seen in relation to classical V-belts.

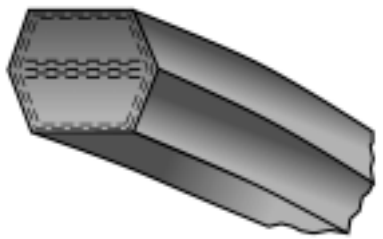
Joined V-belts
are often termed JV-belts. These consist of 2-5 standard V-belts which are joined into one unit by means of an overlaying band.



This design reduces vibrations in drives subjected to shock loads. This belt type is also used as a coupling belt, for example on combine harvesters.

Dimensions are defined in the standards ANSI/RMA IP-20, RMA/MPTA IP-22 and ASAE S 211.4, see summary on page 57.

Double V-belts
are also termed HEXAGONAL belts. The section width corresponds to the top width of the corresponding V-belt section.

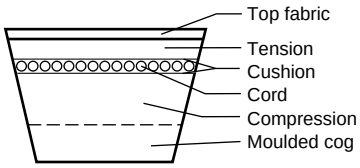


This belt type has been designed for the so-called serpentine drives with more than two pulleys and in which the direction of rotation of at least one shaft is reversed.

Standards: ISO 5289, DIN 7722, ASAE S 211.4, see summary on page 57.

RAW-EDGE V-BELTS

have no fabric cover on the sides of the belt profile. A special rubber compound ensures this belt type a greater resistance to wear than wrapped V-belts. Also, it is characteristic of raw-edge belts that they keep a constant friction level for the remainder of their life after running in.



The compression in ROFLEX raw-edge V-belts is a special rubber compound - STIFLEX - with textile fibres oriented across the belt length. This safeguards the form stability of the cross section and provides effective support for the power transmitting polyester cord.

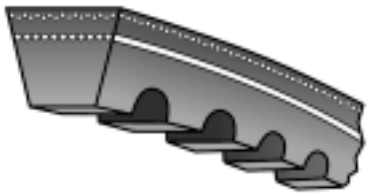
The inside moulded cog gives the belts high flexibility and a good fit in the pulley grooves as well as a low operating temperature.

This design is used for both classical and narrow V-belts.

Classical V-belts
in the raw-edge design are designated with an “X” after the ordinary section designation, for example BX.

This designation has not yet been introduced by all standards but as far as dimensions are concerned reference can be made to ISO 4184, DIN 2215, BS 3790, ANSI/RMA IP-20 etc., see summary on page 57.

Narrow V-belts
of the raw-edge type are designated by changing the SP before the section designation to XP, for example XPA.



As far as dimensions are concerned reference can be made to ISO 4184, DIN 7753/1, BS 3790, RMA/MPTA IP-22, see summary on page 57.
Some standards have not yet been updated with the new section designations.

Variable speed V-belts
for infinitely variable gears have been specially designed to achieve minimum transverse deflection of the cross section while under load and at the same time a large degree of flexibility. The belts have an inside moulded cog or double cog, i.e. both inside and outside cog.

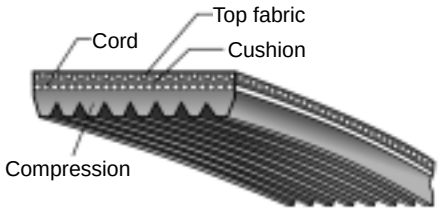
This belt type is also termed a V/S (Variable Speed) belt. It is built up of components as those described in the section on raw-edge.

As regards V/S-belts, the ratio of the top width to the height of the sections is as follows:
- Minimum 3 for industrial V/S-belts
- 2-2.5 for V/S-belts for agricultural machinery, increasing in relation to larger top widths.

The dimensions for industrial V/S-belts are defined in standards ISO 1604, DIN 7714/1, RMA/MPTA IP-25.
Belts for agricultural machinery are defined in standards ISO 3410, ASAE S 211.4.
See summary on page 57.

Multi-rib belts
are generally designed like a raw-edge V-belt in which the compression zone has V-profiles running along the length of the belt.

The relatively low belt height permits the use of small pulley diameters and high belt speed. The characteristic V-profiles with the large contact surface engaging the pulleys give a high power rating and permit high speed ratios.



See the section on raw-edge, page 116, in which the individual components are described.

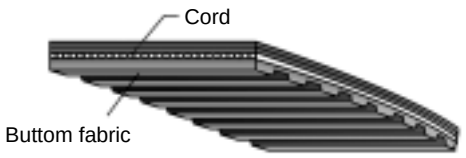
A number of profile dimensions etc. are defined in standards RMA/MPTA IP-26, DIN 7867, ASAE S211.4, see summary on page 57.

SYNCHRONOUS BELTS

This belt type is primarily used for drives demanding a fixed speed ratio and is therefore also termed “Timing Belts”.

A number of tooth profiles have been designed for a varying and diverse range of applications.

The protective fabric is ordinarily of nylon, and the tensile cords which give the belt its carrying power are often of glass or Aramid fibre, Kevlar.



Synchronous belts with both inside and outside teeth are used for drives with more than two shafts and where the direction of rotation has to be reversed.

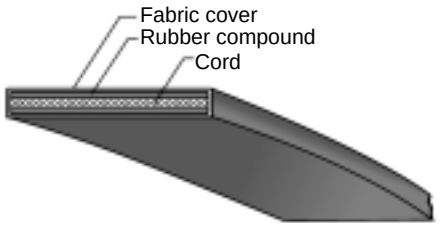
Synchronous belts are defined in standards ISO 5296, ANSI/RMA IP-24, see summary on page 57.

FLAT BELTS

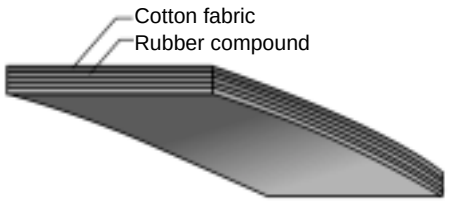
include two basic types:

- cord belts
- multi-ply textile/rubber belts.

Cord belts
are endless belts with power transmitting rayon or polyester cord in a core of a special rubber compound. The core is protected by a wear resistant fabric cover with one or two plies against the pulleys.



Textile/rubber belts
are built up of 2-6 plies of gummed cotton fabric. The special rubber compound between the individual plies ensures the adhesion ply/ply and high flexibility.



The belts are available as endless belts in specific lengths, or they can be connected at the installation site with mechanical belt connectors.

STANDARDS

No.	Subject
ASAE S 211.4	V-Belt and V-Ribbed Belt Drive for agricultural machines
BS 3733	Endless V-Belt drives for agricultural purposes
BS 3790	Endless wedge belt drives and endless V-belt drives
DIN 109/2	Antriebselemente. Achsabstand für Riementriebe mit Keilriemen
DIN 111	Antriebselemente. Flachriemenscheiben. Masse Nenndrehmomente
DIN 2211/1	Schmalkeilriemenscheiben
DIN 2211/2	Schmalkeilriemenscheiben. Prüfung der Rillen
DIN 2215	Endlose Keilriemen
DIN 2216	Endliche Keilriemen
DIN 2217	Keilriemenscheiben
DIN 2217/2	Keilriemenscheiben. Prüfung der Rillen
DIN 2218	Endlose Keilriemen für den Maschinenbau. Berechnung der Antriebe. Leistungswerte
DIN 7719	Endlose Breitkeilriemen für industrielle Drehzahlwandler. Riemen und Rillenprofile der zugehörigen Scheiben
DIN 7721/1	Synchronriemenantriebe, metrische Teilung. Synchronriemen
DIN 7722	Endlose Hexagonalriemen für Landmaschinen und Rillenprofile der zugehörigen Scheiben
DIN 7753/1	Endlose Schmalkeilriemen für den Maschinenbau
DIN 7753/2	Endlose Schmalkeilriemen für den Maschinenbau. Berechnung der Antriebe. Leistungswerte
DIN 7867	Keilrippenriemen und -scheiben
DIN/ISO 5290	Rillenscheiben für Verbund-Schmalkeilriemen, Rillenprofile 9J, 15J, 20J, 25J
DIN/ISO 5294	Synchronriementriebe. Scheiben
DIN/ISO 5296/1	Synchronriementriebe. Riemen
DIN/ISO 5296/2	Synchronriementriebe. Riemen
DIN/ISO 7721/2	Synchronriementriebe, metrische Teilung. Zahnlückenprofil für Synchronscheiben
DS 974	Fladremstræk. Dimensioner på remme og remskiver. Justering af centerafstand
DS 2104	Geometrisk kontrol af sporene i kileremsskiver
DS 2107	Kileremsskiver til remprofilerne Y, Z, A, B, C, D, og E
DS 2108	Kileremstræk - Monteringsanvisninger
DS/ISO 254	Remtræk. Kileremsskiver. Kvalitet, bearbejdning og afbalancering
DS/ISO 3410	Landbrugsmaskiner. Kileremme til variabel hastighed og sammenhørende remskivespor
DS/ISO 4183	Remtræk. Kileremsskiver til remprofilerne Y, Z, A, B, C, D, E, SPZ, SPA,SPB og SPC. Middeldiametre og spordimensioner
DS/ISO 4184	Remtræk. Kileremme. Længder
DS/ISO 5289	Remtræk. Endeløse sekskant-kileremme til landbrugsmaskiner og kilespor i de tilsvarende skiver
DS/ISO 5294	Remtræk. Remskiver til synkrone remtræk
DS/ISO 5296	Remtræk. Synkrone remtræk
ISO 22	Belt drives - Flat transmission belt and corresponding pulleys - Dimensions and tolerances
ISO 155	Belt drives - Pulleys - Limiting values for adjustment of centres
ISO 254	Belt drives - Pulleys - Quality, finish and balance
ISO 255	Belt drives - Pulleys for V-belts (system based on datum with) - Geometrical inspection of grooves
ISO 1081	Drives using V-Belts and grooved pulleys - Terminology
ISO 1604	Belt drives - Endless wide V-belts for industrial speed-changers and groove profiles for corresponding pulleys.

ISO 1813	Anti-static endless V-Belts - Electric conductivity
ISO 3410	Agricultural machinery - Endless variable-speed V-belts and groove sections of corresponding pulleys.
ISO 4183	Grooved pulleys for classical and narrow V-belts.
ISO 4184	Classical and narrow V-belts - Lengths
ISO 5289	Agricultural machinery - Endless hexagonal belts and groove sections of corresponding pulleys.
ISO 5290	Grooved pulleys for joined narrow V-belts. Groove sections 9J, 15J, 20J, and 25J
ISO 5291	Grooved pulleys for joined classical V-belts. Groove sections AJ, BJ, CJ and DJ (effective system).
ISO 5292	Industrial V-Belt transmissions - Calculation of power ratings.
ISO 5294	Synchronous belt drives - Pulleys
ISO 5295	Synchronous belt - Calculation of power rating and drive centre distance
ISO 5296-1	Synchronous belt drives - Belts
ISO 5296-2	Synchronous belt drives - Belts
ISO 8370	V- and ribbed V-belts - Dynamic test to determine pitch zone location
ISO 8419	Narrow joined V-belts - Lengths in effective system
ISO 9653	Belt drives - Electrical conductivity of antistatic endless synchronous belts - Characteristics and test method
ISO 9980	Belt drives - Grooved pulleys for V-belts (system based in effective with) - Geometrical inspection of grooves
ISO 9982	Belt drives - Pulleys and V-ribbed belts for industrial applications

ANSI/RMA IP-20	Classical V-Belt and Sheaves
ANSI/RMA IP-21	Double-V (Hexagonal) Belts
RMA/MPTA IP-22	Narrow Multiple V-Belts
RMA/MPTA IP-23	Light-Duty Single V-belts
RMA/MPTA IP-24	Synchronous Belts
RMA/MPTA IP-25	Variable Speed V-Belts
RMA/MPTA IP-26	V-Ribbed Belts

ROULUNDS
POWER RATING TABLES

The Quality choice for any transmission

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	2850	400	600	800	1200	1600	2000	2400	3200	3600	4000	5000	6000	8000	9500
50	1.00	0.54	0.68	0.98	1.71	0.32	0.46	0.59	0.83	1.06	1.28	1.49	1.88	2.06	2.23	2.64	2.99	3.53	3.79
	1.05	0.55	0.70	1.01	1.77	0.33	0.47	0.61	0.86	1.10	1.32	1.54	1.94	2.14	2.32	2.74	3.11	3.70	3.99
	1.20	0.58	0.74	1.07	1.89	0.35	0.50	0.64	0.91	1.16	1.40	1.64	2.08	2.28	2.48	2.94	3.36	4.03	4.38
	1.50	0.61	0.77	1.11	1.98	0.36	0.52	0.66	0.95	1.21	1.47	1.71	2.18	2.40	2.61	3.11	3.55	4.29	4.68
	3.00	0.62	0.79	1.14	2.03	0.37	0.53	0.68	0.97	1.24	1.50	1.76	2.24	2.46	2.68	3.20	3.66	4.43	4.86
56	1.00	0.67	0.86	1.24	2.20	0.40	0.57	0.74	1.05	1.35	1.63	1.90	2.41	2.65	2.89	3.42	3.89	4.62	4.96
	1.05	0.69	0.88	1.27	2.26	0.41	0.59	0.76	1.08	1.38	1.67	1.95	2.48	2.73	2.97	3.52	4.01	4.79	5.16
	1.20	0.72	0.92	1.33	2.37	0.43	0.61	0.79	1.13	1.45	1.76	2.05	2.61	2.88	3.13	3.73	4.26	5.11	5.55
	1.50	0.74	0.95	1.38	2.46	0.44	0.63	0.81	1.17	1.50	1.82	2.13	2.72	2.99	3.26	3.89	4.45	5.37	5.85
	3.00	0.76	0.97	1.40	2.52	0.45	0.64	0.83	1.19	1.53	1.86	2.17	2.77	3.06	3.33	3.98	4.56	5.52	6.03
63	1.00	0.83	1.06	1.54	2.75	0.49	0.71	0.91	1.31	1.68	2.04	2.38	3.03	3.34	3.63	4.31	4.90	5.81	6.21
	1.05	0.85	1.08	1.57	2.81	0.50	0.72	0.93	1.33	1.71	2.08	2.43	3.10	3.41	3.72	4.41	5.03	5.98	6.41
	1.20	0.88	1.12	1.63	2.93	0.52	0.75	0.96	1.38	1.78	2.16	2.53	3.23	3.56	3.88	4.62	5.27	6.31	6.80
	1.50	0.90	1.15	1.68	3.02	0.53	0.76	0.99	1.42	1.83	2.23	2.61	3.33	3.68	4.01	4.78	5.47	6.56	7.10
	3.00	0.91	1.17	1.71	3.07	0.54	0.78	1.00	1.44	1.86	2.26	2.65	3.39	3.74	4.08	4.87	5.58	6.71	7.27
71	1.00	1.01	1.30	1.89	3.38	0.60	0.86	1.11	1.60	2.06	2.50	2.92	3.73	4.10	4.46	5.30	6.01	7.07	7.46
	1.05	1.03	1.32	1.92	3.44	0.60	0.87	1.13	1.62	2.09	2.54	2.97	3.79	4.18	4.55	5.40	6.14	7.23	7.66
	1.20	1.06	1.36	1.98	3.56	0.62	0.90	1.16	1.67	2.16	2.62	3.07	3.92	4.33	4.71	5.60	6.38	7.56	8.05
	1.50	1.08	1.39	2.02	3.65	0.63	0.92	1.19	1.71	2.21	2.69	3.15	4.03	4.44	4.84	5.77	6.58	7.82	8.36
	3.00	1.09	1.40	2.05	3.70	0.64	0.93	1.20	1.73	2.24	2.72	3.19	4.08	4.51	4.91	5.86	6.69	7.96	8.53
80	1.00	1.21	1.56	2.27	4.08	0.71	1.03	1.33	1.92	2.47	3.01	3.52	4.49	4.94	5.38	6.36	7.19	8.33	8.64
	1.05	1.23	1.58	2.30	4.14	0.72	1.04	1.35	1.94	2.51	3.05	3.57	4.56	5.02	5.46	6.47	7.32	8.50	8.84
	1.20	1.26	1.61	2.36	4.25	0.74	1.07	1.38	1.99	2.57	3.13	3.67	4.69	5.17	5.62	6.67	7.57	8.83	9.23
	1.50	1.28	1.64	2.40	4.34	0.75	1.08	1.41	2.03	2.62	3.20	3.75	4.79	5.28	5.75	6.83	7.76	9.08	9.53
	3.00	1.29	1.66	2.43	4.40	0.76	1.10	1.42	2.05	2.65	3.23	3.79	4.85	5.35	5.83	6.92	7.87	9.23	9.71
90	1.00	1.43	1.84	2.69	4.83	0.84	1.21	1.58	2.27	2.93	3.57	4.18	5.32	5.85	6.36	7.49	8.42	9.54	9.62
	1.05	1.45	1.86	2.72	4.89	0.85	1.23	1.59	2.29	2.97	3.61	4.23	5.39	5.93	6.44	7.60	8.54	9.71	9.82
	1.20	1.48	1.90	2.78	5.01	0.86	1.25	1.63	2.34	3.03	3.69	4.33	5.52	6.08	6.61	7.80	8.79	10.03	10.21
	1.50	1.50	1.93	2.82	5.10	0.88	1.27	1.65	2.38	3.08	3.76	4.40	5.62	6.19	6.73	7.96	8.98	10.29	10.51
	3.00	1.51	1.95	2.85	5.15	0.88	1.28	1.67	2.40	3.11	3.79	4.45	5.68	6.26	6.81	8.05	9.09	10.43	10.68
100	1.00	1.65	2.12	3.10	5.57	0.97	1.40	1.82	2.62	3.39	4.12	4.82	6.13	6.74	7.30	8.56	9.53	10.51	10.22
	1.05	1.67	2.14	3.13	5.63	0.97	1.41	1.83	2.64	3.42	4.16	4.87	6.20	6.81	7.39	8.66	9.66	10.68	10.42
	1.20	1.70	2.18	3.19	5.75	0.99	1.44	1.87	2.69	3.48	4.24	4.97	6.33	6.96	7.55	8.86	9.90	11.00	10.80
	1.50	1.72	2.21	3.24	5.84	1.00	1.46	1.89	2.73	3.54	4.31	5.05	6.43	7.07	7.68	9.03	10.10	11.26	11.11
	3.00	1.73	2.23	3.26	5.89	1.01	1.47	1.91	2.75	3.56	4.34	5.09	6.49	7.14	7.75	9.12	10.21	11.41	11.28
112	1.00	1.91	2.46	3.59	6.44	1.12	1.62	2.10	3.03	3.92	4.77	5.58	7.07	7.76	8.39	9.74	10.72	11.34	
	1.05	1.93	2.48	3.62	6.50	1.13	1.63	2.12	3.06	3.96	4.81	5.63	7.14	7.83	8.47	9.85	10.85	11.51	
	1.20	1.96	2.52	3.68	6.62	1.14	1.66	2.15	3.11	4.02	4.89	5.73	7.27	7.98	8.64	10.05	11.10	11.83	
	1.50	1.98	2.55	3.73	6.71	1.15	1.68	2.18	3.15	4.07	4.96	5.80	7.38	8.09	8.77	10.21	11.29	12.09	
	3.00	1.99	2.56	3.76	6.76	1.16	1.69	2.19	3.17	4.10	4.99	5.85	7.43	8.16	8.84	10.30	11.40	12.24	
125	1.00	2.19	2.82	4.12	7.35	1.28	1.85	2.41	3.48	4.50	5.46	6.38	8.06	8.81	9.50	10.91	11.81	11.78	
	1.05	2.21	2.84	4.15	7.41	1.29	1.87	2.43	3.50	4.53	5.51	6.43	8.13	8.89	9.58	11.01	11.94	11.95	
	1.20	2.24	2.88	4.21	7.53	1.30	1.89	2.46	3.55	4.59	5.59	6.53	8.26	9.03	9.75	11.22	12.19	12.27	
	1.50	2.26	2.91	4.26	7.62	1.32	1.91	2.49	3.59	4.65	5.65	6.61	8.36	9.15	9.87	11.38	12.38	12.53	
	3.00	2.27	2.93	4.28	7.67	1.32	1.92	2.50	3.61	4.68	5.69	6.65	8.42	9.21	9.95	11.47	12.49	12.68	
140	1.00	2.51	3.23	4.72	8.36	1.46	2.12	2.76	3.99	5.15	6.25	7.28	9.14	9.96	10.69	12.08	12.79		
	1.05	2.53	3.25	4.75	8.42	1.47	2.14	2.78	4.01	5.18	6.29	7.33	9.21	10.03	10.77	12.19	12.91		
	1.20	2.55	3.29	4.81	8.54	1.49	2.16	2.81	4.06	5.25	6.37	7.43	9.34	10.18	10.93	12.39	13.16		
	1.50	2.58	3.32	4.86	8.63	1.50	2.18	2.84	4.10	5.30	6.43	7.51	9.44	10.30	11.06	12.55	13.35		
	3.00	2.59	3.34	4.88	8.68	1.51	2.19	2.85	4.12	5.33	6.47	7.55	9.50	10.36	11.13	12.64	13.46		
160	1.00	2.93	3.77	5.50	9.65	1.71	2.48	3.23	4.65	6.00	7.26	8.44	10.50	11.36	12.10	13.34	13.55		
	1.05	2.95	3.79	5.53	9.71	1.72	2.49	3.24	4.68	6.03	7.30	8.49	10.57	11.44	12.19	13.44	13.68		
	1.20	2.98	3.83	5.59	9.82	1.73	2.52	3.28	4.73	6.10	7.39	8.59	10.70	11.58	12.35	13.65	13.93		
	1.50	3.00	3.86	5.64	9.92	1.75	2.54	3.30	4.77	6.15	7.45	8.66	10.80	11.70	12.48	13.81	14.12		
	3.00	3.01	3.88	5.67	9.97	1.75	2.55	3.32	4.79	6.18	7.49	8.71	10.86	11.77	12.55	13.90	14.23		
180	1.00	3.35	4.31	6.27	10.85	1.95	2.83	3.69	5.31	6.83	8.24	9.54	11.74	12.61	13.31	14.19			
	1.05	3.36	4.33	6.30	10.91	1.96	2.85	3.70	5.33	6.86	8.29	9.59	11.81	12.68	13.39	14.30			
	1.20	3.39	4.37	6.36	11.02	1.98	2.87	3.74	5.38	6.93	8.37	9.69	11.94	12.83	13.55	14.50			
	1.50	3.42	4.40	6.41	11.12	1.99	2.89	3.76	5.42	6.98	8.43	9.77	12.04	12.95	13.68	14.66			
	3.00	3.43	4.41	6.43	11.17	2.00	2.90	3.78	5.44	7.01	8.47	9.81	12.10	13.01	13.76	14.75			

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	2850	400	600	800	1200	1600	2000	2400	3200	3600	4000	5000	6000	8000	9500
63	1.00	0.82	1.04	1.46	2.46	0.50	0.71	0.90	1.25	1.58	1.88	2.17	2.67	2.90	3.11	3.54	3.84	4.02	3.72
	1.05	0.86	1.09	1.54	2.61	0.52	0.74	0.94	1.32	1.66	1.99	2.29	2.84	3.09	3.32	3.80	4.16	4.44	4.22
	1.20	0.93	1.18	1.69	2.90	0.56	0.80	1.02	1.44	1.83	2.19	2.54	3.17	3.46	3.73	4.31	4.77	5.26	5.19
	1.50	0.99	1.26	1.80	3.13	0.60	0.85	1.09	1.54	1.96	2.35	2.73	3.43	3.75	4.05	4.72	5.26	5.91	5.96
	3.00	1.02	1.30	1.87	3.26	0.61	0.87	1.12	1.59	2.03	2.45	2.84	3.57	3.91	4.23	4.94	5.53	6.27	6.39
71	1.00	1.12	1.43	2.04	3.53	0.67	0.96	1.23	1.74	2.22	2.66	3.09	3.86	4.21	4.54	5.25	5.78	6.26	6.01
	1.05	1.16	1.48	2.12	3.68	0.70	0.99	1.27	1.80	2.30	2.77	3.21	4.03	4.40	4.75	5.51	6.10	6.68	6.51
	1.20	1.24	1.57	2.27	3.97	0.74	1.05	1.35	1.93	2.46	2.97	3.46	4.36	4.77	5.16	6.02	6.71	7.49	7.48
	1.50	1.29	1.65	2.38	4.20	0.77	1.10	1.42	2.02	2.59	3.13	3.65	4.61	5.06	5.48	6.42	7.19	8.14	8.25
	3.00	1.33	1.69	2.45	4.33	0.79	1.13	1.46	2.08	2.67	3.23	3.76	4.76	5.22	5.66	6.65	7.46	8.50	8.68
80	1.00	1.46	1.86	2.69	4.72	0.87	1.24	1.60	2.28	2.92	3.53	4.11	5.17	5.66	6.11	7.10	7.85	8.54	8.22
	1.05	1.50	1.91	2.76	4.87	0.89	1.28	1.64	2.35	3.01	3.64	4.24	5.34	5.85	6.32	7.36	8.17	8.96	8.72
	1.20	1.57	2.01	2.91	5.16	0.93	1.34	1.73	2.47	3.17	3.84	4.48	5.67	6.22	6.73	7.87	8.78	9.78	9.69
	1.50	1.63	2.09	3.03	5.39	0.96	1.39	1.79	2.57	3.30	4.00	4.67	5.93	6.51	7.05	8.28	9.26	10.42	10.45
	3.00	1.66	2.13	3.09	5.52	0.98	1.41	1.83	2.62	3.37	4.09	4.78	6.07	6.67	7.23	8.50	9.54	10.79	10.88
90	1.00	1.83	2.34	3.40	6.02	1.08	1.56	2.01	2.88	3.70	4.49	5.23	6.60	7.23	7.81	9.07	10.01	10.77	10.16
	1.05	1.87	2.39	3.48	6.17	1.10	1.59	2.05	2.94	3.79	4.59	5.36	6.77	7.42	8.02	9.33	10.33	11.19	10.66
	1.20	1.94	2.49	3.62	6.46	1.14	1.65	2.14	3.07	3.95	4.79	5.60	7.10	7.78	8.43	9.84	10.94	12.01	11.63
	1.50	2.00	2.57	3.74	6.69	1.18	1.70	2.20	3.16	4.08	4.96	5.79	7.35	8.07	8.75	10.25	11.43	12.65	12.40
	3.00	2.03	2.61	3.81	6.82	1.19	1.73	2.24	3.22	4.15	5.05	5.90	7.50	8.24	8.93	10.47	11.70	13.02	12.83
100	1.00	2.20	2.82	4.11	7.29	1.29	1.87	2.42	3.47	4.47	5.43	6.33	8.00	8.75	9.45	10.95	12.02	12.64	11.52
	1.05	2.24	2.87	4.18	7.44	1.32	1.90	2.46	3.54	4.56	5.53	6.46	8.17	8.94	9.67	11.21	12.33	13.06	12.02
	1.20	2.31	2.97	4.33	7.73	1.36	1.96	2.54	3.66	4.72	5.74	6.70	8.49	9.31	10.07	11.72	12.94	13.88	12.99
	1.50	2.37	3.05	4.45	7.96	1.39	2.01	2.61	3.76	4.85	5.90	6.90	8.75	9.60	10.40	12.12	13.43	14.52	13.76
	3.00	2.40	3.09	4.51	8.09	1.41	2.04	2.64	3.81	4.92	5.99	7.01	8.90	9.76	10.58	12.35	13.70	14.88	14.19
112	1.00	2.64	3.39	4.94	8.79	1.55	2.24	2.90	4.18	5.39	6.54	7.63	9.63	10.53	11.35	13.06	14.19	14.36	
	1.05	2.68	3.44	5.02	8.94	1.57	2.27	2.95	4.24	5.47	6.65	7.76	9.80	10.72	11.56	13.32	14.50	14.78	
	1.20	2.75	3.54	5.17	9.23	1.61	2.33	3.03	4.37	5.64	6.85	8.00	10.12	11.08	11.97	13.83	15.11	15.60	
	1.50	2.81	3.61	5.28	9.46	1.64	2.38	3.09	4.46	5.77	7.01	8.20	10.38	11.37	12.29	14.23	15.60	16.24	
	3.00	2.84	3.66	5.35	9.59	1.66	2.41	3.13	4.52	5.84	7.10	8.31	10.53	11.54	12.47	14.46	15.87	16.60	
125	1.00	3.11	4.00	5.84	10.36	1.82	2.64	3.43	4.94	6.37	7.73	9.01	11.34	12.37	13.30	15.16	16.23	15.51	
	1.05	3.15	4.05	5.92	10.51	1.84	2.67	3.47	5.00	6.45	7.83	9.14	11.51	12.56	13.51	15.42	16.54	15.93	
	1.20	3.22	4.15	6.06	10.80	1.88	2.73	3.55	5.12	6.62	8.04	9.38	11.83	12.93	13.92	15.93	17.16	16.75	
	1.50	3.28	4.23	6.18	11.03	1.91	2.78	3.61	5.22	6.75	8.20	9.58	12.09	13.22	14.24	16.33	17.64	17.39	
	3.00	3.32	4.27	6.25	11.16	1.93	2.81	3.65	5.27	6.82	8.29	9.69	12.24	13.38	14.42	16.56	17.91	17.76	
140	1.00	3.65	4.70	6.86	12.12	2.13	3.09	4.02	5.80	7.48	9.07	10.57	13.24	14.39	15.41	17.31	18.14		
	1.05	3.69	4.75	6.94	12.27	2.15	3.13	4.06	5.86	7.57	9.18	10.69	13.40	14.58	15.62	17.58	18.46		
	1.20	3.77	4.85	7.09	12.56	2.19	3.19	4.15	5.99	7.73	9.38	10.94	13.73	14.95	16.03	18.09	19.07		
	1.50	3.82	4.92	7.20	12.79	2.23	3.23	4.21	6.08	7.86	9.54	11.13	13.99	15.24	16.35	18.49	19.55		
	3.00	3.86	4.97	7.27	12.92	2.24	3.26	4.25	6.14	7.93	9.64	11.24	14.13	15.40	16.53	18.72	19.82		
160	1.00	4.37	5.62	8.20	14.37	2.55	3.70	4.81	6.94	8.94	10.82	12.57	15.62	16.89	17.97	19.71	19.87		
	1.05	4.41	5.67	8.28	14.52	2.57	3.73	4.85	7.00	9.03	10.93	12.70	15.79	17.08	18.18	19.97	20.19		
	1.20	4.48	5.77	8.43	14.81	2.61	3.79	4.93	7.12	9.19	11.13	12.95	16.12	17.45	18.59	20.48	20.80		
	1.50	4.54	5.85	8.55	15.04	2.64	3.84	5.00	7.22	9.32	11.30	13.14	16.37	17.74	18.91	20.88	21.28		
	3.00	4.57	5.89	8.61	15.17	2.66	3.87	5.03	7.27	9.39	11.39	13.25	16.52	17.90	19.09	21.11	21.56		
180	1.00	5.08	6.53	9.52	16.48	2.96	4.29	5.59	8.06	10.37	12.52	14.50	17.83	19.15	20.20	21.49			
	1.05	5.11	6.58	9.60	16.63	2.98	4.33	5.63	8.12	10.45	12.63	14.62	18.00	19.34	20.41	21.75			
	1.20	5.19	6.68	9.75	16.92	3.02	4.39	5.71	8.24	10.62	12.83	14.87	18.33	19.70	20.81	22.26			
	1.50	5.25	6.76	9.86	17.15	3.05	4.44	5.78	8.34	10.75	12.99	15.06	18.59	19.99	21.14	22.66			
	3.00	5.28	6.80	9.93	17.28	3.07	4.46	5.81	8.39	10.82	13.08	15.17	18.73	20.16	21.32	22.89			
200	1.00	5.78	7.43	10.81	18.46	3.36	4.89	6.36	9.16	11.77	14.17	16.33	19.85	21.14	22.06	22.58			
	1.05	5.81	7.48	10.89	18.61	3.38	4.92	6.40	9.22	11.85	14.27	16.46	20.02	21.33	22.28	22.84			
	1.20	5.89	7.58	11.04	18.90	3.42	4.98	6.48	9.34	12.01	14.48	16.71	20.35	21.69	22.68	23.35			
	1.50	5.95	7.66	11.15	19.13	3.46	5.03	6.55	9.44	12.14	14.64	16.90	20.61	21.99	23.01	23.76			
	3.00	5.98	7.70	11.22	19.26	3.47	5.06	6.58	9.50	12.22	14.73	17.01	20.75	22.15	23.19	23.98			
224	1.00	6.61	8.50	12.33	20.63	3.85	5.59	7.27	10.46	13.40	16.06	18.41	22.00	23.14	23.78				
	1.05	6.65	8.55	12.40	20.78	3.87	5.62	7.32	10.52	13.48	16.17	18.54	22.17	23.33	23.99				
	1.20	6.72	8.64	12.55	21.07	3.91	5.69	7.40	10.65	13.65	16.37	18.78	22.49	23.70	24.40				
	1.50	6.78	8.72	12.67	21.30	3.94	5.73	7.46	10.74	13.78	16.53	18.98	22.75	23.99	24.73				
	3.00	6.81	8.76	12.73	21.43	3.96	5.76	7.50	10.80	13.85	16.62	19.09	22.90	24.15	24.91				

