V-belt are built for excellent performance on a heavy-duty Z, A, B, C, D, E section industrial drivers. Power cables and compound are wrapped with a textile cover, and assure maximum protection against heat, oil, ozone.

V-belt conventional cross-section are built with a UNISET technology, (limited and constant tollerance).Thanks to its precise dimensions, the belts correctly fits into the standard pulley grooves, and the extensive size range cover all applications in industrial and agricultural market.

V-belt conventional cross-section are in line with ISO 4184, DIN 2215, RMA/MPTA IP-22 norms , and fits in pulley in line with ISO 4183, DIN 2211/1, RMA/MPTA IP-22 norms.

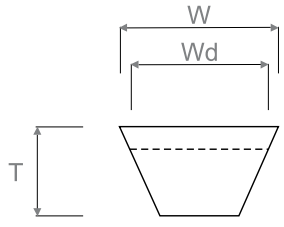
RoHS and Reach certified

Construction:

- Polyester low-stretch cable
- Polychloroprene cover against heat, oil, ozone
- Durable orange marking indicating type and dimensions
- Dimensional stability: UNISET
- Temperature range: - 20 a + 70

Nominal dimension:

SECTION ISO 4184 RMA		Z	A	B	C	D	E
Back width	W (mm)	10	13	17	22	32	40
Primitive width	Wd (mm)	8,5	11	14	19	27	32
Height	T (mm)	6	8	11	14	20	25
Primitive length	Ld=Li+ (mm)	22	30	43	55	75	82
External length	Le=Li+ (mm)	38	50	66	85	126	157
Minim. Pulley diam.	d_d (mm)	50	63	100	160	300	450
Weight	(Kg/m)	0,06	0,108	0,185	0,298	0,595	0,950
Maximum speed	v (m/s)	33					



FISATECH

WRAPPED NARROW SECTION
V-BELT POWER

narrow V-belt are built for excellent performance on a heavy-duty SPZ, SPA, SPB,SPC,3V,5V,8V section industrial drivers. Power cables and compound are wrapped with a textile cover , and assure maximum protection against heat, oil, ozone. V-belt narrow section are built with a UNISET technology, (limited and constant tollerance).Thanks to its precise dimensions, the belts correctly fits into the standard pulley grooves, and the extensive size range cover all applications in industrial and agricultural market V-belt narrow section increased transmission efficiency allows more compact and highly economical drive design, compared to the classical belts (until 40% more) V-belt narrow section are in line with ISO 4184, BS 3790, DIN 7753/1, RMA/MPTA IP-22 norms , and fits in pulley in line with ISO 4183, DIN 2211/1, RMA/MPTA IP-22 norms.

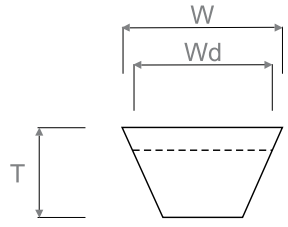
RoHS and Reach certfied

Construction:

- Polyester low-stretch cable
- Polychloroprene cover against heat ,oil, ozone
- Durable orange marking indicating type and dimensions
- Dimensional stability : UNISET
- Temperature range : - 20°C a + 70°C

Nominal dimensions:

SECTION ISO 4184, BS 3790 DIN 7753/1 RMA/MPTA IP-22		SPZ	SPA	SPB	SPC	3V/9N	5V/15N	8V/25N
Back width	W (mm)	9,7	12,7	16,3	22	9	15	25
Primitive width	Wd (mm)	8,5	11	14	19			
Height	T (mm)	8	10	13	18	8	13	23
Primitive length	Ld=Le - (mm)					4	11	16
Internal length	Li=Ld - (mm)	37	45	60	83			
External length	Le=Ld + (mm)	13	18	22	30			
Minim. Pulley diam.	d_d (mm)	63	90	140	224	63	140	315
Weight	(Kg/m)	0,065	0,115	0,200	0,350	0,070	0,185	0,520
Maximum speed	v (m/s)	42						



FISATECH

cogged raw edge V-belt, last generation of V belts, are built for superior performance compared to the wrapped V belts . The raw edge construction put more power where high speeds, high speed ratio or small pulleys diameter are required, and increased transmission efficiency allows more compact and highly economical transmissions raw edge V-belt in classical and narrow section are built with a UNISET technology, (limited and constant tollerance).Thanks to its precise dimensions, the belts correctly fits into the standard pulley grooves, and the extensive size range cover all applications in industrial and agricultural market.

aw edge V-belt are in line with ISO 4184, BS 3790, DIN 7753/1, RMA/MPTA IP-22 norms , and fits in pulley in line with ISO 4183, DIN 2211/1, RMA/MPTA IP-22 norms.

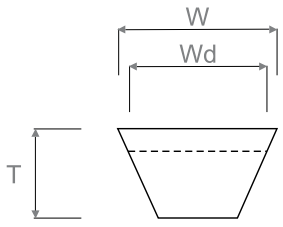
RoHS and Reach certfied

Construction:

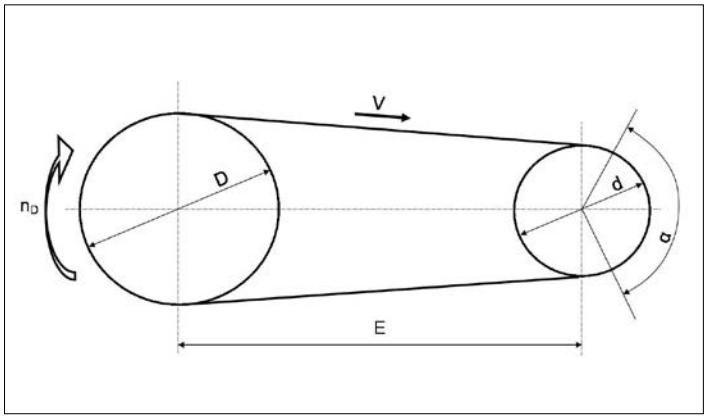
- Raw edge construction, ground
- Polyester low-stretch cable, and polychloroprene compound are vulcanised as one solid unit
- making the belt highly resistant to tensile and flexing forces
- Durable orange marking indicating type and dimensions
- Dimensional stability: UNISET
- Temperature range: - 25°C a + 80°C

Nominal dimensions:

SECTION ISO 4184, BS 3790 DIN 7753/1 RMA/MPTA		SPZX	SPAX	SPBX	SPCX	3VX	5VX
Back width	W (mm)	9,7	12,7	16,3	22	9	15
Primitive width	Wd (mm)	8,5	11	14	19		
Height	T (mm)	8	10	13	18	8	13
Primitive length	Ld=Li + (mm)					4	11
Internal length	Li=Ld - (mm)	37	45	60	83		
External length	Le=Li + (mm)	51	63	82	113		
Minim. Pulley diam.	d_d (mm)	56	71	112	180	56	112
Weight	(Kg/m)	0,060	0,110	0,185	0,330	0,060	0,183
Maximum speed	v (m/s)	48					



BELT DRIVE DESIGN



USEFUL DATA

D	Big pulley diameter	(mm)
N_D	Big pulley speed	(RPM)
d	Small pulley diameter	(mm)
n_d	Small pulley speed	(RPM)
V	Belt speed	(m/s)
E	Centre distance calculated	(mm)
E'	Centre distance required	(mm)
L_{th}	Theoretical belt length	(mm)
L	Belt datum length	(mm)
R	Speed ratio	
p_{nom}	Basic power	(kW)
S	Service factor	
Pc	Design power	(kW)
Po	Basic power per belt	
C_L	Belt length correction factor	
α	Arc of contact on small pulley	(degrees)
a	Arc of contact correction factor	
N	Number of belts required	

DATA DESIGN

Ratio : $R = \frac{nd}{ND} = \frac{D}{d}$ always ≥ 1

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- Speed ratio : $V = \frac{nd \times d}{19100} \quad \frac{ND \times D}{19100}$

- Centre distance: $0{,}7\,(D + d) < E < 2\,(D + d)$

- starting from L

$$E = \frac{L - 1{,}57(D + d)}{2} - \frac{(D - d)^2}{4[L - 1{,}57(D + d)]}$$

- easy formula, if $R \leq 3$ $\quad E = E' + \frac{L - L_{th}}{2}$

- Belt length $\quad L_{th} = 2E' + 1{,}57(D + d) + \frac{(D - d)^2}{4E'}$

- Arc of contact correction factor (arc of contact on small pulley) : see table

- Belt length correction factor : see table for each section

- number of belts: $N = \frac{P_{nom} \times S}{Po \times a \times C_L} = \frac{Pc}{Po \times a \times C_L}$

CHOICE OF BELT SIZE

- Find correct service factor S
- Find design power PC = Pnom x S
- Select correct belt size related to design power Pc and to small pulley speed nd

.

CHOICE OF PULLEY DIAMETER

- Check speed ratio : $R = \frac{nd}{ND}$ o $R = \frac{D}{d}$

- Find pulley diameters , before d after D
  Find bigger pulley diameters to reduce groove numbers
  Check speed belt , in order not exceed max value : $V = \frac{nd \times d}{19100} = \frac{ND \times D}{19100}$

CHOICE OF BELTS LENGTH

- Check theoretical belt length L_{th}:

$$Lth = 2E' + 1{,}57(D + d) + \frac{(D - d)^2}{4E'}$$

- Check standard belt length L closest to the theoretical belt length

- Find exact centre distance:

$$E = \frac{L - 1{,}57(D + d)}{2} - \frac{(D - d)^2}{4[L - 1{,}57(D + d)]}$$

or with easy formula : $\quad E = E' + \frac{L - L_{th}}{2}$

CALCULATION OF NUMBER OF BELTS REQUIRED

- Find basic power per belt
  Po related to d, R and nd for $\alpha = 180°$

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- Find the arc of contact correction factor related to $\frac{D - d}{E}$

- Find belt length correction factor C_L

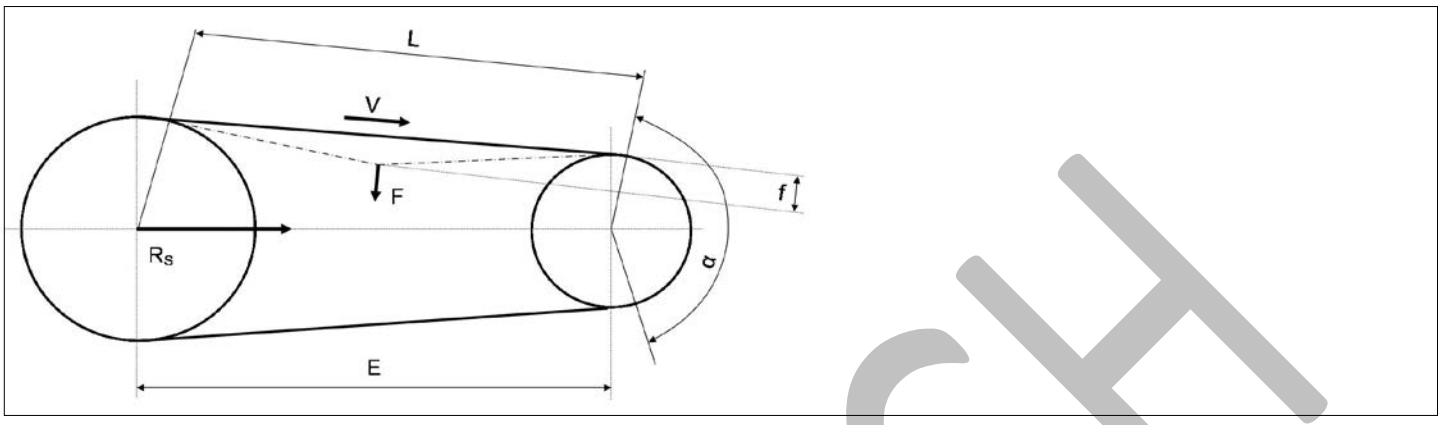
- Check belts number :

$$N = \frac{P \times S}{Po \times a \times C_L} = \frac{Pc}{Po \times a \times C_L}$$

FISATECH

BELTS DRIVE DESIGN

TENSION CALCULATION



USEFUL DATA

T	Belt effective tension	daN	L	Span length	mm
a	Arc of contact correction factor		E	Centre distance	mm
P_{nom}	Nominal Power	kW	f	Deflection	mm
P_c	Calculation Power	kW	F	Deflection force	daN
N	Number of belts		Rs	Static reaction on the shaft	daN
V	Linear speed	m/s	α	Arc of contact on small pulley	
k	Belt mass unit				