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	2850	400	600	800	1200	1600	2000	2400	3200	3600	4000	5000	6000	8000	9500
100	1.00	2.58	3.29	4.73	8.14	1.53	2.20	2.83	4.02	5.14	6.18	7.15	8.85	9.57	10.21	11.34	11.76	9.98	5.89
	1.05	2.67	3.41	4.92	8.51	1.58	2.27	2.93	4.18	5.35	6.44	7.46	9.26	10.04	10.72	11.99	12.54	11.01	7.11
	1.20	2.85	3.65	5.28	9.22	1.68	2.42	3.13	4.48	5.74	6.94	8.06	10.06	10.93	11.72	13.24	14.03	13.01	9.48
	1.50	2.99	3.83	5.56	9.78	1.76	2.54	3.29	4.71	6.06	7.33	8.53	10.69	11.64	12.51	14.22	15.22	14.59	11.35
	3.00	3.07	3.94	5.72	10.10	1.81	2.61	3.38	4.85	6.24	7.55	8.79	11.04	12.04	12.95	14.77	15.88	15.47	12.40
112	1.00	3.35	4.28	6.21	10.80	1.97	2.84	3.68	5.26	6.75	8.15	9.46	11.76	12.74	13.60	15.15	15.70	13.20	
	1.05	3.44	4.41	6.39	11.17	2.02	2.92	3.78	5.42	6.96	8.41	9.76	12.17	13.20	14.12	15.79	16.48	14.23	
	1.20	3.62	4.64	6.75	11.88	2.12	3.07	3.98	5.72	7.36	8.91	10.36	12.97	14.10	15.11	17.04	17.97	16.22	
	1.50	3.76	4.83	7.04	12.44	2.20	3.19	4.14	5.95	7.67	9.30	10.84	13.60	14.81	15.90	18.02	19.15	17.80	
	3.00	3.84	4.94	7.20	12.76	2.25	3.25	4.23	6.09	7.85	9.52	11.10	13.95	15.21	16.34	18.58	19.82	18.68	
125	1.00	4.17	5.36	7.79	13.61	2.44	3.54	4.59	6.60	8.48	10.26	11.91	14.81	16.04	17.10	18.94	19.43	15.44	
	1.05	4.27	5.48	7.98	13.98	2.50	3.61	4.69	6.75	8.69	10.52	12.22	15.23	16.51	17.62	19.59	20.20	16.47	
	1.20	4.45	5.72	8.34	14.69	2.60	3.76	4.89	7.05	9.09	11.01	12.82	16.02	17.40	18.62	20.83	21.70	18.46	
	1.50	4.59	5.90	8.62	15.25	2.67	3.88	5.05	7.29	9.40	11.41	13.29	16.65	18.11	19.41	21.82	22.88	20.04	
	3.00	4.67	6.01	8.78	15.57	2.72	3.95	5.14	7.42	9.58	11.63	13.56	17.01	18.51	19.85	22.37	23.55	20.92	
140	1.00	5.12	6.58	9.60	16.76	2.99	4.34	5.64	8.12	10.46	12.65	14.68	18.21	19.67	20.91	22.87	22.97		
	1.05	5.21	6.71	9.78	17.12	3.04	4.41	5.74	8.27	10.66	12.90	14.99	18.62	20.13	21.42	23.51	23.74		
	1.20	5.39	6.94	10.14	17.84	3.14	4.56	5.94	8.57	11.06	13.40	15.59	19.42	21.03	22.42	24.76	25.24		
	1.50	5.53	7.13	10.43	18.40	3.22	4.68	6.10	8.81	11.38	13.80	16.06	20.05	21.74	23.21	25.75	26.42		
	3.00	5.61	7.24	10.59	18.71	3.26	4.75	6.18	8.94	11.55	14.02	16.32	20.40	22.14	23.65	26.30	27.08		
160	1.00	6.37	8.21	11.97	20.77	3.71	5.39	7.02	10.13	13.04	15.76	18.26	22.49	24.18	25.53	27.26	26.25		
	1.05	6.47	8.33	12.16	21.14	3.76	5.47	7.12	10.28	13.25	16.02	18.57	22.91	24.64	26.04	27.91	27.03		
	1.20	6.65	8.56	12.52	21.85	3.86	5.62	7.32	10.58	13.65	16.52	19.17	23.70	25.54	27.04	29.15	28.52		
	1.50	6.79	8.75	12.81	22.41	3.94	5.74	7.48	10.82	13.96	16.91	19.64	24.33	26.25	27.83	30.14	29.71		
	3.00	6.87	8.86	12.97	22.73	3.98	5.80	7.57	10.95	14.14	17.13	19.90	24.69	26.65	28.27	30.69	30.37		
180	1.00	7.62	9.81	14.31	24.57	4.42	6.44	8.39	12.11	15.58	18.79	21.70	26.48	28.26	29.59	30.59			
	1.05	7.71	9.93	14.49	24.94	4.47	6.52	8.49	12.26	15.79	19.05	22.01	26.89	28.73	30.10	31.23			
	1.20	7.89	10.17	14.85	25.65	4.57	6.67	8.69	12.56	16.18	19.55	22.61	27.69	29.63	31.10	32.48			
	1.50	8.03	10.36	15.14	26.21	4.65	6.78	8.85	12.80	16.50	19.94	23.08	28.32	30.33	31.89	33.46			
	3.00	8.11	10.46	15.30	26.53	4.70	6.85	8.94	12.93	16.68	20.16	23.35	28.67	30.73	32.33	34.02			
200	1.00	8.85	11.40	16.60	28.14	5.13	7.48	9.75	14.06	18.06	21.73	24.99	30.14	31.89	33.02	32.72			
	1.05	8.94	11.52	16.79	28.50	5.18	7.56	9.85	14.21	18.27	21.98	25.30	30.55	32.35	33.54	33.36			
	1.20	9.12	11.76	17.15	29.21	5.28	7.71	10.05	14.51	18.67	22.48	25.90	31.35	33.25	34.53	34.61			
	1.50	9.26	11.95	17.43	29.78	5.36	7.83	10.21	14.75	18.98	22.88	26.38	31.98	33.96	35.32	35.59			
	3.00	9.34	12.05	17.60	30.09	5.41	7.89	10.30	14.88	19.16	23.10	26.64	32.33	34.36	35.77	36.15			
224	1.00	10.32	13.28	19.30	32.06	5.98	8.72	11.36	16.37	20.97	25.12	28.73	34.04	35.57	36.23				
	1.05	10.41	13.41	19.48	32.43	6.03	8.80	11.46	16.52	21.18	25.38	29.04	34.46	36.04	36.75				
	1.20	10.59	13.64	19.84	33.14	6.13	8.95	11.66	16.82	21.58	25.88	29.64	35.25	36.93	37.75				
	1.50	10.73	13.83	20.13	33.70	6.21	9.06	11.82	17.06	21.89	26.27	30.11	35.88	37.64	38.54				
	3.00	10.81	13.93	20.29	34.02	6.26	9.13	11.91	17.19	22.07	26.49	30.38	36.24	38.04	38.98				
250	1.00	11.89	15.30	22.14	35.86	6.89	10.05	13.09	18.82	24.03	28.62	32.50	37.63	38.65	38.48				
	1.05	11.98	15.42	22.33	36.22	6.95	10.13	13.20	18.98	24.24	28.88	32.81	38.04	39.11	38.99				
	1.20	12.16	15.66	22.69	36.93	7.04	10.28	13.39	19.28	24.63	29.38	33.41	38.84	40.01	39.99				
	1.50	12.30	15.84	22.98	37.50	7.12	10.40	13.55	19.51	24.95	29.77	33.88	39.47	40.72	40.78				
	3.00	12.38	15.95	23.14	37.81	7.17	10.46	13.64	19.64	25.13	30.00	34.14	39.83	41.12	41.22				
280	1.00	13.69	17.58	25.33	39.57	7.94	11.57	15.06	21.59	27.42	32.42	36.44	40.84	40.89					
	1.05	13.78	17.71	25.51	39.94	7.99	11.65	15.17	21.74	27.63	32.68	36.75	41.25	41.36					
	1.20	13.96	17.94	25.87	40.65	8.09	11.80	15.37	22.04	28.03	33.18	37.35	42.05	42.26					
	1.50	14.10	18.13	26.16	41.21	8.17	11.92	15.52	22.28	28.34	33.58	37.82	42.68	42.97					
	3.00	14.18	18.24	26.32	41.52	8.21	11.99	15.61	22.41	28.52	33.80	38.08	43.04	43.36					
315	1.00	15.75	20.20	28.89	42.91	9.15	13.33	17.33	24.73	31.19	36.50	40.43	43.20						
	1.05	15.85	20.33	29.08	43.27	9.20	13.41	17.43	24.88	31.40	36.76	40.74	43.61						
	1.20	16.03	20.56	29.44	43.98	9.30	13.56	17.63	25.18	31.79	37.26	41.34	44.41						
	1.50	16.17	20.75	29.72	44.55	9.38	13.68	17.79	25.42	32.11	37.65	41.81	45.04						
	3.00	16.25	20.85	29.88	44.86	9.42	13.74	17.88	25.55	32.29	37.87	42.08	45.39						
355	1.00	18.08	23.12	32.75	45.27	10.52	15.32	19.87	28.19	35.21	40.63	44.11							
	1.05	18.17	23.25	32.94	45.63	10.57	15.39	19.98	28.34	35.42	40.89	44.42							
	1.20	18.35	23.48	33.30	46.34	10.67	15.54	20.18	28.64	35.82	41.39	45.01							
	1.50	18.49	23.67	33.59	46.91	10.75	15.66	20.33	28.88	36.13	41.78	45.49							
	3.00	18.57	23.78	33.75	47.22	10.80	15.73	20.42	29.01	36.31	42.00	45.75							

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	2850	200	400	600	800	1200	1600	2000	2400	3200	3600	4000	4500	5000	6000
160	1.00	7.75	9.93	14.33	23.78	2.40	4.54	6.57	8.52	12.18	15.55	18.59	21.27	25.33	26.61	27.33	27.34	26.26	20.43
	1.05	7.95	10.20	14.74	24.60	2.46	4.65	6.74	8.74	12.53	16.01	19.17	21.96	26.25	27.65	28.48	28.63	27.70	22.15
	1.20	8.35	10.73	15.55	26.18	2.57	4.88	7.07	9.19	13.19	16.90	20.28	23.29	28.02	29.64	30.70	31.13	30.48	25.49
	1.50	8.67	11.14	16.18	27.43	2.66	5.05	7.34	9.54	13.72	17.60	21.16	24.34	29.43	31.23	32.45	33.10	32.67	28.12
	3.00	8.85	11.38	16.54	28.14	2.70	5.15	7.49	9.74	14.02	18.00	21.65	24.94	30.22	32.11	33.44	34.21	33.90	29.60
180	1.00	9.77	12.54	18.13	29.92	3.00	5.70	8.27	10.74	15.41	19.68	23.52	26.86	31.74	33.15	33.75	33.26	31.25	
	1.05	9.97	12.81	18.54	30.74	3.05	5.81	8.44	10.97	15.75	20.14	24.09	27.54	32.66	34.18	34.90	34.56	32.69	
	1.20	10.37	13.34	19.35	32.32	3.16	6.03	8.78	11.42	16.42	21.03	25.20	28.88	34.44	36.18	37.12	37.05	35.46	
	1.50	10.69	13.75	19.99	33.58	3.25	6.21	9.04	11.77	16.94	21.73	26.08	29.93	35.84	37.76	38.88	39.03	37.66	
	3.00	10.87	13.99	20.34	34.28	3.30	6.31	9.19	11.97	17.24	22.13	26.57	30.52	36.63	38.65	39.86	40.14	38.89	
200	1.00	11.77	15.12	21.86	35.66	3.59	6.85	9.96	12.95	18.59	23.73	28.29	32.19	37.59	38.88	39.09	37.67	34.16	
	1.05	11.98	15.39	22.28	36.47	3.65	6.96	10.13	13.18	18.93	24.18	28.86	32.88	38.51	39.92	40.24	38.96	35.59	
	1.20	12.38	15.92	23.08	38.06	3.76	7.19	10.47	13.63	19.60	25.07	29.97	34.21	40.29	41.91	42.46	41.46	38.37	
	1.50	12.69	16.34	23.72	39.31	3.85	7.36	10.73	13.98	20.13	25.78	30.85	35.26	41.69	43.50	44.22	43.43	40.57	
	3.00	12.87	16.57	24.08	40.01	3.89	7.46	10.88	14.17	20.42	26.17	31.35	35.86	42.48	44.38	45.20	44.54	41.80	
224	1.00	14.15	18.19	26.25	41.94	4.30	8.22	11.97	15.58	22.35	28.46	33.79	38.22	43.78	44.60	43.92	40.71		
	1.05	14.36	18.46	26.66	42.76	4.36	8.34	12.15	15.81	22.69	28.92	34.37	38.91	44.70	45.63	45.07	42.00		
	1.20	14.76	18.99	27.47	44.34	4.47	8.56	12.48	16.25	23.36	29.80	35.48	40.24	46.47	47.63	47.29	44.50		
	1.50	15.08	19.40	28.11	45.59	4.55	8.74	12.74	16.60	23.88	30.51	36.36	41.30	47.88	49.21	49.05	46.48		
	3.00	15.25	19.64	28.46	46.30	4.60	8.83	12.89	16.80	24.18	30.90	36.85	41.89	48.67	50.10	50.03	47.59		
250	1.00	16.71	21.47	30.88	47.95	5.06	9.70	14.14	18.39	26.34	33.42	39.46	44.27	49.36	49.21	46.99			
	1.05	16.92	21.74	31.29	48.76	5.12	9.82	14.31	18.62	26.68	33.88	40.04	44.96	50.27	50.24	48.14			
	1.20	17.32	22.27	32.10	50.35	5.23	10.04	14.64	19.07	27.35	34.77	41.15	46.29	52.05	52.24	50.36			
	1.50	17.64	22.68	32.74	51.60	5.32	10.22	14.91	19.42	27.88	35.47	42.02	47.34	53.46	53.83	52.11			
	3.00	17.81	22.92	33.09	52.30	5.37	10.31	15.06	19.62	28.17	35.87	42.52	47.94	54.25	54.71	53.10			
280	1.00	19.64	25.19	36.05	53.73	5.94	11.40	16.62	21.60	30.84	38.93	45.59	50.55	54.18	52.26				
	1.05	19.84	25.46	36.46	54.54	6.00	11.52	16.79	21.83	31.19	39.38	46.16	51.23	55.10	53.29				
	1.20	20.24	25.99	37.27	56.13	6.11	11.74	17.12	22.28	31.86	40.27	47.27	52.57	56.88	55.29				
	1.50	20.56	26.41	37.90	57.38	6.20	11.91	17.38	22.63	32.38	40.98	48.15	53.62	58.28	56.87				
	3.00	20.74	26.64	38.26	58.08	6.25	12.01	17.53	22.83	32.68	41.37	48.64	54.21	59.07	57.76				
315	1.00	23.00	29.45	41.83	58.74	6.96	13.37	19.47	25.29	35.95	45.02	52.11	56.82	57.39					
	1.05	23.21	29.72	42.24	59.56	7.02	13.48	19.65	25.52	36.29	45.48	52.68	57.51	58.31					
	1.20	23.61	30.25	43.05	61.14	7.13	13.70	19.98	25.97	36.96	46.36	53.80	58.84	60.08					
	1.50	23.92	30.67	43.68	62.40	7.22	13.88	20.24	26.32	37.49	47.07	54.67	59.90	61.49					
	3.00	24.10	30.90	44.04	63.10	7.27	13.98	20.39	26.52	37.78	47.46	55.17	60.49	62.28					
355	1.00	26.79	34.21	48.07	61.94	8.12	15.60	22.70	29.43	41.56	51.50	58.66	62.46						
	1.05	27.00	34.48	48.48	62.75	8.18	15.71	22.88	29.66	41.91	51.96	59.24	63.15						
	1.20	27.40	35.01	49.29	64.34	8.29	15.93	23.21	30.11	42.58	52.85	60.35	64.48						
	1.50	27.71	35.42	49.92	65.59	8.37	16.11	23.47	30.46	43.10	53.55	61.23	65.53						
	3.00	27.89	35.66	50.28	66.29	8.42	16.21	23.62	30.66	43.40	53.94	61.72	66.13						
400	1.00	30.97	39.39	54.58		9.41	18.08	26.29	33.99	47.58	58.12	64.75	66.61						
	1.05	31.18	39.67	54.99		9.47	18.20	26.46	34.22	47.93	58.58	65.32	67.30						
	1.20	31.58	40.19	55.80		9.58	18.42	26.79	34.66	48.59	59.46	66.43	68.64						
	1.50	31.89	40.61	56.43		9.67	18.60	27.05	35.01	49.12	60.17	67.31	69.69						
	3.00	32.07	40.85	56.79		9.72	18.69	27.20	35.21	49.42	60.56	67.81	70.28						
450	1.00	35.51	44.94	61.11		10.85	20.82	30.20	38.91	53.86	64.54	69.74							
	1.05	35.72	45.22	61.53		10.90	20.93	30.37	39.14	54.20	65.00	70.31							
	1.20	36.12	45.74	62.33		11.01	21.16	30.70	39.59	54.87	65.89	71.42							
	1.50	36.44	46.16	62.97		11.10	21.33	30.97	39.94	55.40	66.59	72.30							
	3.00	36.61	46.39	63.33		11.15	21.43	31.11	40.14	55.69	66.98	72.79							
500	1.00	39.94	50.25	66.83		12.27	23.53	34.04	43.68	59.66	69.88	72.65							
	1.05	40.15	50.52	67.25		12.33	23.64	34.21	43.91	60.01	70.34	73.22							
	1.20	40.55	51.05	68.05		12.44	23.86	34.54	44.36	60.67	71.23	74.33							
	1.50	40.86	51.46	68.69		12.53	24.04	34.81	44.71	61.20	71.93	75.21							
	3.00	41.04	51.70	69.05		12.57	24.14	34.95	44.91	61.50	72.33	75.70							
560	1.00	45.08	56.26	72.51		13.97	26.74	38.54	49.19	65.94	74.71								
	1.05	45.29	56.53	72.92		14.02	26.85	38.71	49.42	66.28	75.17								
	1.20	45.69	57.06	73.73		14.13	27.07	39.05	49.86	66.95	76.06								
	1.50	46.01	57.47	74.37		14.22	27.25	39.31	50.21	67.48	76.76								
	3.00	46.18	57.71	74.72		14.27	27.35	39.46	50.41	67.77	77.15								

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	2850	400	600	800	1200	1600	2000	2400	3200	3600	4000	5000	6000	8000	9500
63	1.00	0.54	0.67	0.92	1.47	0.33	0.46	0.58	0.80	0.99	1.16	1.32	1.58	1.69	1.79	1.96	2.03	1.84	1.35
	1.05	0.56	0.70	0.97	1.57	0.35	0.48	0.61	0.84	1.04	1.23	1.39	1.69	1.81	1.92	2.12	2.23	2.10	1.66
	1.20	0.60	0.76	1.06	1.75	0.37	0.52	0.66	0.91	1.14	1.35	1.55	1.89	2.04	2.17	2.44	2.61	2.61	2.27
	1.50	0.64	0.80	1.13	1.89	0.39	0.55	0.70	0.97	1.22	1.45	1.67	2.05	2.22	2.37	2.69	2.91	3.01	2.74
	3.00	0.66	0.83	1.17	1.97	0.40	0.57	0.72	1.01	1.27	1.51	1.74	2.14	2.32	2.49	2.83	3.08	3.23	3.01
71	1.00	0.72	0.91	1.27	2.12	0.44	0.62	0.79	1.10	1.38	1.63	1.87	2.29	2.47	2.63	2.95	3.13	3.03	2.49
	1.05	0.75	0.94	1.32	2.21	0.46	0.64	0.81	1.13	1.43	1.70	1.95	2.39	2.59	2.76	3.11	3.33	3.29	2.80
	1.20	0.79	1.00	1.41	2.39	0.48	0.68	0.86	1.21	1.53	1.83	2.10	2.60	2.82	3.02	3.43	3.71	3.80	3.40
	1.50	0.83	1.05	1.49	2.53	0.50	0.71	0.90	1.27	1.61	1.93	2.22	2.76	3.00	3.22	3.68	4.01	4.20	3.88
	3.00	0.85	1.07	1.53	2.61	0.51	0.73	0.93	1.30	1.65	1.98	2.29	2.85	3.10	3.33	3.82	4.18	4.43	4.15
80	1.00	0.93	1.18	1.67	2.82	0.56	0.80	1.02	1.43	1.81	2.16	2.49	3.07	3.32	3.55	4.01	4.29	4.20	3.48
	1.05	0.95	1.21	1.72	2.92	0.58	0.82	1.04	1.47	1.86	2.22	2.56	3.17	3.44	3.68	4.17	4.48	4.46	3.79
	1.20	1.00	1.27	1.81	3.10	0.60	0.85	1.09	1.54	1.96	2.35	2.72	3.38	3.67	3.94	4.49	4.86	4.97	4.40
	1.50	1.04	1.31	1.88	3.24	0.62	0.89	1.13	1.60	2.04	2.45	2.84	3.54	3.85	4.14	4.74	5.16	5.37	4.87
	3.00	1.06	1.34	1.92	3.32	0.63	0.90	1.16	1.64	2.09	2.51	2.90	3.63	3.95	4.25	4.88	5.33	5.60	5.14
90	1.00	1.16	1.47	2.10	3.59	0.70	0.99	1.27	1.79	2.28	2.73	3.15	3.91	4.24	4.54	5.12	5.46	5.26	4.19
	1.05	1.18	1.50	2.15	3.69	0.71	1.01	1.30	1.83	2.33	2.80	3.23	4.01	4.36	4.67	5.29	5.66	5.52	4.50
	1.20	1.23	1.56	2.24	3.87	0.73	1.05	1.35	1.91	2.43	2.92	3.39	4.22	4.59	4.92	5.60	6.04	6.03	5.11
	1.50	1.27	1.61	2.31	4.01	0.76	1.08	1.39	1.97	2.51	3.02	3.51	4.38	4.77	5.12	5.85	6.34	6.43	5.58
	3.00	1.29	1.64	2.35	4.09	0.77	1.10	1.41	2.00	2.56	3.08	3.57	4.47	4.87	5.23	5.99	6.51	6.65	5.85
100	1.00	1.39	1.76	2.53	4.34	0.83	1.18	1.52	2.15	2.74	3.30	3.81	4.72	5.12	5.48	6.16	6.51	6.03	
	1.05	1.41	1.79	2.58	4.44	0.84	1.20	1.55	2.19	2.80	3.36	3.89	4.83	5.24	5.61	6.32	6.70	6.29	
	1.20	1.46	1.86	2.67	4.62	0.87	1.24	1.60	2.27	2.90	3.49	4.04	5.03	5.47	5.86	6.64	7.09	6.80	
	1.50	1.49	1.90	2.74	4.76	0.89	1.27	1.64	2.33	2.98	3.59	4.16	5.19	5.65	6.06	6.89	7.39	7.20	
	3.00	1.51	1.93	2.78	4.84	0.90	1.29	1.66	2.36	3.02	3.65	4.23	5.28	5.75	6.17	7.03	7.56	7.43	
112	1.00	1.66	2.11	3.03	5.22	0.99	1.41	1.82	2.58	3.30	3.96	4.58	5.67	6.14	6.54	7.29	7.59	6.56	
	1.05	1.68	2.14	3.08	5.31	1.00	1.43	1.84	2.62	3.35	4.03	4.66	5.77	6.25	6.68	7.45	7.78	6.82	
	1.20	1.73	2.20	3.17	5.49	1.02	1.47	1.89	2.70	3.45	4.15	4.81	5.98	6.48	6.93	7.77	8.16	7.33	
	1.50	1.76	2.25	3.25	5.64	1.04	1.50	1.93	2.76	3.53	4.25	4.93	6.14	6.66	7.13	8.02	8.47	7.73	
	3.00	1.78	2.28	3.29	5.72	1.06	1.52	1.96	2.79	3.57	4.31	5.00	6.23	6.76	7.24	8.16	8.63	7.95	
125	1.00	1.95	2.48	3.57	6.13	1.16	1.66	2.14	3.04	3.88	4.67	5.39	6.65	7.17	7.62	8.37	8.51		
	1.05	1.97	2.51	3.62	6.22	1.17	1.68	2.16	3.08	3.94	4.73	5.47	6.75	7.29	7.75	8.54	8.71		
	1.20	2.02	2.57	3.71	6.41	1.19	1.72	2.21	3.16	4.04	4.86	5.62	6.96	7.52	8.01	8.85	9.09		
	1.50	2.05	2.62	3.79	6.55	1.21	1.75	2.25	3.22	4.12	4.96	5.74	7.12	7.70	8.21	9.10	9.39		
	3.00	2.07	2.65	3.83	6.63	1.23	1.76	2.28	3.25	4.16	5.02	5.81	7.21	7.80	8.32	9.24	9.56		
140	1.00	2.28	2.91	4.19	7.14	1.35	1.94	2.50	3.56	4.55	5.46	6.30	7.72	8.29	8.76	9.42	9.24		
	1.05	2.30	2.94	4.23	7.23	1.36	1.96	2.53	3.60	4.60	5.53	6.37	7.82	8.41	8.89	9.58	9.44		
	1.20	2.35	3.00	4.33	7.41	1.39	2.00	2.58	3.68	4.70	5.65	6.53	8.03	8.63	9.14	9.90	9.82		
	1.50	2.38	3.05	4.40	7.56	1.41	2.03	2.62	3.74	4.78	5.75	6.65	8.19	8.82	9.34	10.15	10.12		
	3.00	2.40	3.07	4.44	7.64	1.42	2.04	2.64	3.77	4.83	5.81	6.72	8.28	8.92	9.45	10.29	10.29		
160	1.00	2.71	3.47	4.99	8.40	1.60	2.31	2.98	4.24	5.41	6.48	7.45	9.03	9.62	10.06	10.43			
	1.05	2.74	3.50	5.03	8.50	1.62	2.33	3.01	4.28	5.47	6.55	7.53	9.14	9.74	10.20	10.59			
	1.20	2.78	3.56	5.13	8.68	1.64	2.37	3.06	4.36	5.57	6.68	7.68	9.34	9.97	10.45	10.91			
	1.50	2.82	3.60	5.20	8.82	1.66	2.40	3.10	4.42	5.65	6.78	7.80	9.50	10.15	10.65	11.16			
	3.00	2.84	3.63	5.24	8.90	1.67	2.41	3.12	4.45	5.69	6.83	7.87	9.59	10.25	10.76	11.30			
180	1.00	3.14	4.01	5.77	9.56	1.86	2.67	3.45	4.91	6.25	7.47	8.54	10.21	10.77	11.12				
	1.05	3.17	4.05	5.81	9.66	1.87	2.69	3.48	4.95	6.31	7.53	8.62	10.31	10.89	11.25				
	1.20	3.21	4.11	5.91	9.84	1.89	2.73	3.53	5.03	6.41	7.66	8.77	10.52	11.11	11.51				
	1.50	3.25	4.15	5.98	9.98	1.92	2.76	3.57	5.09	6.49	7.76	8.89	10.68	11.30	11.71				
	3.00	3.27	4.18	6.02	10.06	1.93	2.78	3.59	5.12	6.53	7.82	8.96	10.77	11.40	11.82				
200	1.00	3.57	4.55	6.53	10.62	2.11	3.03	3.92	5.57	7.07	8.41	9.56	11.24	11.71	11.90				
	1.05	3.59	4.59	6.57	10.71	2.12	3.05	3.94	5.61	7.12	8.47	9.64	11.34	11.82	12.03				
	1.20	3.64	4.65	6.67	10.89	2.15	3.09	3.99	5.69	7.22	8.60	9.79	11.55	12.05	12.28				
	1.50	3.67	4.69	6.74	11.04	2.17	3.12	4.03	5.75	7.31	8.70	9.92	11.71	12.23	12.48				
	3.00	3.69	4.72	6.78	11.12	2.18	3.14	4.06	5.78	7.35	8.76	9.98	11.80	12.34	12.60				
224	1.00	4.07	5.19	7.41	11.73	2.40	3.46	4.47	6.34	8.02	9.48	10.69	12.26	12.53	12.42				
	1.05	4.10	5.22	7.46	11.82	2.42	3.48	4.49	6.38	8.07	9.54	10.77	12.36	12.65	12.55				
	1.20	4.14	5.28	7.55	12.00	2.44	3.52	4.55	6.45	8.17	9.67	10.92	12.56	12.88	12.81				
	1.50	4.18	5.33	7.62	12.14	2.46	3.55	4.59	6.51	8.25	9.77	11.04	12.72	13.06	13.01				
	3.00	4.20	5.36	7.66	12.22	2.47	3.57	4.61	6.55	8.30	9.83	11.11	12.81	13.16	13.12				

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																
		720	950	1450	2850	400	600	800	1200	1600	2000	2400	3200	3600	4000	5000	6000	8000
90	1.00	1.19	1.48	2.03	3.14	0.74	1.30	1.77	2.18	2.54	2.85	3.32	3.48	3.57	3.61	3.55	3.10	0.67
	1.05	1.25	1.55	2.14	3.36	0.77	1.36	1.86	2.30	2.70	3.04	3.57	3.75	3.88	3.96	3.94	3.57	1.29
	1.20	1.36	1.70	2.36	3.79	0.83	1.48	2.04	2.54	3.00	3.40	4.05	4.29	4.48	4.63	4.69	4.46	2.48
	1.50	1.44	1.81	2.53	4.13	0.88	1.57	2.18	2.73	3.23	3.68	4.43	4.72	4.96	5.17	5.28	5.17	3.43
	3.00	1.49	1.87	2.63	4.31	0.91	1.62	2.26	2.84	3.36	3.84	4.64	4.96	5.22	5.47	5.61	5.57	3.96
100	1.00	1.57	1.97	2.75	4.40	0.96	1.71	2.37	2.96	3.49	3.95	4.69	4.96	5.15	5.28	5.28	4.84	1.89
	1.05	1.63	2.04	2.86	4.62	0.99	1.77	2.47	3.09	3.64	4.14	4.94	5.24	5.46	5.63	5.67	5.30	2.51
	1.20	1.73	2.18	3.08	5.05	1.05	1.89	2.64	3.32	3.94	4.50	5.42	5.77	6.06	6.30	6.41	6.20	3.71
	1.50	1.82	2.30	3.25	5.38	1.10	1.99	2.79	3.51	4.18	4.78	5.80	6.20	6.53	6.83	7.00	6.91	4.65
	3.00	1.87	2.36	3.35	5.57	1.13	2.04	2.87	3.62	4.31	4.94	6.01	6.44	6.80	7.13	7.34	7.31	5.19
112	1.00	2.02	2.55	3.60	5.87	1.23	2.21	3.09	3.89	4.60	5.24	6.28	6.66	6.94	7.14	7.16	6.61	2.65
	1.05	2.08	2.62	3.71	6.09	1.26	2.27	3.18	4.01	4.76	5.43	6.52	6.93	7.25	7.49	7.55	7.07	3.27
	1.20	2.19	2.77	3.93	6.51	1.32	2.39	3.36	4.25	5.06	5.79	7.00	7.47	7.84	8.16	8.30	7.97	4.47
	1.50	2.27	2.88	4.10	6.85	1.36	2.49	3.50	4.44	5.29	6.07	7.38	7.90	8.32	8.69	8.89	8.68	5.41
	3.00	2.32	2.94	4.19	7.04	1.39	2.54	3.58	4.54	5.43	6.23	7.59	8.14	8.58	8.99	9.22	9.07	5.94
125	1.00	2.51	3.17	4.50	7.40	1.51	2.74	3.86	4.87	5.79	6.60	7.91	8.39	8.73	8.96	8.95	8.10	
	1.05	2.56	3.25	4.61	7.62	1.54	2.81	3.95	4.99	5.94	6.79	8.16	8.67	9.04	9.31	9.33	8.56	
	1.20	2.67	3.39	4.83	8.04	1.60	2.92	4.13	5.23	6.24	7.15	8.64	9.21	9.64	9.98	10.08	9.46	
	1.50	2.76	3.50	5.00	8.38	1.65	3.02	4.27	5.42	6.48	7.43	9.02	9.63	10.12	10.52	10.67	10.17	
	3.00	2.80	3.56	5.10	8.57	1.67	3.07	4.35	5.53	6.61	7.59	9.23	9.87	10.38	10.81	11.00	10.57	
140	1.00	3.06	3.88	5.53	9.09	1.83	3.35	4.73	5.99	7.12	8.12	9.70	10.25	10.62	10.80	10.65	9.22	
	1.05	3.12	3.96	5.64	9.31	1.86	3.41	4.82	6.11	7.27	8.31	9.95	10.53	10.93	11.15	11.04	9.68	
	1.20	3.22	4.10	5.86	9.73	1.92	3.53	5.00	6.35	7.57	8.67	10.43	11.07	11.52	11.82	11.78	10.58	
	1.50	3.31	4.21	6.03	10.07	1.97	3.63	5.15	6.54	7.81	8.95	10.81	11.49	12.00	12.35	12.38	11.29	
	3.00	3.36	4.28	6.13	10.26	1.99	3.68	5.22	6.64	7.94	9.11	11.02	11.73	12.26	12.65	12.71	11.69	
160	1.00	3.79	4.82	6.87	11.20	2.26	4.15	5.88	7.44	8.84	10.06	11.89	12.46	12.78	12.76	12.26		
	1.05	3.85	4.89	6.98	11.42	2.29	4.22	5.97	7.56	8.99	10.24	12.14	12.74	13.08	13.11	12.65		
	1.20	3.95	5.03	7.20	11.84	2.35	4.34	6.15	7.80	9.29	10.60	12.62	13.28	13.68	13.78	13.39		
	1.50	4.04	5.15	7.37	12.18	2.39	4.43	6.29	7.99	9.53	10.89	13.00	13.71	14.16	14.32	13.99		
	3.00	4.09	5.21	7.47	12.37	2.42	4.48	6.37	8.10	9.66	11.05	13.21	13.95	14.42	14.61	14.32		
180	1.00	4.51	5.74	8.18	13.13	2.68	4.95	7.00	8.85	10.49	11.88	13.85	14.35	14.49	14.10			
	1.05	4.57	5.81	8.29	13.35	2.71	5.01	7.09	8.97	10.64	12.07	14.09	14.63	14.80	14.45			
	1.20	4.67	5.95	8.51	13.78	2.77	5.13	7.27	9.21	10.94	12.43	14.57	15.17	15.40	15.13			
	1.50	4.76	6.07	8.68	14.12	2.82	5.22	7.41	9.40	11.18	12.71	14.95	15.59	15.87	15.66			
	3.00	4.81	6.13	8.78	14.31	2.84	5.27	7.49	9.51	11.31	12.87	15.16	15.83	16.14	15.96			
200	1.00	5.22	6.65	9.46	14.88	3.10	5.73	8.10	10.22	12.06	13.59	15.54	15.87	15.72				
	1.05	5.28	6.72	9.57	15.10	3.13	5.79	8.19	10.34	12.22	13.78	15.79	16.15	16.03				
	1.20	5.39	6.86	9.79	15.53	3.19	5.91	8.37	10.58	12.52	14.13	16.27	16.69	16.62				
	1.50	5.47	6.97	9.96	15.87	3.23	6.00	8.51	10.77	12.75	14.42	16.64	17.12	17.10				
	3.00	5.52	7.04	10.05	16.06	3.26	6.06	8.59	10.88	12.89	14.58	16.86	17.35	17.36				
224	1.00	6.07	7.71	10.94	16.71	3.59	6.65	9.39	11.80	13.85	15.47	17.20	17.17	16.47				
	1.05	6.12	7.79	11.05	16.93	3.62	6.71	9.48	11.93	14.00	15.65	17.44	17.45	16.78				
	1.20	6.23	7.93	11.27	17.36	3.68	6.83	9.66	12.17	14.30	16.01	17.92	17.99	17.38				
	1.50	6.31	8.04	11.44	17.69	3.73	6.93	9.81	12.36	14.54	16.30	18.30	18.42	17,85				
	3.00	6.36	8.11	11.54	17.88	3.76	6.98	9.89	12.46	14.67	16.46	18.51	18.66	18.12				
250	1.00	6.97	8.85	12.49	18.32	4.13	7.64	10.75	13.44	15.65	17.28	18.48						
	1.05	7.02	8.92	12.60	18.54	4.16	7.70	10.84	13.57	15.80	17.46	18.73						
	1.20	7.13	9.07	12.82	18.97	4.22	7.82	11.02	13.81	16.10	17.82	19.21						
	1.50	7.21	9.18	12.99	19.31	4.26	7.91	11.17	14.00	16.34	18.11	19.59						
	3.00	7.26	9.24	13.08	19.50	4.29	7.96	11.25	14.10	16.47	18.27	19.80						
280	1.00	7.99	10.13	14.19	19.67	4.73	8.75	12.27	15.23	17.53	19.05	19.24						
	1.05	8.04	10.20	14.30	19.89	4.77	8.81	12.36	15.35	17.68	19.23	19.49						
	1.20	8.15	10.35	14.52	20.31	4.83	8.93	12.54	15.59	17.98	19.59	19.96						
	1.50	8.24	10.46	14.69	20.65	4.87	9.03	12.68	15.78	18.22	19.87	20.34						
	3.00	8.28	10.52	14.79	20.84	4.90	9.08	12.76	15.89	18.35	20.03	20.56						
315	1.00	9.16	11.58	16.06		5.44	10.02	13.97	17.16	19.44	20.63							
	1.05	9.21	11.66	16.17		5.47	10.09	14.06	17.28	19.60	20.82							
	1.20	9.32	11.80	16.39		5.53	10.21	14.24	17.52	19.89	21.18							
	1.50	9.40	11.91	16.56		5.58	10.30	14.38	17.71	20.13	21.46							
	3.00	9.45	11.97	16.66		5.60	10.35	14.46	17.82	20.26	21.62							