BELT MASS UNIT K

SPZ	0,007	XPZ	0,007	Z	0,006
SPA	0,012	XPA	0,012	A	0,011
SPB	0,019	XPB	0,019	B	0,019
SPC	0,038	XPC	0,036	C	0,031
				D	0,059

-

FIND THE REQUIRED STATIC TENSION PER BELT

$$T = \frac{50(2,5 - a)\,P_{nom}}{aNV} + kV^2$$

a: function of $\frac{D - d}{E}$ and arc of contact α k: see table

FIND SPAN LENGTH

—

$$L = E\left[1 - \frac{1}{8}\left(\frac{D - d}{E}\right)^2\right]$$

DEFLECTION DATA

$$f = \frac{L}{100}$$

DETERMINE DEFLECTION FORCE FOR DEFLECTION DATA = 1% SPAN LENGTH

$$F = \frac{T}{25}$$

FIND STATIC REACTION ON THE SHAFT

$Rs = 2NT \cos \beta$ $\beta = 90 - \frac{\alpha}{2}$ $\alpha = \frac{D - d}{E}$ see table arc of contact factor

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SAFETY FACTORS

A proper choice of the safety factor ensures the operation of the V-belts. The following table lists the most common working machinery with safety coefficients recommended

Table 2 : Value of safety factor

	-AC electric motors a low starting " - CC electric motors a low starting -Internal combustion engines with 4 or more cylinders -Water and steam turbines			-AC electric motors a medium starting -CC electric motors a low starting -Internal combustion engines with 4 or more cylinders -Water and steam turbines		
	Daily Service			Daily Service		
	Up to 8hrs	8/16 hrs	16/24hrs	Up to 8hrs	8/16 hrs	16/24hrs
Centrifugal pumps up to 7,5 Kw Blowers and exhausters Compressors Light-duty conveyors Fans up to 7,5 Kw	1,0	1,1	1,2	1,1	1,2	1,3
Pumps over 7,5 Kw Revolving and vibrating screens Dough mixers Rotary compressors Medium -duty conveyors Fans over to 7,5 Kw Generators Printing machinery Machine tools	1,1	1,2	1,3	1,2	1,3	1,4
Piston pumps Brick machinery Paper mill beaters Saw mill and woodworking Bucket elevators Hammer mills Exciters Conveyors (drag-pan-screw) Piston compressors	1,2	1,3	1,4	1,4	1,5	1,6
Crusher (gyratory-jaw-roll) Mills (ball-rod-tube) Rubber extruders -calenders	1,3	1,4	1,5	1,5	1,6	1,8

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ARC CORRECTION FACTOR

$\frac{D - d}{E}$	Correction factor	Angle small pulley
0,00	1	180°
0,05	0,99	177°
0,10	0,99	174°
0,15	0,98	171°
0,20	0,97	169°
0,25	0,97	166°
0,30	0,96	163°
0,35	0,95	160°
0,40	0,94	157°
0,45	0,93	154°
0,50	0,93	151°
0,55	0,92	148°
0,60	0,91	145°
0,65	0,90	142°
0,70	0,89	139°
0,75	0,88	136°
0,80	0,87	133°
0,85	0,86	130°
0,90	0,85	127°
0,95	0,83	123°
1,00	0,82	120°
1,05	0,81	117°
1,10	0,80	113°
1,15	0,78	110°
1,20	0,77	106°
1,25	0,75	103°
1,30	0,73	99°
1,35	0,72	95°
1,40	0,70	91°
1,45	0,68	87°

D = Big pulley diameter d = Small pulley diameter E = Centre distance

LENGTH CORRECTION FACTOR C_L

	Length mm											
	600-800	800-950	1000-1250	1250-1700	1700-2350	2350-3150	3150-4000	4000-5000	5000-6000	6000-7000	7000-9000	9000-12500
Section												
Z	0,9	0,95	1	1,05	1,12							
A		0,8	0,85	0,9	0,95	1	1,05					
B			0,8	0,85	0,9	0,95	1	1,05				
C					0,8	0,85	0,9	0,95	1	1,02	1,05	1,1
D					0,8	0,85	0,9	0,95	1	1,02	1,05	1,1
SPZ	0,8	0,85	0,9	0,95	1	1,08	1,12					
SPA		0,8	0,85	0,9	0,95	1	1,05					
SPB			0,8	0,85	0,9	0,95	1	1,05				
SPC					0,8	0,85	0,9	0,95	1	1,02	1,05	1,1
XPZ	0,8	0,85	0,9	0,95	1	1,08	1,12					
XPA		0,8	0,85	0,9	0,95	1	1,05					
XPB				0,9	0,95	1	1,05					
XPC					0,9	0,95	0,98	1				

FISATECH

CLASSICAL V BELTS -BASIC POWER Po (KW)

Section Z																
	d (mm) =															
(RPM)	63	67	71	75	80	85	90	95	100	106	112	118	125	132	140	150
730	0,42	0,49	0,55	0,60	0,68	0,76	0,83	0,90	0,97	1,05	1,14	1,22	1,32	1,42	1,53	1,67
970	0,53	0,60	0,68	0,76	0,86	0,95	1,04	1,13	1,23	1,34	1,45	1,56	1,68	1,81	1,95	2,12
1165	0,60	0,69	0,78	0,87	0,99	1,10	1,21	1,31	1,43	1,56	1,68	1,81	1,96	2,11	2,27	2,47
1455	0,71	0,82	0,93	1,04	1,18	1,31	1,44	1,58	1,71	1,86	2,02	2,17	2,34	2,52	2,72	2,95
1745	0,80	0,94	1,06	1,19	1,35	1,50	1,67	1,82	1,97	2,15	2,32	2,50	2,70	2,91	3,13	3,40
2400	0,99	1,16	1,33	1,49	1,70	1,91	2,11	2,30	2,49	2,73	2,95	3,17	3,42	3,66	3,94	4,27
2910	1,12	1,31	1,51	1,70	1,94	2,17	2,40	2,63	2,84	3,11	3,36	3,61	3,89	4,15	4,45	4,80
3600	1,24	1,48	1,71	1,94	2,21	2,48	2,74	2,99	3,24	3,53	3,80	4,07	4,37	4,64	4,94	5,30
4500	1,36	1,63	1,90	2,15	2,47	2,76	3,05	3,32	3,59	3,89	4,17	4,43	4,71	4,96	5,20	5,45

Section A																
	d (mm) =															
(RPM)	71	75	80	85	90	95	100	106	112	118	125	132	140	150	160	170
730	0,59	0,68	0,79	0,90	1,02	1,13	1,23	1,36	1,49	1,62	1,77	1,92	2,09	2,30	2,502	2,70
970	0,72	0,84	0,98	1,13	1,27	1,41	1,55	1,72	1,88	2,04	2,24	2,42	2,64	2,91	3,168	3,42
1165	0,82	0,95	1,13	1,30	1,46	1,63	1,79	1,99	2,18	2,37	2,59	2,82	3,06	3,37	3,672	3,97
1455	0,95	1,12	1,32	1,52	1,73	1,93	2,12	2,36	2,59	2,83	3,09	3,35	3,65	4,01	4,374	4,73
1745	1,06	1,26	1,49	1,74	1,97	2,20	2,43	2,70	3,02	3,24	3,51	3,78	4,14	4,59	4,95	5,40
2400	1,27	1,52	1,83	2,13	2,44	2,74	3,02	3,38	3,71	4,04	4,42	4,80	5,20	5,70	6,174	6,62
2910	1,38	1,67	2,03	2,39	2,73	3,07	3,40	3,79	4,17	4,54	4,95	5,36	5,80	6,32	6,804	7,25
3600	1,47	1,81	2,22	2,63	3,02	3,40	3,77	4,19	4,61	5,00	5,44	5,84	6,28	6,77	7,2	7,56
4500	1,47	1,85	2,32	2,76	3,20	3,60	3,99	4,43	4,83	5,20	5,60	5,94	6,27			

Section B																
	d (mm) =															
(RPM)	112	118	125	132	140	150	160	170	180	190	200	212	224	236	250	265
400	1,02	1,14	1,28	1,41	1,58	1,77	1,96	2,15	2,35	2,54	2,73	2,95	3,17	3,39	3,65	3,92
730	1,62	1,83	2,07	2,30	2,57	2,90	3,23	3,56	3,88	4,19	4,52	4,90	5,27	5,63	6,07	6,52
970	2,01	2,27	2,57	2,87	3,21	3,64	4,05	4,46	4,87	5,27	5,68	6,15	6,62	7,07	7,61	8,16
1165	2,28	2,58	2,94	3,29	3,69	4,19	4,66	5,14	5,62	6,08	6,53	7,07	7,61	8,13	8,72	9,35
1455	2,65	3,02	3,44	3,86	4,34	4,91	5,49	6,06	6,61	7,15	7,68	8,30	8,90	9,45	10,16	10,85
1745	2,96	3,38	3,87	4,36	4,90	5,56	6,21	6,84	7,46	8,06	8,64	9,27	9,97	10,59	11,29	11,99
2400	3,48	4,01	4,62	5,20	5,86	6,65	7,42	8,14	8,82	9,47	10,08	10,76	11,39	11,93	12,50	
2910	3,69	4,28	4,95	5,59	6,29	7,12	7,89	8,61	9,27	9,86	10,39	10,93	11,37			
3600	3,70	4,32	5,01	5,67	6,35	7,14	7,81	8,39	8,85							
4500	3,13	3,73	4,35	4,89	5,41											

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Section C																
	d (mm) =															
(RPM)	170	180	190	200	212	224	236	250	265	280	300	315	335	355	375	400
200	1,51	1,68	1,85	2,03	2,21	2,43	2,61	2,84	3,11	3,33	3,60	3,87	4,23	4,50	4,9	5,2
400	2,66	3,00	3,29	3,65	3,96	4,37	4,73	5,13	5,63	6,08	6,66	7,11	7,74	8,33	8,9	9,6
730	4,23	4,77	5,31	5,85	6,48	7,11	7,74	8,46	9,18	9,90	10,89	11,70	12,65	13,55	14,5	15,7
970	5,18	5,90	6,57	7,25	8,06	8,83	9,59	10,44	11,43	12,38	13,50	14,45	15,57	16,74	17,7	19,1
1160	5,85	6,66	7,47	8,24	9,09	10,08	10,94	11,93	12,65	14,04	15,35	16,34	17,60	18,72	19,9	21,2
1450	6,75	7,70	8,60	9,54	10,58	11,57	12,60	13,73	14,90	16,02	17,46	18,50	19,76	20,93	22,0	23,2
1750	7,43	8,46	9,45	10,49	11,61	12,74	13,82	15,03	16,20	17,37	18,72	19,71	20,84	21,78	22,6	
2400	8,10	9,27	10,44	11,48	12,60	13,77	14,76	15,78	16,74	17,46						
2910	7,83	8,96	9,99	10,98	11,88	12,78										

Section D										
	d (mm) =									
(RPM)	300	315	335	375	400	425	450	500	560	600
200	5,49	5,85	6,30	7,38	8,10	8,96	9,63	10,80	12,60	13,50
400	9,90	10,71	11,70	13,77	15,03	16,20	17,51	19,89	22,73	24,48
730	16,11	17,37	19,04	22,23	24,21	26,19	27,99	31,59	35,64	38,16
970	19,80	21,06	23,31	27,09	29,39	31,50	33,66	37,44	41,40	43,65
1160	22,14	23,85	26,06	30,15	32,40	34,65	36,54	40,12	43,20	
1450	24,75	26,55	28,80	32,72	34,79	36,59	38,07			
1750	26,01	27,63	29,61	34,74	7,74					
2000	25,74	27,09	28,62							
2200	24,57									