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	2850	200	400	800	1200	1600	1800	2000	2400	3200	3600	4000	4500	5000	6000
140	1.00	3.54	4.42	6.10	9.13	1.20	2.17	3.85	5.30	6.55	7.10	7.60	8.45	9.44	9.54	9.36	8.68	7.45	3.17
	1.05	3.66	4.58	6.35	9.61	1.24	2.24	3.99	5.50	6.82	7.41	7.94	8.85	9.98	10.15	10.04	9.44	8.30	4.18
	1.20	3.89	4.89	6.83	10.55	1.30	2.37	4.25	5.90	7.35	8.00	8.60	9.64	11.03	11.34	11.35	10.92	9.94	6.16
	1.50	4.08	5.14	7.20	11.29	1.35	2.47	4.46	6.21	7.76	8.47	9.12	10.27	11.87	12.27	12.39	12.09	11.24	7.72
	3.00	4.19	5.28	7.41	11.70	1.38	2.53	4.57	6.38	8.00	8.73	9.41	10.62	12.33	12.80	12.97	12.74	11.97	8.59
160	1.00	4.72	5.94	8.29	12.56	1.57	2.86	5.15	7.16	8.91	9.69	10.40	11.60	13.01	13.15	12.87	11.87	10.08	
	1.05	4.84	6.10	8.53	13.05	1.60	2.93	5.29	7.36	9.18	9.99	10.74	12.00	13.55	13.76	13.55	12.64	10.93	
	1.20	5.08	6.41	9.01	13.98	1.67	3.06	5.55	7.76	9.71	10.59	11.39	12.79	14.60	14.95	14.87	14.12	12.57	
	1.50	5.27	6.66	9.38	14.72	1.72	3.17	5.76	8.07	10.12	11.05	11.91	13.42	15.43	15.88	15.91	15.29	13.87	
	3.00	5.37	6.80	9.60	15.14	1.75	3.22	5.88	8.25	10.36	11.32	12.21	13.77	15.90	16.41	16.49	15.94	14.60	
180	1.00	5.89	7.43	10.41	15.72	1.93	3.55	6.44	8.99	11.21	12.19	13.08	14.56	16.19	16.22	15.67	14.07		
	1.05	6.01	7.59	10.66	16.20	1.96	3.61	6.57	9.19	11.48	12.49	13.42	14.97	16.73	16.83	16.35	14.83		
	1.20	6.25	7.91	11.14	17.14	2.03	3.75	6.84	9.58	12.00	13.09	14.08	15.76	17.78	18.02	17.66	16.31		
	1.50	6.44	8.15	11.51	17.88	2.08	3.85	7.05	9.90	12.42	13.55	14.60	16.38	18.61	18.95	18.70	17.48		
	3.00	6.54	8.29	11.72	18.29	2.11	3.91	7.16	10.07	12.65	13.82	14.89	16.73	19.08	19.48	19.29	18.14		
200	1.00	7.05	8.90	12.49	18.56	2.28	4.23	7.71	10.78	13.43	14.60	15.64	17.34	18.95	18.71	17.67			
	1.05	7.17	9.07	12.73	19.05	2.32	4.29	7.84	10.98	13.71	14.90	15.98	17.75	19.49	19.32	18.35			
	1.20	7.41	9.38	13.21	19.98	2.38	4.42	8.11	11.37	14.23	15.50	16.64	18.54	20.54	20.50	19.67			
	1.50	7.59	9.63	13.59	20.73	2.43	4.53	8.31	11.69	14.65	15.96	17.16	19.16	21.37	21.44	20.71			
	3.00	7.70	9.76	13.80	21.14	2.46	4.59	8.43	11.86	14.88	16.23	17.45	19.51	21.84	21.96	21.29			
224	1.00	8.42	10.64	14.90	21.54	2.71	5.03	9.21	12.87	16.01	17.36	18.55	20.40	21.65	20.83	18.92			
	1.05	8.54	10.80	15.15	22.02	2.74	5.10	9.35	13.08	16.28	17.67	18.89	20.81	22.19	21.44	19.60			
	1.20	8.77	11.12	15.62	22.96	2.81	5.23	9.61	13.47	16.81	18.26	19.55	21.60	23.24	22.63	20.91			
	1.50	8.96	11.36	16.00	23.70	2.86	5.34	9.82	13.78	17.22	18.73	20.07	22.22	24.07	23.56	21.95			
	3.00	9.07	11.50	16.21	24.12	2.89	5.39	9.93	13.96	17.46	18.99	20.36	22.57	24.54	24.09	22.53			
250	1.00	9.88	12.49	17.42	24.17	3.17	5.90	10.81	15.09	18.68	20.19	21.48	23.35	23.75					
	1.05	10.00	12.65	17.67	24.66	3.20	5.97	10.95	15.29	18.95	20.49	21.82	23.76	24.29					
	1.20	10.24	12.96	18.14	25.59	3.27	6.10	11.21	15.69	19.48	21.08	22.47	24.54	25.34					
	1.50	10.42	13.21	18.52	26.33	3.32	6.20	11.42	16.00	19.89	21.55	22.99	25.17	26.17					
	3.00	10.53	13.35	18.73	26.75	3.35	6.26	11.53	16.17	20.13	21.81	23.28	25.52	26.64					
280	1.00	11.54	14.57	20.19	26.36	3.69	6.89	12.62	17.56	21.59	23.21	24.54	26.23	24.99					
	1.05	11.66	14.73	20.44	26.85	3.72	6.96	12.76	17.76	21.86	23.52	24.88	26.64	25.53					
	1.20	11.90	15.04	20.91	27.78	3.79	7.09	13.02	18.16	22.38	24.11	25.54	27.43	26.58					
	1.50	12.09	15.29	21.29	28.53	3.84	7.19	13.23	18.47	22.80	24.57	26.06	28.05	27.42					
	3.00	12.19	15.43	21.50	28.94	3.87	7.25	13.35	18.64	23.03	24.84	26.35	28.40	27.88					
315	1.00	13.44	16.93	23.23		4.29	8.03	14.69	20.32	24.73	26.39	27.66	28.82						
	1.05	13.56	17.09	23.48		4.33	8.10	14.83	20.53	25.00	26.70	28.00	29.23						
	1.20	13.80	17.41	23.96		4.39	8.23	15.09	20.92	25.53	27.29	28.65	30.02						
	1.50	13.99	17.65	24.33		4.45	8.33	15.30	21.23	25.94	27.76	29.17	30.64						
	3.00	14.09	17.79	24.55		4.48	8.39	15.42	21.41	26.18	28.02	29.46	30.99						
355	1.00	15.56	19.54	26.44		4.98	9.32	17.00	23.31	27.96	29.54	30.55	30.66						
	1.05	15.69	19.70	26.68		5.01	9.38	17.13	23.52	28.23	29.84	30.89	31.07						
	1.20	15.92	20.01	27.16		5.08	9.52	17.40	23.91	28.76	30.43	31.54	31.85						
	1.50	16.11	20.26	27.54		5.13	9.62	17.60	24.22	29.17	30.90	32.06	32.48						
	3.00	16.21	20.40	27.75		5.16	9.68	17.72	24.40	29.41	31.16	32.36	32.83						
400	1.00	17.89	22.35	29.66		5.74	10.74	19.51	26.45	31.10	32.37	32.86							
	1.05	18.01	22.51	29.91		5.78	10.81	19.64	26.66	31.37	32.68	33.20							
	1.20	18.25	22.82	30.38		5.84	10.94	19.91	27.05	31.89	33.27	33.85							
	1.50	18.43	23.07	30.76		5.90	11.05	20.11	27.36	32.31	33.74	34.37							
	3.00	18.54	23.21	30.97		5.92	11.11	20.23	27.54	32.54	34.00	34.67							
450	1.00	20.39	25.30	32.72		6.58	12.31	22.19	29.63	33.89	34.57								
	1.05	20.51	25.46	32.97		6.62	12.38	22.33	29.84	34.16	34.87								
	1.20	20.75	25.78	33.44		6.68	12.51	22.59	30.23	34.69	35.46								
	1.50	20.93	26.02	33.82		6.74	12.61	22.80	30.54	35.11	35.93								
	3.00	21.04	26.16	34.03		6.77	12.67	22.91	30.72	35.34	36.19								
500	1.00	22.80	28.07	35.18		7.42	13.85	24.75	32.46	35.89									
	1.05	22.92	28.23	35.43		7.45	13.91	24.89	32.66	36.17									
	1.20	23.16	28.54	35.90		7.52	14.05	25.15	33.06	36.69									
	1.50	23.34	28.79	36.28		7.57	14.15	25.36	33.37	37.11									
	3.00	23.45	28.93	36.49		7.60	14.21	25.48	33.54	37.34									

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	2850	200	300	400	600	800	1200	1600	1800	2000	2400	3200	3600	4000	4500
180	1.00	5.66	7.00	9.42	12.00	1.96	2.76	3.51	4.89	6.14	8.30	10.01	10.69	11.24	11.94	11.47	10.15	8.03	4.10
	1.05	5.86	7.27	9.84	12.82	2.02	2.85	3.63	5.06	6.37	8.64	10.47	11.20	11.81	12.63	12.38	11.19	9.17	5.39
	1.20	6.26	7.80	10.64	14.40	2.13	3.02	3.85	5.40	6.81	9.31	11.36	12.20	12.93	13.96	14.16	13.19	11.40	7.89
	1.50	6.58	8.22	11.28	15.65	2.22	3.15	4.03	5.66	7.17	9.84	12.06	12.99	13.80	15.01	15.57	14.77	13.15	9.87
	3.00	6.76	8.45	11.64	16.36	2.27	3.22	4.12	5.81	7.36	10.13	12.45	13.44	14.30	15.60	16.35	15.65	14.14	10.98
200	1.00	7.17	8.92	12.12	15.60	2.43	3.45	4.40	6.18	7.80	10.63	12.90	13.81	14.55	15.49	14.90	13.16	10.31	
	1.05	7.37	9.20	12.53	16.42	2.49	3.53	4.52	6.35	8.03	10.97	13.36	14.32	15.12	16.18	15.82	14.19	11.46	
	1.20	7.77	9.72	13.34	18.00	2.60	3.70	4.74	6.68	8.47	11.64	14.25	15.32	16.23	17.52	17.60	16.19	13.68	
	1.50	8.09	10.14	13.98	19.25	2.69	3.83	4.91	6.95	8.82	12.17	14.95	16.11	17.11	18.57	19.00	17.77	15.44	
	3.00	8.27	10.38	14.33	19.96	2.74	3.90	5.01	7.09	9.02	12.46	15.34	16.56	17.60	19.16	19.79	18.66	16.42	
224	1.00	8.96	11.19	15.25	19.31	2.99	4.26	5.46	7.70	9.76	13.36	16.24	17.37	18.28	19.38	18.17	15.58	11.45	
	1.05	9.16	11.46	15.67	20.13	3.05	4.34	5.57	7.87	9.99	13.71	16.70	17.89	18.86	20.07	19.09	16.61	12.59	
	1.20	9.56	11.99	16.47	21.71	3.16	4.51	5.80	8.21	10.43	14.37	17.58	18.89	19.97	21.40	20.87	18.61	14.82	
	1.50	9.88	12.41	17.11	22.96	3.25	4.64	5.97	8.47	10.78	14.90	18.29	19.68	20.85	22.46	22.27	20.19	16.57	
	3.00	10.06	12.64	17.46	23.67	3.29	4.72	6.07	8.62	10.98	15.20	18.68	20.12	21.34	23.05	23.06	21.08	17.56	
250	1.00	10.87	13.60	18.51	22.51	3.59	5.13	6.59	9.33	11.85	16.24	19.68	21.00	22.02	23.09	20.57			
	1.05	11.07	13.87	18.92	23.32	3.65	5.22	6.71	9.50	12.08	16.58	20.14	21.52	22.60	23.78	21.49			
	1.20	11.47	14.40	19.73	24.91	3.76	5.38	6.93	9.84	12.52	17.25	21.03	22.52	23.71	25.11	23.27			
	1.50	11.79	14.81	20.37	26.16	3.84	5.51	7.11	10.10	12.87	17.77	21.73	23.31	24.59	26.16	24.68			
	3.00	11.97	15.05	20.72	26.86	3.89	5.59	7.20	10.25	13.07	18.07	22.12	23.75	25.08	26.75	25.46			
280	1.00	13.03	16.31	22.09	25.02	4.27	6.13	7.89	11.19	14.21	19.44	23.42	24.86	25.91	26.64	21.71			
	1.05	13.24	16.58	22.50	25.84	4.33	6.21	8.00	11.36	14.44	19.78	23.88	25.38	26.48	27.33	22.63			
	1.20	13.64	17.11	23.31	27.42	4.44	6.38	8.22	11.69	14.89	20.45	24.76	26.38	27.59	28.67	24.40			
	1.50	13.96	17.52	23.94	28.67	4.53	6.51	8.40	11.95	15.24	20.98	25.47	27.17	28.47	29.72	25.81			
	3.00	14.13	17.76	24.30	29.38	4.58	6.58	8.50	12.10	15.44	21.27	25.86	27.61	28.96	30.31	26.60			
315	1.00	15.51	19.38	25.99		5.07	7.28	9.38	13.31	16.91	23.01	27.43	28.89	29.80	29.72				
	1.05	15.72	19.65	26.41		5.13	7.36	9.49	13.49	17.14	23.36	27.89	29.41	30.37	30.41				
	1.20	16.12	20.18	27.21		5.24	7.53	9.72	13.82	17.58	24.02	28.78	30.41	31.48	31.74				
	1.50	16.43	20.59	27.85		5.32	7.66	9.89	14.08	17.93	24.55	29.48	31.20	32.36	32.80				
	3.00	16.61	20.83	28.21		5.37	7.74	9.99	14.23	18.13	24.85	29.87	31.64	32.85	33.39				
355	1.00	18.28	22.76	30.08		5.97	8.58	11.06	15.70	19.90	26.87	31.52	32.81	33.32	31.68				
	1.05	18.48	23.03	30.49		6.02	8.66	11.18	15.87	20.13	27.21	31.98	33.33	33.89	32.37				
	1.20	18.88	23.56	31.30		6.14	8.83	11.40	16.21	20.58	27.88	32.87	34.33	35.00	33.70				
	1.50	19.20	23.97	31.94		6.22	8.96	11.58	16.47	20.93	28.41	33.57	35.12	35.88	34.76				
	3.00	19.38	24.21	32.29		6.27	9.04	11.67	16.62	21.13	28.70	33.96	35.56	36.37	35.35				
400	1.00	21.30	26.39	34.15		6.97	10.02	12.93	18.33	23.16	30.89	35.43	36.25	35.97					
	1.05	21.51	26.66	34.56		7.02	10.11	13.04	18.50	23.39	31.23	35.88	36.77	36.54					
	1.20	21.91	27.19	35.37		7.14	10.28	13.27	18.83	23.84	31.90	36.77	37.77	37.65					
	1.50	22.22	27.60	36.01		7.22	10.41	13.44	19.10	24.19	32.43	37.48	38.56	38.53					
	3.00	22.40	27.84	36.36		7.27	10.48	13.54	19.24	24.38	32.72	37.87	39.00	39.02					
450	1.00	24.54	30.19	37.95		8.07	11.61	14.97	21.17	26.63	34.93	38.81	38.74						
	1.05	24.75	30.46	38.36		8.13	11.70	15.09	21.34	26.86	35.27	39.27	39.25						
	1.20	25.15	30.99	39.17		8.24	11.86	15.31	21.68	27.31	35.94	40.16	40.25						
	1.50	25.47	31.41	39.81		8.32	12.00	15.48	21.94	27.66	36.47	40.87	41.04						
	3.00	25.64	31.64	40.16		8.37	12.07	15.58	22.09	27.86	36.76	41.26	41.49						
500	1.00	27.66	33.74	40.92		9.16	13.18	16.98	23.93	29.94	38.48	41.10							
	1.05	27.87	34.01	41.33		9.22	13.27	17.09	24.11	30.17	38.83	41.56							
	1.20	28.27	34.54	42.14		9.33	13.43	17.32	24.44	30.62	39.49	42.45							
	1.50	28.58	34.96	42.77		9.41	13.56	17.49	24.70	30.97	40.02	43.15							
	3.00	28.76	35.19	43.13		9.46	13.64	17.59	24.85	31.16	40.32	43.55							
560	1.00	31.23	37.63	43.27		10.45	15.03	19.34	27.14	33.68	42.04	42.24							
	1.05	31.43	37.90	43.68		10.51	15.12	19.46	27.31	33.91	42.38	42.69							
	1.20	31.83	38.43	44.49		10.62	15.29	19.68	27.64	34.35	43.05	43.58							
	1.50	32.15	38.84	45.12		10.71	15.42	19.86	27.91	34.70	43.58	44.29							
	3.00	32.33	39.08	45.48		10.76	15.49	19.96	28.05	34.90	43.87	44.68							
630	1.00	35.12	41.61			11.95	17.16	22.04	30.71	37.69	45.12								
	1.05	35.33	41.88			12.00	17.25	22.16	30.88	37.92	45.46								
	1.20	35.73	42.41			12.11	17.42	22.38	31.22	38.37	46.13								
	1.50	36.05	42.82			12.20	17.55	22.55	31.48	38.72	46.66								
	3.00	36.22	43.06			12.25	17.62	22.65	31.63	38.91	46.95								

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	2850	200	300	400	500	600	800	1200	1600	1800	2000	2200	2400	3200	3600
224	1.00	10.70	13.30	17.87	20.91	3.63	5.15	6.58	7.94	9.23	11.64	15.77	18.94	20.11	21.00	21.56	21.78	18.78	14.60
	1.05	11.04	13.74	18.55	22.23	3.72	5.29	6.77	8.17	9.51	12.01	16.33	19.68	20.95	21.92	22.58	22.89	20.26	16.27
	1.20	11.69	14.60	19.85	24.80	3.90	5.56	7.13	8.62	10.05	12.73	17.41	21.12	22.57	23.72	24.56	25.05	23.14	19.51
	1.50	12.20	15.27	20.88	26.83	4.05	5.77	7.41	8.98	10.48	13.30	18.27	22.26	23.85	25.15	26.13	26.76	25.42	22.07
	3.00	12.49	15.65	21.46	27.96	4.13	5.89	7.57	9.18	10.72	13.62	18.75	22.90	24.57	25.95	27.00	27.72	26.70	23.51
250	1.00	13.42	16.73	22.56	25.80	4.48	6.38	8.19	9.90	11.54	14.61	19.89	23.90	25.37	26.44	27.08	27.27	22.68	
	1.05	13.75	17.17	23.23	27.13	4.57	6.52	8.37	10.14	11.82	14.98	20.45	24.64	26.21	27.37	28.11	28.38	24.17	
	1.20	14.40	18.02	24.53	29.69	4.75	6.79	8.73	10.59	12.36	15.70	21.52	26.08	27.83	29.17	30.09	30.54	27.05	
	1.50	14.91	18.70	25.57	31.72	4.89	7.01	9.02	10.94	12.79	16.27	22.38	27.22	29.11	30.60	31.65	32.25	29.32	
	3.00	15.20	19.08	26.15	32.86	4.97	7.12	9.18	11.14	13.03	16.59	22.86	27.86	29.83	31.39	32.53	33.21	30.60	
280	1.00	16.50	20.60	27.71	29.88	5.44	7.79	10.02	12.14	14.18	17.98	24.48	29.31	31.00	32.15	32.71	32.63	24.99	
	1.05	16.84	21.04	28.39	31.21	5.54	7.93	10.20	12.38	14.46	18.35	25.04	30.05	31.84	33.08	33.73	33.75	26.48	
	1.20	17.48	21.89	29.69	33.77	5.72	8.20	10.56	12.83	15.00	19.07	26.12	31.49	33.46	34.88	35.71	35.91	29.35	
	1.50	18.00	22.57	30.72	35.80	5.86	8.41	10.85	13.18	15.42	19.64	26.97	32.63	34.74	36.30	37.28	37.61	31.63	
	3.00	18.28	22.95	31.30	36.94	5.94	8.53	11.01	13.38	15.66	19.96	27.45	33.27	35.46	37.10	38.15	38.57	32.91	
315	1.00	20.03	24.99	33.38		6.56	9.42	12.13	14.73	17.20	21.83	29.62	35.16	36.93	37.95	38.15	37.45		
	1.05	20.37	25.43	34.05		6.66	9.56	12.32	14.96	17.48	22.20	30.18	35.90	37.77	38.88	39.17	38.57		
	1.20	21.01	26.28	35.35		6.84	9.83	12.68	15.41	18.02	22.92	31.26	37.34	39.38	40.68	41.15	40.73		
	1.50	21.53	26.96	36.39		6.98	10.04	12.96	15.76	18.45	23.49	32.11	38.48	40.67	42.10	42.71	42.44		
	3.00	21.81	27.34	36.97		7.06	10.16	13.12	15.96	18.69	23.81	32.59	39.12	41.38	42.90	43.59	43.40		
335	1.00	22.02	27.43	36.43		7.20	10.34	13.33	16.18	18.91	23.98	32.45	38.26	39.98	40.81	40.66	39.46		
	1.05	22.35	27.88	37.10		7.29	10.48	13.52	16.42	19.19	24.35	33.01	39.00	40.82	41.74	41.69	40.57		
	1.20	23.00	28.73	38.41		7.47	10.75	13.88	16.87	19.73	25.07	34.09	40.44	42.44	43.54	43.67	42.73		
	1.50	23.51	29.41	39.44		7.61	10.96	14.16	17.22	20.16	25.64	34.94	41.58	43.72	44.96	45.23	44.44		
	3.00	23.80	29.79	40.02		7.69	11.08	14.32	17.42	20.40	25.96	35.42	42.22	44.44	45.76	46.11	45.40		
355	1.00	23.98	29.83	39.34		7.83	11.26	14.52	17.63	20.60	26.11	35.19	41.17	42.78	43.33	42.73	40.87		
	1.05	24.31	30.28	40.01		7.92	11.40	14.71	17.86	20.88	26.48	35.75	41.92	43.62	44.26	43.75	41.98		
	1.20	24.96	31.13	41.32		8.10	11.67	15.07	18.31	21.42	27.20	36.83	43.36	45.24	46.06	45.73	44.14		
	1.50	25.47	31.81	42.35		8.25	11.88	15.35	18.67	21.85	27.77	37.68	44.50	46.52	47.48	47.29	45.85		
	3.00	25.76	32.19	42.93		8.33	12.00	15.51	18.87	22.09	28.09	38.16	45.14	47.23	48.28	48.17	46.81		
400	1.00	28.30	35.06	45.34		9.24	13.31	17.17	20.85	24.35	30.77	41.03	47.01	48.06	47.63	45.56			
	1.05	28.63	35.50	46.01		9.34	13.45	17.36	21.08	24.63	31.15	41.59	47.75	48.90	48.56	46.59			
	1.20	29.28	36.35	47.31		9.52	13.72	17.72	21.53	25.17	31.87	42.67	49.19	50.52	50.36	48.57			
	1.50	29.79	37.03	48.35		9.66	13.93	18.00	21.89	25.59	32.44	43.52	50.33	51.80	51.78	50.13			
	3.00	30.08	37.41	48.93		9.74	14.05	18.16	22.09	25.83	32.76	44.00	50.97	52.52	52.58	51.01			
450	1.00	32.95	40.55	51.03		10.80	15.56	20.07	24.36	28.41	35.76	46.95	52.22	52.14					
	1.05	33.28	41.00	51.71		10.89	15.70	20.26	24.59	28.69	36.13	47.51	52.96	52.97					
	1.20	33.93	41.85	53.01		11.07	15.97	20.62	25.04	29.23	36.85	48.59	54.40	54.59					
	1.50	34.44	42.53	54.04		11.22	16.18	20.90	25.39	29.65	37.42	49.44	55.54	55.87					
	3.00	34.73	42.91	54.62		11.30	16.30	21.06	25.59	29.89	37.74	49.92	56.18	56.59					
500	1.00	37.43	45.71	55.61		12.34	17.78	22.93	27.79	32.36	40.53	52.21	55.94						
	1.05	37.76	46.15	56.29		12.44	17.92	23.11	28.02	32.64	40.90	52.77	56.68						
	1.20	38.41	47.00	57.59		12.62	18.19	23.47	28.47	33.18	41.62	53.85	58.12						
	1.50	38.92	47.68	58.62		12.76	18.40	23.76	28.83	33.61	42.19	54.70	59.26						
	3.00	39.21	48.06	59.20		12.84	18.52	23.92	29.03	33.85	42.51	55.18	59.90						
560	1.00	42.56	51.39	59.48		14.18	20.41	26.30	31.82	36.95	45.94	57.58	58.25						
	1.05	42.90	51.83	60.15		14.27	20.55	26.48	32.05	37.23	46.31	58.13	58.99						
	1.20	43.55	52.69	61.46		14.45	20.82	26.84	32.50	37.77	47.03	59.21	60.43						
	1.50	44.06	53.37	62.49		14.59	21.04	27.13	32.85	38.20	47.60	60.07	61.57						
	3.00	44.35	53.74	63.07		14.67	21.16	27.29	33.05	38.44	47.92	60.55	62.21						
630	1.00	48.21	57.28			16.29	23.44	30.14	36.37	42.09	51.79	62.40							
	1.05	48.55	57.73			16.38	23.58	30.33	36.61	42.37	52.16	62.96							
	1.20	49.19	58.58			16.56	23.85	30.69	37.06	42.91	52.88	64.04							
	1.50	49.71	59.26			16.70	24.06	30.97	37.41	43.34	53.45	64.89							
	3.00	49.99	59.64			16.78	24.18	31.13	37.61	43.58	53.77	65.37							
710	1.00	54.16	62.94			18.68	26.84	34.42	41.39	47.66	57.80	65.81							
	1.05	54.50	63.38			18.77	26.98	34.61	41.62	47.94	58.18	66.37							
	1.20	55.15	64.24			18.95	27.25	34.97	42.07	48.48	58.90	67.45							
	1.50	55.66	64.91			19.09	27.46	35.25	42.43	48.91	59.47	68.30							
	3.00	55.95	65.29			19.17	27.58	35.41	42.63	49.15	59.78	68.78							

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	100	200	300	400	500	600	800	1200	1600	1800	2000	2200	2400	2600
315	1.00	22.91	28.05	35.66	4.30	7.88	11.17	14.25	17.15	19.87	24.81	32.51	36.84	37.52	37.08	35.42	32.43	28.01
	1.05	23.59	28.94	37.02	4.39	8.07	11.45	14.63	17.61	20.43	25.55	33.64	38.34	39.21	38.95	37.48	34.68	30.45
	1.20	24.89	30.66	39.64	4.57	8.43	12.00	15.35	18.52	21.52	27.01	35.81	41.24	42.47	42.58	41.47	39.03	35.16
	1.50	25.92	32.02	41.72	4.72	8.72	12.43	15.92	19.24	22.38	28.15	37.53	43.54	45.05	45.45	44.62	42.47	38.89
	3.00	26.50	32.79	42.89	4.80	8.88	12.67	16.25	19.64	22.86	28.80	38.50	44.82	46.50	47.06	46.39	44.40	40.98
335	1.00	25.92	31.76	40.31	4.80	8.85	12.57	16.07	19.36	22.46	28.08	36.81	41.58	42.20	41.49	39.33	35.58	
	1.05	26.60	32.65	41.67	4.90	9.03	12.85	16.44	19.83	23.02	28.83	37.93	43.07	43.89	43.36	41.39	37.83	
	1.20	27.90	34.38	44.29	5.08	9.40	13.40	17.17	20.73	24.11	30.28	40.11	45.98	47.15	46.99	45.38	42.18	
	1.50	28.94	35.74	46.37	5.22	9.68	13.83	17.74	21.45	24.97	31.42	41.83	48.27	49.73	49.86	48.53	45.63	
	3.00	29.51	36.50	47.54	5.30	9.84	14.07	18.06	21.85	25.45	32.07	42.79	49.56	51.18	51.47	50.30	47.56	
355	1.00	28.90	35.41	44.75	5.31	9.80	13.96	17.87	21.55	25.02	31.30	40.98	46.03	46.49	45.38	42.56	37.86	
	1.05	29.57	36.30	46.10	5.40	9.99	14.25	18.25	22.02	25.58	32.05	42.10	47.53	48.18	47.26	44.62	40.11	
	1.20	30.88	38.02	48.73	5.58	10.35	14.79	18.97	22.93	26.67	33.50	44.28	50.43	51.44	50.88	48.61	44.46	
	1.50	31.91	39.38	50.81	5.73	10.64	15.22	19.54	23.64	27.53	34.65	46.00	52.73	54.02	53.75	51.76	47.90	
	3.00	32.49	40.15	51.98	5.81	10.80	15.46	19.87	24.05	28.01	35.29	46.97	54.02	55.47	55.36	53.53	49.84	
400	1.00	35.45	43.35	53.91	6.43	11.95	17.07	21.89	26.43	30.70	38.39	49.87	54.98	54.65	52.11	47.15		
	1.05	36.13	44.24	55.27	6.53	12.14	17.35	22.26	26.90	31.26	39.14	51.00	56.48	56.34	53.98	49.21		
	1.20	37.43	45.96	57.90	6.71	12.50	17.90	22.99	27.81	32.35	40.59	53.17	59.38	59.60	57.61	53.20		
	1.50	38.47	47.32	59.98	6.85	12.78	18.33	23.56	28.52	33.21	41.73	54.89	61.68	62.18	60.48	56.35		
	3.00	39.04	48.09	61.15	6.93	12.95	18.57	23.88	28.92	33.69	42.38	55.86	62.97	63.63	62.09	58.12		
450	1.00	42.51	51.71	62.66	7.67	14.31	20.48	26.29	31.75	36.86	45.96	58.90	63.03	61.05				
	1.05	43.18	52.60	64.02	7.77	14.49	20.76	26.66	32.22	37.42	46.71	60.03	64.53	62.74				
	1.20	44.49	54.32	66.65	7.95	14.86	21.31	27.39	33.12	38.51	48.16	62.20	67.43	66.00				
	1.50	45.52	55.68	68.73	8.09	15.14	21.74	27.96	33.84	39.37	49.31	63.93	69.72	68.58				
	3.00	46.10	56.45	69.90	8.17	15.31	21.98	28.28	34.24	39.85	49.95	64.89	71.01	70.03				
500	1.00	49.31	59.55	69.74	8.91	16.64	23.85	30.62	36.96	42.86	53.21	66.96	68.86					
	1.05	49.99	60.44	71.10	9.00	16.83	24.13	30.99	37.43	43.42	53.96	68.08	70.36					
	1.20	51.29	62.16	73.73	9.18	17.19	24.68	31.72	38.33	44.51	55.41	70.26	73.26					
	1.50	52.33	63.53	75.81	9.32	17.48	25.11	32.29	39.05	45.37	56.56	71.98	75.56					
	3.00	52.91	64.29	76.98	9.40	17.64	25.35	32.61	39.45	45.85	57.20	72.94	76.85					
560	1.00	57.13	68.23	75.82	10.37	19.42	27.85	35.73	43.07	49.83	61.44	75.21	72.65					
	1.05	57.80	69.12	77.18	10.47	19.61	28.13	36.10	43.54	50.40	62.19	76.33	74.15					
	1.20	59.11	70.84	79.81	10.65	19.97	28.67	36.83	44.44	51.48	63.64	78.51	77.05					
	1.50	60.14	72.20	81.89	10.79	20.26	29.10	37.40	45.16	52.34	64.79	80.23	79.35					
	3.00	60.72	72.97	83.05	10.87	20.42	29.34	37.72	45.56	52.83	65.43	81.20	80.63					
600	1.00	62.11	73.53	78.28	11.34	21.26	30.48	39.08	47.05	54.34	66.63	79.78						
	1.05	62.78	74.42	79.63	11.44	21.45	30.76	39.45	47.52	54.90	67.38	80.91						
	1.20	64.09	76.14	82.26	11.62	21.81	31.30	40.18	48.42	55.99	68.83	83.08						
	1.50	65.12	77.51	84.34	11.76	22.10	31.73	40.75	49.14	56.85	69.98	84.80						
	3.00	65.70	78.27	85.51	11.84	22.26	31.97	41.07	49.54	57.33	70.62	85.77						
630	1.00	65.72	77.24		12.07	22.63	32.43	41.56	49.98	57.64	70.35	82.70						
	1.05	66.39	78.13		12.16	22.82	32.72	41.94	50.45	58.21	71.10	83.82						
	1.20	67.70	79.85		12.35	23.18	33.26	42.66	51.36	59.29	72.55	86.00						
	1.50	68.73	81.22		12.49	23.47	33.69	43.23	52.08	60.15	73.70	87.72						
	3.00	69.31	81.98		12.57	23.63	33.93	43.56	52.48	60.64	74.34	88.68						
710	1.00	74.79	85.94		13.99	26.25	37.59	48.06	57.60	66.11	79.54	88.13						
	1.05	75.47	86.83		14.09	26.44	37.87	48.43	58.07	66.67	80.29	89.25						
	1.20	76.77	88.55		14.27	26.80	38.41	49.16	58.98	67.76	81.74	91.43						
	1.50	77.81	89.91		14.41	27.09	38.84	49.73	59.69	68.62	82.89	93.15						
	3.00	78.39	90.68		14.49	27.25	39.08	50.05	60.10	69.11	83.54	94.12						
750	1.00	79.01	89.59		14.95	28.04	40.13	51.24	61.29	70.15	83.71							
	1.05	79.69	90.48		15.04	28.23	40.41	51.61	61.76	70.71	84.46							
	1.20	80.99	92.20		15.22	28.59	40.95	52.34	62.66	71.80	85.91							
	1.50	82.02	93.57		15.37	28.88	41.38	52.91	63.38	72.66	87.06							
	3.00	82.60	94.33		15.45	29.04	41.62	53.23	63.78	73.14	87.70							
800	1.00	83.97	93.46		16.14	30.27	43.27	55.14	65.78	75.01	88.50							
	1.05	84.64	94.35		16.23	30.45	43.55	55.52	66.25	75.57	89.25							
	1.20	85.95	96.08		16.41	30.82	44.09	56.24	67.15	76.66	90.70							
	1.50	86.98	97.44		16.56	31.10	44.52	56.82	67.87	77.52	91.84							
	3.00	87.56	98.20		16.64	31.26	44.76	57.14	68.27	78.00	92.49							

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	2850	400	600	800	1200	1600	2000	2400	3200	3600	4000	5000	6000	8000	9500
50	1.00	0.38	0.47	0.65	1.07	0.23	0.33	0.41	0.56	0.70	0.83	0.95	1.16	1.25	1.33	1.51	1.63	1.73	1.64
	1.05	0.40	0.49	0.69	1.14	0.24	0.34	0.43	0.60	0.75	0.88	1.01	1.24	1.34	1.44	1.64	1.79	1.93	1.89
	1.20	0.43	0.54	0.76	1.29	0.26	0.37	0.47	0.66	0.83	0.98	1.13	1.40	1.52	1.64	1.89	2.09	2.33	2.36
	1.50	0.46	0.58	0.82	1.40	0.28	0.39	0.50	0.70	0.89	1.06	1.23	1.53	1.66	1.79	2.08	2.32	2.65	2.73
	3.00	0.48	0.60	0.85	1.46	0.29	0.41	0.52	0.73	0.92	1.11	1.28	1.60	1.74	1.88	2.19	2.46	2.82	2.94
56	1.00	0.51	0.65	0.91	1.55	0.31	0.44	0.56	0.78	0.99	1.18	1.36	1.69	1.84	1.98	2.28	2.52	2.79	2.79
	1.05	0.53	0.67	0.95	1.62	0.32	0.46	0.58	0.81	1.03	1.23	1.42	1.77	1.93	2.08	2.41	2.68	3.00	3.04
	1.20	0.57	0.72	1.02	1.76	0.34	0.49	0.62	0.87	1.11	1.33	1.54	1.93	2.11	2.28	2.66	2.98	3.40	3.51
	1.50	0.60	0.75	1.08	1.88	0.36	0.51	0.65	0.92	1.17	1.41	1.64	2.06	2.25	2.44	2.86	3.21	3.71	3.88
	3.00	0.61	0.78	1.11	1.94	0.37	0.52	0.67	0.95	1.21	1.45	1.69	2.13	2.33	2.52	2.97	3.35	3.89	4.09
63	1.00	0.67	0.85	1.21	2.10	0.40	0.57	0.73	1.03	1.32	1.58	1.83	2.30	2.51	2.71	3.16	3.52	3.97	4.01
	1.05	0.69	0.87	1.25	2.17	0.41	0.59	0.75	1.06	1.36	1.63	1.89	2.38	2.60	2.82	3.29	3.68	4.17	4.26
	1.20	0.72	0.92	1.32	2.32	0.43	0.62	0.79	1.12	1.44	1.73	2.01	2.54	2.78	3.01	3.54	3.98	4.57	4.73
	1.50	0.75	0.96	1.38	2.43	0.45	0.64	0.82	1.17	1.50	1.81	2.11	2.67	2.93	3.17	3.73	4.21	4.89	5.11
	3.00	0.77	0.98	1.41	2.49	0.46	0.65	0.84	1.20	1.54	1.86	2.16	2.74	3.01	3.26	3.85	4.35	5.06	5.32
71	1.00	0.85	1.08	1.55	2.72	0.50	0.72	0.93	1.32	1.69	2.04	2.37	2.98	3.27	3.53	4.13	4.62	5.20	5.24
	1.05	0.87	1.10	1.59	2.79	0.52	0.74	0.95	1.35	1.73	2.09	2.43	3.07	3.36	3.64	4.26	4.77	5.40	5.49
	1.20	0.90	1.15	1.66	2.94	0.54	0.77	0.99	1.41	1.81	2.19	2.55	3.22	3.54	3.84	4.51	5.07	5.80	5.96
	1.50	0.93	1.19	1.72	3.05	0.55	0.79	1.02	1.46	1.87	2.27	2.64	3.35	3.68	3.99	4.71	5.31	6.12	6.34
	3.00	0.95	1.21	1.75	3.11	0.56	0.80	1.04	1.48	1.91	2.31	2.70	3.42	3.76	4.08	4.82	5.44	6.30	6.55
80	1.00	1.04	1.33	1.93	3.41	0.62	0.89	1.15	1.64	2.10	2.54	2.96	3.74	4.10	4.43	5.18	5.78	6.44	6.39
	1.05	1.06	1.36	1.97	3.48	0.63	0.90	1.17	1.67	2.14	2.59	3.02	3.82	4.19	4.54	5.31	5.93	6.64	6.63
	1.20	1.10	1.41	2.04	3.62	0.65	0.93	1.21	1.73	2.22	2.69	3.14	3.98	4.37	4.74	5.56	6.23	7.04	7.11
	1.50	1.13	1.44	2.10	3.73	0.67	0.96	1.24	1.77	2.28	2.77	3.24	4.11	4.51	4.89	5.76	6.47	7.36	7.48
	3.00	1.14	1.46	2.13	3.80	0.67	0.97	1.26	1.80	2.32	2.81	3.29	4.18	4.59	4.98	5.87	6.60	7.53	7.69
90	1.00	1.26	1.62	2.34	4.15	0.75	1.07	1.39	1.99	2.55	3.09	3.61	4.56	4.99	5.40	6.29	6.98	7.61	7.33
	1.05	1.28	1.64	2.38	4.23	0.76	1.09	1.41	2.02	2.59	3.14	3.67	4.64	5.09	5.51	6.42	7.13	7.82	7.58
	1.20	1.32	1.69	2.45	4.37	0.78	1.12	1.45	2.08	2.67	3.24	3.79	4.80	5.27	5.70	6.67	7.43	8.22	8.05
	1.50	1.35	1.72	2.51	4.48	0.79	1.14	1.48	2.12	2.74	3.32	3.88	4.93	5.41	5.86	6.87	7.67	8.53	8.42
	3.00	1.36	1.75	2.54	4.54	0.80	1.16	1.50	2.15	2.77	3.37	3.94	5.00	5.49	5.95	6.98	7.80	8.71	8.63
100	1.00	1.48	1.90	2.75	4.88	0.87	1.26	1.63	2.33	3.00	3.64	4.24	5.36	5.86	6.33	7.34	8.07	8.56	7.89
	1.05	1.50	1.92	2.79	4.96	0.88	1.27	1.65	2.36	3.04	3.69	4.30	5.44	5.96	6.44	7.47	8.23	8.76	8.14
	1.20	1.53	1.97	2.86	5.10	0.90	1.30	1.69	2.42	3.12	3.79	4.42	5.60	6.14	6.64	7.72	8.53	9.16	8.61
	1.50	1.56	2.00	2.92	5.21	0.92	1.32	1.72	2.47	3.18	3.87	4.52	5.72	6.28	6.79	7.92	8.76	9.48	8.99
	3.00	1.58	2.03	2.95	5.28	0.93	1.34	1.74	2.50	3.22	3.91	4.57	5.80	6.36	6.88	8.03	8.90	9.65	9.20
112	1.00	1.74	2.23	3.24	5.74	1.02	1.47	1.91	2.74	3.53	4.28	4.99	6.29	6.87	7.40	8.51	9.24	9.35	
	1.05	1.76	2.25	3.28	5.81	1.03	1.49	1.93	2.77	3.57	4.33	5.05	6.37	6.96	7.50	8.64	9.39	9.56	
	1.20	1.79	2.30	3.35	5.96	1.05	1.52	1.97	2.83	3.65	4.43	5.17	6.53	7.14	7.70	8.88	9.69	9.96	
	1.50	1.82	2.34	3.41	6.07	1.07	1.54	2.00	2.88	3.72	4.51	5.27	6.65	7.28	7.86	9.08	9.93	10.27	
	3.00	1.84	2.36	3.44	6.13	1.08	1.56	2.02	2.91	3.75	4.55	5.32	6.72	7.36	7.95	9.19	10.06	10.45	
125	1.00	2.01	2.58	3.76	6.64	1.18	1.71	2.21	3.18	4.10	4.96	5.78	7.26	7.91	8.49	9.65	10.30	9.75	
	1.05	2.03	2.61	3.80	6.71	1.19	1.72	2.23	3.21	4.14	5.02	5.84	7.34	8.00	8.60	9.78	10.45	9.96	
	1.20	2.07	2.66	3.87	6.85	1.21	1.75	2.27	3.27	4.22	5.12	5.96	7.50	8.18	8.79	10.03	10.75	10.36	
	1.50	2.10	2.69	3.93	6.97	1.23	1.78	2.31	3.32	4.28	5.19	6.06	7.62	8.32	8.95	10.22	10.99	10.67	
	3.00	2.11	2.71	3.96	7.03	1.24	1.79	2.32	3.35	4.32	5.24	6.11	7.69	8.40	9.04	10.33	11.12	10.85	
140	1.00	2.33	2.99	4.35	7.64	1.36	1.97	2.56	3.68	4.74	5.74	6.67	8.32	9.03	9.66	10.80	11.24		
	1.05	2.35	3.01	4.39	7.71	1.37	1.99	2.58	3.71	4.78	5.79	6.73	8.41	9.13	9.76	10.92	11.39		
	1.20	2.38	3.06	4.46	7.85	1.39	2.02	2.62	3.77	4.86	5.89	6.85	8.57	9.31	9.96	11.17	11.69		
	1.50	2.41	3.10	4.52	7.96	1.41	2.04	2.65	3.82	4.92	5.97	6.95	8.69	9.45	10.12	11.37	11.93		
	3.00	2.43	3.12	4.55	8.03	1.42	2.06	2.67	3.85	4.96	6.01	7.00	8.76	9.53	10.21	11.48	12.06		
160	1.00	2.75	3.53	5.13	8.90	1.61	2.33	3.02	4.34	5.58	6.74	7.81	9.66	10.41	11.05	12.01	11.96		
	1.05	2.76	3.55	5.16	8.97	1.62	2.34	3.04	4.37	5.62	6.79	7.87	9.74	10.50	11.15	12.14	12.12		
	1.20	2.80	3.60	5.24	9.11	1.64	2.37	3.08	4.43	5.70	6.89	7.99	9.90	10.68	11.35	12.39	12.41		
	1.50	2.83	3.64	5.29	9.23	1.65	2.40	3.11	4.48	5.77	6.97	8.08	10.02	10.83	11.51	12.59	12.65		
	3.00	2.85	3.66	5.32	9.29	1.66	2.41	3.13	4.51	5.80	7.01	8.14	10.09	10.91	11.59	12.70	12.78		
180	1.00	3.16	4.05	5.88	10.08	1.85	2.68	3.47	4.99	6.40	7.71	8.90	10.87	11.63	12.22	12.83			
	1.05	3.18	4.08	5.92	10.15	1.86	2.69	3.49	5.02	6.44	7.76	8.96	10.96	11.73	12.32	12.96			
	1.20	3.21	4.13	5.99	10.29	1.88	2.72	3.53	5.08	6.52	7.86	9.08	11.12	11.91	12.52	13.21			
	1.50	3.24	4.16	6.05	10.41	1.89	2.75	3.57	5.13	6.58	7.94	9.17	11.24	12.05	12.68	13.41			
	3.00	3.26	4.18	6.08	10.47	1.90	2.76	3.58	5.15	6.62	7.98	9.22	11.31	12.13	12.77	13.52			

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	2850	400	600	800	1200	1600	2000	2400	3200	3600	4000	5000	6000	8000	9500
63	1.00	0.53	0.65	0.86	1.23	0.35	0.47	0.58	0.76	0.91	1.04	1.14	1.29	1.33	1.36	1.33	1.18	0.43	
	1.05	0.58	0.71	0.95	1.41	0.37	0.50	0.62	0.83	1.01	1.16	1.29	1.48	1.55	1.60	1.64	1.54	0.92	
	1.20	0.66	0.82	1.12	1.74	0.42	0.57	0.72	0.97	1.20	1.39	1.57	1.86	1.98	2.07	2.23	2.25	1.86	1.14
	1.50	0.73	0.91	1.25	2.01	0.45	0.63	0.79	1.09	1.35	1.58	1.79	2.16	2.31	2.45	2.69	2.81	2.61	2.02
	3.00	0.77	0.96	1.33	2.16	0.48	0.66	0.83	1.15	1.43	1.69	1.92	2.33	2.50	2.65	2.95	3.12	3.03	2.52
71	1.00	0.83	1.03	1.42	2.28	0.52	0.72	0.90	1.23	1.53	1.80	2.04	2.44	2.60	2.74	2.98	3.04	2.57	1.62
	1.05	0.87	1.09	1.51	2.45	0.54	0.75	0.95	1.31	1.63	1.92	2.18	2.63	2.82	2.99	3.28	3.41	3.06	2.20
	1.20	0.96	1.20	1.68	2.78	0.59	0.82	1.04	1.45	1.82	2.15	2.47	3.01	3.25	3.46	3.87	4.11	4.00	3.32
	1.50	1.03	1.29	1.82	3.05	0.63	0.88	1.12	1.56	1.97	2.34	2.69	3.31	3.58	3.83	4.34	4.67	4.75	4.20
	3.00	1.06	1.34	1.89	3.20	0.65	0.91	1.16	1.62	2.05	2.45	2.81	3.48	3.77	4.04	4.60	4.99	5.16	4.70
80	1.00	1.16	1.46	2.06	3.43	0.71	1.00	1.27	1.77	2.22	2.64	3.03	3.71	4.00	4.26	4.76	5.03	4.75	3.71
	1.05	1.20	1.52	2.14	3.60	0.73	1.03	1.32	1.84	2.32	2.76	3.18	3.91	4.22	4.51	5.07	5.40	5.24	4.29
	1.20	1.29	1.63	2.31	3.94	0.78	1.10	1.41	1.98	2.51	3.00	3.46	4.28	4.65	4.98	5.66	6.10	6.18	5.41
	1.50	1.36	1.72	2.45	4.20	0.82	1.16	1.48	2.09	2.66	3.19	3.68	4.58	4.98	5.35	6.12	6.66	6.93	6.29
	3.00	1.39	1.77	2.53	4.35	0.84	1.19	1.53	2.15	2.74	3.29	3.81	4.75	5.17	5.56	6.39	6.98	7.34	6.79
90	1.00	1.52	1.93	2.75	4.69	0.92	1.30	1.67	2.35	2.98	3.57	4.12	5.09	5.52	5.90	6.66	7.10	6.87	5.53
	1.05	1.57	1.99	2.84	4.86	0.94	1.34	1.72	2.42	3.08	3.69	4.26	5.29	5.74	6.15	6.97	7.47	7.35	6.11
	1.20	1.65	2.10	3.01	5.19	0.99	1.41	1.81	2.56	3.27	3.93	4.55	5.66	6.16	6.62	7.56	8.18	8.30	7.23
	1.50	1.72	2.19	3.14	5.46	1.03	1.47	1.89	2.68	3.42	4.11	4.77	5.96	6.50	6.99	8.02	8.73	9.04	8.11
	3.00	1.76	2.24	3.22	5.61	1.05	1.50	1.93	2.74	3.50	4.22	4.89	6.13	6.69	7.20	8.28	9.05	9.46	8.61
100	1.00	1.89	2.40	3.44	5.92	1.13	1.61	2.07	2.93	3.73	4.48	5.19	6.44	6.99	7.49	8.46	9.02	8.63	6.77
	1.05	1.93	2.46	3.52	6.09	1.15	1.65	2.12	3.00	3.83	4.60	5.33	6.64	7.21	7.73	8.77	9.38	9.11	7.35
	1.20	2.01	2.57	3.70	6.43	1.20	1.72	2.21	3.14	4.02	4.84	5.61	7.01	7.64	8.20	9.36	10.09	10.06	8.47
	1.50	2.08	2.66	3.83	6.69	1.24	1.77	2.28	3.25	4.17	5.03	5.84	7.31	7.97	8.58	9.82	10.65	10.80	9.35
	3.00	2.12	2.71	3.91	6.84	1.26	1.80	2.33	3.32	4.25	5.13	5.96	7.48	8.16	8.78	10.08	10.96	11.22	9.85
112	1.00	2.32	2.95	4.25	7.36	1.38	1.97	2.54	3.62	4.62	5.56	6.45	8.02	8.70	9.31	10.48	11.08	10.22	
	1.05	2.36	3.01	4.34	7.54	1.40	2.01	2.59	3.69	4.72	5.69	6.59	8.21	8.92	9.55	10.79	11.45	10.71	
	1.20	2.44	3.12	4.51	7.87	1.45	2.08	2.68	3.83	4.91	5.92	6.87	8.59	9.34	10.03	11.38	12.16	11.65	
	1.50	2.51	3.21	4.65	8.14	1.48	2.14	2.76	3.94	5.06	6.11	7.10	8.89	9.68	10.40	11.84	12.71	12.40	
	3.00	2.55	3.26	4.72	8.29	1.51	2.17	2.80	4.00	5.14	6.21	7.22	9.05	9.87	10.61	12.10	13.03	12.82	
125	1.00	2.78	3.55	5.12	8.88	1.64	2.36	3.05	4.35	5.57	6.72	7.78	9.67	10.47	11.18	12.49	13.01	11.25	
	1.05	2.82	3.61	5.21	9.06	1.67	2.40	3.10	4.43	5.67	6.84	7.93	9.86	10.69	11.43	12.79	13.38	11.74	
	1.20	2.91	3.72	5.38	9.39	1.72	2.47	3.19	4.57	5.86	7.07	8.21	10.24	11.12	11.90	13.38	14.09	12.68	
	1.50	2.97	3.81	5.52	9.66	1.75	2.53	3.27	4.68	6.01	7.26	8.43	10.54	11.45	12.27	13.85	14.65	13.43	
	3.00	3.01	3.86	5.59	9.81	1.77	2.56	3.31	4.74	6.09	7.36	8.56	10.70	11.64	12.48	14.11	14.96	13.85	
140	1.00	3.31	4.23	6.12	10.58	1.95	2.81	3.63	5.19	6.65	8.02	9.28	11.49	12.41	13.20	14.54	14.81		
	1.05	3.35	4.29	6.21	10.75	1.97	2.85	3.68	5.27	6.75	8.14	9.43	11.68	12.63	13.45	14.84	15.17		
	1.20	3.44	4.40	6.38	11.09	2.02	2.92	3.78	5.41	6.94	8.38	9.71	12.06	13.06	13.92	15.43	15.88		
	1.50	3.50	4.49	6.51	11.35	2.06	2.97	3.85	5.52	7.09	8.56	9.94	12.36	13.39	14.29	15.90	16.44		
	3.00	3.54	4.54	6.59	11.50	2.08	3.00	3.89	5.58	7.17	8.67	10.06	12.53	13.58	14.50	16.16	16.75		
160	1.00	4.00	5.13	7.42	12.74	2.36	3.40	4.40	6.30	8.07	9.71	11.22	13.78	14.81	15.64	16.79	16.39		
	1.05	4.05	5.18	7.51	12.91	2.38	3.44	4.45	6.37	8.16	9.83	11.36	13.97	15.02	15.89	17.10	16.76		
	1.20	4.13	5.30	7.68	13.25	2.43	3.51	4.54	6.51	8.35	10.07	11.65	14.35	15.45	16.36	17.69	17.47		
	1.50	4.20	5.39	7.81	13.51	2.46	3.56	4.62	6.62	8.50	10.25	11.87	14.65	15.78	16.73	18.15	18.02		
	3.00	4.24	5.44	7.89	13.66	2.49	3.59	4.66	6.69	8.59	10.36	12.00	14.82	15.97	16.94	18.42	18.34		
180	1.00	4.69	6.01	8.69	14.77	2.76	3.98	5.16	7.38	9.45	11.35	13.07	15.89	16.96	17.76	18.44			
	1.05	4.74	6.07	8.78	14.94	2.78	4.02	5.21	7.46	9.55	11.47	13.21	16.09	17.18	18.00	18.75			
	1.20	4.82	6.18	8.95	15.28	2.83	4.09	5.30	7.60	9.74	11.71	13.50	16.47	17.60	18.47	19.34			
	1.50	4.89	6.27	9.09	15.54	2.87	4.15	5.38	7.71	9.88	11.89	13.72	16.76	17.94	18.84	19.80			
	3.00	4.93	6.32	9.16	15.69	2.89	4.18	5.42	7.77	9.97	12.00	13.85	16.93	18.12	19.05	20.07			
200	1.00	5.38	6.89	9.94	16.66	3.16	4.56	5.91	8.45	10.80	12.93	14.83	17.82	18.85	19.52	19.42			
	1.05	5.42	6.94	10.03	16.83	3.18	4.60	5.96	8.53	10.90	13.05	14.98	18.01	19.06	19.76	19.73			
	1.20	5.51	7.06	10.20	17.17	3.23	4.67	6.05	8.67	11.08	13.29	15.26	18.39	19.49	20.23	20.32			
	1.50	5.57	7.14	10.34	17.43	3.26	4.73	6.13	8.78	11.23	13.48	15.49	18.69	19.82	20.60	20.78			
	3.00	5.61	7.19	10.41	17.58	3.29	4.76	6.17	8.84	11.32	13.58	15.61	18.86	20.01	20.81	21.04			
224	1.00	6.19	7.92	11.41	18.73	3.63	5.25	6.80	9.71	12.37	14.76	16.83	19.86	20.73	21.11				
	1.05	6.23	7.98	11.49	18.90	3.65	5.29	6.85	9.79	12.47	14.88	16.97	20.05	20.95	21.36				
	1.20	6.32	8.09	11.67	19.24	3.70	5.36	6.94	9.93	12.66	15.11	17.25	20.43	21.37	21.83				
	1.50	6.38	8.18	11.80	19.50	3.74	5.41	7.02	10.04	12.81	15.30	17.48	20.73	21.71	22.20				
	3.00	6.42	8.23	11.88	19.65	3.76	5.44	7.06	10.10	12.89	15.40	17.60	20.89	21.90	22.41				

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																
		720	950	1450	2850	400	600	800	1200	1600	2000	2400	3200	3600	4000	5000	6000	8000
100	1.00	1.83	2.27	3.11	4.74	1.14	1.58	1.99	2.71	3.33	3.87	4.32	4.98	5.18	5.28	5.07	4.13	
	1.05	1.94	2.41	3.32	5.16	1.20	1.67	2.10	2.88	3.56	4.16	4.68	5.45	5.71	5.87	5.81	5.01	0.78
	1.20	2.14	2.68	3.73	5.96	1.31	1.84	2.33	3.22	4.02	4.73	5.36	6.36	6.73	7.00	7.22	6.71	3.05
	1.50	2.30	2.89	4.05	6.60	1.40	1.98	2.51	3.49	4.38	5.18	5.89	7.08	7.53	7.90	8.34	8.06	4.84
	3.00	2.39	3.01	4.24	6.96	1.45	2.05	2.61	3.64	4.58	5.43	6.20	7.48	7.99	8.40	8.97	8.81	5.85
112	1.00	2.56	3.22	4.50	7.22	1.57	2.20	2.80	3.88	4.86	5.72	6.49	7.69	8.11	8.41	8.53	7.65	2.26
	1.05	2.67	3.36	4.72	7.63	1.63	2.29	2.91	4.06	5.09	6.02	6.84	8.16	8.64	8.99	9.26	8.53	3.43
	1.20	2.87	3.63	5.13	8.44	1.74	2.46	3.14	4.40	5.54	6.58	7.52	9.06	9.66	10.13	10.68	10.23	5.70
	1.50	3.04	3.84	5.45	9.08	1.83	2.60	3.32	4.67	5.90	7.03	8.06	9.78	10.47	11.02	11.80	11.58	7.49
	3.00	3.13	3.96	5.63	9.44	1.88	2.67	3.42	4.82	6.10	7.28	8.36	10.18	10.92	11.53	12.43	12.33	8.50
125	1.00	3.35	4.24	6.00	9.83	2.02	2.87	3.67	5.15	6.49	7.70	8.78	10.52	11.15	11.62	11.95	10.93	3.89
	1.05	3.46	4.38	6.21	10.25	2.08	2.96	3.79	5.32	6.72	7.99	9.13	10.98	11.68	12.20	12.68	11.80	5.06
	1.20	3.66	4.65	6.62	11.05	2.20	3.13	4.01	5.66	7.17	8.56	9.81	11.89	12.70	13.34	14.10	13.50	7.33
	1.50	3.83	4.86	6.95	11.69	2.28	3.26	4.19	5.93	7.53	9.01	10.35	12.61	13.51	14.23	15.22	14.85	9.12
	3.00	3.92	4.98	7.13	12.05	2.34	3.34	4.29	6.08	7.73	9.26	10.65	13.01	13.96	14.74	15.85	15.60	10.13
140	1.00	4.26	5.41	7.70	12.74	2.55	3.63	4.66	6.59	8.34	9.93	11.36	13.64	14.48	15.08	15.44	13.93	
	1.05	4.36	5.54	7.91	13.16	2.61	3.72	4.78	6.76	8.57	10.23	11.71	14.11	15.00	15.66	16.17	14.81	
	1.20	4.57	5.81	8.32	13.97	2.72	3.89	5.01	7.10	9.03	10.79	12.39	15.02	16.02	16.80	17.59	16.51	
	1.50	4.73	6.03	8.65	14.60	2.81	4.03	5.19	7.37	9.39	11.24	12.93	15.74	16.83	17.69	18.71	17.85	
	3.00	4.82	6.15	8.83	14.96	2.86	4.10	5.29	7.52	9.59	11.49	13.23	16.14	17.28	18.19	19.34	18.61	
160	1.00	5.45	6.94	9.93	16.44	3.24	4.64	5.98	8.48	10.77	12.84	14.68	17.57	18.57	19.24	19.25	16.52	
	1.05	5.56	7.08	10.15	16.86	3.30	4.73	6.10	8.66	11.00	13.13	15.03	18.04	19.10	19.82	19.98	17.39	
	1.20	5.76	7.35	10.56	17.67	3.41	4.90	6.32	9.00	11.45	13.70	15.71	18.94	20.12	20.95	21.40	19.09	
	1.50	5.92	7.56	10.88	18.30	3.50	5.04	6.50	9.26	11.81	14.15	16.25	19.66	20.92	21.85	22.52	20.44	
	3.00	6.01	7.68	11.06	18.66	3.55	5.11	6.60	9.42	12.01	14.40	16.55	20.06	21.38	22.35	23.14	21.19	
180	1.00	6.63	8.46	12.12	19.92	3.92	5.64	7.28	10.34	13.14	15.65	17.85	21.19	22.24	22.83	21.98		
	1.05	6.74	8.60	12.34	20.34	3.98	5.73	7.40	10.52	13.37	15.95	18.21	21.66	22.77	23.41	22.71		
	1.20	6.94	8.87	12.75	21.14	4.10	5.90	7.62	10.86	13.83	16.51	18.89	22.56	23.79	24.55	24.13		
	1.50	7.10	9.08	13.07	21.78	4.19	6.04	7.80	11.13	14.19	16.96	19.42	23.28	24.59	25.44	25.25		
	3.00	7.20	9.20	13.25	22.14	4.24	6.11	7.90	11.28	14.39	17.21	19.73	23.68	25.05	25.94	25.88		
200	1.00	7.80	9.96	14.27	23.15	4.61	6.63	8.57	12.18	15.46	18.37	20.88	24.47	25.45	25.79	23.53		
	1.05	7.91	10.10	14.48	23.57	4.66	6.72	8.68	12.35	15.69	18.66	21.23	24.94	25.97	26.38	24.26		
	1.20	8.11	10.37	14.89	24.38	4.78	6.89	8.91	12.69	16.14	19.23	21.91	25.85	26.99	27.51	25.68		
	1.50	8.27	10.58	15.22	25.02	4.87	7.03	9.09	12.96	16.50	19.68	22.45	26.56	27.80	28.41	26.80		
	3.00	8.36	10.70	15.40	25.37	4.92	7.10	9.19	13.11	16.70	19.93	22.75	26.97	28.25	28.91	27.43		
224	1.00	9.19	11.73	16.78	26.68	5.42	7.81	10.09	14.34	18.16	21.50	24.29	27.93	28.62	28.44			
	1.05	9.30	11.87	16.99	27.10	5.47	7.90	10.21	14.52	18.39	21.79	24.64	28.40	29.15	29.03			
	1.20	9.50	12.14	17.40	27.91	5.59	8.07	10.44	14.86	18.85	22.36	25.32	29.31	30.17	30.16			
	1.50	9.66	12.35	17.73	28.55	5.68	8.20	10.61	15.13	19.21	22.81	25.86	30.02	30.97	31.06			
	3.00	9.75	12.47	17.91	28.91	5.73	8.28	10.71	15.28	19.41	23.06	26.16	30.43	31.43	31.56			
250	1.00	10.68	13.63	19.42	30.04	6.29	9.07	11.72	16.63	20.99	24.71	27.70	31.03	31.15	30.07			
	1.05	10.78	13.76	19.64	30.46	6.35	9.16	11.84	16.81	21.22	25.00	28.05	31.50	31.67	30.66			
	1.20	10.99	14.03	20.05	31.27	6.46	9.33	12.07	17.15	21.68	25.57	28.73	32.40	32.69	31.79			
	1.50	11.15	14.25	20.37	31.91	6.55	9.46	12.25	17.42	22.03	26.02	29.26	33.12	33.50	32.69			
	3.00	11.24	14.37	20.56	32.26	6.60	9.54	12.35	17.57	22.24	26.27	29.57	33.52	33.95	33.19			
280	1.00	12.37	15.77	22.37	33.25	7.28	10.51	13.58	19.21	24.12	28.17	31.22	33.68	32.76				
	1.05	12.48	15.91	22.58	33.67	7.34	10.60	13.69	19.39	24.35	28.46	31.57	34.14	33.29				
	1.20	12.68	16.18	22.99	34.48	7.45	10.77	13.92	19.73	24.80	29.03	32.25	35.05	34.31				
	1.50	12.84	16.39	23.32	35.12	7.54	10.91	14.10	20.00	25.16	29.47	32.78	35.77	35.11				
	3.00	12.93	16.51	23.50	35.47	7.59	10.98	14.20	20.15	25.36	29.73	33.09	36.17	35.57				
315	1.00	14.31	18.21	25.65	36.01	8.43	12.17	15.70	22.12	27.57	31.84	34.71	35.38					
	1.05	14.42	18.35	25.86	36.42	8.49	12.26	15.82	22.30	27.80	32.13	35.07	35.85					
	1.20	14.62	18.62	26.27	37.23	8.61	12.43	16.05	22.64	28.25	32.70	35.75	36.75					
	1.50	14.79	18.84	26.60	37.87	8.70	12.56	16.23	22.91	28.61	33.14	36.28	37.47					
	3.00	14.88	18.96	26.78	38.23	8.75	12.64	16.33	23.06	28.81	33.39	36.59	37.87					
355	1.00	16.50	20.94	29.18	37.70	9.74	14.04	18.08	25.32	31.22	35.50	37.83						
	1.05	16.60	21.07	29.40	38.12	9.79	14.13	18.20	25.50	31.46	35.79	38.18						
	1.20	16.81	21.34	29.81	38.92	9.91	14.30	18.43	25.84	31.91	36.36	38.86						
	1.50	16.97	21.56	30.13	39.56	10.00	14.43	18.61	26.10	32.27	36.81	39.40						
	3.00	17.06	21.68	30.31	39.92	10.05	14.51	18.71	26.26	32.47	37.06	39.70						

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																
		720	950	1450	2850	200	400	600	800	1200	1600	2000	2400	3200	3600	4000	4500	5000
160	1.00	6.16	7.75	10.80	16.25	2.04	3.74	5.28	6.73	9.34	11.62	13.53	15.06	16.76	16.85	16.35	14.84	12.23
	1.05	6.39	8.05	11.27	17.17	2.11	3.86	5.48	6.98	9.73	12.13	14.18	15.83	17.79	18.01	17.64	16.29	13.84
	1.20	6.84	8.65	12.18	18.95	2.23	4.11	5.85	7.48	10.48	13.13	15.42	17.32	19.79	20.25	20.13	19.09	16.96
	1.50	7.20	9.12	12.89	20.35	2.33	4.31	6.15	7.88	11.07	13.92	16.41	18.51	21.36	22.02	22.10	21.31	19.42
	3.00	7.40	9.38	13.29	21.14	2.39	4.42	6.31	8.10	11.40	14.36	16.96	19.17	22.25	23.02	23.21	22.56	20.81
180	1.00	8.09	10.23	14.39	21.90	2.63	4.85	6.92	8.85	12.40	15.50	18.13	20.24	22.61	22.73	22.04	19.92	16.27
	1.05	8.32	10.54	14.86	22.81	2.69	4.98	7.11	9.11	12.78	16.02	18.78	21.01	23.64	23.89	23.33	21.37	17.88
	1.20	8.77	11.13	15.76	24.59	2.81	5.23	7.48	9.61	13.53	17.01	20.02	22.51	25.63	26.13	25.82	24.18	21.00
	1.50	9.13	11.60	16.48	26.00	2.91	5.43	7.78	10.00	14.12	17.80	21.01	23.69	27.21	27.90	27.79	26.40	23.47
	3.00	9.33	11.86	16.88	26.78	2.97	5.54	7.95	10.23	14.45	18.24	21.56	24.35	28.09	28.90	28.90	27.64	24.85
200	1.00	10.01	12.69	17.90	27.12	3.20	5.96	8.54	10.96	15.40	19.29	22.57	25.16	27.87	27.80	26.63	23.47	18.23
	1.05	10.24	12.99	18.37	28.04	3.27	6.09	8.73	11.22	15.79	19.81	23.22	25.93	28.90	28.96	27.92	24.92	19.84
	1.20	10.69	13.58	19.27	29.82	3.39	6.34	9.10	11.71	16.54	20.80	24.46	27.43	30.90	31.20	30.41	27.73	22.96
	1.50	11.04	14.05	19.99	31.22	3.49	6.54	9.40	12.11	17.13	21.59	25.45	28.61	32.47	32.98	32.39	29.95	25.42
	3.00	11.24	14.32	20.39	32.01	3.55	6.65	9.56	12.33	17.46	22.04	26.00	29.27	33.36	33.97	33.49	31.19	26.81
224	1.00	12.28	15.59	22.01	32.79	3.89	7.29	10.46	13.46	18.94	23.71	27.67	30.68	33.35	32.71	30.55	25.49	
	1.05	12.51	15.90	22.48	33.70	3.96	7.42	10.65	13.71	19.33	24.23	28.31	31.46	34.38	33.87	31.84	26.94	
	1.20	12.96	16.49	23.38	35.48	4.08	7.67	11.03	14.21	20.08	25.22	29.56	32.95	36.38	36.11	34.33	29.74	
	1.50	13.31	16.96	24.10	36.89	4.18	7.86	11.32	14.61	20.67	26.01	30.54	34.14	37.95	37.89	36.30	31.96	
	3.00	13.51	17.22	24.50	37.67	4.24	7.97	11.49	14.83	21.00	26.46	31.10	34.80	38.84	38.88	37.41	33.21	
250	1.00	14.71	18.69	26.33	38.11	4.64	8.71	12.53	16.13	22.69	28.33	32.88	36.17	38.15	36.43	32.63		
	1.05	14.94	19.00	26.80	39.03	4.70	8.84	12.72	16.38	23.08	28.85	33.53	36.94	39.18	37.59	33.92		
	1.20	15.39	19.59	27.71	40.80	4.83	9.09	13.09	16.88	23.83	29.84	34.77	38.44	41.18	39.84	36.41		
	1.50	15.75	20.06	28.42	42.21	4.92	9.29	13.39	17.28	24.42	30.63	35.76	39.62	42.75	41.61	38.38		
	3.00	15.95	20.32	28.82	43.00	4.98	9.40	13.55	17.50	24.75	31.07	36.31	40.29	43.64	42.61	39.49		
280	1.00	17.48	22.20	31.14	43.09	5.49	10.34	14.88	19.16	26.91	33.43	38.48	41.79	42.07	38.45			
	1.05	17.71	22.51	31.61	44.01	5.55	10.47	15.08	19.42	27.30	33.94	39.12	42.56	43.10	39.61			
	1.20	18.16	23.10	32.51	45.78	5.68	10.72	15.45	19.92	28.04	34.94	40.37	44.06	45.10	41.85			
	1.50	18.52	23.57	33.23	47.19	5.78	10.91	15.75	20.31	28.64	35.73	41.35	45.24	46.67	43.63			
	3.00	18.72	23.83	33.63	47.98	5.83	11.02	15.91	20.53	28.97	36.17	41.91	45.91	47.56	44.62			
315	1.00	20.67	26.20	36.49	47.16	6.48	12.22	17.60	22.64	31.67	39.03	44.37	47.29	44.21				
	1.05	20.90	26.51	36.95	48.08	6.54	12.35	17.79	22.90	32.06	39.55	45.01	48.06	45.24				
	1.20	21.35	27.10	37.86	49.86	6.66	12.60	18.17	23.40	32.80	40.54	46.26	49.55	47.23				
	1.50	21.70	27.57	38.57	51.26	6.76	12.80	18.46	23.80	33.40	41.33	47.24	50.74	48.81				
	3.00	21.90	27.83	38.97	52.05	6.82	12.91	18.63	24.02	33.73	41.78	47.80	51.40	49.70				
355	1.00	24.24	30.65	42.22	49.27	7.59	14.35	20.66	26.54	36.88	44.94	50.18	52.02					
	1.05	24.47	30.96	42.69	50.19	7.66	14.48	20.85	26.80	37.27	45.46	50.83	52.79					
	1.20	24.92	31.55	43.59	51.97	7.78	14.73	21.22	27.30	38.02	46.46	52.07	54.29					
	1.50	25.27	32.02	44.31	53.37	7.88	14.92	21.52	27.69	38.61	47.25	53.06	55.47					
	3.00	25.47	32.28	44.71	54.16	7.94	15.04	21.69	27.91	38.94	47.69	53.61	56.14					
400	1.00	28.17	35.49	48.15		8.84	16.72	24.04	30.81	42.44	50.91	55.43	55.15					
	1.05	28.40	35.80	48.62		8.91	16.85	24.23	31.07	42.82	51.43	56.07	55.92					
	1.20	28.85	36.39	49.52		9.03	17.10	24.61	31.57	43.57	52.42	57.32	57.42					
	1.50	29.21	36.86	50.24		9.13	17.29	24.90	31.96	44.16	53.21	58.31	58.60					
	3.00	29.41	37.12	50.64		9.19	17.40	25.07	32.18	44.49	53.65	58.86	59.27					
450	1.00	32.43	40.64	54.03		10.22	19.32	27.73	35.41	48.19	56.60	59.47						
	1.05	32.66	40.95	54.49		10.29	19.45	27.92	35.67	48.57	57.11	60.12						
	1.20	33.11	41.54	55.40		10.41	19.70	28.29	36.17	49.32	58.11	61.36						
	1.50	33.47	42.01	56.11		10.51	19.89	28.59	36.56	49.91	58.90	62.35						
	3.00	33.66	42.27	56.51		10.57	20.00	28.76	36.78	50.24	59.34	62.90						
500	1.00	36.56	45.54	59.08		11.59	21.89	31.33	39.85	53.45	61.19							
	1.05	36.80	45.84	59.54		11.65	22.01	31.53	40.11	53.84	61.71							
	1.20	37.24	46.43	60.45		11.78	22.26	31.90	40.61	54.58	62.70							
	1.50	37.60	46.90	61.16		11.88	22.46	32.20	41.00	55.18	63.49							
	3.00	37.80	47.17	61.56		11.93	22.57	32.36	41.22	55.51	63.93							
560	1.00	41.35	51.05	63.94		13.22	24.92	35.55	44.95	59.07	65.11							
	1.05	41.58	51.35	64.41		13.28	25.05	35.74	45.20	59.46	65.62							
	1.20	42.03	51.94	65.31		13.41	25.30	36.12	45.70	60.20	66.62							
	1.50	42.39	52.41	66.02		13.51	25.50	36.41	46.10	60.80	67.41							
	3.00	42.58	52.67	66.43		13.56	25.61	36.58	46.32	61.13	67.85							