FISATECH

SECTION SPZ/3V

RPM small pulley	BASIC POWER IN KW SMALL PULLEY DIAMETER															Belt speed m/s
	63	67	71	75	80	85	90	95	100	106	112	118	125	132	140	
100	0,10	0,12	0,13	0,15	0,16	0,18	0,20	0,22	0,24	0,26	0,28	0,30	0,32	0,35	0,38	
200	0,18	0,21	0,24	0,27	0,30	0,34	0,37	0,40	0,44	0,48	0,52	0,56	0,60	0,65	0,70	
300	0,26	0,30	0,34	0,38	0,43	0,48	0,53	0,58	0,63	0,68	0,74	0,80	0,87	0,94	1,01	
400	0,33	0,38	0,43	0,48	0,55	0,61	0,68	0,74	0,81	0,88	0,96	1,03	1,12	1,21	1,31	
500	0,39	0,45	0,52	0,58	0,66	0,74	0,82	0,90	0,98	1,07	1,17	1,26	1,37	1,47	1,60	
600	0,45	0,53	0,60	0,68	0,77	0,87	0,96	1,05	1,15	1,26	1,37	1,48	1,61	1,73	1,88	
700	0,51	0,60	0,68	0,77	0,88	0,99	1,10	1,20	1,31	1,44	1,57	1,69	1,84	1,98	2,15	
720	**0,52**	**0,61**	**0,70**	**0,79**	**0,90**	**1,01**	**1,12**	**1,23**	**1,34**	**1,47**	**1,60**	**1,73**	**1,88**	**2,03**	**2,20**	10
800	0,56	0,66	0,76	0,86	0,99	1,11	1,23	1,35	1,47	1,62	1,76	1,90	2,07	2,23	2,42	
900	0,62	0,73	0,84	0,95	1,09	1,22	1,36	1,49	1,63	1,79	1,95	2,11	2,29	2,47	2,68	
960	**0,65**	**0,77**	**0,88**	**1,00**	**1,15**	**1,29**	**1,44**	**1,58**	**1,72**	**1,89**	**2,06**	**2,23**	**2,42**	**2,62**	**2,84**	
1000	0,67	0,79	0,91	1,04	1,19	1,34	1,49	1,63	1,78	1,96	2,13	2,31	2,51	2,71	2,94	
1100	0,72	0,85	0,99	1,12	1,28	1,45	1,61	1,77	1,93	2,12	2,32	2,50	2,72	2,94	3,19	
1200	**0,77**	**0,91**	**1,06**	**1,20**	**1,38**	**1,56**	**1,73**	**1,91**	**2,08**	**2,29**	**2,49**	**2,70**	**2,94**	**3,17**	**3,44**	
1300	0,82	0,97	1,13	1,28	1,47	1,66	1,85	2,04	2,23	2,45	2,67	2,89	3,14	3,40	3,68	
1400	0,86	1,03	1,19	1,36	1,56	1,77	1,97	2,17	2,37	2,61	2,84	3,08	3,35	3,62	3,92	
1440	**0,88**	**1,05**	**1,22**	**1,39**	**1,60**	**1,81**	**2,01**	**2,22**	**2,42**	**2,67**	**2,91**	**3,15**	**3,43**	**3,71**	**4,02**	
1500	0,91	1,08	1,26	1,43	1,65	1,87	2,08	2,30	2,51	2,76	3,01	3,26	3,55	3,83	4,16	
1600	0,95	1,14	1,32	1,51	1,74	1,97	2,20	2,42	2,65	2,91	3,18	3,44	3,75	4,05	4,39	
1700	0,99	1,19	1,39	1,58	1,83	2,07	2,31	2,55	2,78	3,06	3,34	3,62	3,94	4,26	4,62	
1800	**1,03**	**1,24**	**1,45**	**1,66**	**1,91**	**2,17**	**2,42**	**2,67**	**2,92**	**3,21**	**3,50**	**3,80**	**4,13**	**4,46**	**4,84**	
1900	1,07	1,29	1,51	1,73	1,99	2,26	2,52	2,79	3,05	3,36	3,66	3,97	4,32	4,67	5,06	
2000	1,11	1,34	1,57	1,80	2,08	2,35	2,63	2,90	3,18	3,50	3,82	4,14	4,50	4,86	5,27	20
2100	1,15	1,39	1,63	1,86	2,16	2,45	2,73	3,02	3,30	3,64	3,97	4,30	4,68	5,06	5,48	
2200	1,19	1,44	1,68	1,93	2,24	2,54	2,84	3,13	3,43	3,78	4,12	4,47	4,86	5,25	5,69	
2300	1,22	1,48	1,74	2,00	2,31	2,63	2,94	3,25	3,55	3,91	4,27	4,63	5,03	5,44	5,89	
2400	**1,26**	**1,53**	**1,80**	**2,06**	**2,39**	**2,71**	**3,04**	**3,36**	**3,67**	**4,05**	**4,42**	**4,78**	**5,20**	**5,62**	**6,09**	
2500	1,29	1,57	1,85	2,12	2,46	2,80	3,13	3,46	3,79	4,18	4,56	4,94	5,37	5,80	6,28	
2600	1,33	1,62	1,90	2,19	2,54	2,88	3,23	3,57	3,91	4,31	4,70	5,09	5,54	5,97	6,47	
2700	1,36	1,66	1,95	2,25	2,61	2,97	3,32	3,67	4,02	4,43	4,84	5,24	5,69	6,15	6,65	
2800	1,39	1,70	2,00	2,31	2,68	3,05	3,41	3,78	4,13	4,55	4,97	5,38	5,85	6,31	6,83	
2880	**1,42**	**1,73**	**2,04**	**2,35**	**2,73**	**3,11**	**3,49**	**3,86**	**4,22**	**4,65**	**5,08**	**5,49**	**5,97**	**6,44**	**6,97**	
2900	1,42	1,74	2,05	2,36	2,75	3,13	3,50	3,88	4,24	4,68	5,10	5,52	6,00	6,48	7,00	
3000	1,45	1,78	2,10	2,42	2,82	3,21	3,59	3,97	4,35	4,79	5,23	5,66	6,15	6,63	7,17	
3100	1,48	1,82	2,15	2,48	2,88	3,28	3,68	4,07	4,45	4,91	5,36	5,80	6,30	6,79	7,33	30
3200	1,51	1,85	2,19	2,53	2,95	3,36	3,76	4,16	4,56	5,02	5,48	5,93	6,44	6,94	7,49	
3300	1,54	1,89	2,24	2,58	3,01	3,43	3,85	4,26	4,66	5,13	5,60	6,06	6,58	7,08	7,65	
3400	1,56	1,92	2,28	2,64	3,07	3,50	3,93	4,35	4,76	5,24	5,72	6,18	6,71	7,23	7,80	
3500	1,59	1,96	2,32	2,69	3,13	3,57	4,01	4,43	4,85	5,35	5,83	6,30	6,84	7,36	7,94	

RPM	Additional power (Kw) for speed ratio				
	1,01 to 1,05	1,06 to 1,26	1,27 to 1,57	1,58 to 3,38	over 3,39
100	0,00	0,01	0,01	0,02	0,02
200	0,00	0,02	0,02	0,03	0,03
300	0,00	0,03	0,04	0,05	0,05
400	0,01	0,03	0,05	0,06	0,06
500	0,01	0,04	0,06	0,08	0,08
600	0,01	0,05	0,07	0,09	0,10
700	0,01	0,06	0,09	0,11	0,11
720	**0,01**	**0,06**	**0,09**	**0,11**	**0,12**
800	0,01	0,07	0,10	0,12	0,13
900	0,01	0,08	0,11	0,14	0,14
960	**0,01**	**0,08**	**0,12**	**0,15**	**0,15**
1000	0,01	0,09	0,12	0,15	0,16
1100	0,01	0,10	0,14	0,17	0,18
1200	**0,02**	**0,10**	**0,15**	**0,18**	**0,19**
1300	0,02	0,11	0,16	0,20	0,21
1400	0,02	0,12	0,17	0,21	0,23
1440	**0,02**	**0,13**	**0,18**	**0,22**	**0,23**
1500	0,02	0,13	0,19	0,23	0,24
1600	0,02	0,14	0,20	0,24	0,26
1700	0,02	0,15	0,21	0,26	0,27
1800	**0,02**	**0,16**	**0,22**	**0,27**	**0,29**
1900	0,03	0,17	0,24	0,29	0,31
2000	0,03	0,17	0,25	0,30	0,32
2100	0,03	0,18	0,26	0,32	0,34
2200	0,03	0,19	0,27	0,33	0,35
2300	0,03	0,20	0,29	0,35	0,37
2400	**0,03**	**0,21**	**0,30**	**0,36**	**0,39**
2500	0,03	0,22	0,31	0,38	0,40
2600	0,04	0,23	0,32	0,40	0,42
2700	0,04	0,24	0,33	0,41	0,43
2800	0,04	0,24	0,35	0,43	0,45
2880	**0,04**	**0,25**	**0,36**	**0,44**	**0,45**
2900	0,04	0,25	0,36	0,44	0,47
3000	0,04	0,26	0,37	0,46	0,48
3100	0,04	0,27	0,38	0,47	0,50
3200	0,04	0,28	0,40	0,49	0,51
3300	0,04	0,29	0,41	0,50	0,53
3400	0,05	0,30	0,42	0,52	0,55
3500	0,05	0,31	0,43	0,53	0,56

Basic power for theorical 25.000 hrs belt life .

FISATECH

SECTION SPA

RPM small pulley	BASIC POWER IN KW SMALL PULLEY DIAMETER													Belt speed m/s
	90	95	100	106	112	118	125	132	140	150	160	180	200	
100	0,23	0,27	0,30	0,33	0,37	0,41	0,45	0,49	0,54	0,60	0,66	0,78	0,90	
200	0,42	0,47	0,53	0,60	0,68	0,75	0,83	0,91	1,00	1,12	1,23	1,46	1,68	
300	0,58	0,66	0,75	0,85	0,95	1,06	1,18	1,29	1,43	1,60	1,76	2,09	2,42	
400	0,72	0,84	0,95	1,08	1,22	1,35	1,51	1,66	1,84	2,05	2,27	2,70	3,13	
500	0,86	1,00	1,14	1,31	1,47	1,63	1,82	2,01	2,23	2,49	2,76	3,29	3,81	
600	0,99	1,16	1,32	1,52	1,71	1,90	2,13	2,35	2,61	2,92	3,24	3,86	4,47	10
700	1,12	1,31	1,49	1,72	1,94	2,17	2,42	2,68	2,97	3,34	3,70	4,41	5,12	
720	**1,14**	**1,34**	**1,53**	**1,76**	**1,99**	**2,22**	**2,48**	**2,75**	**3,05**	**3,42**	**3,79**	**4,52**	**5,24**	
800	1,24	1,45	1,66	1,92	2,17	2,42	2,71	3,00	3,33	3,74	4,15	4,95	5,74	
900	1,35	1,59	1,82	2,11	2,39	2,67	2,99	3,31	3,68	4,13	4,58	5,48	6,36	
960	**1,41**	**1,67**	**1,92**	**2,20**	**2,51**	**2,81**	**3,15**	**3,50**	**3,88**	**4,36**	**4,84**	**5,79**	**6,72**	
1000	1,46	1,72	1,98	2,29	2,60	2,91	3,26	3,62	4,02	4,52	5,01	5,99	6,95	
1100	1,56	1,85	2,13	2,47	2,80	3,14	3,53	3,91	4,35	4,89	5,43	6,49	7,53	
1200	**1,66**	**1,97**	**2,27**	**2,64**	**3,00**	**3,37**	**3,78**	**4,20**	**4,67**	**5,26**	**5,84**	**6,98**	**8,10**	
1300	1,76	2,09	2,42	2,81	3,20	3,59	4,04	4,48	4,99	5,61	6,23	7,46	8,65	
1400	1,85	2,20	2,55	2,97	3,39	3,80	4,28	4,76	5,30	5,96	6,62	7,92	9,19	20
1440	**1,88**	**2,25**	**2,61**	**3,04**	**3,46**	**3,89**	**4,38**	**4,87**	**5,42**	**6,10**	**6,78**	**8,10**	**9,40**	
1500	1,94	2,31	2,69	3,13	3,57	4,01	4,52	5,03	5,60	6,30	7,00	8,37	9,71	
1600	2,02	2,42	2,81	3,29	3,75	4,22	4,75	5,29	5,89	6,64	7,37	8,81	10,21	
1700	2,10	2,52	2,94	3,44	3,93	4,42	4,98	5,54	6,18	6,96	7,73	9,24	10,70	
1800	**2,18**	**2,62**	**3,06**	**3,58**	**4,10**	**4,61**	**5,20**	**5,79**	**6,45**	**7,27**	**8,08**	**9,65**	**11,18**	
1900	2,25	2,72	3,18	3,72	4,26	4,80	5,42	6,03	6,73	7,58	8,42	10,05	11,63	
2000	2,33	2,81	3,29	3,86	4,42	4,98	5,63	6,27	6,99	7,88	8,75	10,44	12,07	
2100	2,40	2,90	3,40	3,99	4,58	5,16	5,83	6,50	7,25	8,17	9,07	10,82	12,49	
2200	2,46	2,99	3,50	4,12	4,73	5,34	6,03	6,72	7,49	8,45	9,38	11,18	12,90	
2300	2,52	3,07	3,61	4,25	4,88	5,50	6,23	6,94	7,74	8,72	9,68	11,53	13,28	
2400	**2,58**	**3,15**	**3,70**	**4,37**	**5,02**	**5,67**	**6,41**	**7,14**	**7,97**	**8,98**	**9,96**	**11,86**	**13,65**	
2500	2,64	3,22	3,80	4,48	5,16	5,83	6,59	7,35	8,19	9,23	10,24	12,17	13,99	
2600	2,69	3,29	3,89	4,59	5,29	5,98	6,77	7,54	8,41	9,47	10,50	12,48	14,32	30
2700	2,74	3,36	3,98	4,70	5,42	6,12	6,93	7,73	8,62	9,71	10,76	12,76	14,63	
2800	2,79	3,43	4,06	4,81	5,54	6,26	7,09	7,91	8,82	9,93	11,00	13,03	14,91	
2880	**2,83**	**3,48**	**4,12**	**4,88**	**5,64**	**6,37**	**7,22**	**8,05**	**8,97**	**10,10**	**11,19**	**13,24**	**-**	
2900	2,84	3,49	4,14	4,90	5,66	6,40	7,25	8,08	9,01	10,14	11,23	13,29	-	
3000	2,88	3,55	4,21	5,00	5,77	6,53	7,40	8,25	9,20	10,34	11,45	13,53	-	
3100	2,92	3,60	4,29	5,09	5,88	6,65	7,54	8,41	9,37	10,54	11,65	13,75	-	
3200	2,95	3,66	4,35	5,17	5,98	6,77	7,68	8,56	9,54	10,72	11,85	-	-	
3300	2,98	3,70	4,42	5,25	6,08	6,88	7,80	8,70	9,69	10,89	12,03	-	-	
3400	3,01	3,75	4,48	5,33	6,17	6,99	7,92	8,83	9,84	11,05	12,19	-	-	
3500	3,04	3,79	4,53	5,40	6,26	7,09	8,04	8,96	9,98	11,19	12,35	-	-	