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	2850	400	600	800	1200	1600	2000	2400	3200	3600	4000	5000	6000	8000	9500
50	1.00	0.19	0.24	0.33	0.54	0.12	0.17	0.21	0.29	0.36	0.43	0.48	0.59	0.63	0.67	0.74	0.77	0.71	0.54
	1.05	0.20	0.25	0.35	0.57	0.12	0.17	0.22	0.30	0.38	0.45	0.51	0.62	0.67	0.71	0.79	0.83	0.79	0.64
	1.20	0.21	0.27	0.38	0.63	0.13	0.18	0.23	0.32	0.41	0.48	0.55	0.68	0.73	0.78	0.88	0.95	0.95	0.82
	1.50	0.23	0.28	0.40	0.67	0.14	0.19	0.25	0.34	0.43	0.51	0.59	0.73	0.79	0.85	0.96	1.04	1.07	0.97
	3.00	0.23	0.29	0.41	0.70	0.14	0.20	0.25	0.35	0.45	0.53	0.61	0.76	0.82	0.88	1.00	1.09	1.14	1.05
56	1.00	0.25	0.31	0.44	0.74	0.15	0.21	0.27	0.38	0.48	0.57	0.65	0.80	0.86	0.92	1.03	1.09	1.05	0.84
	1.05	0.26	0.32	0.46	0.77	0.16	0.22	0.28	0.39	0.49	0.59	0.68	0.83	0.90	0.96	1.08	1.15	1.13	0.93
	1.20	0.27	0.34	0.48	0.82	0.16	0.23	0.30	0.42	0.52	0.63	0.72	0.89	0.97	1.04	1.18	1.27	1.28	1.12
	1.50	0.28	0.36	0.51	0.86	0.17	0.24	0.31	0.43	0.55	0.66	0.76	0.94	1.02	1.10	1.25	1.36	1.40	1.26
	3.00	0.29	0.36	0.52	0.89	0.17	0.25	0.32	0.44	0.56	0.67	0.78	0.97	1.05	1.13	1.29	1.41	1.47	1.34
63	1.00	0.32	0.40	0.57	0.96	0.19	0.27	0.35	0.48	0.61	0.73	0.84	1.04	1.13	1.20	1.35	1.44	1.37	1.09
	1.05	0.32	0.41	0.58	0.99	0.19	0.28	0.35	0.50	0.63	0.75	0.87	1.07	1.16	1.24	1.40	1.50	1.45	1.18
	1.20	0.34	0.43	0.61	1.04	0.20	0.29	0.37	0.52	0.66	0.79	0.91	1.13	1.23	1.32	1.50	1.61	1.61	1.36
	1.50	0.35	0.44	0.63	1.09	0.21	0.30	0.38	0.54	0.68	0.82	0.95	1.18	1.29	1.38	1.57	1.70	1.73	1.51
	3.00	0.35	0.45	0.64	1.11	0.21	0.30	0.39	0.55	0.70	0.84	0.97	1.21	1.32	1.41	1.62	1.75	1.80	1.59
71	1.00	0.39	0.49	0.71	1.20	0.23	0.33	0.43	0.60	0.77	0.92	1.06	1.31	1.42	1.51	1.70	1.79	1.65	
	1.05	0.40	0.50	0.72	1.23	0.24	0.34	0.43	0.61	0.78	0.94	1.08	1.34	1.45	1.55	1.75	1.85	1.73	
	1.20	0.41	0.52	0.75	1.29	0.25	0.35	0.45	0.64	0.81	0.98	1.13	1.40	1.52	1.63	1.84	1.96	1.89	
	1.50	0.42	0.54	0.77	1.33	0.25	0.36	0.46	0.66	0.84	1.01	1.16	1.45	1.58	1.69	1.92	2.06	2.01	
	3.00	0.43	0.54	0.78	1.36	0.26	0.36	0.47	0.67	0.85	1.02	1.19	1.48	1.61	1.72	1.96	2.11	2.08	
80	1.00	0.47	0.60	0.86	1.47	0.28	0.40	0.52	0.73	0.93	1.12	1.29	1.60	1.73	1.84	2.05	2.13	1.85	
	1.05	0.48	0.61	0.88	1.50	0.29	0.41	0.53	0.75	0.95	1.14	1.32	1.63	1.76	1.88	2.10	2.19	1.93	
	1.20	0.49	0.63	0.90	1.56	0.29	0.42	0.54	0.77	0.98	1.18	1.36	1.69	1.83	1.96	2.19	2.31	2.08	
	1.50	0.50	0.64	0.93	1.60	0.30	0.43	0.55	0.79	1.01	1.21	1.40	1.74	1.89	2.02	2.27	2.40	2.20	
	3.00	0.51	0.65	0.94	1.62	0.30	0.44	0.56	0.80	1.02	1.23	1.42	1.77	1.92	2.05	2.31	2.45	2.27	
90	1.00	0.56	0.72	1.03	1.76	0.34	0.48	0.62	0.88	1.12	1.34	1.55	1.91	2.05	2.18	2.39	2.43		
	1.05	0.57	0.73	1.04	1.79	0.34	0.49	0.63	0.89	1.13	1.36	1.57	1.94	2.09	2.22	2.44	2.49		
	1.20	0.58	0.75	1.07	1.84	0.35	0.50	0.64	0.91	1.16	1.40	1.62	2.00	2.16	2.30	2.54	2.61		
	1.50	0.60	0.76	1.09	1.89	0.35	0.51	0.65	0.93	1.19	1.43	1.65	2.05	2.21	2.36	2.62	2.70		
	3.00	0.60	0.77	1.11	1.91	0.36	0.51	0.66	0.94	1.20	1.45	1.68	2.08	2.25	2.39	2.66	2.75		
100	1.00	0.65	0.83	1.20	2.03	0.39	0.56	0.72	1.02	1.30	1.56	1.79	2.20	2.36	2.49	2.69	2.65		
	1.05	0.66	0.84	1.21	2.06	0.39	0.56	0.72	1.03	1.31	1.58	1.82	2.23	2.40	2.53	2.74	2.71		
	1.20	0.67	0.86	1.24	2.12	0.40	0.57	0.74	1.05	1.35	1.62	1.86	2.29	2.47	2.61	2.83	2.82		
	1.50	0.69	0.88	1.26	2.16	0.41	0.58	0.75	1.07	1.37	1.65	1.90	2.34	2.52	2.67	2.91	2.91		
	3.00	0.69	0.88	1.27	2.18	0.41	0.59	0.76	1.08	1.38	1.66	1.92	2.37	2.55	2.71	2.95	2.97		
112	1.00	0.76	0.97	1.39	2.35	0.45	0.65	0.83	1.19	1.51	1.81	2.08	2.52	2.70	2.83	2.96			
	1.05	0.77	0.98	1.41	2.37	0.45	0.65	0.84	1.20	1.53	1.83	2.10	2.56	2.73	2.87	3.01			
	1.20	0.78	1.00	1.43	2.43	0.46	0.66	0.86	1.22	1.56	1.87	2.15	2.62	2.80	2.94	3.11			
	1.50	0.79	1.01	1.46	2.47	0.47	0.67	0.87	1.24	1.58	1.90	2.19	2.67	2.86	3.00	3.18			
	3.00	0.80	1.02	1.47	2.50	0.47	0.68	0.88	1.25	1.60	1.92	2.21	2.69	2.89	3.04	3.23			
125	1.00	0.87	1.12	1.60	2.66	0.52	0.74	0.96	1.36	1.74	2.07	2.37	2.85	3.02	3.13	3.15			
	1.05	0.88	1.12	1.61	2.69	0.52	0.75	0.97	1.38	1.75	2.09	2.40	2.88	3.05	3.17	3.20			
	1.20	0.90	1.14	1.64	2.75	0.53	0.76	0.98	1.40	1.78	2.13	2.44	2.94	3.12	3.25	3.30			
	1.50	0.91	1.16	1.66	2.79	0.54	0.77	1.00	1.42	1.81	2.16	2.48	2.99	3.18	3.31	3.38			
	3.00	0.91	1.17	1.68	2.81	0.54	0.78	1.00	1.43	1.82	2.18	2.50	3.02	3.21	3.34	3.42			
140	1.00	1.00	1.28	1.83	3.00	0.59	0.85	1.10	1.57	1.99	2.36	2.69	3.18	3.33	3.41				
	1.05	1.01	1.29	1.85	3.03	0.60	0.86	1.11	1.58	2.00	2.38	2.72	3.21	3.37	3.45				
	1.20	1.03	1.31	1.88	3.08	0.61	0.87	1.13	1.60	2.03	2.42	2.76	3.28	3.44	3.52				
	1.50	1.04	1.32	1.90	3.12	0.61	0.88	1.14	1.62	2.06	2.45	2.80	3.32	3.49	3.58				
	3.00	1.04	1.33	1.91	3.15	0.62	0.89	1.15	1.63	2.07	2.47	2.82	3.35	3.52	3.62				
160	1.00	1.18	1.50	2.14	3.39	0.70	1.00	1.29	1.83	2.31	2.73	3.08	3.55	3.64	3.63				
	1.05	1.18	1.51	2.15	3.42	0.70	1.01	1.30	1.84	2.33	2.75	3.11	3.58	3.68	3.67				
	1.20	1.20	1.53	2.18	3.47	0.71	1.02	1.31	1.86	2.36	2.79	3.15	3.64	3.75	3.74				
	1.50	1.21	1.54	2.20	3.52	0.71	1.03	1.33	1.88	2.38	2.82	3.19	3.69	3.80	3.80				
	3.00	1.21	1.55	2.21	3.54	0.72	1.03	1.33	1.89	2.40	2.84	3.21	3.72	3.83	3.84				
180	1.00	1.34	1.71	2.43	3.71	0.80	1.14	1.47	2.08	2.62	3.07	3.43	3.82	3.82					
	1.05	1.35	1.72	2.44	3.74	0.80	1.15	1.48	2.09	2.63	3.09	3.46	3.85	3.85					
	1.20	1.37	1.74	2.47	3.79	0.81	1.16	1.50	2.12	2.66	3.13	3.50	3.91	3.92					
	1.50	1.38	1.75	2.49	3.84	0.81	1.17	1.51	2.14	2.69	3.16	3.54	3.96	3.98					
	3.00	1.38	1.76	2.50	3.86	0.82	1.18	1.52	2.15	2.70	3.18	3.56	3.99	4.01					

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	2850	400	600	800	1200	1600	2000	2400	3200	3600	4000	5000	6000	7000	8500
63	1.00	0.27	0.32	0.41	0.51	0.18	0.24	0.29	0.37	0.43	0.47	0.50	0.50	0.48	0.44	0.27			
	1.05	0.30	0.36	0.47	0.63	0.20	0.27	0.32	0.42	0.50	0.56	0.60	0.64	0.63	0.61	0.48	0.23		
	1.20	0.36	0.44	0.59	0.87	0.23	0.32	0.39	0.52	0.63	0.72	0.80	0.91	0.94	0.95	0.90	0.74	0.43	
	1.50	0.41	0.51	0.69	1.06	0.26	0.35	0.44	0.60	0.74	0.86	0.96	1.12	1.17	1.21	1.23	1.13	0.90	0.26
	3.00	0.44	0.54	0.74	1.16	0.27	0.38	0.47	0.65	0.80	0.93	1.05	1.24	1.31	1.36	1.42	1.36	1.16	0.57
71	1.00	0.47	0.58	0.79	1.20	0.29	0.41	0.51	0.69	0.84	0.98	1.09	1.26	1.32	1.35	1.32	1.13	0.76	
	1.05	0.50	0.62	0.85	1.32	0.31	0.43	0.54	0.74	0.91	1.07	1.20	1.40	1.47	1.52	1.54	1.39	1.06	0.16
	1.20	0.56	0.70	0.97	1.56	0.35	0.48	0.61	0.84	1.05	1.23	1.40	1.67	1.77	1.86	1.96	1.90	1.65	0.87
	1.50	0.61	0.76	1.07	1.75	0.37	0.52	0.66	0.92	1.15	1.37	1.56	1.88	2.01	2.12	2.29	2.29	2.11	1.43
	3.00	0.63	0.80	1.12	1.86	0.39	0.54	0.69	0.96	1.21	1.44	1.65	2.00	2.15	2.27	2.47	2.51	2.37	1.75
80	1.00	0.69	0.87	1.21	1.96	0.42	0.59	0.75	1.04	1.31	1.54	1.76	2.10	2.23	2.33	2.45	2.34	1.96	
	1.05	0.72	0.91	1.27	2.09	0.44	0.62	0.79	1.10	1.38	1.63	1.86	2.24	2.39	2.51	2.66	2.60	2.27	
	1.20	0.78	0.99	1.40	2.32	0.47	0.67	0.85	1.20	1.51	1.80	2.06	2.51	2.69	2.84	3.08	3.10	2.85	
	1.50	0.83	1.05	1.49	2.51	0.50	0.71	0.91	1.28	1.62	1.93	2.22	2.72	2.93	3.11	3.41	3.49	3.31	
	3.00	0.86	1.08	1.55	2.62	0.51	0.73	0.94	1.32	1.68	2.00	2.31	2.84	3.06	3.25	3.60	3.72	3.57	
90	1.00	0.93	1.18	1.68	2.79	0.56	0.80	1.02	1.44	1.82	2.16	2.48	3.01	3.21	3.38	3.61	3.53	3.09	
	1.05	0.97	1.22	1.74	2.91	0.58	0.82	1.06	1.49	1.88	2.25	2.58	3.14	3.37	3.56	3.83	3.79	3.39	
	1.20	1.03	1.30	1.86	3.15	0.61	0.88	1.12	1.59	2.02	2.42	2.78	3.41	3.67	3.89	4.25	4.29	3.98	
	1.50	1.07	1.37	1.96	3.34	0.64	0.91	1.18	1.67	2.12	2.55	2.94	3.62	3.91	4.16	4.58	4.69	4.44	
	3.00	1.10	1.40	2.01	3.45	0.65	0.94	1.21	1.71	2.18	2.62	3.03	3.74	4.04	4.30	4.76	4.91	4.70	
100	1.00	1.18	1.49	2.14	3.60	0.70	1.00	1.29	1.82	2.32	2.77	3.18	3.88	4.16	4.38	4.68	4.57		
	1.05	1.21	1.54	2.20	3.72	0.72	1.03	1.32	1.88	2.39	2.86	3.29	4.02	4.31	4.55	4.90	4.83		
	1.20	1.27	1.62	2.32	3.96	0.75	1.08	1.39	1.98	2.52	3.02	3.49	4.29	4.61	4.89	5.32	5.33		
	1.50	1.32	1.68	2.42	4.15	0.78	1.12	1.44	2.06	2.63	3.16	3.65	4.50	4.85	5.15	5.65	5.73		
	3.00	1.34	1.71	2.47	4.25	0.79	1.14	1.47	2.10	2.69	3.23	3.74	4.62	4.98	5.30	5.83	5.95		
112	1.00	1.46	1.87	2.68	4.53	0.87	1.25	1.61	2.28	2.91	3.49	4.01	4.89	5.23	5.50	5.83			
	1.05	1.50	1.91	2.74	4.66	0.89	1.27	1.64	2.34	2.98	3.57	4.12	5.03	5.39	5.67	6.04			
	1.20	1.56	1.99	2.87	4.90	0.92	1.32	1.71	2.44	3.11	3.74	4.32	5.29	5.69	6.01	6.46			
	1.50	1.60	2.05	2.96	5.08	0.95	1.36	1.76	2.52	3.22	3.87	4.48	5.51	5.93	6.27	6.79			
	3.00	1.63	2.09	3.02	5.19	0.96	1.38	1.79	2.56	3.28	3.95	4.56	5.62	6.06	6.42	6.98			
125	1.00	1.77	2.27	3.26	5.51	1.05	1.51	1.95	2.78	3.54	4.25	4.88	5.93	6.32	6.62	6.88			
	1.05	1.81	2.31	3.33	5.63	1.07	1.53	1.98	2.83	3.61	4.33	4.99	6.06	6.47	6.79	7.10			
	1.20	1.87	2.39	3.45	5.87	1.10	1.58	2.05	2.93	3.75	4.50	5.19	6.33	6.78	7.12	7.51			
	1.50	1.91	2.45	3.54	6.06	1.13	1.62	2.10	3.01	3.85	4.63	5.35	6.54	7.01	7.39	7.85			
	3.00	1.94	2.49	3.60	6.17	1.14	1.65	2.13	3.05	3.91	4.71	5.43	6.66	7.15	7.54	8.03			
140	1.00	2.13	2.72	3.92	6.58	1.25	1.81	2.34	3.34	4.26	5.10	5.85	7.05	7.47	7.76				
	1.05	2.16	2.76	3.99	6.70	1.27	1.83	2.37	3.39	4.33	5.19	5.96	7.19	7.63	7.93				
	1.20	2.22	2.84	4.11	6.94	1.30	1.88	2.44	3.49	4.46	5.35	6.16	7.45	7.93	8.27				
	1.50	2.27	2.91	4.20	7.13	1.33	1.92	2.49	3.57	4.57	5.49	6.31	7.66	8.16	8.53				
	3.00	2.29	2.94	4.26	7.23	1.35	1.95	2.52	3.61	4.63	5.56	6.40	7.78	8.30	8.68				
160	1.00	2.60	3.32	4.79	7.90	1.53	2.20	2.85	4.07	5.19	6.20	7.08	8.40	8.81	9.03				
	1.05	2.63	3.36	4.85	8.03	1.54	2.23	2.89	4.13	5.26	6.29	7.18	8.54	8.97	9.20				
	1.20	2.69	3.44	4.97	8.26	1.58	2.28	2.95	4.23	5.40	6.45	7.38	8.81	9.27	9.53				
	1.50	2.74	3.51	5.07	8.45	1.60	2.32	3.01	4.31	5.50	6.58	7.54	9.02	9.51	9.80				
	3.00	2.76	3.54	5.12	8.56	1.62	2.34	3.04	4.35	5.56	6.66	7.63	9.14	9.64	9.95				
180	1.00	3.06	3.91	5.63	9.10	1.79	2.60	3.36	4.80	6.10	7.25	8.23	9.58	9.91					
	1.05	3.09	3.96	5.69	9.22	1.81	2.62	3.40	4.85	6.17	7.33	8.33	9.72	10.06					
	1.20	3.15	4.03	5.81	9.46	1.85	2.67	3.46	4.95	6.30	7.50	8.53	9.99	10.36					
	1.50	3.20	4.10	5.91	9.65	1.87	2.71	3.52	5.03	6.41	7.63	8.69	10.20	10.60					
	3.00	3.22	4.13	5.96	9.75	1.89	2.73	3.55	5.07	6.46	7.71	8.78	10.32	10.74					
200	1.00	3.52	4.50	6.44	10.16	2.06	2.98	3.86	5.50	6.97	8.24	9.29	10.57						
	1.05	3.55	4.54	6.50	10.28	2.08	3.01	3.90	5.55	7.04	8.33	9.40	10.71						
	1.20	3.61	4.62	6.63	10.52	2.11	3.06	3.96	5.65	7.17	8.50	9.60	10.98						
	1.50	3.65	4.68	6.72	10.71	2.14	3.10	4.02	5.73	7.28	8.63	9.75	11.19						
	3.00	3.68	4.72	6.78	10.81	2.15	3.12	4.05	5.78	7.34	8.70	9.84	11.31						
224	1.00	4.06	5.18	7.39	11.23	2.38	3.44	4.46	6.33	7.98	9.37	10.44							
	1.05	4.09	5.22	7.45	11.35	2.40	3.47	4.49	6.38	8.05	9.45	10.55							
	1.20	4.15	5.30	7.57	11.59	2.43	3.52	4.56	6.48	8.18	9.62	10.75							
	1.50	4.20	5.37	7.67	11.78	2.46	3.56	4.61	6.56	8.29	9.75	10.91							
	3.00	4.22	5.40	7.72	11.88	2.47	3.58	4.64	6.61	8.35	9.83	11.00							

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	2850	200	400	600	800	1200	1600	2000	2400	3200	3600	4000	4500	5000	6000
100	1.00	0.99	1.19	1.55	1.94	0.38	0.64	0.87	1.06	1.39	1.63	1.81	1.91	1.90	1.77	1.55	1.14	0.56	
	1.05	1.06	1.28	1.68	2.21	0.39	0.68	0.92	1.14	1.50	1.78	2.00	2.14	2.20	2.10	1.92	1.56	1.03	
	1.20	1.19	1.45	1.95	2.73	0.43	0.75	1.03	1.28	1.72	2.07	2.36	2.57	2.78	2.76	2.65	2.37	1.94	0.53
	1.50	1.29	1.59	2.16	3.13	0.46	0.81	1.12	1.40	1.89	2.30	2.65	2.92	3.24	3.27	3.22	3.02	2.66	1.39
	3.00	1.35	1.67	2.27	3.36	0.48	0.84	1.17	1.46	1.98	2.43	2.81	3.11	3.49	3.56	3.54	3.38	3.06	1.87
112	1.00	1.43	1.76	2.37	3.33	0.51	0.90	1.24	1.55	2.09	2.53	2.89	3.15	3.38	3.33	3.17	2.77	2.16	
	1.05	1.50	1.85	2.51	3.60	0.53	0.94	1.30	1.63	2.20	2.68	3.07	3.37	3.68	3.67	3.54	3.19	2.63	
	1.20	1.63	2.02	2.77	4.11	0.57	1.01	1.41	1.77	2.42	2.97	3.44	3.81	4.26	4.32	4.27	4.01	3.53	
	1.50	1.73	2.16	2.98	4.52	0.59	1.07	1.49	1.88	2.59	3.20	3.72	4.15	4.72	4.84	4.84	4.66	4.25	
	3.00	1.79	2.24	3.10	4.75	0.61	1.10	1.54	1.95	2.69	3.33	3.88	4.35	4.98	5.13	5.16	5.02	4.65	
125	1.00	1.91	2.37	3.25	4.77	0.66	1.18	1.64	2.07	2.83	3.48	4.02	4.44	4.90	4.91	4.75	4.31	3.57	
	1.05	1.97	2.46	3.39	5.03	0.68	1.22	1.70	2.15	2.95	3.63	4.21	4.67	5.20	5.24	5.13	4.74	4.04	
	1.20	2.10	2.63	3.65	5.55	0.71	1.29	1.81	2.29	3.16	3.92	4.57	5.10	5.78	5.90	5.85	5.55	4.95	
	1.50	2.21	2.77	3.86	5.96	0.74	1.35	1.90	2.41	3.34	4.15	4.86	5.45	6.24	6.41	6.43	6.20	5.66	
	3.00	2.26	2.85	3.98	6.19	0.76	1.38	1.94	2.47	3.43	4.28	5.02	5.64	6.49	6.70	6.75	6.56	6.07	
140	1.00	2.45	3.07	4.25	6.33	0.82	1.50	2.10	2.67	3.68	4.56	5.29	5.88	6.52	6.54	6.35	5.76		
	1.05	2.51	3.15	4.38	6.59	0.84	1.53	2.16	2.74	3.80	4.71	5.48	6.10	6.82	6.88	6.72	6.18		
	1.20	2.65	3.33	4.65	7.11	0.88	1.61	2.27	2.89	4.01	5.00	5.84	6.54	7.40	7.53	7.45	7.00		
	1.50	2.75	3.46	4.86	7.52	0.91	1.66	2.36	3.00	4.19	5.23	6.13	6.88	7.86	8.05	8.02	7.64		
	3.00	2.81	3.54	4.97	7.75	0.92	1.69	2.40	3.07	4.28	5.36	6.29	7.07	8.11	8.34	8.34	8.01		
160	1.00	3.16	3.98	5.54	8.24	1.04	1.91	2.71	3.45	4.79	5.96	6.92	7.68	8.44	8.40	8.04			
	1.05	3.23	4.07	5.68	8.51	1.06	1.95	2.77	3.53	4.91	6.11	7.11	7.90	8.74	8.74	8.41			
	1.20	3.36	4.24	5.94	9.02	1.10	2.02	2.87	3.67	5.12	6.40	7.47	8.34	9.32	9.39	9.14			
	1.50	3.46	4.37	6.15	9.43	1.13	2.08	2.96	3.79	5.30	6.63	7.76	8.68	9.78	9.91	9.71			
	3.00	3.52	4.45	6.27	9.66	1.14	2.11	3.01	3.85	5.39	6.75	7.92	8.87	10.04	10.20	10.03			
180	1.00	3.86	4.87	6.80	9.94	1.26	2.33	3.31	4.22	5.88	7.30	8.47	9.34	10.08	9.85				
	1.05	3.93	4.96	6.93	10.21	1.28	2.37	3.36	4.30	5.99	7.45	8.66	9.57	10.38	10.19				
	1.20	4.06	5.13	7.20	10.72	1.32	2.44	3.47	4.44	6.21	7.74	9.02	10.00	10.96	10.84				
	1.50	4.17	5.27	7.40	11.13	1.35	2.50	3.56	4.56	6.38	7.97	9.30	10.35	11.42	11.36				
	3.00	4.22	5.35	7.52	11.36	1.36	2.53	3.61	4.62	6.48	8.10	9.47	10.54	11.67	11.65				
200	1.00	4.56	5.75	8.01	11.40	1.48	2.74	3.90	4.98	6.94	8.60	9.92	10.87	11.39					
	1.05	4.63	5.84	8.15	11.67	1.50	2.78	3.96	5.06	7.05	8.75	10.11	11.09	11.69					
	1.20	4.76	6.01	8.41	12.19	1.54	2.85	4.06	5.20	7.27	9.04	10.47	11.53	12.27					
	1.50	4.86	6.15	8.62	12.60	1.56	2.91	4.15	5.32	7.44	9.27	10.76	11.87	12.73					
	3.00	4.92	6.22	8.74	12.83	1.58	2.94	4.20	5.38	7.54	9.40	10.92	12.06	12.99					
224	1.00	5.38	6.78	9.42	12.83	1.74	3.23	4.60	5.88	8.18	10.08	11.54	12.49						
	1.05	5.45	6.87	9.55	13.09	1.76	3.26	4.66	5.96	8.29	10.23	11.73	12.71						
	1.20	5.58	7.05	9.82	13.61	1.79	3.34	4.76	6.10	8.51	10.52	12.09	13.15						
	1.50	5.68	7.18	10.02	14.02	1.82	3.39	4.85	6.22	8.68	10.75	12.38	13.49						
	3.00	5.74	7.26	10.14	14.25	1.84	3.43	4.90	6.28	8.77	10.88	12.54	13.68						
250	1.00	6.25	7.88	10.87		2.02	3.75	5.35	6.84	9.47	11.60	13.13	13.96						
	1.05	6.32	7.97	11.00		2.03	3.79	5.40	6.91	9.58	11.75	13.32	14.19						
	1.20	6.45	8.14	11.26		2.07	3.86	5.51	7.06	9.80	12.04	13.68	14.62						
	1.50	6.55	8.28	11.47		2.10	3.92	5.60	7.17	9.97	12.27	13.97	14.96						
	3.00	6.61	8.35	11.59		2.12	3.95	5.65	7.23	10.07	12.40	14.13	15.16						
280	1.00	7.24	9.10	12.44		2.33	4.34	6.20	7.91	10.90	13.22	14.73							
	1.05	7.31	9.19	12.57		2.35	4.38	6.25	7.99	11.01	13.37	14.91							
	1.20	7.44	9.37	12.84		2.39	4.45	6.36	8.13	11.23	13.66	15.28							
	1.50	7.54	9.50	13.04		2.42	4.51	6.45	8.25	11.40	13.89	15.56							
	3.00	7.60	9.58	13.16		2.43	4.54	6.50	8.31	11.50	14.02	15.72							
315	1.00	8.37	10.49	14.13		2.70	5.03	7.17	9.14	12.49	14.92	16.23							
	1.05	8.44	10.58	14.26		2.72	5.07	7.23	9.21	12.60	15.07	16.42							
	1.20	8.57	10.75	14.53		2.75	5.14	7.34	9.36	12.82	15.36	16.78							
	1.50	8.67	10.88	14.73		2.78	5.20	7.42	9.47	12.99	15.59	17.07							
	3.00	8.73	10.96	14.85		2.80	5.23	7.47	9.53	13.08	15.72	17.23							
355	1.00	9.62	12.00	15.85		3.11	5.80	8.26	10.49	14.17	16.59								
	1.05	9.69	12.09	15.99		3.13	5.84	8.32	10.56	14.28	16.74								
	1.20	9.82	12.26	16.25		3.17	5.91	8.42	10.71	14.50	17.03								
	1.50	9.93	12.40	16.46		3.20	5.97	8.51	10.82	14.67	17.26								
	3.00	9.98	12.47	16.57		3.21	6.00	8.56	10.89	14.77	17.39								

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	2850	200	400	500	600	800	1200	1600	1800	2000	2200	2400	3200	3600	4000
140	1.00	2.46	2.99	3.92	4.77	0.90	1.57	1.87	2.14	2.65	3.50	4.14	4.39	4.58	4.72	4.80	4.51	3.95	3.08
	1.05	2.55	3.12	4.12	5.15	0.93	1.62	1.93	2.22	2.76	3.66	4.36	4.63	4.85	5.01	5.12	4.94	4.44	3.62
	1.20	2.74	3.37	4.50	5.89	0.98	1.73	2.06	2.38	2.97	3.97	4.77	5.10	5.37	5.59	5.75	5.77	5.37	4.66
	1.50	2.89	3.56	4.80	6.48	1.02	1.81	2.17	2.50	3.13	4.22	5.10	5.47	5.78	6.04	6.24	6.43	6.12	5.49
	3.00	2.97	3.67	4.96	6.81	1.05	1.86	2.23	2.57	3.22	4.36	5.29	5.68	6.01	6.30	6.52	6.80	6.53	5.95
160	1.00	3.32	4.09	5.46	6.90	1.18	2.09	2.50	2.88	3.60	4.83	5.79	6.17	6.48	6.71	6.87	6.60	5.87	4.69
	1.05	3.42	4.22	5.66	7.28	1.20	2.14	2.56	2.97	3.71	4.99	6.01	6.42	6.75	7.01	7.19	7.03	6.36	5.23
	1.20	3.61	4.47	6.04	8.03	1.26	2.24	2.69	3.12	3.92	5.30	6.43	6.89	7.27	7.58	7.82	7.86	7.29	6.28
	1.50	3.76	4.67	6.34	8.61	1.30	2.33	2.80	3.25	4.08	5.55	6.76	7.26	7.68	8.04	8.31	8.52	8.04	7.10
	3.00	3.84	4.78	6.50	8.94	1.32	2.37	2.86	3.31	4.18	5.69	6.94	7.46	7.92	8.29	8.59	8.89	8.45	7.56
180	1.00	4.18	5.17	6.95	8.74	1.45	2.60	3.12	3.61	4.54	6.13	7.38	7.87	8.27	8.56	8.75	8.28	7.22	
	1.05	4.27	5.30	7.14	9.12	1.48	2.65	3.19	3.69	4.64	6.29	7.59	8.11	8.53	8.86	9.07	8.71	7.71	
	1.20	4.46	5.55	7.52	9.86	1.53	2.75	3.32	3.85	4.85	6.60	8.01	8.58	9.06	9.43	9.69	9.54	8.65	
	1.50	4.61	5.74	7.82	10.45	1.57	2.84	3.42	3.97	5.02	6.85	8.34	8.95	9.47	9.88	10.19	10.20	9.39	
	3.00	4.69	5.85	7.99	10.78	1.59	2.88	3.48	4.04	5.11	6.99	8.53	9.16	9.70	10.14	10.47	10.57	9.81	
200	1.00	5.02	6.23	8.38	10.25	1.72	3.10	3.73	4.33	5.45	7.38	8.89	9.47	9.92	10.24	10.42	9.51		
	1.05	5.11	6.35	8.57	10.63	1.75	3.15	3.80	4.41	5.56	7.55	9.11	9.71	10.19	10.54	10.74	9.94		
	1.20	5.30	6.60	8.95	11.37	1.80	3.26	3.93	4.57	5.77	7.86	9.52	10.18	10.71	11.11	11.37	10.78		
	1.50	5.45	6.80	9.25	11.96	1.84	3.34	4.03	4.69	5.93	8.11	9.85	10.55	11.13	11.57	11.86	11.44		
	3.00	5.53	6.91	9.42	12.29	1.86	3.39	4.09	4.76	6.03	8.25	10.04	10.76	11.36	11.82	12.14	11.81		
224	1.00	6.01	7.46	10.01	11.59	2.04	3.70	4.46	5.18	6.53	8.84	10.60	11.25	11.74	12.03	12.14			
	1.05	6.10	7.59	10.21	11.98	2.07	3.75	4.52	5.26	6.64	9.01	10.82	11.50	12.00	12.33	12.46			
	1.20	6.29	7.84	10.59	12.72	2.12	3.85	4.65	5.42	6.85	9.32	11.24	11.97	12.53	12.90	13.09			
	1.50	6.44	8.03	10.89	13.31	2.16	3.94	4.76	5.54	7.01	9.57	11.57	12.34	12.94	13.36	13.58			
	3.00	6.52	8.14	11.05	13.64	2.18	3.98	4.82	5.61	7.11	9.71	11.75	12.55	13.17	13.61	13.86			
250	1.00	7.06	8.76	11.68		2.38	4.33	5.23	6.09	7.67	10.36	12.33	13.01	13.46	13.67	13.61			
	1.05	7.16	8.89	11.88		2.41	4.39	5.30	6.17	7.78	10.52	12.55	13.25	13.73	13.97	13.94			
	1.20	7.34	9.14	12.26		2.46	4.49	5.43	6.32	7.99	10.84	12.96	13.72	14.25	14.54	14.56			
	1.50	7.49	9.33	12.56		2.50	4.57	5.53	6.45	8.16	11.08	13.29	14.09	14.67	14.99	15.06			
	3.00	7.57	9.44	12.72		2.53	4.62	5.59	6.52	8.25	11.22	13.48	14.30	14.90	15.25	15.34			
280	1.00	8.24	10.21	13.47		2.77	5.06	6.11	7.11	8.96	12.03	14.14	14.79	15.13	15.13				
	1.05	8.34	10.34	13.67		2.80	5.11	6.18	7.19	9.07	12.19	14.36	15.03	15.40	15.42				
	1.20	8.53	10.59	14.05		2.85	5.22	6.31	7.35	9.27	12.50	14.78	15.50	15.92	16.00				
	1.50	8.68	10.78	14.34		2.89	5.30	6.41	7.47	9.44	12.75	15.11	15.87	16.33	16.45				
	3.00	8.76	10.89	14.51		2.92	5.35	6.47	7.54	9.53	12.89	15.29	16.08	16.56	16.70				
315	1.00	9.59	11.83	15.36		3.23	5.89	7.12	8.28	10.41	13.84	15.99	16.50	16.58					
	1.05	9.68	11.96	15.55		3.25	5.95	7.19	8.36	10.52	14.01	16.21	16.74	16.85					
	1.20	9.87	12.21	15.93		3.31	6.05	7.32	8.52	10.72	14.32	16.63	17.21	17.37					
	1.50	10.02	12.40	16.23		3.35	6.13	7.42	8.64	10.89	14.57	16.96	17.58	17.78					
	3.00	10.10	12.51	16.40		3.37	6.18	7.48	8.71	10.98	14.71	17.14	17.79	18.01					
355	1.00	11.07	13.59	17.22		3.74	6.83	8.24	9.58	12.00	15.75	17.73	17.93						
	1.05	11.17	13.72	17.41		3.76	6.88	8.31	9.66	12.11	15.91	17.94	18.17						
	1.20	11.36	13.96	17.79		3.82	6.99	8.44	9.82	12.32	16.22	18.36	18.64						
	1.50	11.51	14.16	18.09		3.86	7.07	8.55	9.94	12.48	16.47	18.69	19.01						
	3.00	11.59	14.27	18.26		3.88	7.12	8.60	10.01	12.57	16.61	18.88	19.22						
400	1.00	12.68	15.43	18.91		4.30	7.86	9.48	11.00	13.71	17.65	19.15							
	1.05	12.77	15.56	19.10		4.33	7.92	9.55	11.08	13.82	17.81	19.36							
	1.20	12.96	15.81	19.48		4.38	8.02	9.68	11.23	14.02	18.12	19.78							
	1.50	13.11	16.00	19.78		4.42	8.10	9.78	11.36	14.19	18.37	20.11							
	3.00	13.19	16.11	19.95		4.45	8.15	9.84	11.43	14.28	18.51	20.29							
450	1.00	14.37	17.31	20.23		4.92	8.99	10.82	12.52	15.49	19.43								
	1.05	14.47	17.44	20.43		4.95	9.04	10.88	12.60	15.60	19.59								
	1.20	14.66	17.68	20.81		5.00	9.14	11.01	12.75	15.81	19.90								
	1.50	14.81	17.88	21.11		5.04	9.23	11.12	12.88	15.97	20.15								
	3.00	14.89	17.99	21.27		5.07	9.27	11.18	12.95	16.06	20.29								
500	1.00	15.97	18.99			5.54	10.08	12.11	13.98	17.15	20.84								
	1.05	16.07	19.11			5.56	10.14	12.18	14.06	17.26	21.00								
	1.20	16.26	19.36			5.62	10.24	12.31	14.21	17.47	21.31								
	1.50	16.41	19.56			5.66	10.32	12.41	14.34	17.63	21.56								
	3.00	16.49	19.67			5.68	10.37	12.47	14.41	17.72	21.70								