RPM	Additional power (Kw) for speed ratio				
	1,01 to 1,05	1,06 to 1,26	1,27 to 1,57	1,58 to 3,38	over 3,39
100	0,00	0,02	0,03	0,04	0,04
200	0,01	0,04	0,06	0,08	0,08
300	0,01	0,07	0,10	0,12	0,12
400	0,01	0,09	0,13	0,16	0,16
500	0,02	0,11	0,16	0,19	0,21
600	0,02	0,13	0,19	0,23	0,25
700	0,02	0,16	0,22	0,27	0,29
720	**0,02**	**0,16**	**0,23**	**0,28**	**0,30**
800	0,03	0,18	0,25	0,31	0,33
900	0,03	0,20	0,29	0,35	0,37
960	**0,03**	**0,21**	**0,30**	**0,37**	**0,40**
1000	0,03	0,22	0,32	0,39	0,41
1100	0,04	0,25	0,35	0,43	0,45
1200	**0,04**	**0,27**	**0,38**	**0,47**	**0,49**
1300	0,04	0,29	0,41	0,51	0,54
1400	0,05	0,31	0,44	0,54	0,58
1440	**0,05**	**0,32**	**0,46**	**0,56**	**0,59**
1500	0,05	0,34	0,48	0,58	0,62
1600	0,06	0,36	0,51	0,62	0,66
1700	0,06	0,38	0,54	0,66	0,70
1800	**0,06**	**0,40**	**0,57**	**0,70**	**0,74**
1900	0,07	0,43	0,60	0,74	0,78
2000	0,07	0,45	0,64	0,78	0,82
2100	0,07	0,47	0,67	0,82	0,87
2200	0,08	0,49	0,70	0,86	0,91
2300	0,08	0,51	0,73	0,90	0,95
2400	**0,08**	**0,54**	**0,76**	**0,93**	**0,99**
2500	0,09	0,56	0,79	0,97	1,03
2600	0,09	0,58	0,83	1,01	1,07
2700	0,09	0,60	0,86	1,05	1,11
2800	0,10	0,63	0,89	1,09	1,15
2880	**0,10**	**0,64**	**0,91**	**1,12**	**1,19**
2900	0,10	0,65	0,92	1,13	1,20
3000	0,10	0,67	0,95	1,17	1,24
3100	0,11	0,69	0,98	1,21	1,28
3200	0,11	0,72	1,02	1,25	1,32
3300	0,11	0,74	1,05	1,28	1,36
3400	0,12	0,76	1,08	1,32	1,40
3500	0,12	0,78	1,11	1,36	1,44

FISATECH

SECTION SPB/5V

RPM small pulley	BASIC POWER IN KW SMALL PULLEY DIAMETER											VBelt speed m/s
	160	170	180	190	200	212	224	236	250	280	315	
100	0,84	0,93	1,02	1,12	1,21	1,32	1,43	1,45	1,66	1,94	2,25	10
200	1,53	1,71	1,89	2,06	2,24	2,45	2,66	2,86	3,10	3,62	4,21	
300	2,17	2,43	2,69	2,94	3,20	3,50	3,81	4,11	4,46	5,20	6,06	
400	2,77	3,11	3,45	3,78	4,11	4,51	4,90	5,29	5,57	6,72	7,83	
500	3,35	3,76	4,17	4,58	4,99	5,47	5,96	6,44	6,99	8,18	9,53	
600	3,90	4,39	4,87	5,36	5,83	6,41	6,97	7,54	8,19	9,58	11,17	
700	4,43	4,99	5,55	6,10	6,65	7,31	7,96	8,61	9,36	10,94	12,75	20
720	**4,54**	**5,11**	**5,68**	**6,25**	**6,81**	**7,49**	**8,15**	**8,82**	**9,58**	**11,21**	**13,06**	
800	4,95	5,58	6,20	6,83	7,45	8,18	8,91	9,64	10,48	12,26	14,28	
900	5,44	6,14	6,84	7,53	8,21	9,03	9,84	10,64	11,57	13,53	15,74	
960	**5,73**	**6,47**	**7,21**	**7,94**	**8,66**	**9,52**	**10,38**	**11,23**	**12,20**	**14,26**	**16,60**	
1000	5,92	6,69	7,45	8,21	8,96	9,85	10,73	11,61	12,62	14,75	17,15	
1100	6,39	7,22	8,05	8,87	9,68	10,64	11,60	12,54	13,63	15,92	18,50	
1200	**6,83**	**7,73**	**8,62**	**9,50**	**10,38**	**11,41**	**12,44**	**13,45**	**14,61**	**17,05**	**19,70**	
1300	7,27	8,23	9,18	10,12	11,05	12,15	13,24	14,32	15,55	18,13	20,99	30
1400	7,69	8,71	9,72	10,71	11,70	12,87	14,02	15,15	16,45	19,15	22,14	
1440	**7,85**	**8,89**	**9,93**	**10,95**	**11,95**	**13,15**	**14,32**	**15,48**	**16,80**	**19,55**	**22,57**	
1500	8,09	9,17	10,24	11,29	12,33	13,56	14,76	15,95	17,31	20,12	23,21	
1600	8,48	9,62	10,74	11,84	12,93	14,22	15,48	16,72	18,13	21,04	24,21	
1700	8,85	10,04	11,22	12,37	13,51	14,85	16,16	17,44	18,90	21,90	25,12	
1800	**9,21**	**10,45**	**11,68**	**12,88**	**14,06**	**15,45**	**16,81**	**18,13**	**19,64**	**22,70**	**25,96**	
1900	9,56	10,85	12,12	13,36	14,58	16,02	17,42	18,78	20,32	23,44		
2000	9,88	11,22	12,54	13,82	15,08	16,56	17,99	19,39	20,96	24,11		
2100	10,19	11,58	12,93	14,26	15,55	17,07	18,53	19,95	21,54			
2200	10,49	11,92	13,31	14,67	16,00	17,54	19,04	20,47	22,08			
2300	10,77	12,23	13,66	15,06	16,41	17,98	19,50	20,95				
2400	**11,03**	**12,53**	**14,00**	**15,42**	**16,79**	**18,39**	**19,92**	**21,38**				
2500	11,27	12,81	14,30	15,75	17,15	18,76	20,30					
2600	11,50	13,07	14,59	16,06	17,47	19,09						
2700	11,71	13,31	14,85	16,33	17,76	19,39						
2800	11,90	13,52	15,08	16,58	18,01							
2880	**12,04**	**13,68**	**15,25**	**16,76**								
2900	12,07	13,71	15,29	16,80								
3000	12,22	13,89	15,47	16,99								

RPM	Additional Power (Kw) for speed ratio				
	1,01 to 1,05	1,06 to 1,26	1,27 to 1,57	1,58 to 3,38	over 3,39
100	0,01	0,04	0,07	0,08	0,08
200	0,01	0,09	0,13	0,16	0,17
300	0,02	0,14	0,20	0,24	0,25
400	0,03	0,19	0,26	0,32	0,34
500	0,04	0,23	0,33	0,40	0,43
600	0,04	0,28	0,40	0,48	0,51
700	0,05	0,33	0,46	0,57	0,59
720	**0,05**	**0,33**	**0,53**	**0,59**	**0,62**
800	0,06	0,37	0,53	0,65	0,69
900	0,07	0,42	0,60	0,72	0,77
960	**0,07**	**0,44**	**0,62**	**0,77**	**0,81**
1000	0,07	0,46	0,66	0,81	0,86
1100	0,08	0,51	0,72	0,89	0,94
1200	**0,09**	**0,56**	**0,79**	**0,97**	**1,03**
1300	0,09	0,60	0,86	1,05	1,11
1400	0,10	0,65	0,93	1,13	1,20
1440	**0,10**	**0,66**	**0,94**	**1,15**	**1,21**
1500	0,10	0,69	0,99	1,21	1,28
1600	0,11	0,75	1,05	1,29	1,37
1700	0,12	0,79	1,12	1,37	1,45
1800	**0,13**	**0,84**	**1,19**	**1,45**	**1,54**
1900	0,13	0,88	1,25	1,54	1,63
2000	0,14	0,93	1,32	1,62	1,71
2100	0,15	0,98	1,39	1,69	1,79
2200	0,16	1,02	1,45	1,78	1,88
2300	0,16	1,07	1,51	1,86	1,97
2400	**0,17**	**1,11**	**1,58**	**1,94**	**2,05**
2500	0,18	1,16	1,65	2,02	2,14
2600	0,19	1,21	1,72	2,10	2,22
2700	0,19	1,25	1,78	2,18	2,31
2800	0,20	1,29	1,84	2,26	2,39
2880	**0,20**	**1,32**	**1,88**	**2,31**	**2,44**
2900	0,21	1,34	1,91	2,34	2,48
3000	0,22	1,39	1,98	2,42	2,57