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	2850	200	300	400	500	600	800	1200	1600	1800	2000	2200	2400	3200	3600
160	1.00	3.28	3.98	5.12	5.39	1.21	1.68	2.11	2.50	2.87	3.53	4.61	5.37	5.62	5.79	5.86	5.84	4.65	3.33
	1.05	3.44	4.19	5.45	6.03	1.26	1.75	2.20	2.61	3.00	3.71	4.88	5.72	6.02	6.23	6.35	6.37	5.36	4.13
	1.20	3.75	4.60	6.07	7.26	1.34	1.88	2.37	2.83	3.26	4.06	5.40	6.41	6.80	7.09	7.30	7.40	6.74	5.68
	1.50	3.99	4.92	6.56	8.23	1.41	1.98	2.51	3.00	3.47	4.33	5.80	6.96	7.41	7.77	8.05	8.22	7.83	6.90
	3.00	4.13	5.10	6.84	8.77	1.45	2.04	2.58	3.09	3.58	4.48	6.03	7.26	7.75	8.16	8.47	8.68	8.44	7.59
180	1.00	4.46	5.47	7.22	8.18	1.58	2.22	2.81	3.36	3.88	4.83	6.43	7.61	8.04	8.35	8.54	8.59	7.31	5.65
	1.05	4.62	5.69	7.54	8.81	1.63	2.29	2.89	3.47	4.01	5.01	6.69	7.97	8.44	8.80	9.02	9.12	8.02	6.45
	1.20	4.93	6.10	8.16	10.04	1.71	2.41	3.07	3.68	4.27	5.35	7.21	8.66	9.22	9.66	9.97	10.16	9.40	8.00
	1.50	5.18	6.42	8.66	11.01	1.78	2.52	3.20	3.85	4.47	5.62	7.62	9.20	9.83	10.34	10.72	10.97	10.49	9.23
	3.00	5.31	6.60	8.93	11.56	1.82	2.57	3.28	3.95	4.59	5.78	7.85	9.51	10.17	10.72	11.14	11.43	11.10	9.91
200	1.00	5.62	6.95	9.24	10.56	1.95	2.75	3.50	4.20	4.87	6.10	8.19	9.77	10.34	10.76	11.01	11.09	9.41	
	1.05	5.78	7.16	9.56	11.20	2.00	2.82	3.59	4.31	5.00	6.28	8.46	10.12	10.74	11.20	11.50	11.62	10.12	
	1.20	6.09	7.57	10.19	12.42	2.08	2.95	3.76	4.53	5.26	6.63	8.98	10.81	11.52	12.07	12.45	12.66	11.50	
	1.50	6.34	7.89	10.68	13.39	2.15	3.05	3.89	4.70	5.46	6.90	9.39	11.36	12.13	12.75	13.20	13.48	12.59	
	3.00	6.48	8.07	10.96	13.94	2.19	3.11	3.97	4.79	5.58	7.05	9.62	11.66	12.47	13.13	13.62	13.93	13.20	
224	1.00	7.00	8.67	11.57	12.84	2.39	3.38	4.32	5.20	6.04	7.61	10.26	12.23	12.93	13.43	13.70	13.74		
	1.05	7.16	8.89	11.90	13.48	2.43	3.45	4.41	5.31	6.18	7.78	10.52	12.59	13.33	13.88	14.19	14.27		
	1.20	7.47	9.29	12.52	14.70	2.52	3.58	4.58	5.53	6.44	8.13	11.04	13.28	14.11	14.74	15.14	15.30		
	1.50	7.72	9.62	13.02	15.67	2.59	3.68	4.71	5.70	6.64	8.40	11.45	13.82	14.72	15.42	15.89	16.12		
	3.00	7.85	9.80	13.29	16.22	2.62	3.74	4.79	5.79	6.75	8.55	11.68	14.13	15.07	15.80	16.31	16.58		
250	1.00	8.46	10.50	13.98		2.86	4.06	5.20	6.27	7.30	9.20	12.41	14.74	15.53	16.03	16.24	16.12		
	1.05	8.62	10.71	14.30		2.90	4.13	5.28	6.38	7.43	9.38	12.68	15.09	15.93	16.48	16.73	16.65		
	1.20	8.93	11.12	14.92		2.99	4.26	5.46	6.60	7.69	9.72	13.19	15.78	16.70	17.34	17.68	17.69		
	1.50	9.18	11.44	15.42		3.05	4.36	5.59	6.77	7.89	10.00	13.60	16.33	17.31	18.02	18.43	18.50		
	3.00	9.32	11.63	15.70		3.09	4.42	5.67	6.87	8.01	10.15	13.83	16.63	17.66	18.40	18.85	18.96		
280	1.00	10.12	12.55	16.58		3.39	4.83	6.20	7.49	8.72	11.00	14.79	17.41	18.21	18.63	18.64			
	1.05	10.28	12.76	16.90		3.44	4.90	6.29	7.60	8.86	11.18	15.06	17.77	18.61	19.08	19.12			
	1.20	10.59	13.17	17.52		3.52	5.03	6.46	7.82	9.11	11.52	15.57	18.45	19.39	19.94	20.07			
	1.50	10.83	13.49	18.02		3.59	5.13	6.59	7.99	9.32	11.79	15.98	19.00	20.00	20.62	20.82			
	3.00	10.97	13.67	18.30		3.63	5.19	6.67	8.08	9.43	11.95	16.21	19.31	20.34	21.00	21.24			
315	1.00	12.00	14.85	19.36		4.01	5.73	7.35	8.89	10.35	13.04	17.41	20.20	20.89	21.05				
	1.05	12.16	15.06	19.68		4.05	5.79	7.44	9.00	10.48	13.22	17.68	20.56	21.29	21.50				
	1.20	12.47	15.47	20.31		4.14	5.92	7.61	9.22	10.74	13.56	18.20	21.25	22.07	22.36				
	1.50	12.72	15.79	20.80		4.21	6.03	7.75	9.39	10.95	13.84	18.61	21.79	22.68	23.04				
	3.00	12.86	15.97	21.08		4.25	6.08	7.82	9.48	11.06	13.99	18.83	22.10	23.03	23.42				
355	1.00	14.09	17.36	22.19		4.71	6.73	8.65	10.46	12.17	15.29	20.20	22.92	23.31					
	1.05	14.25	17.57	22.51		4.75	6.80	8.74	10.57	12.30	15.47	20.46	23.28	23.71					
	1.20	14.56	17.98	23.13		4.84	6.93	8.91	10.78	12.56	15.82	20.98	23.97	24.48					
	1.50	14.81	18.30	23.63		4.91	7.03	9.04	10.95	12.77	16.09	21.39	24.51	25.09					
	3.00	14.95	18.48	23.90		4.95	7.09	9.12	11.05	12.88	16.24	21.62	24.82	25.44					
400	1.00	16.37	20.02	24.86		5.49	7.85	10.08	12.19	14.16	17.73	23.03	25.32						
	1.05	16.53	20.23	25.19		5.53	7.92	10.17	12.30	14.30	17.90	23.30	25.68						
	1.20	16.84	20.64	25.81		5.62	8.05	10.34	12.51	14.56	18.25	23.81	26.37						
	1.50	17.08	20.96	26.30		5.69	8.15	10.48	12.68	14.76	18.52	24.22	26.91						
	3.00	17.22	21.15	26.58		5.72	8.21	10.56	12.78	14.87	18.67	24.45	27.22						
450	1.00	18.78	22.77	27.16		6.34	9.08	11.65	14.06	16.31	20.29	25.77							
	1.05	18.94	22.98	27.48		6.39	9.14	11.74	14.17	16.44	20.47	26.04							
	1.20	19.25	23.39	28.10		6.47	9.27	11.91	14.39	16.70	20.81	26.56							
	1.50	19.50	23.71	28.60		6.54	9.38	12.04	14.56	16.91	21.08	26.97							
	3.00	19.64	23.89	28.88		6.58	9.43	12.12	14.65	17.02	21.24	27.20							
500	1.00	21.08	25.27			7.19	10.28	13.18	15.88	18.38	22.70	28.06							
	1.05	21.24	25.48			7.23	10.35	13.27	15.99	18.51	22.88	28.33							
	1.20	21.55	25.89			7.32	10.48	13.44	16.21	18.77	23.22	28.84							
	1.50	21.80	26.21			7.38	10.58	13.58	16.38	18.98	23.49	29.25							
	3.00	21.94	26.39			7.42	10.64	13.65	16.47	19.09	23.65	29.48							
560	1.00	23.68	27.92			8.19	11.71	14.98	18.00	20.76	25.37								
	1.05	23.84	28.13			8.23	11.77	15.07	18.11	20.89	25.55								
	1.20	24.15	28.54			8.32	11.90	15.24	18.33	21.15	25.89								
	1.50	24.39	28.87			8.39	12.00	15.38	18.50	21.35	26.16								
	3.00	24.53	29.05			8.42	12.06	15.45	18.59	21.47	26.32								

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	100	200	300	400	500	600	800	1200	1300	1600	1800	2000	2200	2400	2600
224	1.00	6.58	7.90	9.79	1.38	2.45	3.40	4.26	5.05	5.78	7.07	9.02	9.37	10.07	10.22	10.10	9.68	8.96	7.89
	1.05	6.84	8.24	10.31	1.42	2.52	3.50	4.40	5.23	5.99	7.36	9.45	9.84	10.64	10.87	10.82	10.47	9.82	8.83
	1.20	7.34	8.90	11.32	1.49	2.66	3.71	4.68	5.57	6.41	7.91	10.28	10.74	11.76	12.12	12.21	12.00	11.49	10.64
	1.50	7.73	9.43	12.11	1.54	2.77	3.88	4.90	5.85	6.74	8.35	10.95	11.46	12.64	13.11	13.31	13.22	12.81	12.07
	3.00	7.96	9.72	12.56	1.57	2.83	3.97	5.02	6.00	6.92	8.60	11.32	11.86	13.13	13.67	13.93	13.89	13.55	12.87
250	1.00	8.43	10.21	12.80	1.70	3.05	4.26	5.38	6.41	7.37	9.09	11.73	12.21	13.20	13.44	13.32	12.80	11.86	10.46
	1.05	8.69	10.55	13.32	1.74	3.12	4.37	5.52	6.59	7.59	9.38	12.16	12.68	13.78	14.09	14.04	13.59	12.72	11.39
	1.20	9.19	11.21	14.33	1.81	3.26	4.58	5.80	6.94	8.00	9.94	13.00	13.59	14.89	15.34	15.43	15.12	14.39	13.20
	1.50	9.59	11.73	15.13	1.86	3.37	4.75	6.02	7.21	8.33	10.38	13.66	14.30	15.77	16.33	16.53	16.33	15.71	14.63
	3.00	9.81	12.03	15.57	1.89	3.44	4.84	6.14	7.37	8.52	10.62	14.03	14.70	16.27	16.89	17.15	17.01	16.45	15.44
280	1.00	10.53	12.79	16.05	2.07	3.74	5.25	6.65	7.96	9.18	11.37	14.72	15.33	16.53	16.77	16.50	15.70		
	1.05	10.79	13.13	16.57	2.10	3.81	5.36	6.80	8.14	9.39	11.65	15.15	15.79	17.10	17.41	17.22	16.49		
	1.20	11.29	13.79	17.58	2.17	3.95	5.57	7.08	8.49	9.81	12.21	15.98	16.70	18.22	18.66	18.62	18.03		
	1.50	11.69	14.31	18.38	2.23	4.06	5.73	7.30	8.76	10.14	12.65	16.64	17.41	19.10	19.66	19.72	19.24		
	3.00	11.91	14.61	18.82	2.26	4.12	5.83	7.42	8.92	10.33	12.90	17.02	17.81	19.59	20.21	20.33	19.92		
315	1.00	12.91	15.68	19.51	2.49	4.53	6.39	8.12	9.74	11.24	13.94	18.00	18.71	19.98	20.05	19.43			
	1.05	13.17	16.03	20.03	2.52	4.60	6.50	8.26	9.91	11.46	14.23	18.43	19.18	20.56	20.70	20.15			
	1.20	13.67	16.69	21.04	2.59	4.74	6.71	8.54	10.26	11.88	14.79	19.27	20.08	21.67	21.95	21.54			
	1.50	14.07	17.21	21.84	2.65	4.85	6.87	8.76	10.54	12.21	15.23	19.93	20.80	22.55	22.94	22.64			
	3.00	14.29	17.50	22.29	2.68	4.91	6.97	8.89	10.69	12.39	15.47	20.30	21.20	23.04	23.50	23.26			
355	1.00	15.55	18.84	23.00	2.97	5.43	7.68	9.77	11.73	13.55	16.78	21.47	22.23	23.31	22.96				
	1.05	15.81	19.18	23.52	3.00	5.50	7.79	9.91	11.90	13.76	17.07	21.91	22.69	23.89	23.61				
	1.20	16.31	19.84	24.53	3.07	5.64	7.99	10.19	12.25	14.18	17.63	22.74	23.60	25.00	24.86				
	1.50	16.71	20.36	25.33	3.13	5.75	8.16	10.41	12.53	14.51	18.07	23.40	24.31	25.88	25.85				
	3.00	16.93	20.66	25.77	3.16	5.81	8.25	10.54	12.68	14.69	18.31	23.77	24.71	26.38	26.41				
400	1.00	18.42	22.17	26.27	3.50	6.42	9.10	11.59	13.91	16.06	19.84	24.99	25.70	26.21					
	1.05	18.68	22.51	26.79	3.53	6.49	9.21	11.74	14.09	16.28	20.13	25.42	26.17	26.78					
	1.20	19.18	23.18	27.80	3.60	6.63	9.42	12.02	14.44	16.70	20.68	26.26	27.07	27.90					
	1.50	19.57	23.70	28.60	3.66	6.74	9.58	12.24	14.72	17.03	21.12	26.92	27.79	28.78					
	3.00	19.79	23.99	29.05	3.69	6.81	9.68	12.36	14.87	17.21	21.37	27.29	28.19	29.27					
450	1.00	21.46	25.60	29.02	4.08	7.51	10.66	13.58	16.28	18.77	23.05	28.37	28.90						
	1.05	21.71	25.94	29.54	4.12	7.59	10.77	13.72	16.46	18.99	23.34	28.80	29.37						
	1.20	22.22	26.60	30.55	4.19	7.72	10.98	14.00	16.81	19.40	23.90	29.64	30.28						
	1.50	22.61	27.12	31.35	4.24	7.83	11.14	14.22	17.09	19.73	24.34	30.30	30.99						
	3.00	22.83	27.41	31.80	4.27	7.90	11.23	14.34	17.24	19.92	24.58	30.67	31.39						
500	1.00	24.34	28.70		4.66	8.59	12.19	15.52	18.58	21.38	26.06	31.15	31.36						
	1.05	24.60	29.04		4.70	8.66	12.30	15.66	18.76	21.59	26.35	31.58	31.82						
	1.20	25.10	29.70		4.77	8.80	12.51	15.94	19.11	22.01	26.91	32.41	32.73						
	1.50	25.49	30.23		4.82	8.91	12.67	16.16	19.39	22.34	27.35	33.07	33.44						
	3.00	25.72	30.52		4.85	8.97	12.77	16.29	19.54	22.52	27.59	33.44	33.84						
560	1.00	27.58	31.97		5.35	9.87	14.00	17.80	21.26	24.36	29.39								
	1.05	27.84	32.31		5.38	9.94	14.11	17.94	21.44	24.58	29.68								
	1.20	28.34	32.97		5.45	10.08	14.32	18.22	21.78	25.00	30.23								
	1.50	28.74	33.50		5.51	10.19	14.48	18.44	22.06	25.33	30.67								
	3.00	28.96	33.79		5.54	10.25	14.57	18.56	22.21	25.51	30.92								
630	1.00	31.04	35.10		6.14	11.34	16.07	20.37	24.25	27.65	32.84								
	1.05	31.30	35.45		6.18	11.41	16.17	20.52	24.43	27.86	33.13								
	1.20	31.80	36.11		6.25	11.55	16.38	20.80	24.77	28.28	33.68								
	1.50	32.20	36.63		6.30	11.66	16.55	21.02	25.05	28.61	34.12								
	3.00	32.42	36.92		6.33	11.72	16.64	21.14	25.20	28.80	34.37								
710	1.00	34.53			7.03	12.99	18.37	23.21	27.48	31.12	36.17								
	1.05	34.79			7.07	13.06	18.48	23.36	27.66	31.33	36.46								
	1.20	35.29			7.14	13.20	18.69	23.64	28.01	31.75	37.02								
	1.50	35.69			7.20	13.31	18.85	23.86	28.29	32.08	37.46								
	3.00	35.91			7.23	13.37	18.94	23.98	28.44	32.27	37.71								
800	1.00	37.83			8.03	14.81	20.89	26.27	30.88	34.63	39.07								
	1.05	38.09			8.07	14.88	20.99	26.41	31.06	34.85	39.36								
	1.20	38.59			8.14	15.02	21.20	26.69	31.41	35.27	39.91								
	1.50	38.98			8.19	15.13	21.37	26.91	31.69	35.60	40.35								
	3.00	39.21			8.22	15.19	21.46	27.03	31.84	35.78	40.60								

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	50	100	150	200	250	300	400	500	600	800	1200	1300	1600	1800	2000
280	1.00	12.08	14.21	16.32	1.47	2.64	3.68	4.64	5.55	6.40	7.98	9.40	10.70	12.90	15.72	16.07	16.19	15.42	13.89
	1.05	12.55	14.83	17.27	1.51	2.70	3.78	4.77	5.71	6.60	8.24	9.73	11.09	13.42	16.51	16.92	17.24	16.60	15.20
	1.20	13.46	16.04	19.11	1.57	2.83	3.97	5.03	6.03	6.98	8.75	10.37	11.85	14.44	18.03	18.57	19.27	18.88	17.74
	1.50	14.19	16.99	20.56	1.62	2.93	4.12	5.23	6.28	7.28	9.15	10.87	12.45	15.24	19.23	19.88	20.88	20.69	19.75
	3.00	14.59	17.52	21.38	1.65	2.98	4.20	5.34	6.42	7.45	9.37	11.15	12.79	15.69	19.91	20.61	21.78	21.71	20.88
315	1.00	15.63	18.52	21.43	1.81	3.27	4.60	5.83	7.00	8.11	10.17	12.06	13.78	16.73	20.59	21.08	21.28	20.24	18.16
	1.05	16.10	19.14	22.38	1.84	3.34	4.70	5.97	7.16	8.31	10.44	12.39	14.17	17.26	21.38	21.94	22.33	21.42	19.47
	1.20	17.02	20.34	24.23	1.91	3.46	4.89	6.22	7.48	8.69	10.94	13.02	14.93	18.27	22.90	23.59	24.36	23.71	22.01
	1.50	17.74	21.30	25.68	1.96	3.56	5.04	6.42	7.73	8.99	11.34	13.52	15.54	19.08	24.11	24.89	25.97	25.52	24.02
	3.00	18.14	21.83	26.50	1.99	3.62	5.12	6.53	7.87	9.16	11.57	13.81	15.87	19.53	24.78	25.62	26.87	26.53	25.14
355	1.00	19.56	23.20	26.58	2.19	3.99	5.64	7.18	8.64	10.03	12.64	15.03	17.22	20.96	25.73	26.28	26.18	24.47	
	1.05	20.04	23.82	27.53	2.23	4.06	5.74	7.31	8.81	10.23	12.90	15.36	17.61	21.49	26.52	27.13	27.23	25.66	
	1.20	20.95	25.03	29.37	2.29	4.18	5.93	7.56	9.12	10.61	13.41	15.99	18.37	22.50	28.04	28.79	29.26	27.94	
	1.50	21.67	25.98	30.82	2.34	4.28	6.08	7.77	9.37	10.91	13.81	16.50	18.97	23.30	29.24	30.09	30.86	29.75	
	3.00	22.08	26.52	31.64	2.37	4.34	6.16	7.88	9.51	11.08	14.04	16.78	19.31	23.76	29.92	30.82	31.76	30.76	
400	1.00	23.82	28.15	31.37	2.62	4.79	6.79	8.67	10.46	12.17	15.37	18.30	20.97	25.50	30.92	31.40	30.39		
	1.05	24.30	28.77	32.33	2.65	4.86	6.89	8.80	10.62	12.36	15.63	18.63	21.36	26.03	31.71	32.25	31.44		
	1.20	25.21	29.97	34.17	2.71	4.98	7.08	9.06	10.94	12.75	16.14	19.26	22.12	27.04	33.23	33.90	33.47		
	1.50	25.93	30.93	35.62	2.76	5.08	7.23	9.26	11.19	13.05	16.54	19.76	22.73	27.85	34.43	35.21	35.07		
	3.00	26.34	31.46	36.44	2.79	5.14	7.32	9.37	11.33	13.22	16.76	20.04	23.06	28.30	35.11	35.94	35.98		
450	1.00	28.34	33.21	35.37	3.09	5.67	8.06	10.31	12.45	14.50	18.33	21.83	25.00	30.27	35.89	36.10			
	1.05	28.81	33.84	36.32	3.12	5.74	8.16	10.44	12.62	14.70	18.59	22.16	25.39	30.80	36.68	36.95			
	1.20	29.73	35.04	38.16	3.18	5.86	8.35	10.70	12.93	15.08	19.10	22.79	26.15	31.81	38.20	38.60			
	1.50	30.45	36.00	39.62	3.23	5.96	8.50	10.90	13.19	15.38	19.50	23.30	26.76	32.62	39.41	39.90			
	3.00	30.85	36.53	40.43	3.26	6.02	8.58	11.01	13.33	15.55	19.73	23.58	27.09	33.07	40.08	40.64			
500	1.00	32.62	37.80		3.55	6.54	9.31	11.93	14.42	16.79	21.23	25.26	28.87	34.73	39.95	39.65			
	1.05	33.09	38.42		3.58	6.61	9.41	12.06	14.58	16.99	21.49	25.59	29.27	35.26	40.74	40.51			
	1.20	34.01	39.63		3.65	6.73	9.60	12.31	14.90	17.37	22.00	26.22	30.03	36.27	42.26	42.16			
	1.50	34.73	40.58		3.70	6.83	9.75	12.51	15.15	17.67	22.40	26.73	30.63	37.08	43.47	43.46			
	3.00	35.13	41.11		3.72	6.89	9.84	12.63	15.29	17.84	22.63	27.01	30.97	37.53	44.14	44.19			
560	1.00	37.42	42.61		4.10	7.58	10.80	13.84	16.73	19.49	24.62	29.24	33.31	39.65					
	1.05	37.89	43.23		4.13	7.64	10.90	13.97	16.90	19.69	24.89	29.57	33.71	40.18					
	1.20	38.81	44.44		4.20	7.77	11.09	14.22	17.22	20.07	25.39	30.20	34.47	41.19					
	1.50	39.53	45.39		4.25	7.87	11.24	14.43	17.47	20.37	25.80	30.70	35.07	41.99					
	3.00	39.94	45.93		4.28	7.92	11.32	14.54	17.61	20.54	26.02	30.99	35.41	42.44					
630	1.00	42.54	47.19		4.74	8.77	12.51	16.04	19.39	22.58	28.46	33.68	38.18	44.74					
	1.05	43.01	47.82		4.77	8.83	12.61	16.17	19.55	22.77	28.73	34.01	38.58	45.27					
	1.20	43.92	49.02		4.83	8.96	12.80	16.42	19.87	23.15	29.23	34.65	39.34	46.28					
	1.50	44.65	49.98		4.88	9.06	12.95	16.62	20.12	23.45	29.64	35.15	39.94	47.08					
	3.00	45.05	50.51		4.91	9.12	13.03	16.74	20.26	23.62	29.86	35.43	40.28	47.54					
710	1.00	47.69			5.46	10.11	14.43	18.51	22.36	26.01	32.69	38.49	43.32	49.63					
	1.05	48.16			5.49	10.18	14.53	18.64	22.53	26.21	32.95	38.82	43.72	50.16					
	1.20	49.07			5.55	10.30	14.72	18.89	22.84	26.59	33.46	39.45	44.48	51.17					
	1.50	49.80			5.60	10.40	14.87	19.09	23.09	26.89	33.86	39.95	45.08	51.98					
	3.00	50.20			5.63	10.46	14.96	19.20	23.24	27.06	34.09	40.24	45.42	52.43					
800	1.00	52.52			6.26	11.61	16.57	21.23	25.63	29.77	37.23	43.53	48.51	53.85					
	1.05	52.99			6.29	11.67	16.66	21.36	25.79	29.96	37.50	43.86	48.91	54.37					
	1.20	53.90			6.35	11.80	16.85	21.62	26.11	30.34	38.00	44.49	49.67	55.39					
	1.50	54.63			6.40	11.90	17.01	21.82	26.36	30.64	38.40	44.99	50.27	56.19					
	3.00	55.03			6.43	11.95	17.09	21.93	26.50	30.81	38.63	45.28	50.61	56.64					
900	1.00	56.57			7.14	13.24	18.90	24.20	29.16	33.79	42.00	48.64	53.49						
	1.05	57.04			7.17	13.31	19.00	24.33	29.33	33.99	42.26	48.97	53.88						
	1.20	57.96			7.23	13.44	19.19	24.58	29.64	34.37	42.77	49.60	54.64						
	1.50	58.68			7.28	13.54	19.34	24.78	29.89	34.67	43.17	50.11	55.24						
	3.00	59.08			7.31	13.59	19.42	24.89	30.03	34.84	43.40	50.39	55.58						
1000	1.00				8.01	14.86	21.19	27.10	32.59	37.67	46.46	53.20	57.55						
	1.05				8.04	14.92	21.29	27.23	32.76	37.87	46.73	53.53	57.94						
	1.20				8.10	15.05	21.48	27.48	33.07	38.25	47.23	54.16	58.70						
	1.50				8.15	15.15	21.63	27.68	33.32	38.55	47.63	54.66	59.30						
	3.00				8.18	15.21	21.71	27.79	33.46	38.72	47.86	54.95	59.64						

PROGRAMME 15

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																		
		720	950	20	50	100	150	200	250	300	350	400	450	500	600	800	1000	1200	1300
450	1.00	26.27	28.33	1.55	3.41	6.12	8.56	10.81	12.90	14.86	16.69	18.39	19.97	21.42	23.95	27.36	28.32	26.43	24.29
	1.05	27.25	29.62	1.57	3.48	6.26	8.77	11.08	13.24	15.27	17.16	18.93	20.57	22.10	24.76	28.45	29.67	28.05	26.04
	1.20	29.13	32.11	1.62	3.61	6.52	9.16	11.61	13.90	16.05	18.08	19.98	21.75	23.41	26.33	30.54	32.29	31.20	29.45
	1.50	30.62	34.07	1.67	3.71	6.73	9.47	12.02	14.42	16.67	18.80	20.80	22.68	24.44	27.57	32.20	34.36	33.68	32.14
	3.00	31.46	35.18	1.69	3.77	6.84	9.64	12.25	14.71	17.02	19.21	21.27	23.21	25.02	28.27	33.13	35.52	35.07	33.65
500	1.00	32.20	34.48	1.83	4.07	7.36	10.34	13.10	15.69	18.11	20.37	22.48	24.44	26.25	29.37	33.49	34.37	31.44	28.37
	1.05	33.18	35.77	1.86	4.13	7.49	10.54	13.37	16.03	18.51	20.85	23.03	25.05	26.92	30.18	34.57	35.72	33.07	30.13
	1.20	35.06	38.26	1.91	4.26	7.75	10.94	13.90	16.68	19.30	21.76	24.07	26.23	28.23	31.75	36.67	38.34	36.21	33.53
	1.50	36.55	40.22	1.95	4.37	7.96	11.25	14.31	17.20	19.92	22.49	24.90	27.16	29.27	32.99	38.32	40.41	38.69	36.22
	3.00	37.39	41.33	1.97	4.43	8.08	11.42	14.54	17.49	20.27	22.89	25.37	27.69	29.85	33.69	39.25	41.57	40.09	37.73
560	1.00	38.80	40.77	2.16	4.85	8.82	12.45	15.82	18.97	21.93	24.70	27.27	29.65	31.83	35.55	40.16	40.37		
	1.05	39.77	42.05	2.19	4.91	8.96	12.65	16.09	19.31	22.34	25.17	27.81	30.26	32.51	36.36	41.24	41.72		
	1.20	41.66	44.54	2.24	5.04	9.22	13.04	16.61	19.97	23.12	26.09	28.86	31.44	33.81	37.93	43.33	44.34		
	1.50	43.15	46.51	2.29	5.15	9.43	13.35	17.02	20.48	23.74	26.81	29.69	32.37	34.85	39.17	44.99	46.41		
	3.00	43.98	47.61	2.31	5.21	9.54	13.53	17.26	20.77	24.09	27.22	30.15	32.89	35.43	39.87	45.92	47.57		
630	1.00	45.72	46.46	2.55	5.75	10.51	14.87	18.93	22.73	26.29	29.61	32.68	35.49	38.04	42.28	46.91	45.46		
	1.05	46.69	47.74	2.58	5.81	10.65	15.07	19.20	23.07	26.70	30.08	33.22	36.10	38.71	43.09	47.99	46.81		
	1.20	48.58	50.23	2.63	5.95	10.91	15.47	19.73	23.73	27.48	31.00	34.26	37.28	40.02	44.66	50.08	49.43		
	1.50	50.07	52.20	2.67	6.05	11.12	15.78	20.14	24.24	28.10	31.72	35.09	38.21	41.06	45.90	51.74	51.50		
	3.00	50.91	53.30	2.70	6.11	11.23	15.95	20.37	24.53	28.45	32.13	35.56	38.73	41.64	46.60	52.67	52.66		
710	1.00	52.53		2.99	6.77	12.42	17.60	22.43	26.94	31.14	35.03	38.60	41.83	44.71	49.29	53.15			
	1.05	53.50		3.02	6.83	12.55	17.81	22.70	27.28	31.55	35.51	39.14	42.44	45.38	50.10	54.23			
	1.20	55.39		3.07	6.96	12.82	18.20	23.22	27.93	32.33	36.42	40.19	43.62	46.69	51.68	56.33			
	1.50	56.88		3.12	7.07	13.02	18.51	23.64	28.45	32.96	37.15	41.02	44.55	47.73	52.92	57.98			
	3.00	57.72		3.14	7.13	13.14	18.68	23.87	28.74	33.30	37.56	41.48	45.08	48.31	53.61	58.91			
800	1.00	58.65		3.49	7.90	14.54	20.63	26.29	31.56	36.43	40.90	44.94	48.53	51.63	56.25	58.11			
	1.05	59.62		3.51	7.97	14.67	20.83	26.56	31.89	36.84	41.37	45.48	49.14	52.31	57.06	59.19			
	1.20	61.51		3.56	8.10	14.93	21.22	27.08	32.55	37.62	42.29	46.53	50.32	53.62	58.63	61.28			
	1.50	63.00		3.61	8.20	15.14	21.53	27.50	33.07	38.24	43.02	47.36	51.25	54.65	59.88	62.94			
	3.00	63.84		3.63	8.26	15.26	21.71	27.73	33.36	38.59	43.42	47.82	51.77	55.24	60.57	63.87			
900	1.00	63.35		4.03	9.15	16.86	23.93	30.48	36.54	42.09	47.11	51.56	55.39	58.56	62.72				
	1.05	64.32		4.05	9.21	16.99	24.13	30.75	36.88	42.50	47.58	52.10	56.00	59.24	63.53				
	1.20	66.21		4.10	9.35	17.26	24.53	31.28	37.53	43.28	48.50	53.14	57.18	60.55	65.10				
	1.50	67.70		4.15	9.45	17.46	24.84	31.69	38.05	43.90	49.22	53.97	58.11	61.58	66.34				
	3.00	68.54		4.17	9.51	17.58	25.01	31.92	38.34	44.25	49.63	54.44	58.63	62.16	67.04				
1000	1.00			4.56	10.38	19.15	27.18	34.58	41.37	47.51	52.97	57.68	61.58	64.61	67.73				
	1.05			4.59	10.45	19.29	27.38	34.85	41.71	47.92	53.44	58.22	62.19	65.28	68.54				
	1.20			4.64	10.58	19.55	27.77	35.37	42.36	48.70	54.36	59.27	63.37	66.59	70.11				
	1.50			4.68	10.68	19.76	28.09	35.79	42.88	49.33	55.08	60.10	64.30	67.63	71.36				
	3.00			4.70	10.74	19.87	28.26	36.02	43.17	49.67	55.49	60.56	64.83	68.21	72.05				
1120	1.00			5.20	11.85	21.86	31.00	39.37	46.95	53.69	59.52	64.35	68.08	70.60					
	1.05			5.22	11.91	22.00	31.21	39.64	47.29	54.10	59.99	64.89	68.68	71.28					
	1.20			5.28	12.04	22.26	31.60	40.16	47.94	54.88	60.91	65.94	69.86	72.59					
	1.50			5.32	12.15	22.47	31.91	40.58	48.46	55.50	61.64	66.76	70.79	73.62					
	3.00			5.34	12.21	22.58	32.08	40.81	48.75	55.85	62.04	67.23	71.32	74.21					
1250	1.00			5.88	13.42	24.76	35.05	44.39	52.72	59.96	65.98	70.66	73.85	75.41					
	1.05			5.91	13.48	24.89	35.26	44.66	53.06	60.36	66.45	71.20	74.45	76.08					
	1.20			5.96	13.61	25.16	35.65	45.19	53.72	61.15	67.37	72.24	75.63	77.39					
	1.50			6.00	13.72	25.36	35.96	45.60	54.23	61.77	68.09	73.07	76.56	78.43					
	3.00			6.02	13.78	25.48	36.14	45.83	54.52	62.12	68.50	73.54	77.09	79.01					
1400	1.00			6.66	15.21	28.04	39.62	49.97	59.02	66.60	72.54	76.65	78.72						
	1.05			6.69	15.27	28.18	39.82	50.24	59.36	67.01	73.02	77.19	79.33						
	1.20			6.74	15.40	28.44	40.21	50.77	60.01	67.79	73.93	78.24	80.51						
	1.50			6.78	15.51	28.65	40.52	51.18	60.53	68.41	74.66	79.07	81.44						
	3.00			6.80	15.57	28.76	40.70	51.41	60.82	68.76	75.06	79.53	81.96						
1600	1.00			7.69	17.56	32.34	45.50	57.04	66.75	74.39	79.68	82.30							
	1.05			7.72	17.63	32.47	45.71	57.31	67.09	74.80	80.15	82.84							
	1.20			7.77	17.76	32.73	46.10	57.83	67.75	75.59	81.07	83.89							
	1.50			7.81	17.86	32.94	46.41	58.25	68.26	76.21	81.79	84.71							
	3.00			7.83	17.92	33.06	46.58	58.48	68.55	76.55	82.20	85.18							

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	2850	400	600	800	1200	1600	2000	2400	3200	3600	4000	5000	6000	8000	9500
40	1.00	0.16	0.20	0.27	0.41	0.10	0.14	0.18	0.24	0.29	0.33	0.37	0.43	0.45	0.47	0.51	0.51	0.45	0.33
	1.05	0.17	0.21	0.28	0.43	0.11	0.15	0.18	0.25	0.30	0.35	0.39	0.46	0.49	0.51	0.55	0.57	0.53	0.42
	1.20	0.18	0.23	0.31	0.48	0.12	0.16	0.20	0.27	0.33	0.38	0.43	0.52	0.55	0.58	0.64	0.68	0.67	0.59
	1.50	0.19	0.24	0.33	0.52	0.12	0.17	0.21	0.29	0.35	0.41	0.47	0.56	0.60	0.64	0.72	0.77	0.79	0.73
	3.00	0.20	0.25	0.34	0.55	0.12	0.17	0.22	0.30	0.37	0.43	0.49	0.59	0.63	0.67	0.76	0.81	0.85	0.80
50	1.00	0.27	0.33	0.46	0.75	0.17	0.23	0.29	0.40	0.50	0.59	0.67	0.81	0.87	0.93	1.04	1.11	1.11	0.98
	1.05	0.27	0.34	0.48	0.78	0.17	0.24	0.30	0.41	0.51	0.60	0.69	0.84	0.90	0.96	1.08	1.16	1.19	1.07
	1.20	0.29	0.36	0.50	0.83	0.18	0.25	0.31	0.43	0.54	0.64	0.73	0.90	0.97	1.04	1.17	1.27	1.33	1.25
	1.50	0.30	0.37	0.52	0.87	0.18	0.26	0.32	0.45	0.56	0.67	0.77	0.94	1.02	1.09	1.25	1.36	1.45	1.38
	3.00	0.30	0.38	0.53	0.89	0.19	0.26	0.33	0.46	0.58	0.69	0.79	0.97	1.05	1.13	1.29	1.41	1.51	1.46
56	1.00	0.33	0.41	0.58	0.95	0.20	0.28	0.36	0.50	0.62	0.74	0.84	1.03	1.11	1.19	1.33	1.43	1.45	1.28
	1.05	0.34	0.42	0.59	0.98	0.21	0.29	0.37	0.51	0.64	0.76	0.86	1.06	1.14	1.22	1.38	1.49	1.52	1.37
	1.20	0.35	0.44	0.62	1.03	0.21	0.30	0.38	0.53	0.67	0.79	0.91	1.12	1.21	1.30	1.47	1.60	1.67	1.54
	1.50	0.36	0.45	0.64	1.07	0.22	0.31	0.39	0.55	0.69	0.82	0.94	1.16	1.26	1.35	1.54	1.68	1.78	1.68
	3.00	0.36	0.46	0.65	1.09	0.22	0.31	0.40	0.56	0.70	0.84	0.96	1.19	1.29	1.38	1.58	1.73	1.85	1.75
63	1.00	0.40	0.50	0.71	1.18	0.24	0.34	0.44	0.61	0.76	0.91	1.04	1.28	1.38	1.48	1.66	1.78	1.77	1.52
	1.05	0.41	0.51	0.72	1.21	0.25	0.35	0.44	0.62	0.78	0.93	1.06	1.31	1.42	1.51	1.71	1.84	1.85	1.61
	1.20	0.42	0.53	0.75	1.26	0.26	0.36	0.46	0.64	0.81	0.96	1.11	1.37	1.48	1.59	1.80	1.95	1.99	1.79
	1.50	0.43	0.54	0.77	1.30	0.26	0.37	0.47	0.66	0.83	0.99	1.14	1.41	1.53	1.64	1.87	2.03	2.11	1.92
	3.00	0.44	0.55	0.78	1.32	0.26	0.37	0.48	0.67	0.84	1.01	1.16	1.44	1.56	1.68	1.91	2.08	2.17	2.00
71	1.00	0.48	0.60	0.85	1.43	0.29	0.41	0.52	0.73	0.92	1.10	1.26	1.55	1.68	1.79	2.01	2.14	2.06	1.65
	1.05	0.49	0.61	0.87	1.46	0.30	0.42	0.53	0.74	0.94	1.12	1.29	1.58	1.71	1.83	2.06	2.19	2.13	1.74
	1.20	0.50	0.63	0.89	1.51	0.30	0.43	0.55	0.77	0.97	1.16	1.33	1.64	1.78	1.90	2.15	2.30	2.28	1.92
	1.50	0.51	0.64	0.91	1.55	0.31	0.44	0.56	0.78	0.99	1.18	1.36	1.69	1.83	1.96	2.22	2.39	2.39	2.05
	3.00	0.52	0.65	0.93	1.58	0.31	0.44	0.56	0.79	1.00	1.20	1.38	1.71	1.86	1.99	2.26	2.44	2.45	2.13
80	1.00	0.57	0.72	1.02	1.71	0.34	0.49	0.62	0.87	1.10	1.31	1.51	1.85	2.00	2.13	2.37	2.48	2.24	1.59
	1.05	0.57	0.73	1.03	1.74	0.35	0.49	0.63	0.88	1.12	1.33	1.53	1.88	2.03	2.16	2.42	2.54	2.32	1.68
	1.20	0.59	0.74	1.06	1.79	0.35	0.50	0.64	0.90	1.14	1.37	1.57	1.94	2.10	2.24	2.51	2.64	2.46	1.85
	1.50	0.60	0.76	1.08	1.83	0.36	0.51	0.65	0.92	1.17	1.40	1.61	1.99	2.15	2.29	2.58	2.73	2.58	1.99
	3.00	0.60	0.76	1.09	1.85	0.36	0.52	0.66	0.93	1.18	1.41	1.63	2.01	2.18	2.33	2.62	2.78	2.64	2.07
90	1.00	0.67	0.84	1.19	2.00	0.40	0.57	0.73	1.02	1.29	1.54	1.77	2.17	2.33	2.47	2.72	2.78	2.28	1.24
	1.05	0.67	0.85	1.21	2.03	0.41	0.58	0.73	1.03	1.31	1.56	1.79	2.20	2.36	2.51	2.76	2.84	2.35	1.32
	1.20	0.69	0.87	1.23	2.08	0.41	0.59	0.75	1.05	1.34	1.60	1.84	2.25	2.43	2.58	2.85	2.95	2.50	1.50
	1.50	0.70	0.88	1.25	2.12	0.42	0.59	0.76	1.07	1.36	1.62	1.87	2.30	2.48	2.64	2.93	3.03	2.61	1.63
	3.00	0.70	0.89	1.27	2.15	0.42	0.60	0.77	1.08	1.37	1.64	1.89	2.33	2.51	2.67	2.97	3.08	2.68	1.71
100	1.00	0.76	0.96	1.37	2.28	0.46	0.65	0.83	1.17	1.48	1.76	2.02	2.46	2.64	2.79	3.01	2.99	2.11	0.54
	1.05	0.77	0.97	1.38	2.31	0.46	0.66	0.84	1.18	1.49	1.78	2.05	2.49	2.67	2.82	3.06	3.05	2.18	0.63
	1.20	0.78	0.99	1.41	2.36	0.47	0.67	0.85	1.20	1.52	1.82	2.09	2.55	2.74	2.90	3.15	3.16	2.33	0.81
	1.50	0.79	1.00	1.43	2.40	0.48	0.68	0.87	1.22	1.55	1.85	2.12	2.60	2.79	2.95	3.22	3.25	2.44	0.94
	3.00	0.80	1.01	1.44	2.43	0.48	0.68	0.87	1.23	1.56	1.86	2.14	2.62	2.82	2.99	3.26	3.29	2.51	1.02
112	1.00	0.87	1.11	1.57	2.60	0.53	0.75	0.96	1.34	1.70	2.02	2.31	2.79	2.98	3.12	3.28	3.12	1.61	
	1.05	0.88	1.12	1.58	2.63	0.53	0.75	0.96	1.36	1.71	2.04	2.34	2.82	3.01	3.16	3.33	3.17	1.68	
	1.20	0.89	1.13	1.61	2.68	0.54	0.76	0.98	1.38	1.74	2.08	2.38	2.88	3.08	3.23	3.42	3.28	1.83	
	1.50	0.90	1.15	1.63	2.72	0.54	0.77	0.99	1.40	1.77	2.11	2.41	2.93	3.13	3.29	3.49	3.37	1.94	
	3.00	0.91	1.15	1.64	2.74	0.55	0.78	1.00	1.40	1.78	2.12	2.43	2.95	3.16	3.32	3.53	3.42	2.01	
125	1.00	1.00	1.26	1.79	2.92	0.60	0.85	1.09	1.53	1.93	2.29	2.61	3.12	3.30	3.43	3.47	3.08	0.66	
	1.05	1.00	1.27	1.80	2.95	0.60	0.86	1.10	1.54	1.95	2.31	2.64	3.15	3.34	3.47	3.52	3.13	0.74	
	1.20	1.01	1.29	1.83	3.00	0.61	0.87	1.11	1.56	1.98	2.35	2.68	3.21	3.40	3.54	3.61	3.24	0.88	
	1.50	1.03	1.30	1.85	3.04	0.61	0.88	1.12	1.58	2.00	2.38	2.71	3.26	3.45	3.60	3.68	3.33	1.00	
	3.00	1.03	1.31	1.86	3.07	0.62	0.88	1.13	1.59	2.01	2.39	2.73	3.28	3.48	3.63	3.72	3.38	1.06	
140	1.00	1.13	1.43	2.03	3.26	0.68	0.97	1.24	1.74	2.19	2.59	2.94	3.46	3.62	3.70	3.54	2.78		
	1.05	1.14	1.44	2.04	3.29	0.68	0.97	1.25	1.75	2.21	2.61	2.96	3.49	3.65	3.74	3.59	2.84		
	1.20	1.15	1.46	2.07	3.34	0.69	0.98	1.26	1.77	2.23	2.65	3.01	3.55	3.72	3.81	3.68	2.94		
	1.50	1.16	1.47	2.09	3.38	0.70	0.99	1.27	1.79	2.26	2.67	3.04	3.59	3.77	3.87	3.75	3.03		
	3.00	1.17	1.48	2.10	3.40	0.70	1.00	1.28	1.80	2.27	2.69	3.06	3.62	3.80	3.90	3.79	3.08		
160	1.00	1.31	1.66	2.34	3.65	0.79	1.12	1.44	2.01	2.52	2.96	3.34	3.82	3.93	3.92	3.37	1.92		
	1.05	1.32	1.67	2.35	3.68	0.79	1.13	1.44	2.02	2.54	2.98	3.36	3.85	3.96	3.96	3.41	1.97		
	1.20	1.33	1.68	2.38	3.73	0.80	1.14	1.46	2.04	2.57	3.02	3.40	3.91	4.03	4.03	3.50	2.08		
	1.50	1.34	1.70	2.40	3.77	0.81	1.15	1.47	2.06	2.59	3.05	3.44	3.96	4.08	4.09	3.57	2.17		
	3.00	1.35	1.71	2.41	3.80	0.81	1.15	1.48	2.07	2.60	3.06	3.45	3.98	4.11	4.12	3.61	2.22		