Basic power for theorical 25.000 hrs belt life

FISATECH

SECTION SPC

RPM small pulley	BASIC POWER IN KW SMALL PULLEY DIAMETER																	Vbel speed m/s
	224	236	250	265	280	300	315	335	355	375	400	425	450	475	500	530	560	
100	1,99	2,20	2,45	2,72	2,99	3,34	3,60	3,96	4,31	4,65	5,09	5,52	5,95	6,38	6,80	7,31	7,82	
200	3,59	4,00	4,48	4,99	5,49	6,17	6,67	7,33	8,00	8,66	9,48	10,30	11,11	11,92	12,72	13,68	14,64	10
300	5,04	5,64	6,33	7,07	7,81	8,78	9,51	10,48	11,44	12,39	13,58	147,76	15,93	17,10	18,26	19,64	21,01	
400	6,40	7,17	8,07	9,04	9,99	11,26	12,20	13,45	14,70	15,93	17,47	18,99	20,50	22,00	23,48	25,25	27,00	
500	7,67	8,62	9,72	10,90	12,06	13,61	14,76	16,28	17,80	19,30	21,16	23,00	24,82	26,63	28,42	30,54	32,64	20
600	8,87	9,99	11,28	12,66	14,04	15,85	17,20	18,98	20,75	22,50	24,67	26,80	28,92	31,00	33,06	35,50	67,89	
700	10,00	11,29	12,77	14,35	15,92	17,98	19,52	21,55	23,56	25,54	27,99	30,40	32,77	35,11	37,40	40,11	42,75	
720	**10,22**	**11,54**	**13,06**	**14,68**	**16,28**	**18,40**	**19,97**	**22,05**	**24,10**	**26,13**	**28,63**	**31,09**	**33,51**	**35,89**	**38,23**	**40,99**	**43,67**	
800	11,08	12,52	14,19	15,95	17,71	20,02	21,73	23,99	26,22	28,42	31,12	33,77	36,37	38,93	41,42	44,34	47,18	
900	12,10	13,69	15,53	17,48	19,41	21,95	23,82	26,30	28,73	31,12	34,05	36,92	39,71	42,44	45,09	48,18	51,15	30
960	**12,68**	**14,36**	**13,30**	**18,35**	**20,38**	**23,05**	**25,02**	**27,61**	**30,16**	**32,66**	**35,71**	**38,69**	**41,58**	**44,39**	**47,12**	**50,27**	**53,29**	
1000	13,06	14,79	16,80	18,92	21,02	23,77	25,80	28,47	31,08	33,64	36,77	39,82	42,77	45,63	48,39	51,58	54,61	
1100	13,96	15,83	18,00	20,28	22,53	25,48	27,65	30,49	33,27	35,98	39,27	42,46	45,52	48,47	51,29	53,00	56,83	
1200	**14,81**	**16,81**	**19,12**	**21,55**	**23,95**	**27,08**	**29,38**	**32,37**	**35,29**	**38,12**	**41,54**	**44,82**	**47,96**	**50,94**	**52,51**	**55,00**	**57,58**	
1300	15,89	17,72	20,17	22,74	25,27	28,56	30,97	34,09	37,12	40,05	43,56	46,90	49,90	52,86	55,00	56,85	58,74	35
1400	16,31	18,56	21,14	23,84	26,48	29,92	32,42	35,65	38,77	41,76	45,32	47,34	51,03	53,09	55,65	57,44	59,45	
1440	**16,59**	**18,88**	**21,50**	**24,25**	**26,94**	**30,43**	**32,96**	**36,23**	**39,37**	**42,38**	**45,77**	**47,81**	**51,54**	**53,62**	**56,21**	**58,01**	**60,04**	
1500	16,98	19,33	22,02	24,84	27,59	31,15	33,73	37,04	40,22	43,24	46,05	48,10	51,85	53,94	56,54	57,00	60,40	
1600	17,58	20,03	22,83	25,75	28,59	32,24	34,88	38,25	41,45	44,08	46,70	48,84	52,20	54,10	56,00			
1700	18,11	20,65	23,55	26,56	29,47	33,20	35,88	39,27	42,07	44,39	47,33	49,46	52,87					40
1800	**18,57**	**21,20**	**24,18**	**27,26**	**30,23**	**34,01**	**36,71**	**40,06**	**42,78**	**44,89**	**48,47**	**50,65**	**53,45**					
1900	18,97	21,67	24,71	27,85	30,87	34,67	37,04	40,48	43,00	45,06	48,89							
2000	19,29	22,05	25,15	28,34	31,37	35,55	37,95	40,81	43,33	45.98	47,65							

RPM	Additional power (Kw) for speed ratio				
	1,01 to 1,05	1,06 to 1,26	1,27 to 1,57	1,58 to 3,38	over 3,39
100	0,02	0,14	0,20	0,25	0,26
200	0,04	0,29	0,41	0,50	0,53
300	0,07	0,43	0,61	0,75	0,79
400	0,09	0,57	0,81	1,00	1,06
500	0,11	0,72	1,02	1,25	1,32
600	0,13	0,86	1,22	1,50	1,59
700	0,15	1	1,43	1,75	1,85
720	**0,16**	**1,03**	**1,46**	**1,80**	**1,90**
800	0,17	1,15	1,63	2,00	2,11
900	0,2	1,29	1,85	2,25	2,38
960	**0,21**	**1,37**	**1,95**	**2,40**	**2,54**
1000	0,22	1,43	2,04	2,50	2,64
1100	0,24	1,57	2,24	2,75	2,91
1200	**0,26**	**1,72**	**2,44**	**3,00**	**3,17**
1300	0,28	1,86	2,65	3,25	3,44
1400	0,31	2	2,85	3,50	3,70
1440	**0,31**	**2,06**	**2,93**	**3,50**	**3,81**
1500	0,33	2,15	3,05	3,75	3,96
1600	0,35	2,29	3,26	4,00	4,23
1700	0,37	2,43	3,46	4,25	4,49
1800	**0,39**	**2,58**	**3,66**	**4,50**	**4,76**
1900	0,42	2,72	3,87	4,75	5,02
2000	0,44	2,86	4,07	5,00	5,29

Basic power for theorical 25.000 hrs belt life

FISATECH

SECTION 8V

RPM small pulley	BASIC POWER IN KW SMALL PULLEY DIAMETER														VBelt speed m/s
	315	335	355	375	400	425	450	475	500	530	560	600	670	750	
100	4,21	4,63	5,04	5,44	5,96	6,46	6,96	7,46	7,96	8,55	9,15	11,00	13,00	14,80	
200	7,80	8,58	9,36	10,13	11,09	12,05	13,00	13,95	14,88	16,01	17,13	20,00	23,50	27,00	10
300	11,13	12,26	13,38	14,50	15,89	172,88	18,64	20,01	21,36	22,98	24,58	30,00	34,20	38,30	
400	14,27	15,74	17,20	18,64	20,44	22,22	23,99	25,74	27,47	29,54	31,59	34,70	42,10	49,00	
500	17,27	19,05	20,83	22,58	24,76	26,91	29,04	31,16	33,25	35,73	38,19	43,50	51,00	58,40	20
600	20,12	22,21	24,28	26,33	28,86	31,36	33,84	36,27	38,68	41,54	45,70	51,80	59,60	67,80	
700	22,84	25,21	27,57	29,88	32,75	35,57	38,34	41,08	43,76	46,93	50,02	55,00	65,90	73,70	
720	**23,36**	**25,80**	**28,20**	**30,57**	**33,50**	**36,38**	**39,21**	**41,99**	**44,73**	**47,96**	**51,09**	**56,40**	**67,10**	**75,00**	
800	25,42	28,07	30,68	33,25	36,41	39,51	42,55	45,55	48,46	51,88	55,20	61,30	72,00	79,80	
900	27,87	30,77	33,61	36,41	39,84	43,20	46,46	49,65	52,76	56,37	59,85	67,20	76,30	89,10	30
960	**29,27**	**32,30**	**35,29**	**38,21**	**41,78**	**45,27**	**48,65**	**51,94**	**55,13**	**58,82**	**62,35**	**69,30**	**78,20**	**86,80**	
1000	30,19	33,31	36,36	39,36	43,02	46,59	50,04	53,39	56,62	60,35	63,89	71,00	79,60	88,00	
1100	30,80	35,67	38,93	42,10	45,95	49,68	53,26	56,71	60,01	65,40	69,00	74,00	82,20		
1200	31,70	37,87	41,29	44,60	48,60	52,44	56,11	59,60	64,00	67,40	72,00	75,70			
1300	32,35	39,89	43,43	46,86	50,97	54,87	57,80	61,20	66,00	69,00	73,10				35
1400	33,30	41,71	45,36	48,86	53,02	54,00	58,00	62,00	66,30	70,00					
1440	**34,25**	**42,39**	**46,06**	**49,58**	**53,80**	**56,30**	**62,80**	**66,00**	**70,00**						
1500	34,90	43,34	46,20	50,59	54,00	56,50	62,50	66,60	69,10						
1600	35,20	43,30	46,00	50,50	54,00	56,50	62,50								
1700	36,40	43,20	46,00	49,40	53,50	56,80									40
1800	37,00	43,00	45,70	49,10											
1900	37,3	42,1	45,40												
2000	37,00	41,90													

RPM	Additional power (Kw) for speed ratio				
	1,01 to 1,05	1,06 to 1,26	1,27 to 1,57	1,58 to 3,38	over 3,39
100					
200	0,08	0,3	0,67	0,88	0,94
300					
400	0,14	0,6	1,40	1,70	1,90
500					
600	0,26	1	1,80	2,60	2,70
700					
720	**0,28**	**1,6**	**2,40**	**3,20**	**3,40**
800					
900					
960	**0,31**	**2**	**2,85**	**3,90**	**4,10**
1000					
1100					
1200	0,31	2,4	3,70	4,80	5,20
1300					
1400					
1440	**0,5**	**2,7**	**4,60**	**6,00**	**6,30**
1500					
1600	0,6	3	5,00	6,60	7,00
1700					
1800	0,7	3,2	5,60	6,80	7,40
1900					
2000					

Basic power for theorical 25.000 hrs belt life

FISATECH

SECTION XPZ/3VX

RPM small pulley	BASIC POWER IN KW SMALL PULLEY DIAMETER															VBelt speed m/s
	63	67	71	75	80	85	90	95	100	106	112	118	125	132	140	
100	0,13	0,16	0,17	0,20	0,21	0,24	0,26	0,29	0,32	0,34	0,37	0,40	0,42	0,46	0,38	
200	0,24	0,28	0,32	0,36	0,40	0,45	0,49	0,53	0,58	0,63	0,69	0,74	0,79	0,86	0,70	
300	0,34	0,40	0,45	0,50	0,57	0,63	0,70	0,77	0,83	0,90	0,98	1,06	1,15	1,24	1,01	
400	0,44	0,50	0,57	0,63	0,73	0,81	0,90	0,98	1,07	1,16	1,27	1,36	1,48	1,60	1,31	
500	0,51	0,59	0,69	0,77	0,87	0,98	1,08	1,19	1,29	1,41	1,54	1,66	1,81	1,94	1,60	
600	0,59	0,70	0,79	0,90	1,02	1,15	1,27	1,39	1,52	1,66	1,81	1,95	2,13	2,28	1,88	
700	0,67	0,79	0,90	1,02	1,16	1,31	1,45	1,58	1,73	1,90	2,07	2,23	2,43	2,61	2,15	
720	**0,69**	**0,81**	**0,92**	**1,04**	**1,19**	**1,33**	**1,48**	**1,62**	**1,77**	**1,94**	**2,11**	**2,28**	**2,48**	**2,68**	**2,20**	10
800	0,74	0,87	1,00	1,14	1,31	1,47	1,62	1,78	1,94	2,14	2,32	2,51	2,73	2,94	2,42	
900	0,82	0,96	1,11	1,25	1,44	1,61	1,80	1,97	2,15	2,36	2,57	2,79	3,02	3,26	2,68	
960	**0,86**	**1,02**	**1,16**	**1,32**	**1,52**	**1,70**	**1,90**	**2,09**	**2,27**	**2,49**	**2,72**	**2,94**	**3,19**	**3,46**	**2,84**	
1000	0,88	1,04	1,20	1,37	1,57	1,77	1,97	2,15	2,35	2,59	2,81	3,05	3,31	3,58	2,94	
1100	0,95	1,12	1,31	1,48	1,69	1,91	2,13	2,34	2,55	2,80	3,06	3,30	3,59	3,88	3,19	
1200	**1,02**	**1,20**	**1,40**	**1,58**	**1,82**	**2,06**	**2,28**	**2,52**	**2,75**	**3,02**	**3,29**	**3,56**	**3,88**	**4,18**	**3,44**	
1300	1,08	1,28	1,49	1,69	1,94	2,19	2,44	2,69	2,94	3,23	3,52	3,81	4,14	4,49	3,68	
1400	1,14	1,36	1,57	1,80	2,06	2,34	2,60	2,86	3,13	3,45	3,75	4,07	4,42	4,78	3,92	
1440	**1,16**	**1,39**	**1,61**	**1,83**	**2,11**	**2,39**	**2,65**	**2,93**	**3,19**	**3,52**	**3,84**	**4,16**	**4,53**	**4,90**	**4,02**	
1500	1,20	1,43	1,66	1,89	2,18	2,47	2,75	3,04	3,31	3,64	3,97	4,30	4,69	5,06	4,16	
1600	1,25	1,50	1,74	1,99	2,30	2,60	2,90	3,19	3,50	3,84	4,20	4,54	4,95	5,35	4,39	
1700	1,31	1,57	1,83	2,09	2,42	2,73	3,05	3,37	3,67	4,04	4,41	4,78	5,20	5,62	4,62	
1800	**1,36**	**1,64**	**1,91**	**2,19**	**2,52**	**2,86**	**3,19**	**3,52**	**3,85**	**4,24**	**4,62**	**5,02**	**5,45**	**5,89**	**4,84**	
1900	1,41	1,70	1,99	2,28	2,63	2,98	3,33	3,68	4,03	4,44	4,83	5,24	5,70	6,16	5,06	
2000	1,47	1,77	2,07	2,38	2,75	3,10	3,47	3,83	4,20	4,62	5,04	5,46	5,94	6,42	5,27	20
2100	1,52	1,83	2,15	2,46	2,85	3,23	3,60	3,99	4,36	4,80	5,24	5,68	6,18	6,68	5,48	
2200	1,57	1,90	2,22	2,55	2,96	3,35	3,75	4,13	4,53	4,99	5,44	5,90	6,42	6,93	5,69	
2300	1,61	1,95	2,30	2,64	3,05	3,47	3,88	4,29	4,69	5,16	5,64	6,11	6,64	7,18	5,89	
2400	**1,66**	**2,02**	**2,38**	**2,72**	**3,15**	**3,58**	**4,01**	**4,44**	**4,84**	**5,35**	**5,83**	**6,31**	**6,86**	**7,42**	**6,09**	
2500	1,70	2,07	2,44	2,80	3,25	3,70	4,13	4,57	5,00	5,52	6,02	6,52	7,09	7,66	6,28	
2600	1,76	2,14	2,51	2,89	3,35	3,80	4,26	4,71	5,16	5,69	6,20	6,72	7,31	7,88	6,47	
2700	1,80	2,19	2,57	2,97	3,45	3,92	4,38	4,84	5,31	5,85	6,39	6,92	7,51	8,12	6,65	
2800	1,83	2,24	2,64	3,05	3,54	4,03	4,50	4,99	5,45	6,01	6,56	7,10	7,72	8,33	6,83	
2880	**1,87**	**2,28**	**2,69**	**3,10**	**3,60**	**4,11**	**4,61**	**5,10**	**5,57**	**6,14**	**6,71**	**7,25**	**7,88**	**8,50**	**6,97**	
2900	1,87	2,30	2,71	3,12	3,63	4,13	4,62	5,12	5,60	6,18	6,73	7,29	7,92	8,55	7,00	
3000	1,91	2,35	2,77	3,19	3,72	4,24	4,74	5,24	5,74	6,32	6,90	7,47	8,12	8,75	7,17	
3100	1,95	2,40	2,84	3,27	3,80	4,33	4,86	5,37	5,87	6,48	7,08	7,66	8,32	8,96	7,33	30
3200	1,99	2,44	2,89	3,34	3,89	4,44	4,96	5,49	6,02	6,63	7,23	7,83	8,50	9,16	7,49	
3300	2,03	2,49	2,96	3,41	3,97	4,53	5,08	5,62	6,15	6,77	7,39	8,00	8,69	9,35	7,65	
3400	2,06	2,53	3,01	3,48	4,05	4,62	5,19	5,74	6,28	6,92	7,55	8,16	8,86	9,54	7,80	
3500	2,10	2,59	3,06	3,55	4,13	4,71	5,29	5,85	6,40	7,06	7,70	8,32	9,03	9,72	7,94	