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	2850	400	600	800	1200	1600	2000	2400	3200	3600	4000	5000	6000	8000	9500
50	1.00	0.14	0.14	0.13		0.11	0.13	0.14	0.14	0.12									
	1.05	0.17	0.18	0.19	0.06	0.13	0.16	0.17	0.19	0.18	0.16	0.12							
	1.20	0.22	0.26	0.30	0.28	0.16	0.20	0.24	0.28	0.30	0.31	0.30	0.25	0.21	0.15				
	1.50	0.27	0.31	0.39	0.45	0.18	0.24	0.28	0.35	0.40	0.43	0.45	0.44	0.42	0.39	0.27			
	3.00	0.29	0.35	0.44	0.55	0.20	0.26	0.31	0.39	0.46	0.50	0.53	0.55	0.55	0.53	0.44	0.29		
63	1.00	0.48	0.58	0.77	1.11	0.31	0.42	0.51	0.68	0.82	0.93	1.02	1.16	1.20	1.22	1.20	1.08	0.44	
	1.05	0.51	0.62	0.82	1.22	0.33	0.44	0.55	0.73	0.88	1.01	1.12	1.28	1.34	1.38	1.40	1.31	0.76	
	1.20	0.56	0.69	0.94	1.44	0.36	0.49	0.61	0.82	1.00	1.16	1.30	1.53	1.62	1.69	1.79	1.78	1.38	0.71
	1.50	0.61	0.75	1.02	1.61	0.38	0.53	0.66	0.89	1.10	1.28	1.45	1.72	1.84	1.93	2.09	2.14	1.87	1.28
	3.00	0.63	0.78	1.07	1.71	0.39	0.55	0.68	0.93	1.15	1.35	1.53	1.83	1.96	2.07	2.26	2.35	2.14	1.61
71	1.00	0.68	0.84	1.15	1.80	0.43	0.59	0.74	1.01	1.24	1.44	1.62	1.92	2.04	2.13	2.27	2.25	1.72	0.80
	1.05	0.71	0.88	1.21	1.91	0.45	0.62	0.77	1.05	1.30	1.52	1.72	2.05	2.18	2.29	2.47	2.49	2.03	1.18
	1.20	0.77	0.96	1.32	2.13	0.48	0.66	0.83	1.15	1.42	1.68	1.90	2.29	2.46	2.60	2.85	2.95	2.65	1.91
	1.50	0.81	1.01	1.41	2.31	0.50	0.70	0.88	1.22	1.52	1.80	2.05	2.49	2.68	2.84	3.16	3.32	3.14	2.49
	3.00	0.84	1.05	1.46	2.41	0.51	0.72	0.91	1.26	1.58	1.87	2.13	2.60	2.80	2.98	3.33	3.53	3.41	2.81
80	1.00	0.91	1.14	1.58	2.57	0.56	0.79	0.99	1.37	1.71	2.01	2.29	2.76	2.95	3.12	3.40	3.49	2.95	1.84
	1.05	0.94	1.18	1.64	2.68	0.58	0.81	1.02	1.42	1.77	2.09	2.38	2.89	3.10	3.28	3.60	3.73	3.27	2.22
	1.20	1.00	1.25	1.75	2.90	0.61	0.86	1.09	1.51	1.89	2.25	2.57	3.13	3.37	3.59	3.99	4.19	3.89	2.95
	1.50	1.04	1.31	1.84	3.07	0.63	0.89	1.13	1.58	1.99	2.37	2.72	3.33	3.59	3.83	4.29	4.55	4.38	3.53
	3.00	1.06	1.34	1.89	3.17	0.65	0.91	1.16	1.62	2.04	2.44	2.80	3.44	3.72	3.97	4.46	4.76	4.65	3.85
90	1.00	1.16	1.46	2.05	3.40	0.71	1.00	1.27	1.77	2.22	2.63	3.01	3.67	3.94	4.18	4.59	4.74	4.06	2.57
	1.05	1.19	1.50	2.11	3.51	0.73	1.02	1.30	1.81	2.28	2.71	3.11	3.79	4.08	4.34	4.79	4.98	4.38	2.94
	1.20	1.25	1.57	2.22	3.73	0.76	1.07	1.36	1.91	2.41	2.87	3.29	4.04	4.36	4.64	5.18	5.44	5.00	3.68
	1.50	1.29	1.63	2.31	3.90	0.78	1.10	1.41	1.98	2.50	2.99	3.44	4.24	4.58	4.89	5.48	5.81	5.49	4.25
	3.00	1.31	1.66	2.36	4.00	0.79	1.13	1.44	2.02	2.56	3.06	3.52	4.34	4.70	5.02	5.65	6.01	5.76	4.58
100	1.00	1.41	1.78	2.52	4.21	0.85	1.21	1.54	2.16	2.72	3.24	3.72	4.54	4.89	5.18	5.70	5.85	4.87	2.80
	1.05	1.44	1.82	2.57	4.32	0.87	1.23	1.57	2.21	2.79	3.32	3.82	4.67	5.03	5.34	5.90	6.09	5.19	3.17
	1.20	1.49	1.89	2.69	4.54	0.90	1.28	1.63	2.30	2.91	3.48	4.00	4.92	5.31	5.65	6.28	6.55	5.81	3.91
	1.50	1.54	1.95	2.77	4.71	0.93	1.32	1.68	2.37	3.01	3.60	4.15	5.11	5.53	5.90	6.59	6.92	6.29	4.49
	3.00	1.56	1.98	2.82	4.81	0.94	1.34	1.71	2.41	3.06	3.67	4.23	5.22	5.65	6.03	6.76	7.12	6.57	4.81
112	1.00	1.71	2.16	3.07	5.15	1.03	1.46	1.87	2.62	3.32	3.96	4.55	5.56	5.98	6.33	6.91	6.99	5.40	
	1.05	1.73	2.20	3.12	5.26	1.04	1.48	1.90	2.67	3.38	4.04	4.65	5.69	6.12	6.49	7.10	7.23	5.72	
	1.20	1.79	2.27	3.24	5.48	1.07	1.53	1.96	2.76	3.51	4.20	4.83	5.93	6.40	6.80	7.49	7.69	6.33	
	1.50	1.83	2.33	3.32	5.65	1.10	1.57	2.01	2.84	3.60	4.32	4.98	6.13	6.62	7.04	7.79	8.06	6.82	
	3.00	1.86	2.36	3.37	5.75	1.11	1.59	2.04	2.88	3.66	4.39	5.06	6.24	6.74	7.18	7.97	8.26	7.10	
125	1.00	2.02	2.56	3.65	6.13	1.21	1.73	2.21	3.12	3.96	4.72	5.42	6.61	7.09	7.48	8.05	7.96	5.37	
	1.05	2.05	2.60	3.71	6.24	1.23	1.75	2.24	3.17	4.02	4.80	5.52	6.74	7.23	7.64	8.25	8.20	5.69	
	1.20	2.11	2.67	3.82	6.46	1.26	1.80	2.31	3.26	4.14	4.96	5.70	6.98	7.51	7.95	8.64	8.67	6.31	
	1.50	2.15	2.73	3.91	6.63	1.28	1.83	2.36	3.33	4.24	5.08	5.85	7.18	7.73	8.19	8.94	9.03	6.80	
	3.00	2.17	2.76	3.96	6.73	1.30	1.85	2.38	3.38	4.29	5.15	5.93	7.29	7.85	8.33	9.11	9.24	7.07	
140	1.00	2.38	3.02	4.31	7.21	1.42	2.03	2.61	3.69	4.67	5.58	6.40	7.75	8.28	8.69	9.15	8.71		
	1.05	2.41	3.06	4.37	7.32	1.44	2.06	2.64	3.73	4.74	5.66	6.49	7.88	8.42	8.85	9.35	8.95		
	1.20	2.47	3.13	4.48	7.54	1.47	2.10	2.70	3.83	4.86	5.81	6.68	8.13	8.70	9.15	9.74	9.41		
	1.50	2.51	3.19	4.57	7.71	1.50	2.14	2.75	3.90	4.96	5.93	6.82	8.32	8.92	9.40	10.04	9.78		
	3.00	2.53	3.23	4.62	7.81	1.51	2.16	2.78	3.94	5.01	6.00	6.91	8.43	9.04	9.53	10.21	9.99		
160	1.00	2.86	3.63	5.18	8.56	1.70	2.44	3.13	4.42	5.61	6.68	7.64	9.16	9.70	10.07	10.21	9.02		
	1.05	2.88	3.67	5.23	8.67	1.72	2.46	3.16	4.47	5.67	6.76	7.73	9.28	9.84	10.23	10.41	9.26		
	1.20	2.94	3.74	5.35	8.89	1.75	2.51	3.22	4.57	5.80	6.91	7.92	9.53	10.12	10.54	10.80	9.72		
	1.50	2.98	3.80	5.44	9.07	1.77	2.54	3.27	4.64	5.89	7.04	8.06	9.72	10.34	10.79	11.10	10.09		
	3.00	3.01	3.83	5.48	9.16	1.79	2.56	3.30	4.68	5.95	7.10	8.14	9.83	10.46	10.92	11.27	10.29		
180	1.00	3.32	4.22	6.02	9.80	1.98	2.83	3.64	5.15	6.51	7.74	8.80	10.41	10.91	11.19	10.75			
	1.05	3.35	4.26	6.08	9.91	2.00	2.86	3.67	5.20	6.58	7.82	8.90	10.54	11.05	11.34	10.95			
	1.20	3.41	4.33	6.19	10.13	2.03	2.90	3.74	5.29	6.70	7.97	9.08	10.78	11.33	11.65	11.34			
	1.50	3.45	4.39	6.28	10.31	2.05	2.94	3.78	5.36	6.80	8.09	9.23	10.98	11.55	11.90	11.64			
	3.00	3.48	4.43	6.33	10.40	2.06	2.96	3.81	5.40	6.85	8.16	9.31	11.09	11.67	12.03	11.81			
200	1.00	3.78	4.81	6.84	10.92	2.25	3.23	4.15	5.86	7.39	8.75	9.90	11.50	11.90	11.99	10.71			
	1.05	3.81	4.85	6.90	11.03	2.27	3.25	4.18	5.90	7.46	8.83	9.99	11.63	12.04	12.15	10.91			
	1.20	3.87	4.92	7.01	11.25	2.30	3.30	4.24	6.00	7.58	8.98	10.18	11.87	12.32	12.46	11.30			
	1.50	3.91	4.98	7.10	11.43	2.32	3.33	4.29	6.07	7.68	9.10	10.32	12.07	12.54	12.70	11.60			
	3.00	3.94	5.01	7.14	11.53	2.34	3.35	4.32	6.11	7.73	9.17	10.41	12.18	12.66	12.84	11.77			

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]															
		720	950	1450	2850	400	600	800	1200	1600	2000	2400	3200	3600	4000	5000	6000
80	1.00	0.76	0.89	1.08	1.16	0.52	0.68	0.81	1.00	1.12	1.19	1.21	1.08	0.94	0.75	0.01	
	1.05	0.82	0.97	1.21	1.40	0.55	0.73	0.87	1.10	1.26	1.36	1.41	1.35	1.25	1.09	0.43	
	1.20	0.93	1.12	1.44	1.87	0.62	0.82	1.00	1.30	1.52	1.69	1.80	1.88	1.83	1.74	1.25	0.36
	1.50	1.03	1.24	1.63	2.24	0.67	0.90	1.11	1.45	1.73	1.95	2.11	2.29	2.30	2.26	1.89	1.13
	3.00	1.08	1.31	1.74	2.44	0.70	0.95	1.16	1.54	1.84	2.09	2.29	2.52	2.56	2.54	2.25	1.57
100	1.00	1.54	1.89	2.53	3.65	0.98	1.34	1.67	2.23	2.70	3.09	3.40	3.76	3.82	3.78	3.24	1.98
	1.05	1.60	1.97	2.66	3.89	1.01	1.39	1.73	2.33	2.84	3.26	3.60	4.03	4.12	4.12	3.66	2.48
	1.20	1.72	2.12	2.89	4.35	1.08	1.49	1.86	2.53	3.10	3.58	3.99	4.56	4.71	4.77	4.47	3.46
	1.50	1.81	2.25	3.08	4.72	1.13	1.57	1.97	2.68	3.30	3.84	4.30	4.97	5.17	5.29	5.12	4.24
	3.00	1.86	2.32	3.18	4.92	1.16	1.61	2.02	2.77	3.42	3.99	4.47	5.20	5.44	5.58	5.48	4.67
112	1.00	2.00	2.48	3.38	5.05	1.25	1.73	2.17	2.95	3.62	4.19	4.65	5.27	5.40	5.41	4.84	3.29
	1.05	2.06	2.56	3.50	5.29	1.28	1.78	2.24	3.05	3.76	4.36	4.86	5.54	5.70	5.75	5.26	3.79
	1.20	2.18	2.71	3.74	5.76	1.35	1.88	2.37	3.25	4.02	4.68	5.25	6.06	6.29	6.40	6.07	4.77
	1.50	2.27	2.84	3.93	6.13	1.40	1.96	2.47	3.40	4.22	4.94	5.56	6.47	6.76	6.92	6.72	5.55
	3.00	2.32	2.91	4.03	6.33	1.43	2.00	2.53	3.49	4.34	5.09	5.73	6.70	7.02	7.21	7.08	5.98
125	1.00	2.49	3.11	4.28	6.50	1.54	2.15	2.71	3.72	4.60	5.35	5.97	6.80	6.98	7.01	6.25	4.18
	1.05	2.56	3.19	4.41	6.74	1.58	2.20	2.78	3.82	4.73	5.51	6.17	7.07	7.29	7.34	6.67	4.68
	1.20	2.67	3.34	4.64	7.21	1.64	2.30	2.91	4.02	4.99	5.84	6.56	7.59	7.88	8.00	7.49	5.66
	1.50	2.77	3.47	4.83	7.58	1.69	2.38	3.02	4.17	5.20	6.10	6.87	8.00	8.34	8.51	8.14	6.44
	3.00	2.82	3.54	4.93	7.78	1.72	2.42	3.07	4.26	5.31	6.24	7.04	8.23	8.60	8.80	8.50	6.87
140	1.00	3.06	3.82	5.30	8.08	1.87	2.63	3.33	4.59	5.70	6.64	7.42	8.43	8.63	8.61	7.44	4.45
	1.05	3.12	3.90	5.42	8.32	1.91	2.68	3.40	4.70	5.83	6.81	7.62	8.70	8.93	8.94	7.86	4.96
	1.20	3.24	4.06	5.66	8.79	1.97	2.78	3.53	4.89	6.09	7.13	8.01	9.22	9.52	9.60	8.68	5.94
	1.50	3.33	4.18	5.85	9.15	2.03	2.86	3.63	5.05	6.30	7.39	8.32	9.63	9.99	10.11	9.32	6.71
	3.00	3.38	4.25	5.95	9.36	2.05	2.90	3.69	5.13	6.41	7.54	8.49	9.86	10.25	10.40	9.69	7.15
160	1.00	3.80	4.76	6.62	10.00	2.31	3.26	4.14	5.73	7.12	8.29	9.24	10.36	10.49	10.30	8.20	3.44
	1.05	3.86	4.84	6.74	10.24	2.35	3.31	4.21	5.83	7.25	8.46	9.44	10.63	10.80	10.64	8.63	3.94
	1.20	3.97	5.00	6.98	10.71	2.41	3.41	4.34	6.03	7.51	8.78	9.83	11.16	11.39	11.29	9.44	4.92
	1.50	4.07	5.12	7.17	11.08	2.46	3.49	4.44	6.18	7.72	9.04	10.14	11.57	11.85	11.81	10.09	5.70
	3.00	4.12	5.19	7.27	11.28	2.49	3.53	4.50	6.27	7.83	9.19	10.31	11.80	12.11	12.10	10.45	6.13
180	1.00	4.52	5.68	7.90	11.71	2.75	3.88	4.94	6.84	8.48	9.85	10.92	12.00	11.95	11.44	7.92	
	1.05	4.58	5.76	8.02	11.95	2.78	3.93	5.00	6.94	8.62	10.02	11.12	12.27	12.25	11.78	8.35	
	1.20	4.70	5.92	8.26	12.42	2.84	4.03	5.13	7.14	8.88	10.35	11.51	12.79	12.84	12.43	9.16	
	1.50	4.79	6.04	8.44	12.78	2.90	4.11	5.24	7.29	9.09	10.60	11.82	13.21	13.30	12.95	9.81	
	3.00	4.85	6.11	8.55	12.99	2.93	4.15	5.29	7.38	9.20	10.75	11.99	13.44	13.56	13.24	10.17	
200	1.00	5.24	6.58	9.13	13.18	3.17	4.49	5.72	7.92	9.80	11.32	12.45	13.32	12.95	11.97	6.49	
	1.05	5.30	6.66	9.26	13.42	3.21	4.54	5.78	8.02	9.93	11.49	12.65	13.59	13.25	12.31	6.91	
	1.20	5.41	6.82	9.49	13.89	3.27	4.64	5.91	8.22	10.19	11.81	13.04	14.11	13.84	12.96	7.72	
	1.50	5.51	6.94	9.68	14.26	3.32	4.72	6.02	8.37	10.40	12.07	13.35	14.52	14.31	13.48	8.37	
	3.00	5.56	7.01	9.78	14.46	3.35	4.76	6.08	8.46	10.52	12.22	13.52	14.75	14.57	13.77	8.73	
224	1.00	6.08	7.64	10.55	14.61	3.68	5.21	6.64	9.18	11.30	12.95	14.07	14.42	13.50	11.73		
	1.05	6.14	7.72	10.68	14.85	3.71	5.26	6.70	9.28	11.43	13.12	14.27	14.69	13.80	12.06		
	1.20	6.26	7.87	10.91	15.31	3.78	5.36	6.83	9.47	11.69	13.45	14.67	15.22	14.39	12.72		
	1.50	6.35	7.99	11.10	15.68	3.83	5.44	6.94	9.63	11.90	13.70	14.98	15.63	14.85	13.23		
	3.00	6.40	8.06	11.21	15.89	3.86	5.48	7.00	9.72	12.02	13.85	15.15	15.86	15.11	13.52		
250	1.00	6.98	8.75	12.02	15.70	4.22	5.98	7.61	10.49	12.83	14.55	15.55	14.99	13.20	10.26		
	1.05	7.04	8.83	12.14	15.94	4.26	6.03	7.68	10.59	12.96	14.72	15.75	15.26	13.51	10.59		
	1.20	7.15	8.99	12.38	16.40	4.32	6.13	7.81	10.79	13.22	15.04	16.14	15.78	14.09	11.25		
	1.50	7.25	9.11	12.57	16.77	4.37	6.21	7.91	10.94	13.43	15.30	16.45	16.20	14.56	11.76		
	3.00	7.30	9.18	12.67	16.98	4.40	6.25	7.97	11.03	13.55	15.44	16.63	16.43	14.82	12.05		
280	1.00	7.99	10.00	13.61	16.30	4.84	6.86	8.71	11.94	14.46	16.15	16.86	14.74	11.60			
	1.05	8.05	10.08	13.73	16.54	4.87	6.91	8.78	12.04	14.59	16.31	17.06	15.01	11.90			
	1.20	8.17	10.23	13.96	17.01	4.94	7.00	8.91	12.24	14.86	16.64	17.45	15.54	12.49			
	1.50	8.26	10.36	14.15	17.38	4.99	7.08	9.01	12.39	15.06	16.90	17.76	15.95	12.95			
	3.00	8.31	10.43	14.26	17.58	5.02	7.13	9.07	12.48	15.18	17.04	17.94	16.18	13.21			
315	1.00	9.14	11.40	15.31	16.05	5.55	7.85	9.96	13.54	16.17	17.66	17.79	13.10				
	1.05	9.20	11.48	15.43	16.29	5.58	7.90	10.02	13.64	16.30	17.83	17.99	13.37				
	1.20	9.32	11.64	15.67	16.75	5.65	8.00	10.16	13.84	16.57	18.15	18.39	13.90				
	1.50	9.41	11.76	15.85	17.12	5.70	8.08	10.26	13.99	16.77	18.41	18.70	14.31				
	3.00	9.46	11.83	15.96	17.33	5.73	8.12	10.32	14.08	16.89	18.56	18.87	14.54				

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																
		720	950	1450	2850	200	400	600	800	1200	1600	2000	2400	3200	3600	4000	4500	5000
140	1.00	3.38	4.09	5.31	6.57	1.28	2.20	2.97	3.64	4.75	5.59	6.18	6.52	6.36	5.83	4.97	3.39	1.21
	1.05	3.52	4.27	5.58	7.11	1.32	2.27	3.08	3.79	4.98	5.90	6.56	6.97	6.96	6.51	5.72	4.24	2.15
	1.20	3.78	4.62	6.12	8.15	1.39	2.42	3.30	4.09	5.42	6.49	7.30	7.85	8.14	7.83	7.19	5.89	3.99
	1.50	3.99	4.90	6.54	8.98	1.45	2.54	3.48	4.32	5.77	6.95	7.88	8.55	9.07	8.88	8.35	7.20	5.44
	3.00	4.11	5.05	6.77	9.45	1.48	2.60	3.58	4.45	5.96	7.21	8.20	8.94	9.59	9.46	9.01	7.93	6.26
160	1.00	4.59	5.61	7.45	9.75	1.67	2.92	4.00	4.96	6.60	7.90	8.87	9.50	9.60	9.02	7.96	5.92	2.99
	1.05	4.72	5.80	7.73	10.29	1.71	2.99	4.11	5.11	6.83	8.20	9.25	9.95	10.21	9.70	8.72	6.77	3.94
	1.20	4.99	6.14	8.26	11.34	1.78	3.14	4.33	5.40	7.27	8.79	9.98	10.83	11.38	11.02	10.19	8.42	5.78
	1.50	5.20	6.42	8.68	12.17	1.84	3.25	4.50	5.64	7.62	9.26	10.57	11.53	12.31	12.07	11.35	9.73	7.23
	3.00	5.31	6.57	8.92	12.63	1.87	3.32	4.60	5.77	7.81	9.52	10.89	11.92	12.83	12.65	12.00	10.46	8.05
180	1.00	5.77	7.11	9.53	12.62	2.05	3.62	5.01	6.25	8.40	10.12	11.42	12.27	12.41	11.61	10.16	7.34	3.29
	1.05	5.90	7.29	9.80	13.16	2.09	3.70	5.12	6.40	8.63	10.43	11.80	12.72	13.02	12.29	10.92	8.19	4.24
	1.20	6.17	7.64	10.33	14.21	2.16	3.85	5.34	6.70	9.07	11.02	12.54	13.60	14.19	13.62	12.39	9.84	6.07
	1.50	6.38	7.91	10.75	15.03	2.22	3.96	5.51	6.93	9.41	11.48	13.12	14.30	15.12	14.66	13.55	11.15	7.53
	3.00	6.49	8.07	10.99	15.50	2.25	4.03	5.61	7.06	9.61	11.74	13.44	14.69	15.64	15.25	14.20	11.88	8.34
200	1.00	6.93	8.57	11.53	15.14	2.42	4.32	6.00	7.52	10.15	12.26	13.84	14.82	14.75	13.55	11.48	7.53	1.93
	1.05	7.07	8.75	11.81	15.68	2.46	4.40	6.11	7.67	10.38	12.57	14.22	15.27	15.35	14.23	12.24	8.38	2.88
	1.20	7.33	9.10	12.34	16.72	2.54	4.54	6.33	7.96	10.82	13.16	14.95	16.15	16.53	15.56	13.71	10.04	4.71
	1.50	7.54	9.37	12.76	17.55	2.59	4.66	6.51	8.20	11.17	13.62	15.53	16.85	17.46	16.60	14.87	11.34	6.17
	3.00	7.66	9.53	13.00	18.02	2.63	4.72	6.61	8.33	11.36	13.88	15.86	17.24	17.98	17.19	15.52	12.08	6.98
224	1.00	8.30	10.28	13.85	17.66	2.87	5.15	7.17	9.01	12.19	14.72	16.54	17.57	16.87	14.94	11.79	5.99	
	1.05	8.43	10.46	14.13	18.20	2.91	5.22	7.29	9.16	12.42	15.02	16.92	18.02	17.48	15.62	12.55	6.84	
	1.20	8.70	10.81	14.66	19.25	2.98	5.37	7.51	9.46	12.86	15.61	17.65	18.90	18.65	16.94	14.02	8.49	
	1.50	8.91	11.09	15.08	20.08	3.04	5.49	7.68	9.69	13.21	16.07	18.23	19.60	19.58	17.99	15.18	9.80	
	3.00	9.03	11.24	15.32	20.54	3.07	5.55	7.78	9.82	13.41	16.33	18.56	19.99	20.11	18.57	15.83	10.53	
250	1.00	9.75	12.09	16.24	19.74	3.35	6.03	8.42	10.60	14.33	17.23	19.20	20.13	18.26	15.17	10.41		
	1.05	9.89	12.27	16.52	20.28	3.39	6.11	8.54	10.75	14.56	17.53	19.58	20.59	18.87	15.85	11.17		
	1.20	10.15	12.62	17.05	21.33	3.46	6.25	8.76	11.04	15.00	18.12	20.32	21.47	20.05	17.17	12.64		
	1.50	10.36	12.90	17.47	22.16	3.52	6.37	8.93	11.27	15.35	18.59	20.90	22.16	20.97	18.22	13.80		
	3.00	10.48	13.05	17.71	22.62	3.55	6.43	9.03	11.40	15.54	18.85	21.23	22.56	21.50	18.80	14.45		
280	1.00	11.40	14.12	18.85	21.21	3.89	7.03	9.84	12.38	16.69	19.93	21.93	22.51	18.58	13.62			
	1.05	11.53	14.30	19.13	21.75	3.93	7.11	9.96	12.53	16.92	20.23	22.31	22.97	19.18	14.30			
	1.20	11.80	14.65	19.66	22.80	4.01	7.26	10.18	12.83	17.36	20.82	23.04	23.85	20.36	15.63			
	1.50	12.01	14.92	20.08	23.63	4.06	7.37	10.35	13.06	17.71	21.28	23.63	24.55	21.29	16.67			
	3.00	12.12	15.08	20.32	24.09	4.10	7.44	10.45	13.19	17.91	21.55	23.95	24.94	21.81	17.26			
315	1.00	13.26	16.40	21.67	21.54	4.52	8.19	11.46	14.40	19.31	22.79	24.59	24.44	17.01				
	1.05	13.40	16.58	21.94	22.08	4.56	8.26	11.57	14.55	19.54	23.09	24.97	24.89	17.62				
	1.20	13.66	16.93	22.48	23.13	4.63	8.41	11.79	14.85	19.98	23.68	25.71	25.77	18.80				
	1.50	13.87	17.20	22.90	23.95	4.69	8.53	11.97	15.08	20.33	24.15	26.29	26.47	19.72				
	3.00	13.99	17.36	23.13	24.42	4.72	8.59	12.07	15.21	20.53	24.41	26.61	26.86	20.25				
355	1.00	15.34	18.90	24.58	19.89	5.23	9.48	13.26	16.64	22.11	25.66	26.89	25.40					
	1.05	15.47	19.08	24.85	20.43	5.27	9.56	13.38	16.79	22.34	25.96	27.27	25.85					
	1.20	15.74	19.42	25.38	21.48	5.34	9.71	13.60	17.08	22.78	26.55	28.01	26.74					
	1.50	15.95	19.70	25.80	22.31	5.40	9.82	13.77	17.31	23.13	27.01	28.59	27.43					
	3.00	16.06	19.86	26.04	22.77	5.43	9.89	13.87	17.45	23.32	27.27	28.92	27.82					
400	1.00	17.59	21.56	27.42		6.02	10.91	15.24	19.05	25.00	28.32	28.44	24.74					
	1.05	17.73	21.74	27.69		6.06	10.99	15.35	19.20	25.22	28.62	28.82	25.19					
	1.20	17.99	22.08	28.22		6.13	11.13	15.57	19.50	25.66	29.21	29.56	26.07					
	1.50	18.20	22.36	28.64		6.19	11.25	15.75	19.73	26.01	29.68	30.14	26.77					
	3.00	18.32	22.51	28.88		6.22	11.32	15.85	19.86	26.21	29.94	30.46	27.16					
450	1.00	19.99	24.32	29.99		6.88	12.47	17.37	21.60	27.85	30.52	28.74						
	1.05	20.13	24.50	30.26		6.92	12.54	17.48	21.76	28.08	30.82	29.12						
	1.20	20.39	24.85	30.80		6.99	12.69	17.70	22.05	28.52	31.41	29.85						
	1.50	20.60	25.12	31.22		7.05	12.81	17.87	22.28	28.87	31.87	30.43						
	3.00	20.72	25.28	31.45		7.08	12.87	17.97	22.41	29.06	32.13	30.76						
500	1.00	22.28	26.86	31.90		7.73	13.99	19.42	24.02	30.31	31.84	27.38						
	1.05	22.42	27.04	32.17		7.77	14.07	19.53	24.17	30.54	32.14	27.76						
	1.20	22.68	27.39	32.70		7.84	14.21	19.75	24.46	30.98	32.73	28.49						
	1.50	22.89	27.67	33.13		7.90	14.33	19.93	24.69	31.33	33.19	29.07						
	3.00	23.01	27.82	33.36		7.93	14.39	20.03	24.82	31.52	33.45	29.40						