RPM	Additional power (Kw) for speed ratio				
	1,01 to 1,05	1,06 to 1,26	1,27 to 1,57	1,58 to 3,38	over 3,39
100	0,00	0,01	0,01	0,02	0,02
200	0,00	0,02	0,02	0,03	0,03
300	0,00	0,03	0,04	0,05	0,05
400	0,01	0,03	0,05	0,06	0,06
500	0,01	0,04	0,06	0,08	0,08
600	0,01	0,05	0,07	0,09	0,10
700	0,01	0,06	0,09	0,11	0,11
720	**0,01**	**0,06**	**0,09**	**0,11**	**0,12**
800	0,01	0,07	0,10	0,12	0,13
900	0,01	0,08	0,11	0,14	0,14
960	**0,01**	**0,08**	**0,12**	**0,15**	**0,15**
1000	0,01	0,09	0,12	0,15	0,16
1100	0,01	0,10	0,14	0,17	0,18
1200	**0,02**	**0,10**	**0,15**	**0,18**	**0,19**
1300	0,02	0,11	0,16	0,20	0,21
1400	0,02	0,12	0,17	0,21	0,23
1440	**0,02**	**0,13**	**0,18**	**0,22**	**0,23**
1500	0,02	0,13	0,19	0,23	0,24
1600	0,02	0,14	0,20	0,24	0,26
1700	0,02	0,15	0,21	0,26	0,27
1800	**0,02**	**0,16**	**0,22**	**0,27**	**0,29**
1900	0,03	0,17	0,24	0,29	0,31
2000	0,03	0,17	0,25	0,30	0,32
2100	0,03	0,18	0,26	0,32	0,34
2200	0,03	0,19	0,27	0,33	0,35
2300	0,03	0,20	0,29	0,35	0,37
2400	**0,03**	**0,21**	**0,30**	**0,36**	**0,39**
2500	0,03	0,22	0,31	0,38	0,40
2600	0,04	0,23	0,32	0,40	0,42
2700	0,04	0,24	0,33	0,41	0,43
2800	0,04	0,24	0,35	0,43	0,45
2880	**0,04**	**0,25**	**0,36**	**0,44**	**0,45**
2900	0,04	0,25	0,36	0,44	0,47
3000	0,04	0,26	0,37	0,46	0,48
3100	0,04	0,27	0,38	0,47	0,50
3200	0,04	0,28	0,40	0,49	0,51
3300	0,04	0,29	0,41	0,50	0,53
3400	0,05	0,30	0,42	0,52	0,55
500	0,05	0,31	0,43	0,53	0,56

Basic power for theorical 25.000 hrs belt life

FISATECH

SECTION XPA

RPM small pulley	BASIC POWER IN KW SMALL PULLEY DIAMETER													VBelt speed m/s
	90	95	100	106	112	118	125	132	140	150	160	180	200	
100	0,30	0,36	0,40	0,44	0,49	0,54	0,59	0,65	0,71	0,79	0,87	1,03	1,19	
200	0,55	0,62	0,70	0,79	0,90	0,99	1,10	1,20	1,32	1,48	1,62	1,93	2,22	
300	0,77	0,87	0,99	1,12	1,25	1,40	1,56	1,70	1,89	2,11	2,32	2,76	3,19	
400	0,95	1,11	1,25	1,43	1,61	1,78	1,99	2,19	2,43	2,71	3,00	3,56	4,13	
500	1,14	1,32	1,50	1,73	1,94	2,15	2,40	2,65	2,94	3,29	3,64	4,34	5,03	10
600	1,31	1,53	1,74	2,01	2,26	2,51	2,81	3,10	3,45	3,85	4,28	5,10	5,90	
700	1,48	1,73	1,97	2,27	2,56	2,86	3,19	3,54	3,92	4,41	4,88	5,82	6,76	
720	**1,50**	**1,77**	**2,02**	**2,32**	**2,63**	**2,93**	**3,27**	**3,63**	**4,03**	**4,51**	**5,00**	**5,97**	**6,92**	
800	1,64	1,91	2,19	2,53	2,86	3,19	3,58	3,96	4,40	4,94	5,48	6,53	7,58	
900	1,78	2,10	2,40	2,79	3,15	3,52	3,95	4,37	4,86	5,45	6,05	7,23	8,40	
960	**1,86**	**2,20**	**2,53**	**2,90**	**3,31**	**3,71**	**4,16**	**4,62**	**5,12**	**5,76**	**6,39**	**7,64**	**8,87**	
1000	1,93	2,27	2,61	3,02	3,43	3,84	4,30	4,78	5,31	5,97	6,61	7,91	9,17	
1100	2,06	2,44	2,81	3,26	3,70	4,14	4,66	5,16	5,74	6,45	7,17	8,57	9,94	
1200	**2,19**	**2,60**	**3,00**	**3,48**	**3,96**	**4,45**	**4,99**	**5,54**	**6,16**	**6,94**	**7,71**	**9,21**	**10,69**	
1300	2,32	2,76	3,19	3,71	4,22	4,74	5,33	5,91	6,59	7,41	8,22	9,85	11,42	
1400	2,44	2,90	3,37	3,92	4,47	5,02	5,65	6,28	7,00	7,87	8,74	10,45	12,13	20
1440	**2,48**	**2,97**	**3,45**	**4,01**	**4,57**	**5,13**	**5,78**	**6,43**	**7,15**	**8,05**	**8,95**	**10,69**	**12,41**	
1500	2,56	3,05	3,55	4,13	4,71	5,29	5,97	6,64	7,39	8,32	9,24	11,05	12,82	
1600	2,67	3,19	3,71	4,34	4,95	5,57	6,27	6,98	7,77	8,76	9,73	11,63	13,48	
1700	2,77	3,33	3,88	4,54	5,19	5,83	6,57	7,31	8,16	9,19	10,20	12,20	14,12	
1800	**2,88**	**3,46**	**4,04**	**4,73**	**5,41**	**6,09**	**6,86**	**7,64**	**8,51**	**9,60**	**10,67**	**12,74**	**14,76**	
1900	2,97	3,59	4,20	4,91	5,62	6,34	7,15	7,96	8,88	10,01	11,11	13,27	15,35	
2000	3,08	3,71	4,34	5,10	5,83	6,57	7,43	8,28	9,23	10,40	11,55	13,78	15,93	
2100	3,17	3,83	4,49	5,27	6,05	6,81	7,70	8,58	9,57	10,78	11,97	14,28	16,49	
2200	3,25	3,95	4,62	5,44	6,24	7,05	7,96	8,87	9,89	11,15	12,38	14,76	17,03	
2300	3,33	4,05	4,77	5,61	6,44	7,26	8,22	9,16	10,22	11,51	12,78	15,22	17,53	
2400	**3,41**	**4,16**	**4,88**	**5,77**	**6,63**	**7,48**	**8,46**	**9,42**	**10,52**	**11,85**	**13,15**	**15,66**	**18,02**	
2500	3,48	4,25	5,02	5,91	6,81	7,70	8,70	9,70	10,81	12,18	13,52	16,06	18,47	
2600	3,55	4,34	5,13	6,06	6,98	7,89	8,94	9,95	11,10	12,50	13,86	16,47	18,90	
2700	3,62	4,44	5,25	6,20	7,15	8,08	9,15	10,20	11,38	12,82	14,20	16,84	19,31	
2800	3,68	4,53	5,36	6,35	7,31	8,26	9,36	10,44	11,64	13,11	14,52	17,20	19,68	30
2880	**3,74**	**4,59**	**5,44**	**6,44**	**7,44**	**8,41**	**9,53**	**10,63**	**11,84**	**13,33**	**14,77**	**17,48**	**-**	
2900	3,75	4,61	5,46	6,47	7,47	8,45	9,57	10,67	11,89	13,38	14,82	17,54	-	
3000	3,80	4,69	5,56	6,60	7,62	8,62	9,77	10,89	12,14	13,65	15,11	17,86	-	
3100	3,85	4,75	5,66	6,72	7,76	8,78	9,95	11,10	12,37	13,91	15,38	18,15	-	
3200	3,89	4,83	5,74	6,82	7,89	8,94	10,14	11,30	12,59	14,15	15,64	-	-	
3300	3,93	4,88	5,83	6,93	8,03	9,08	10,30	11,48	12,79	14,37	15,88	-	-	
3400	3,97	4,95	5,91	7,04	8,14	9,23	10,45	11,66	12,99	14,59	16,09	-	-	
3500	4,01	5,00	5,98	7,13	8,26	9,36	10,61	11,83	13,17	14,77	16,30	-	-	

RPM	Additional power (Kw) for speed ratio				
	1,01 to 1,05	1,06 to 1,26	1,27 to 1,57	1,58 to 3,38	over 3,39
100	0,00	0,02	0,03	0,04	0,04
200	0,01	0,04	0,06	0,08	0,08
300	0,01	0,07	0,10	0,12	0,12
400	0,01	0,09	0,13	0,16	0,16
500	0,02	0,11	0,16	0,19	0,21
600	0,02	0,13	0,19	0,23	0,25
700	0,02	0,16	0,22	0,27	0,29
720	**0,02**	**0,16**	**0,23**	**0,28**	**0,30**
800	0,03	0,18	0,25	0,31	0,33
900	0,03	0,20	0,29	0,35	0,37
960	**0,03**	**0,21**	**0,30**	**0,37**	**0,40**
1000	0,03	0,22	0,32	0,39	0,41
1100	0,04	0,25	0,35	0,43	0,45
1200	**0,04**	**0,27**	**0,38**	**0,47**	**0,49**
1300	0,04	0,29	0,41	0,51	0,54
1400	0,05	0,31	0,44	0,54	0,58
1440	**0,05**	**0,32**	**0,46**	**0,56**	**0,59**
1500	0,05	0,34	0,48	0,58	0,62
1600	0,06	0,36	0,51	0,62	0,66
1700	0,06	0,38	0,54	0,66	0,70
1800	**0,06**	**0,40**	**0,57**	**0,70**	**0,74**
1900	0,07	0,43	0,60	0,74	0,78
2000	0,07	0,45	0,64	0,78	0,82
2100	0,07	0,47	0,67	0,82	0,87
2200	0,08	0,49	0,70	0,86	0,91
2300	0,08	0,51	0,73	0,90	0,95
2400	**0,08**	**0,54**	**0,76**	**0,93**	**0,99**
2500	0,09	0,56	0,79	0,97	1,03
2600	0,09	0,58	0,83	1,01	1,07
2700	0,09	0,60	0,86	1,05	1,11
2800	0,10	0,63	0,89	1,09	1,15
2880	**0,10**	**0,64**	**0,91**	**1,12**	**1,19**
2900	0,10	0,65	0,92	1,13	1,20
3000	0,10	0,67	0,95	1,17	1,24
3100	0,11	0,69	0,98	1,21	1,28
3200	0,11	0,72	1,02	1,25	1,32
3300	0,11	0,74	1,05	1,28	1,36
3400	0,12	0,76	1,08	1,32	1,40
3500	0,12	0,78	1,11	1,36	1,44