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	2850	400	600	800	1200	1600	2000	2400	3200	3600	4000	5000	6000	8000	9500
40	1.00	0.21	0.26	0.36	0.58	0.13	0.18	0.23	0.31	0.39	0.45	0.51	0.62	0.67	0.71	0.79	0.85	0.89	0.85
	1.05	0.22	0.27	0.37	0.60	0.14	0.19	0.24	0.32	0.40	0.47	0.53	0.65	0.70	0.74	0.84	0.91	0.96	0.93
	1.20	0.23	0.29	0.40	0.65	0.14	0.20	0.25	0.34	0.43	0.50	0.58	0.70	0.76	0.81	0.92	1.01	1.10	1.09
	1.50	0.24	0.30	0.42	0.69	0.15	0.21	0.26	0.36	0.45	0.53	0.61	0.75	0.81	0.86	0.99	1.09	1.21	1.22
	3.00	0.24	0.31	0.43	0.71	0.15	0.21	0.27	0.37	0.46	0.55	0.63	0.77	0.83	0.90	1.03	1.13	1.27	1.29
50	1.00	0.32	0.40	0.56	0.94	0.20	0.28	0.35	0.49	0.61	0.72	0.83	1.02	1.11	1.19	1.36	1.48	1.60	1.56
	1.05	0.33	0.41	0.58	0.97	0.20	0.28	0.36	0.50	0.62	0.74	0.85	1.05	1.14	1.22	1.40	1.54	1.67	1.64
	1.20	0.34	0.43	0.60	1.02	0.21	0.29	0.37	0.52	0.65	0.78	0.89	1.10	1.20	1.29	1.48	1.64	1.81	1.80
	1.50	0.35	0.44	0.62	1.05	0.21	0.30	0.38	0.53	0.67	0.80	0.93	1.15	1.25	1.34	1.55	1.72	1.92	1.93
	3.00	0.36	0.45	0.63	1.08	0.22	0.30	0.39	0.54	0.68	0.82	0.94	1.17	1.28	1.37	1.59	1.76	1.98	2.00
56	1.00	0.39	0.49	0.69	1.15	0.24	0.33	0.42	0.59	0.74	0.88	1.02	1.26	1.36	1.46	1.67	1.83	1.96	1.89
	1.05	0.39	0.49	0.70	1.18	0.24	0.34	0.43	0.60	0.76	0.90	1.04	1.28	1.39	1.50	1.72	1.88	2.03	1.97
	1.20	0.41	0.51	0.72	1.23	0.25	0.35	0.44	0.62	0.78	0.94	1.08	1.34	1.46	1.56	1.80	1.99	2.17	2.13
	1.50	0.41	0.52	0.74	1.27	0.25	0.36	0.45	0.64	0.80	0.96	1.11	1.38	1.50	1.62	1.87	2.07	2.28	2.26
	3.00	0.42	0.53	0.75	1.29	0.25	0.36	0.46	0.64	0.82	0.98	1.13	1.40	1.53	1.65	1.91	2.11	2.34	2.33
63	1.00	0.46	0.58	0.82	1.40	0.28	0.40	0.50	0.71	0.89	1.07	1.23	1.52	1.65	1.77	2.02	2.20	2.32	2.17
	1.05	0.47	0.59	0.84	1.42	0.28	0.40	0.51	0.72	0.91	1.08	1.25	1.55	1.68	1.81	2.07	2.26	2.39	2.25
	1.20	0.48	0.61	0.86	1.47	0.29	0.41	0.52	0.74	0.93	1.12	1.29	1.60	1.74	1.87	2.15	2.36	2.53	2.41
	1.50	0.49	0.62	0.88	1.51	0.30	0.42	0.54	0.75	0.95	1.14	1.32	1.65	1.79	1.93	2.22	2.44	2.64	2.54
	3.00	0.50	0.63	0.89	1.53	0.30	0.42	0.54	0.76	0.97	1.16	1.34	1.67	1.82	1.96	2.26	2.49	2.70	2.61
71	1.00	0.55	0.69	0.98	1.67	0.33	0.47	0.60	0.84	1.06	1.27	1.46	1.81	1.97	2.11	2.40	2.59	2.64	2.34
	1.05	0.55	0.70	0.99	1.69	0.33	0.47	0.60	0.85	1.08	1.29	1.48	1.84	2.00	2.14	2.44	2.64	2.71	2.42
	1.20	0.56	0.71	1.02	1.74	0.34	0.48	0.62	0.87	1.10	1.32	1.53	1.89	2.06	2.21	2.53	2.74	2.85	2.58
	1.50	0.57	0.73	1.04	1.78	0.35	0.49	0.63	0.89	1.12	1.35	1.56	1.94	2.11	2.26	2.59	2.82	2.95	2.71
	3.00	0.58	0.73	1.05	1.80	0.35	0.50	0.63	0.89	1.14	1.36	1.58	1.96	2.13	2.29	2.63	2.87	3.01	2.78
80	1.00	0.64	0.81	1.15	1.96	0.39	0.55	0.70	0.98	1.25	1.49	1.72	2.13	2.30	2.46	2.78	2.96	2.87	2.32
	1.05	0.65	0.82	1.16	1.98	0.39	0.55	0.71	1.00	1.26	1.51	1.74	2.16	2.34	2.50	2.82	3.02	2.94	2.40
	1.20	0.66	0.83	1.19	2.03	0.40	0.56	0.72	1.02	1.29	1.55	1.78	2.21	2.40	2.57	2.91	3.12	3.07	2.56
	1.50	0.67	0.85	1.21	2.07	0.40	0.57	0.73	1.03	1.31	1.57	1.82	2.25	2.45	2.62	2.98	3.20	3.18	2.69
	3.00	0.67	0.85	1.22	2.09	0.40	0.58	0.74	1.04	1.32	1.59	1.83	2.28	2.47	2.65	3.01	3.24	3.24	2.76
90	1.00	0.74	0.94	1.34	2.27	0.45	0.64	0.81	1.14	1.45	1.74	2.00	2.46	2.66	2.83	3.16	3.30	2.94	2.01
	1.05	0.75	0.95	1.35	2.30	0.45	0.64	0.82	1.16	1.47	1.75	2.02	2.49	2.69	2.87	3.20	3.35	3.01	2.09
	1.20	0.76	0.97	1.38	2.34	0.46	0.65	0.83	1.18	1.49	1.79	2.06	2.54	2.75	2.94	3.29	3.45	3.15	2.25
	1.50	0.77	0.98	1.40	2.38	0.46	0.66	0.84	1.19	1.51	1.81	2.09	2.59	2.80	2.99	3.35	3.53	3.26	2.38
	3.00	0.78	0.99	1.41	2.40	0.47	0.66	0.85	1.20	1.53	1.83	2.11	2.61	2.83	3.02	3.39	3.58	3.32	2.45
100	1.00	0.84	1.07	1.52	2.57	0.51	0.72	0.92	1.30	1.65	1.97	2.27	2.78	2.99	3.17	3.48	3.54	2.82	1.37
	1.05	0.85	1.08	1.54	2.59	0.51	0.73	0.93	1.31	1.66	1.99	2.29	2.81	3.02	3.21	3.52	3.60	2.89	1.45
	1.20	0.86	1.09	1.56	2.64	0.52	0.74	0.94	1.33	1.69	2.02	2.33	2.86	3.08	3.28	3.61	3.70	3.02	1.61
	1.50	0.87	1.11	1.58	2.68	0.52	0.75	0.96	1.35	1.71	2.05	2.36	2.90	3.13	3.33	3.67	3.78	3.13	1.74
	3.00	0.88	1.11	1.59	2.70	0.53	0.75	0.96	1.36	1.73	2.07	2.38	2.93	3.16	3.36	3.71	3.83	3.19	1.81
112	1.00	0.96	1.22	1.74	2.91	0.58	0.82	1.06	1.49	1.88	2.25	2.58	3.13	3.36	3.54	3.78	3.71	2.36	
	1.05	0.97	1.23	1.75	2.93	0.58	0.83	1.06	1.50	1.90	2.26	2.60	3.16	3.39	3.57	3.83	3.76	2.43	
	1.20	0.98	1.25	1.78	2.98	0.59	0.84	1.08	1.52	1.92	2.30	2.64	3.22	3.45	3.64	3.91	3.86	2.57	
	1.50	0.99	1.26	1.80	3.02	0.59	0.85	1.09	1.53	1.95	2.33	2.67	3.26	3.50	3.69	3.98	3.94	2.68	
	3.00	1.00	1.27	1.81	3.04	0.60	0.85	1.09	1.54	1.96	2.34	2.69	3.28	3.52	3.72	4.02	3.99	2.74	
125	1.00	1.09	1.38	1.97	3.25	0.66	0.93	1.20	1.68	2.13	2.53	2.90	3.49	3.71	3.87	4.01	3.71	1.47	
	1.05	1.10	1.39	1.98	3.28	0.66	0.94	1.20	1.69	2.14	2.55	2.92	3.51	3.74	3.91	4.05	3.76	1.54	
	1.20	1.11	1.41	2.00	3.33	0.67	0.95	1.22	1.71	2.17	2.59	2.96	3.57	3.80	3.97	4.14	3.86	1.68	
	1.50	1.12	1.42	2.02	3.36	0.67	0.96	1.23	1.73	2.19	2.61	2.99	3.61	3.85	4.03	4.21	3.94	1.78	
	3.00	1.13	1.43	2.03	3.39	0.67	0.96	1.23	1.74	2.20	2.63	3.01	3.64	3.87	4.06	4.24	3.99	1.84	
140	1.00	1.24	1.57	2.22	3.62	0.74	1.06	1.35	1.91	2.40	2.85	3.24	3.85	4.05	4.18	4.12	3.45		
	1.05	1.24	1.58	2.24	3.64	0.75	1.06	1.36	1.92	2.42	2.87	3.27	3.88	4.08	4.21	4.17	3.51		
	1.20	1.26	1.59	2.26	3.69	0.75	1.07	1.38	1.94	2.45	2.90	3.31	3.93	4.14	4.28	4.25	3.61		
	1.50	1.27	1.60	2.28	3.73	0.76	1.08	1.39	1.95	2.47	2.93	3.34	3.97	4.19	4.33	4.32	3.69		
	3.00	1.27	1.61	2.29	3.75	0.76	1.09	1.39	1.96	2.48	2.94	3.36	4.00	4.22	4.36	4.36	3.74		
160	1.00	1.43	1.81	2.55	4.04	0.86	1.22	1.56	2.19	2.76	3.25	3.67	4.25	4.40	4.44	3.99	2.65		
	1.05	1.43	1.82	2.57	4.07	0.86	1.23	1.57	2.20	2.77	3.27	3.69	4.28	4.43	4.47	4.04	2.70		
	1.20	1.45	1.83	2.59	4.12	0.87	1.24	1.58	2.22	2.80	3.30	3.73	4.34	4.49	4.54	4.12	2.81		
	1.50	1.46	1.84	2.61	4.15	0.87	1.24	1.59	2.24	2.82	3.33	3.76	4.38	4.54	4.60	4.19	2.89		
	3.00	1.46	1.85	2.62	4.18	0.88	1.25	1.60	2.25	2.83	3.34	3.78	4.40	4.57	4.63	4.23	2.93		

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	2850	400	600	800	1200	1600	2000	2400	3200	3600	4000	5000	6000	8000	9500
50	1.00	0.30	0.35	0.43	0.49	0.21	0.27	0.32	0.39	0.44	0.47	0.49	0.47	0.45	0.41	0.26			
	1.05	0.33	0.38	0.48	0.59	0.22	0.29	0.35	0.44	0.50	0.55	0.58	0.59	0.58	0.56	0.45	0.27		
	1.20	0.38	0.45	0.58	0.80	0.25	0.33	0.41	0.52	0.62	0.69	0.75	0.83	0.84	0.85	0.81	0.70	0.26	
	1.50	0.42	0.51	0.67	0.96	0.27	0.37	0.45	0.59	0.71	0.81	0.89	1.01	1.05	1.08	1.10	1.05	0.72	0.25
	3.00	0.44	0.54	0.71	1.05	0.29	0.39	0.48	0.63	0.76	0.87	0.97	1.11	1.17	1.21	1.26	1.24	0.97	0.56
63	1.00	0.65	0.81	1.09	1.69	0.41	0.57	0.71	0.96	1.17	1.36	1.53	1.80	1.91	2.00	2.14	2.16	1.81	1.16
	1.05	0.68	0.84	1.15	1.80	0.43	0.59	0.74	1.00	1.23	1.43	1.62	1.92	2.04	2.15	2.33	2.39	2.11	1.51
	1.20	0.73	0.91	1.25	2.00	0.46	0.63	0.80	1.09	1.35	1.58	1.79	2.15	2.30	2.44	2.69	2.82	2.69	2.20
	1.50	0.77	0.96	1.34	2.17	0.48	0.67	0.84	1.16	1.44	1.69	1.93	2.34	2.51	2.67	2.98	3.17	3.15	2.75
	3.00	0.80	0.99	1.38	2.26	0.49	0.69	0.87	1.19	1.49	1.76	2.01	2.44	2.63	2.80	3.14	3.36	3.41	3.05
71	1.00	0.87	1.08	1.50	2.41	0.54	0.75	0.94	1.30	1.61	1.89	2.15	2.59	2.78	2.94	3.23	3.37	3.11	2.38
	1.05	0.90	1.12	1.55	2.52	0.56	0.77	0.97	1.34	1.67	1.97	2.24	2.71	2.91	3.09	3.42	3.60	3.41	2.73
	1.20	0.95	1.19	1.66	2.72	0.58	0.82	1.03	1.43	1.79	2.11	2.41	2.94	3.17	3.38	3.78	4.03	3.99	3.42
	1.50	0.99	1.24	1.74	2.89	0.61	0.85	1.08	1.50	1.88	2.23	2.55	3.13	3.38	3.61	4.07	4.38	4.45	3.97
	3.00	1.01	1.27	1.79	2.98	0.62	0.87	1.10	1.54	1.93	2.29	2.63	3.23	3.49	3.74	4.23	4.57	4.71	4.27
80	1.00	1.11	1.39	1.94	3.20	0.68	0.95	1.21	1.67	2.10	2.48	2.84	3.46	3.72	3.96	4.40	4.64	4.37	3.42
	1.05	1.14	1.42	2.00	3.31	0.70	0.98	1.24	1.72	2.16	2.56	2.93	3.58	3.86	4.11	4.59	4.86	4.67	3.78
	1.20	1.19	1.49	2.10	3.52	0.72	1.02	1.30	1.81	2.27	2.70	3.10	3.81	4.12	4.40	4.95	5.30	5.25	4.47
	1.50	1.23	1.55	2.19	3.68	0.75	1.05	1.34	1.87	2.36	2.82	3.24	3.99	4.33	4.63	5.24	5.64	5.71	5.01
	3.00	1.25	1.58	2.23	3.77	0.76	1.07	1.37	1.91	2.42	2.88	3.32	4.10	4.44	4.76	5.40	5.83	5.97	5.32
90	1.00	1.37	1.73	2.43	4.06	0.83	1.18	1.50	2.09	2.63	3.13	3.59	4.39	4.74	5.04	5.62	5.91	5.49	4.14
	1.05	1.40	1.76	2.49	4.17	0.85	1.20	1.53	2.13	2.69	3.20	3.68	4.51	4.87	5.19	5.81	6.14	5.79	4.50
	1.20	1.45	1.83	2.59	4.37	0.88	1.24	1.58	2.22	2.81	3.35	3.85	4.74	5.13	5.48	6.17	6.57	6.37	5.19
	1.50	1.49	1.88	2.67	4.54	0.90	1.28	1.63	2.29	2.90	3.46	3.99	4.93	5.34	5.71	6.46	6.92	6.83	5.73
	3.00	1.51	1.91	2.72	4.63	0.91	1.30	1.66	2.33	2.95	3.53	4.07	5.03	5.46	5.84	6.62	7.11	7.09	6.04
100	1.00	1.63	2.06	2.91	4.89	0.99	1.40	1.78	2.50	3.15	3.76	4.32	5.30	5.71	6.08	6.75	7.05	6.30	4.34
	1.05	1.66	2.09	2.97	5.00	1.00	1.42	1.81	2.54	3.21	3.84	4.41	5.42	5.85	6.23	6.94	7.27	6.60	4.70
	1.20	1.71	2.16	3.07	5.21	1.03	1.46	1.87	2.63	3.33	3.98	4.58	5.65	6.11	6.52	7.30	7.71	7.18	5.39
	1.50	1.75	2.22	3.16	5.37	1.05	1.50	1.92	2.70	3.42	4.10	4.72	5.83	6.32	6.75	7.59	8.05	7.64	5.93
	3.00	1.77	2.25	3.20	5.46	1.07	1.52	1.94	2.74	3.47	4.16	4.80	5.94	6.43	6.88	7.75	8.25	7.89	6.24
112	1.00	1.94	2.45	3.48	5.86	1.17	1.66	2.12	2.98	3.77	4.50	5.18	6.34	6.83	7.25	7.98	8.21	6.81	
	1.05	1.97	2.49	3.54	5.97	1.18	1.68	2.15	3.03	3.83	4.58	5.27	6.46	6.96	7.40	8.17	8.43	7.11	
	1.20	2.02	2.56	3.64	6.18	1.21	1.72	2.21	3.11	3.95	4.72	5.44	6.69	7.23	7.69	8.53	8.87	7.69	
	1.50	2.06	2.61	3.73	6.34	1.24	1.76	2.25	3.18	4.04	4.84	5.58	6.88	7.43	7.92	8.82	9.21	8.15	
	3.00	2.08	2.64	3.77	6.43	1.25	1.78	2.28	3.22	4.09	4.90	5.66	6.98	7.55	8.05	8.98	9.40	8.40	
125	1.00	2.27	2.87	4.09	6.87	1.36	1.94	2.48	3.50	4.43	5.29	6.08	7.42	7.97	8.43	9.15	9.18	6.74	
	1.05	2.30	2.91	4.14	6.98	1.38	1.96	2.51	3.54	4.49	5.37	6.17	7.54	8.10	8.58	9.34	9.41	7.04	
	1.20	2.35	2.98	4.25	7.18	1.41	2.01	2.57	3.63	4.61	5.51	6.34	7.77	8.36	8.87	9.70	9.84	7.62	
	1.50	2.39	3.03	4.33	7.35	1.43	2.04	2.62	3.70	4.70	5.62	6.48	7.96	8.57	9.10	9.99	10.19	8.08	
	3.00	2.41	3.06	4.38	7.44	1.44	2.06	2.64	3.74	4.75	5.69	6.56	8.06	8.69	9.23	10.15	10.38	8.34	
140	1.00	2.64	3.35	4.78	7.98	1.59	2.26	2.90	4.08	5.17	6.17	7.08	8.59	9.19	9.66	10.27	9.92		
	1.05	2.67	3.39	4.83	8.09	1.60	2.28	2.93	4.13	5.23	6.25	7.17	8.71	9.32	9.81	10.45	10.15		
	1.20	2.72	3.46	4.94	8.29	1.63	2.32	2.98	4.22	5.35	6.39	7.34	8.94	9.58	10.10	10.82	10.58		
	1.50	2.77	3.51	5.02	8.46	1.65	2.36	3.03	4.28	5.44	6.51	7.48	9.13	9.79	10.33	11.10	10.93		
	3.00	2.79	3.54	5.07	8.55	1.67	2.38	3.06	4.32	5.49	6.57	7.56	9.23	9.90	10.46	11.26	11.12		
160	1.00	3.14	3.98	5.67	9.37	1.88	2.68	3.44	4.85	6.14	7.31	8.35	10.03	10.63	11.07	11.32	10.20		
	1.05	3.17	4.02	5.72	9.47	1.89	2.70	3.47	4.89	6.20	7.38	8.44	10.15	10.77	11.22	11.51	10.42		
	1.20	3.22	4.09	5.83	9.68	1.92	2.75	3.53	4.98	6.31	7.53	8.62	10.38	11.03	11.51	11.87	10.86		
	1.50	3.26	4.14	5.91	9.84	1.94	2.78	3.57	5.05	6.41	7.64	8.75	10.56	11.24	11.74	12.16	11.20		
	3.00	3.28	4.17	5.96	9.93	1.96	2.80	3.60	5.09	6.46	7.71	8.83	10.67	11.35	11.87	12.32	11.40		
180	1.00	3.62	4.60	6.54	10.63	2.17	3.09	3.97	5.60	7.07	8.39	9.55	11.30	11.87	12.19	11.84			
	1.05	3.65	4.63	6.59	10.74	2.18	3.12	4.00	5.64	7.13	8.47	9.64	11.42	12.00	12.34	12.03			
	1.20	3.70	4.70	6.70	10.95	2.21	3.16	4.06	5.73	7.25	8.61	9.81	11.66	12.26	12.63	12.39			
	1.50	3.75	4.76	6.78	11.11	2.23	3.19	4.10	5.80	7.34	8.73	9.95	11.84	12.47	12.86	12.68			
	3.00	3.77	4.79	6.83	11.20	2.25	3.21	4.13	5.84	7.39	8.79	10.03	11.94	12.59	12.99	12.84			
200	1.00	4.10	5.21	7.38	11.78	2.45	3.50	4.49	6.33	7.98	9.43	10.67	12.41	12.86	13.00	11.77			
	1.05	4.13	5.24	7.44	11.88	2.47	3.53	4.52	6.38	8.04	9.51	10.76	12.53	13.00	13.15	11.96			
	1.20	4.18	5.31	7.54	12.09	2.50	3.57	4.58	6.46	8.15	9.65	10.93	12.76	13.26	13.44	12.32			
	1.50	4.22	5.36	7.63	12.26	2.52	3.60	4.63	6.53	8.25	9.77	11.07	12.95	13.47	13.67	12.60			
	3.00	4.25	5.39	7.67	12.35	2.53	3.62	4.65	6.57	8.30	9.83	11.15	13.05	13.58	13.80	12.77			

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																
		720	950	1450	2850	400	600	800	1200	1600	2000	2400	3200	3600	4000	5000	6000	8000
80	1.00	1.23	1.51	2.02	2.97	0.79	1.07	1.33	1.78	2.16	2.48	2.74	3.11	3.21	3.26	3.12	2.58	
	1.05	1.29	1.58	2.13	3.18	0.82	1.12	1.39	1.87	2.28	2.62	2.92	3.34	3.48	3.55	3.49	3.02	0.67
	1.20	1.39	1.71	2.34	3.59	0.87	1.20	1.51	2.04	2.50	2.91	3.26	3.80	3.99	4.12	4.20	3.87	1.81
	1.50	1.47	1.82	2.50	3.91	0.92	1.27	1.60	2.18	2.68	3.13	3.53	4.16	4.40	4.58	4.77	4.55	2.72
	3.00	1.51	1.88	2.59	4.09	0.94	1.31	1.65	2.25	2.79	3.26	3.68	4.36	4.62	4.83	5.08	4.93	3.22
100	1.00	2.05	2.55	3.53	5.55	1.26	1.76	2.23	3.06	3.79	4.45	5.01	5.90	6.20	6.42	6.49	5.84	1.93
	1.05	2.10	2.62	3.64	5.76	1.29	1.81	2.28	3.15	3.91	4.59	5.19	6.13	6.47	6.71	6.86	6.29	2.52
	1.20	2.20	2.76	3.84	6.17	1.35	1.89	2.40	3.32	4.14	4.88	5.53	6.59	6.98	7.28	7.58	7.14	3.66
	1.50	2.28	2.86	4.01	6.49	1.40	1.96	2.49	3.45	4.32	5.10	5.80	6.95	7.39	7.73	8.14	7.82	4.57
	3.00	2.33	2.92	4.10	6.67	1.42	2.00	2.54	3.53	4.42	5.23	5.96	7.15	7.62	7.99	8.46	8.20	5.08
112	1.00	2.52	3.16	4.41	7.02	1.55	2.17	2.75	3.81	4.75	5.59	6.32	7.46	7.85	8.12	8.18	7.24	1.77
	1.05	2.58	3.23	4.52	7.23	1.58	2.22	2.81	3.90	4.87	5.74	6.50	7.70	8.12	8.42	8.55	7.68	2.36
	1.20	2.68	3.37	4.72	7.63	1.63	2.30	2.93	4.07	5.10	6.02	6.84	8.15	8.63	8.99	9.26	8.54	3.51
	1.50	2.76	3.48	4.89	7.96	1.68	2.37	3.02	4.20	5.28	6.25	7.11	8.51	9.04	9.44	9.83	9.22	4.41
	3.00	2.81	3.54	4.98	8.14	1.70	2.41	3.07	4.28	5.38	6.37	7.26	8.72	9.27	9.69	10.14	9.60	4.92
125	1.00	3.04	3.82	5.35	8.53	1.85	2.61	3.31	4.61	5.76	6.79	7.69	9.06	9.51	9.79	9.68	8.22	0.38
	1.05	3.09	3.89	5.45	8.74	1.88	2.65	3.37	4.70	5.88	6.94	7.86	9.29	9.77	10.09	10.05	8.66	0.97
	1.20	3.19	4.02	5.66	9.15	1.94	2.74	3.49	4.87	6.11	7.22	8.21	9.75	10.29	10.66	10.76	9.52	2.11
	1.50	3.27	4.13	5.82	9.47	1.98	2.81	3.58	5.00	6.29	7.45	8.48	10.11	10.70	11.11	11.33	10.20	3.01
	3.00	3.32	4.19	5.92	9.65	2.01	2.84	3.63	5.08	6.39	7.58	8.63	10.31	10.92	11.36	11.64	10.58	3.52
140	1.00	3.62	4.56	6.40	10.17	2.20	3.11	3.96	5.52	6.91	8.14	9.20	10.76	11.23	11.48	10.96	8.59	
	1.05	3.67	4.63	6.51	10.38	2.23	3.15	4.01	5.60	7.03	8.28	9.37	11.00	11.50	11.77	11.33	9.03	
	1.20	3.78	4.77	6.72	10.79	2.28	3.24	4.13	5.77	7.25	8.57	9.72	11.45	12.01	12.34	12.04	9.89	
	1.50	3.86	4.87	6.88	11.11	2.33	3.30	4.22	5.91	7.43	8.80	9.99	11.82	12.42	12.79	12.61	10.56	
	3.00	3.90	4.93	6.97	11.29	2.35	3.34	4.27	5.99	7.54	8.92	10.14	12.02	12.65	13.05	12.92	10.94	
160	1.00	4.39	5.53	7.78	12.19	2.65	3.76	4.80	6.70	8.38	9.85	11.09	12.79	13.20	13.27	11.83	7.67	
	1.05	4.44	5.60	7.88	12.40	2.68	3.80	4.86	6.79	8.50	10.00	11.27	13.03	13.46	13.57	12.20	8.11	
	1.20	4.54	5.74	8.09	12.80	2.74	3.89	4.97	6.96	8.73	10.29	11.61	13.48	13.98	14.14	12.91	8.97	
	1.50	4.63	5.85	8.25	13.12	2.78	3.96	5.06	7.09	8.91	10.51	11.88	13.85	14.38	14.59	13.48	9.65	
	3.00	4.67	5.91	8.35	13.30	2.81	3.99	5.11	7.17	9.01	10.64	12.04	14.05	14.61	14.85	13.79	10.03	
180	1.00	5.14	6.49	9.10	13.97	3.10	4.40	5.62	7.85	9.81	11.48	12.85	14.52	14.74	14.51	11.64		
	1.05	5.20	6.56	9.21	14.19	3.13	4.45	5.68	7.94	9.93	11.63	13.03	14.75	15.01	14.81	12.01		
	1.20	5.30	6.69	9.42	14.59	3.19	4.53	5.80	8.11	10.15	11.92	13.37	15.21	15.52	15.38	12.72		
	1.50	5.38	6.80	9.58	14.91	3.23	4.60	5.89	8.24	10.33	12.14	13.64	15.57	15.93	15.83	13.29		
	3.00	5.43	6.86	9.67	15.09	3.26	4.64	5.94	8.32	10.44	12.27	13.79	15.77	16.16	16.08	13.60		
200	1.00	5.89	7.42	10.39	15.52	3.54	5.04	6.43	8.97	11.17	13.01	14.45	15.91	15.83	15.13	10.27		
	1.05	5.94	7.49	10.50	15.73	3.57	5.08	6.49	9.06	11.29	13.16	14.63	16.15	16.10	15.42	10.64		
	1.20	6.04	7.63	10.70	16.14	3.63	5.17	6.61	9.23	11.52	13.45	14.97	16.61	16.61	15.99	11.36		
	1.50	6.12	7.74	10.87	16.46	3.68	5.24	6.70	9.37	11.70	13.67	15.24	16.97	17.02	16.45	11.92		
	3.00	6.17	7.80	10.96	16.64	3.70	5.27	6.75	9.44	11.80	13.80	15.39	17.17	17.24	16.70	12.24		
224	1.00	6.76	8.52	11.87	17.04	4.07	5.79	7.39	10.28	12.74	14.72	16.16	17.11	16.47	14.97			
	1.05	6.82	8.59	11.98	17.25	4.10	5.83	7.45	10.37	12.86	14.87	16.34	17.35	16.73	15.26			
	1.20	6.92	8.73	12.18	17.65	4.16	5.92	7.56	10.54	13.08	15.15	16.68	17.80	17.25	15.83			
	1.50	7.00	8.84	12.35	17.98	4.20	5.99	7.65	10.67	13.27	15.38	16.95	18.17	17.65	16.29			
	3.00	7.04	8.90	12.44	18.16	4.23	6.02	7.70	10.75	13.37	15.51	17.10	18.37	17.88	16.54			
250	1.00	7.69	9.68	13.40	18.21	4.63	6.59	8.40	11.65	14.33	16.39	17.72	17.77	16.26	13.57			
	1.05	7.75	9.75	13.50	18.42	4.66	6.63	8.46	11.73	14.45	16.54	17.90	18.00	16.52	13.87			
	1.20	7.85	9.89	13.71	18.83	4.72	6.72	8.58	11.91	14.68	16.82	18.24	18.46	17.04	14.44			
	1.50	7.93	9.99	13.87	19.15	4.77	6.79	8.67	12.04	14.86	17.05	18.51	18.82	17.44	14.89			
	3.00	7.98	10.05	13.96	19.33	4.79	6.82	8.72	12.12	14.96	17.18	18.66	19.02	17.67	15.14			
280	1.00	8.74	10.98	15.05	18.91	5.28	7.49	9.55	13.16	16.04	18.07	19.12	17.61	14.73				
	1.05	8.80	11.05	15.16	19.12	5.30	7.54	9.61	13.24	16.16	18.22	19.29	17.84	14.99				
	1.20	8.90	11.18	15.36	19.53	5.36	7.62	9.72	13.42	16.39	18.51	19.64	18.30	15.51				
	1.50	8.98	11.29	15.53	19.85	5.41	7.69	9.81	13.55	16.57	18.73	19.91	18.66	15.92				
	3.00	9.03	11.35	15.62	20.03	5.43	7.73	9.86	13.63	16.67	18.86	20.06	18.86	16.14				
315	1.00	9.94	12.44	16.83	18.75	6.01	8.53	10.84	14.82	17.83	19.68	20.15	16.05					
	1.05	9.99	12.51	16.94	18.96	6.04	8.57	10.90	14.91	17.95	19.82	20.32	16.28					
	1.20	10.10	12.64	17.14	19.37	6.10	8.66	11.01	15.08	18.18	20.11	20.67	16.74					
	1.50	10.18	12.75	17.31	19.69	6.14	8.73	11.11	15.22	18.36	20.34	20.94	17.10					
	3.00	10.22	12.81	17.40	19.87	6.17	8.77	11.16	15.29	18.46	20.46	21.09	17.31					

Power rating per belt P_N [kW] at 180° arc of contact

Datum-diameter of smaller pulley [mm]	Speed ratio	Revolutions of smaller pulley n_1 [rev/min]																	
		720	950	1450	2850	200	400	600	800	1200	1600	2000	2400	3200	3600	4000	4500	5000	6000
140	1.00	4.56	5.64	7.67	11.19	1.61	2.85	3.95	4.95	6.71	8.20	9.44	10.41	11.53	11.63	11.40	10.60	9.18	4.28
	1.05	4.67	5.79	7.90	11.64	1.64	2.91	4.04	5.07	6.90	8.45	9.75	10.79	12.04	12.20	12.03	11.31	9.97	5.23
	1.20	4.89	6.08	8.35	12.51	1.70	3.04	4.23	5.32	7.27	8.94	10.37	11.53	13.02	13.30	13.26	12.68	11.50	7.06
	1.50	5.07	6.31	8.70	13.20	1.75	3.13	4.37	5.51	7.56	9.33	10.85	12.11	13.79	14.18	14.22	13.77	12.71	8.52
	3.00	5.17	6.44	8.89	13.59	1.78	3.19	4.45	5.62	7.72	9.55	11.12	12.44	14.23	14.66	14.77	14.38	13.39	9.33
160	1.00	5.78	7.19	9.86	14.44	2.00	3.58	4.99	6.29	8.59	10.56	12.18	13.46	14.85	14.90	14.47	13.20	11.03	3.68
	1.05	5.90	7.34	10.09	14.90	2.03	3.64	5.09	6.42	8.78	10.81	12.50	13.84	15.36	15.47	15.10	13.91	11.82	4.63
	1.20	6.12	7.64	10.53	15.77	2.09	3.77	5.27	6.66	9.15	11.30	13.11	14.57	16.34	16.57	16.33	15.28	13.35	6.47
	1.50	6.29	7.87	10.88	16.46	2.14	3.86	5.42	6.85	9.44	11.68	13.59	15.15	17.11	17.44	17.30	16.37	14.56	7.92
	3.00	6.39	7.99	11.08	16.84	2.17	3.92	5.50	6.96	9.60	11.90	13.87	15.48	17.55	17.93	17.84	16.98	15.24	8.73
180	1.00	6.99	8.71	11.98	17.38	2.39	4.30	6.02	7.61	10.43	12.83	14.79	16.29	17.73	17.56	16.73	14.66	11.35	
	1.05	7.10	8.87	12.20	17.83	2.42	4.36	6.12	7.73	10.62	13.08	15.11	16.67	18.24	18.13	17.36	15.38	12.14	
	1.20	7.32	9.16	12.65	18.70	2.48	4.49	6.30	7.98	10.98	13.57	15.72	17.41	19.22	19.23	18.59	16.75	13.67	
	1.50	7.50	9.39	13.00	19.39	2.53	4.58	6.45	8.17	11.28	13.95	16.20	17.99	19.99	20.10	19.55	17.84	14.88	
	3.00	7.59	9.51	13.20	19.77	2.56	4.64	6.53	8.28	11.44	14.17	16.47	18.31	20.42	20.59	20.10	18.45	15.56	
200	1.00	8.17	10.20	14.02	19.95	2.77	5.01	7.04	8.90	12.22	15.01	17.26	18.90	20.13	19.56	18.10	14.89	10.00	
	1.05	8.28	10.35	14.25	20.40	2.80	5.07	7.13	9.03	12.41	15.26	17.57	19.28	20.63	20.13	18.73	15.60	10.79	
	1.20	8.51	10.65	14.70	21.28	2.86	5.20	7.31	9.27	12.77	15.75	18.18	20.01	21.61	21.23	19.95	16.98	12.32	
	1.50	8.68	10.88	15.05	21.97	2.91	5.29	7.46	9.46	13.06	16.14	18.67	20.60	22.39	22.10	20.92	18.07	13.53	
	3.00	8.78	11.00	15.25	22.35	2.94	5.35	7.54	9.57	13.23	16.36	18.94	20.92	22.82	22.59	21.46	18.68	14.20	
224	1.00	9.57	11.95	16.39	22.55	3.22	5.85	8.23	10.42	14.30	17.52	20.02	21.71	22.31	20.99	18.44	13.34		
	1.05	9.68	12.10	16.62	23.00	3.26	5.92	8.33	10.55	14.49	17.77	20.33	22.09	22.82	21.56	19.07	14.05		
	1.20	9.90	12.39	17.06	23.87	3.32	6.04	8.51	10.79	14.86	18.26	20.94	22.83	23.80	22.66	20.30	15.43		
	1.50	10.08	12.62	17.41	24.56	3.37	6.14	8.66	10.99	15.15	18.65	21.43	23.41	24.57	23.53	21.26	16.52		
	3.00	10.17	12.75	17.61	24.95	3.39	6.19	8.74	11.10	15.31	18.86	21.70	23.73	25.00	24.02	21.81	17.13		
250	1.00	11.05	13.80	18.84	24.68	3.71	6.75	9.51	12.04	16.48	20.08	22.75	24.34	23.75	21.25	17.06			
	1.05	11.16	13.95	19.07	25.13	3.74	6.82	9.60	12.16	16.67	20.34	23.06	24.72	24.26	21.82	17.70			
	1.20	11.38	14.24	19.51	26.01	3.80	6.94	9.79	12.41	17.04	20.83	23.67	25.46	25.24	22.92	18.92			
	1.50	11.56	14.47	19.86	26.70	3.85	7.04	9.93	12.60	17.33	21.21	24.16	26.04	26.01	23.79	19.89			
	3.00	11.66	14.60	20.06	27.08	3.88	7.09	10.01	12.71	17.49	21.43	24.43	26.36	26.44	24.28	20.43			
280	1.00	12.73	15.87	21.50	26.20	4.27	7.78	10.95	13.86	18.90	22.84	25.54	26.79	24.10	19.71				
	1.05	12.84	16.02	21.73	26.65	4.30	7.84	11.05	13.98	19.09	23.10	25.85	27.17	24.60	20.27				
	1.20	13.06	16.31	22.17	27.52	4.36	7.96	11.23	14.23	19.45	23.59	26.47	27.90	25.58	21.38				
	1.50	13.23	16.54	22.52	28.21	4.41	8.06	11.37	14.42	19.74	23.97	26.95	28.48	26.36	22.25				
	3.00	13.33	16.67	22.72	28.60	4.43	8.11	11.46	14.53	19.91	24.19	27.22	28.81	26.79	22.74				
315	1.00	14.63	18.20	24.38	26.56	4.90	8.95	12.60	15.92	21.57	25.77	28.27	28.77	22.53					
	1.05	14.75	18.35	24.61	27.01	4.94	9.01	12.70	16.05	21.76	26.02	28.58	29.15	23.04					
	1.20	14.97	18.64	25.05	27.88	5.00	9.14	12.88	16.29	22.13	26.51	29.20	29.88	24.02					
	1.50	15.14	18.87	25.41	28.57	5.05	9.23	13.02	16.49	22.42	26.90	29.68	30.46	24.79					
	3.00	15.24	19.00	25.60	28.96	5.07	9.29	13.11	16.59	22.58	27.12	29.95	30.79	25.23					
355	1.00	16.75	20.75	27.36	24.92	5.63	10.27	14.44	18.20	24.43	28.71	30.63	29.78						
	1.05	16.86	20.90	27.59	25.37	5.66	10.33	14.54	18.33	24.62	28.96	30.95	30.16						
	1.20	17.08	21.19	28.03	26.24	5.72	10.46	14.72	18.57	24.99	29.45	31.56	30.89						
	1.50	17.26	21.42	28.38	26.93	5.77	10.55	14.87	18.77	25.28	29.84	32.04	31.47						
	3.00	17.35	21.55	28.58	27.31	5.79	10.61	14.95	18.87	25.44	30.05	32.32	31.80						
400	1.00	19.05	23.46	30.26		6.43	11.73	16.46	20.67	27.38	31.44	32.23	29.13						
	1.05	19.16	23.61	30.49		6.46	11.79	16.55	20.79	27.57	31.69	32.55	29.51						
	1.20	19.38	23.90	30.94		6.52	11.91	16.74	21.04	27.94	32.18	33.16	30.24						
	1.50	19.55	24.13	31.29		6.57	12.01	16.88	21.23	28.23	32.57	33.64	30.82						
	3.00	19.65	24.26	31.49		6.59	12.06	16.96	21.34	28.39	32.78	33.92	31.15						
450	1.00	21.50	26.29	32.91		7.30	13.31	18.63	23.27	30.31	33.69	32.56							
	1.05	21.61	26.44	33.13		7.33	13.38	18.72	23.40	30.50	33.95	32.88							
	1.20	21.83	26.73	33.58		7.39	13.50	18.91	23.64	30.86	34.44	33.49							
	1.50	22.01	26.96	33.93		7.44	13.59	19.05	23.84	31.15	34.82	33.97							
	3.00	22.10	27.09	34.13		7.47	13.65	19.13	23.95	31.32	35.04	34.24							
500	1.00	23.84	28.89	34.87		8.17	14.86	20.72	25.74	32.82	35.06	31.20							
	1.05	23.95	29.04	35.10		8.20	14.93	20.82	25.86	33.01	35.31	31.52							
	1.20	24.17	29.33	35.54		8.26	15.05	21.00	26.11	33.38	35.80	32.13							
	1.50	24.35	29.56	35.89		8.31	15.15	21.15	26.30	33.67	36.19	32.61							
	3.00	24.44	29.69	36.09		8.33	15.20	21.23	26.41	33.83	36.41	32.89							