Basic power for theorical 25.000 hrs belt life

FISATECH

XPB/5VX

RPM small pulley	BASIC POWER IN KW SMALL PULLEY DIAMETER											VBelt speed m/s
	160	170	180	190	200	212	224	236	250	280	315	
100	1,11	1,23	1,35	1,48	1,60	1,74	1,89	1,91	2,19	2,56	2,97	
200	2,02	2,26	2,49	2,72	2,96	3,23	3,51	3,78	4,09	4,78	5,56	
300	2,86	3,21	3,55	3,88	4,22	4,62	5,03	5,43	5,89	6,86	8,00	10
400	3,66	4,11	4,55	4,99	5,43	5,95	6,47	6,98	7,35	8,87	10,34	
500	4,42	4,96	5,50	6,05	6,59	7,22	7,87	8,50	9,23	10,80	12,58	
600	5,15	5,79	6,43	7,08	7,70	8,46	9,20	9,95	10,81	12,65	14,74	
700	5,85	6,59	7,33	8,05	8,78	9,65	10,51	11,37	12,36	14,44	16,83	
720	**5,99**	**6,75**	**7,50**	**8,25**	**8,99**	**9,89**	**10,76**	**11,64**	**12,65**	**14,80**	**17,24**	
800	6,53	7,37	8,18	9,02	9,83	10,80	11,76	12,72	13,83	16,18	18,85	
900	7,18	8,10	9,03	9,94	10,84	11,92	12,99	14,04	15,27	17,86	20,78	
960	**7,56**	**8,54**	**9,52**	**10,48**	**11,43**	**12,57**	**13,70**	**14,82**	**16,10**	**18,82**	**21,91**	20
1000	7,81	8,83	9,83	10,84	11,83	13,00	14,16	15,33	16,66	19,47	22,64	
1100	8,43	9,53	10,63	11,71	12,78	14,04	15,31	16,55	17,99	21,01	24,42	
1200	**9,02**	**10,20**	**11,38**	**12,54**	**13,70**	**15,06**	**16,42**	**17,75**	**19,29**	**22,51**	**26,00**	
1300	9,60	10,86	12,12	13,36	14,59	16,04	17,48	18,90	20,53	23,93	27,71	
1400	10,15	11,50	12,83	14,14	15,44	16,99	18,51	20,00	21,71	25,28	29,22	
1440	**10,36**	**11,73**	**13,11**	**14,45**	**15,77**	**17,36**	**18,90**	**20,43**	**22,18**	**25,81**	**29,79**	
1500	10,68	12,10	13,52	14,90	16,28	17,90	19,48	21,05	22,85	26,56	30,64	30
1600	11,19	12,70	14,18	15,63	17,07	18,77	20,43	22,07	23,93	27,77	31,96	
1700	11,68	13,25	14,81	16,33	17,83	19,60	21,33	23,02	24,95	28,91	33,16	
1800	**12,16**	**13,79**	**15,42**	**17,00**	**18,56**	**20,39**	**22,19**	**23,93**	**25,92**	**29,96**	**34,27**	
1900	12,62	14,32	16,00	17,64	19,25	21,15	22,99	24,79	26,82	30,94		
2000	13,04	14,81	16,55	18,24	19,91	21,86	23,75	25,59	27,67	31,83		
2100	13,45	15,29	17,07	18,82	20,53	22,53	24,46	26,33	28,43			
2200	13,85	15,73	17,57	19,36	21,12	23,15	25,13	27,02	29,15			
2300	14,22	16,14	18,03	19,88	21,66	23,73	25,74	27,65				
2400	**14,56**	**16,54**	**18,48**	**20,35**	**22,16**	**24,27**	**26,29**	**28,22**				
2500	14,88	16,91	18,88	20,79	22,64	24,76	26,80					
2600	15,18	17,25	19,26	21,20	23,06	25,20						
2700	15,46	17,57	19,60	21,56	23,44	25,59						
2800	15,71	17,85	19,91	21,89	23,77							
2880	**15,89**	**18,06**	**20,13**	**22,12**								
2900	15,93	18,10	20,18	22,18								
3000	16,13	18,33	20,42	22,43								

RPM	Additional power (Kw) for speed ratio				
	1,01 to 1,05	1,06 to 1,26	1,27 to 1,57	1,58 to 3,38	over 3,39
100	0,01	0,04	0,07	0,08	0,08
200	0,01	0,09	0,13	0,16	0,17
300	0,02	0,14	0,20	0,24	0,25
400	0,03	0,19	0,26	0,32	0,34
500	0,04	0,23	0,33	0,40	0,43
600	0,04	0,28	0,40	0,48	0,51
700	0,05	0,33	0,46	0,57	0,59
720	**0,05**	**0,33**	**0,53**	**0,59**	**0,62**
800	0,06	0,37	0,53	0,65	0,69
900	0,07	0,42	0,60	0,72	0,77
960	**0,07**	**0,44**	**0,62**	**0,77**	**0,81**
1000	0,07	0,46	0,66	0,81	0,86
1100	0,08	0,51	0,72	0,89	0,94
1200	**0,09**	**0,56**	**0,79**	**0,97**	**1,03**
1300	0,09	0,60	0,86	1,05	1,11
1400	0,10	0,65	0,93	1,13	1,20
1440	**0,10**	**0,66**	**0,94**	**1,15**	**1,21**
1500	0,10	0,69	0,99	1,21	1,28
1600	0,11	0,75	1,05	1,29	1,37
1700	0,12	0,79	1,12	1,37	1,45
1800	**0,13**	**0,84**	**1,19**	**1,45**	**1,54**
1900	0,13	0,88	1,25	1,54	1,63
2000	0,14	0,93	1,32	1,62	1,71
2100	0,15	0,98	1,39	1,69	1,79
2200	0,16	1,02	1,45	1,78	1,88
2300	0,16	1,07	1,51	1,86	1,97
2400	**0,17**	**1,11**	**1,58**	**1,94**	**2,05**
2500	0,18	1,16	1,65	2,02	2,14
2600	0,19	1,21	1,72	2,10	2,22
2700	0,19	1,25	1,78	2,18	2,31
2800	0,20	1,29	1,84	2,26	2,39
2880	**0,20**	**1,32**	**1,88**	**2,31**	**2,44**
2900	0,21	1,34	1,91	2,34	2,48
3000	0,22	1,39	1,98	2,42	2,57

Basic power for theorical 25.000 hrs belt life

FISATECH

XPC

RPM small pulley	BASIC POWER IN KW SMALL PULLEY DIAMETER																	VBelt speed m/s
	224	236	250	265	280	300	315	335	355	375	400	425	450	475	500	530	560	
100	2,43	2,68	2,99	3,32	3,65	4,07	4,39	4,83	5,26	5,67	5,90	6,40	6,90	7,40	7,89	8,48	9,07	
200	4,38	4,88	5,47	6,09	6,70	7,53	8,14	8,94	9,76	10,57	11,00	11,95	12,89	13,83	14,76	15,87	16,98	10
300	6,15	6,88	7,72	8,63	9,53	10,71	11,60	12,79	13,96	15,12	15,75	171,40	18,48	19,84	21,18	22,78	24,37	
400	7,81	8,75	9,85	11,03	12,19	13,74	14,88	16,41	17,93	19,43	20,27	22,03	23,78	25,52	27,24	29,29	31,32	
500	9,36	10,52	11,86	13,30	14,71	16,60	18,01	19,86	21,72	23,55	24,55	26,68	28,79	30,89	32,97	35,43	37,86	20
600	10,82	12,19	13,76	15,45	17,13	19,34	20,98	23,16	25,32	27,45	28,62	31,09	33,55	35,96	38,35	41,18	78,75	
700	12,20	13,77	15,58	17,51	19,42	21,94	23,81	26,29	28,74	31,16	32,47	35,26	38,01	40,73	43,38	46,53	49,59	
720	**12,47**	**14,08**	**15,93**	**17,91**	**19,86**	**22,45**	**24,36**	**26,90**	**29,40**	**31,88**	**33,21**	**36,06**	**38,87**	**41,63**	**44,35**	**47,55**	**50,66**	
800	13,52	15,27	17,31	19,46	21,61	24,42	26,51	29,27	31,99	34,67	36,10	39,17	42,19	45,16	48,05	51,43	54,73	30
900	14,76	16,70	18,95	21,33	23,68	26,78	29,06	32,09	35,05	37,97	39,50	42,83	46,06	49,23	52,30	55,89	59,33	
960	**15,47**	**17,52**	**16,23**	**22,39**	**24,86**	**28,12**	**30,52**	**33,68**	**36,80**	**39,85**	**41,42**	**44,88**	**48,23**	**51,49**	**54,66**	**58,31**	**61,82**	
1000	15,93	18,04	20,50	23,08	25,64	29,00	31,48	34,73	37,92	41,04	42,65	46,19	49,61	52,93	56,13	59,83	63,35	
1100	17,03	19,31	21,96	24,74	27,49	31,09	33,73	37,20	40,59	43,90	45,55	49,25	52,80	56,23	59,50	61,48	65,92	
1200	**18,07**	**20,51**	**23,33**	**26,29**	**29,22**	**33,04**	**35,84**	**39,49**	**43,05**	**46,51**	**48,19**	**51,99**	**55,63**	**59,09**	**60,91**	**63,80**	**66,79**	
1300	19,39	21,62	24,61	27,74	30,83	34,84	37,78	41,59	45,29	48,86	50,53	54,40	57,88	61,32	63,80	65,95	68,14	35
1400	19,90	22,64	25,79	29,08	32,31	36,50	39,55	43,49	47,30	50,95	52,57	54,91	59,19	61,58	64,55	66,63	68,96	
1440	**20,24**	**23,03**	**26,23**	**29,59**	**32,87**	**37,12**	**40,21**	**44,20**	**48,03**	**51,70**	**53,10**	**55,46**	**59,79**	**62,20**	**65,20**	**67,30**	**69,65**	
1500	20,72	23,58	26,86	30,30	33,66	38,00	41,15	45,19	49,07	52,75	53,41	55,79	60,14	62,57	65,59	66,12	70,07	
1600	21,45	24,44	27,85	31,42	34,88	39,33	42,55	46,67	50,57	53,78	54,17	56,65	60,55	62,76	64,96			
1700	22,09	25,19	28,73	32,40	35,95	40,50	43,77	47,91	51,33	54,16	54,90	57,37	61,33					
1800	**22,66**	**25,86**	**29,50**	**33,26**	**36,88**	**41,49**	**44,79**	**48,87**	**52,19**	**54,77**	**56,23**	**58,75**	**62,00**					40
1900	23,14	26,44	30,15	33,98	37,66	42,30	45,19	49,38	52,46	54,97	56,72							
2000	23,53	26,90	30,68	34,57	38,27	43,37	46,30	49,79	52,86	56,10	55,27							

RPM	Additional power (Kw) for speed ratio				
	1,01 to 1,05	1,06 to 1,26	1,27 to 1,57	1,58 to 3,38	over 3,39
100	0,02	0,14	0,20	0,25	0,26
200	0,04	0,29	0,41	0,50	0,53
300	0,07	0,43	0,61	0,75	0,79
400	0,09	0,57	0,81	1,00	1,06
500	0,11	0,72	1,02	1,25	1,32
600	0,13	0,86	1,22	1,50	1,59
700	0,15	1	1,43	1,75	1,85
720	**0,16**	**1,03**	**1,46**	**1,80**	**1,90**
800	0,17	1,15	1,63	2,00	2,11
900	0,2	1,29	1,85	2,25	2,38
960	**0,21**	**1,37**	**1,95**	**2,40**	**2,54**
1000	0,22	1,43	2,04	2,50	2,64
1100	0,24	1,57	2,24	2,75	2,91
1200	**0,26**	**1,72**	**2,44**	**3,00**	**3,17**
1300	0,28	1,86	2,65	3,25	3,44
1400	0,31	2	2,85	3,50	3,70
1440	**0,31**	**2,06**	**2,93**	**3,50**	**3,81**
1500	0,33	2,15	3,05	3,75	3,96
1600	0,35	2,29	3,26	4,00	4,23
1700	0,37	2,43	3,46	4,25	4,49
1800	**0,39**	**2,58**	**3,66**	**4,50**	**4,76**
1900	0,42	2,72	3,87	4,75	5,02
2000	0,44	2,86	4,07	5,00	5,29

Basic power for theorical 25.000 hrs belt life

FISATECH

BELTS TENSIONING

Tipe	Small pulley diameter mm	Static tensioning per span [N]			
		wrapped belts		raw edge belts	
		first tensioning	operating tension	first tensioning	operating tensioning
SPZ - XPZ 3V - 3VX	< 71	200	150	250	200
	71 > 90	250	200	300	250
	90 > 125	300	250	350	300
	over	to be calculated			
SPA XPA	< 100	350	250	400	300
	100 > 140	400	300	500	400
	140 > 200	500	400	600	450
	over	to be calculated			
SPB - XPB 5V - 5VX	< 160	650	500	700	550
	160 > 224	700	550	850	650
	224 > 355	900	700	1000	800
	over	to be calculated			
SPC XPC	< 250	1000	800	1400	1100
	250 > 355	1400	1100	1600	1200
	355 > 560	1800	1400	1900	1500
	over	to be calculated			
Z ZX	< 50	90	70	120	90
	50 > 71	120	90	140	110
	71 > 100	140	110	160	130
	over	to be calculated			
A AX	< 80	150	110	200	150
	80 > 100	200	150	250	200
	100 > 132	300	250	400	300
	over	to be calculated			
B BX	< 125	300	250	450	350
	125 > 160	400	350	500	400
	160 > 200	500	400	600	450
	over	to be calculated			
C CX	< 200	700	500	800	600
	200 > 250	800	600	900	700
	250 > 355	900	700	1000	800
	over	to be calculated			

Tipe	Small pulley diameter mm	Static tensioning per rib [N]			
		PolyV PJ		PolyV PL	
		first tensioning	operating tension	first tensioning	operating tension
PolyV	< 40	50	38		
	40 > 80	50	38	130	100
	80 > 132	62	50	165	130
	132 > 200	to be calculated		140	180
	over	to be calculated		to be calculated	

The values shown are approximate, provided in the absence of a complete calculation of the transmission and refer to the maximum power rating of the belt

FISATECH

INSTALLATION ADVICE

It is generally advisable to use drives with adjustable wheelbase.
The fixed distances automatically require an idler pulley tensioner:In the case of adjustable axes (engine or machine on a sliding base is advisable that the real distance between the axes can be shortened or elongated, so as to allow the mounting and tensioning of the belts .

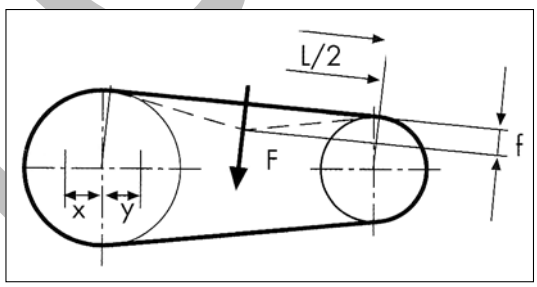
$x + y = 0{,}045\ L$ $x = 0{,}030L;\ y = 0{,}015\ L$

If the distance is fixed, the tensioner must have sufficient, slack taking into account the above advice.

PULLEY PARALLEL DEVIATION
Any out of parallel deviation = max 0,5% of the centre distance

BELT TENSIONING

Method of deflection.
A method to be used in preference to the transmissions of low power or with a short centre distance.Fit the belts on pulleys aligned correctly. Slide the engine or apply the tensioner until the two branches are no longer loose. Tensioning the belts gradually by turning the transmission of a few turns after each shot and measuring belt deflection f at the center of span ; the deflection obtained at the span center under the deflection force F calculated and exerted perpendicularly to the belt.



Method of stretching.
To be used in preference to the transmission of high powerand large centre distances, or transmission with multiband belts .Mount the belts on pulleys aligned correctly. Slide the engine or apply the tensioner until the two branches are no more loose. Put on the back of the belt two transverse lines as far as possible from one another, but always on the same span of the belt. Gradually tighten the belts by turning the transmission of some turns after each shot until the length of tension between the two lines increases the percentage as specified in the table below.
Example: initial centre distance of 1000 mm between the two lines turn in 1006 mm (+ 0,6%), 1008 mm (+ 0,8%) o 1010 mm (+ 1%)

		torque or resistance uniforms	torque or resistance variables	torque or resistance highly variable
medium extension in %	Narrow Vbelt	0,6	0,8	1
	Classical Vbelt	0,5	0,6	0,8

The values of elongation in% shown in this table, and those obtained as a result of the formulas to calculate deflection force, are effective values of service. Therefore, taking into account variations due to the break-in, it is advisable to retension belts after a few hours of service in order to return to the initial value of elongation A%, or deflection force - to ensure reliable operation of the transmission.

FISATECH

DURING OF LIFE

THEORY

When a belt transmits power , the tension cable are subject to a number of efforts :

- the tractive effort on the torque to be transmitted ;
- a tensile stress due to centrifugal force , which tends to bring out the belt from the throat ;
- a tensile stress complementary , due to the tension of the assembly, which is necessary to avoid an abnormal slipping during the service ;
- a tensile stress caused by the bending of the belt in the instant when they enter into the pulley grooves .

It is the cyclic repetition of these tensile stresses that generates a fatigue of service , to consider when we calculate the gross transmitted powers. This statement is based on the following:

We can assume that a belt with a certain length travels a certain distance and at certain speed. We add a notion of wear rate , that is a theoretical speed at which a belt with a given length is consumed . From this speed and known distance, we can deduce the work time, or in other words , the theoretical time of during of life .The transmissible powers indicated in mentioned tables are referred to a life of 25 000 hours.

CHOOSING A TRANSMISSION

- Considering these theoretical notions, be sure to apply the proper service factor to the power to be transmitted. In fact, it is precisely this element of service which gives you the ability to move from theory to practice, because it is dependent on the specific characteristics of the transmission (eg, number of starts, irregularities in the operation, external influences, ...)
- It is very important to remember that the bending stress due to the winding on the smaller pulley, is particularly damaging to the longevity of the belt. Therefore, you should always use the pulley diameters as big as possible, and never less than the minimum diameters indicated.

TENSION

In addition to checking that the shafts are parallel and that the transmission is properly aligned, it is also very important for life of belts, apply the correct tension. Insufficient tension results in slippage with overheating and consequent damage to the belts or limits the ability to absorb torque peaks to which the transmission is subject.

WARNING! Tension mounting or stretching does not remain constant during the initial service. The belts fit and have a variable elongation during their useful life

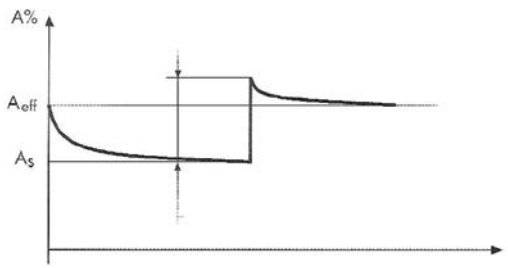
TENSIONING VALUE- or elongation indicated on the following pages , are always tension or elongation in standard conditions of speed.

BREAK-IN PERIOD

Since the sides of the belt fit the pulley grooves and since the components are stabilized during the service, the mounting tension will decrease.

During the first few minutes of operation , there is an elongation of the belt higher than the actual elongation of the cables .

From the moment when the belt begins to move , the elongation mounting decreases again , because the belts will fit, and then they find a stable value which corresponds to 60-70% of the original value. Tension the belt after a break-in period of a few hours , applying a tension force additional 50 to 60 % of the value initially applied. There will be a new loss of tension, before stabilizing the value of effective elongation (Aeff) required. Graph shows the evolution of elongation in the process of re-tensioning described above.



FISATECH

POLYV BELTS

The ribbed belt combines high flexibility and lightness of flat belts and friction of V-belts, and thanks to the specific shape of the ribs ensures a high capacity of power transmission . The width of the belt can be adjusted changing the ribs number , in relation to the power to be transmitted. In this way you get a single belt which allows to optimize the dimensions. The vibrations are limited and the use of configurations in groups of belts is avoided. The PolyV belts are used in transmissions at high speed and with extremely small diameters of the pulleys

General Features:

Upper layer with textile reinforcement that supports very small pulley and allows an auxiliary drive on the back.

- High-strength cables, designed to transmit high power with lo
- High-grip compound, grooved longitudinally, which develops a big contact area .
  Excellent resistance to mineral oils and temperatures between -30 ° C and +60 ° C (+80 ° C for short periods).
- Fit the pulleys profile H, J, K, L and M defined by the RMA IP-26, DIN 7867 and ASAE S 211.5.Norms

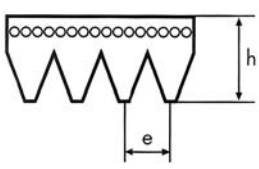
Dimensional data:

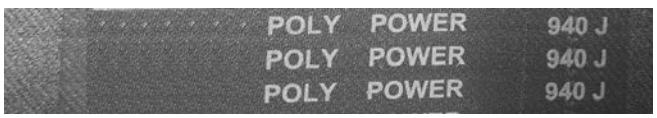
TYPE		H	J	K	L	M
Pitch e	(mm)	1,60	2,34	3,56	4,70	9,40
Height h	(mm)	3,0	3,7	6,0	9,5	16,5
Weight	(gr/mt/rib)	5,9	9,2	20	30,9	124,1
Minim pulley diam	(mm)	13	20	40	75	180
DMinim. idler diam	(mm)	32	45	70	140	300

Polyv belts code as follow :

940 J The number expresses the length (mm) measured at the top of the pulleys, in correspondence to the hollow part of the grooves of the belt, which is almost corresponding to the pitch length Lp. The letter corresponds to the pitch between two adjacent ribs

* in any case size may be in tenths of inch





FISATECH

POLYPOWER PJ

RPM small pulley	BASIC POWER IN W DATUM DIAMETER SMALL PULLEY											Belt speed m/s
	20	24	26	28	30	34	38	42	48	53	56	
100	3	5	6	7	8	9	11	13	16	18	19	
300	7	12	15	17	20	25	30	34	42	48	51	
400	8	15	18	22	25	31	38	44	54	61	66	
500	10	18	22	26	30	38	46	54	65	75	80	
720	**12**	**24**	**29**	**35**	**41**	**52**	**63**	**74**	**90**	**103**	**111**	
870	13	27	34	40	47	60	73	86	105	121	130	
950	14	29	36	43	51	65	79	93	114	130	141	
1200	**15**	**33**	**42**	**51**	**59**	**76**	**93**	**110**	**135**	**155**	**167**	10
1450	**17**	**39**	**49**	**60**	**71**	**91**	**112**	**133**	**166**	**188**	**202**	
1750	**18**	**44**	**57**	**69**	**82**	**106**	**131**	**155**	**191**	**220**	**238**	
2000	19	48	72	76	91	118	146	173	213	246	266	
2200	19	51	67	82	97	128	158	187	231	267	288	
2400	**20**	**54**	**71**	**87**	**104**	**137**	**169**	**201**	**248**	**287**	**310**	
2850	**20**	**60**	**79**	**99**	**118**	**156**	**194**	**231**	**286**	**331**	**357**	
3000	20	62	82	102	123	163	202	241	298	345	373	
3200	20	64	86	107	129	171	212	253	314	363	393	
3450	19	67	90	113	136	181	225	269	334	386	417	
3800	19	70	95	121	145	194	243	290	360	417	451	
4200	18	74	101	129	156	209	262	314	390	451	488	20
4800		79	110	140	171	231	289	347	432	500	541	
5400		83	117	151	185	251	315	379	471	546	590	
6000		86	124	161	197	270	340	409	509	590	637	
6600		89	129	170	209	287	363	437	544	630	680	
7000		90	133	175	217	298	377	456	566	655	706	
7500		91	137	181	225	311	395	476	592	684	737	
8000		92	140	187	233	324	411	495	618	711	766	30
8500		93	143	192	241	335	426	514	629	736	792	
9000		95	145	197	247	346	440	531	659	759	815	
10000		92	149	204	259	364	465	561	695	797	853	

Basic power for theorical 25.000 hrs belt life.

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