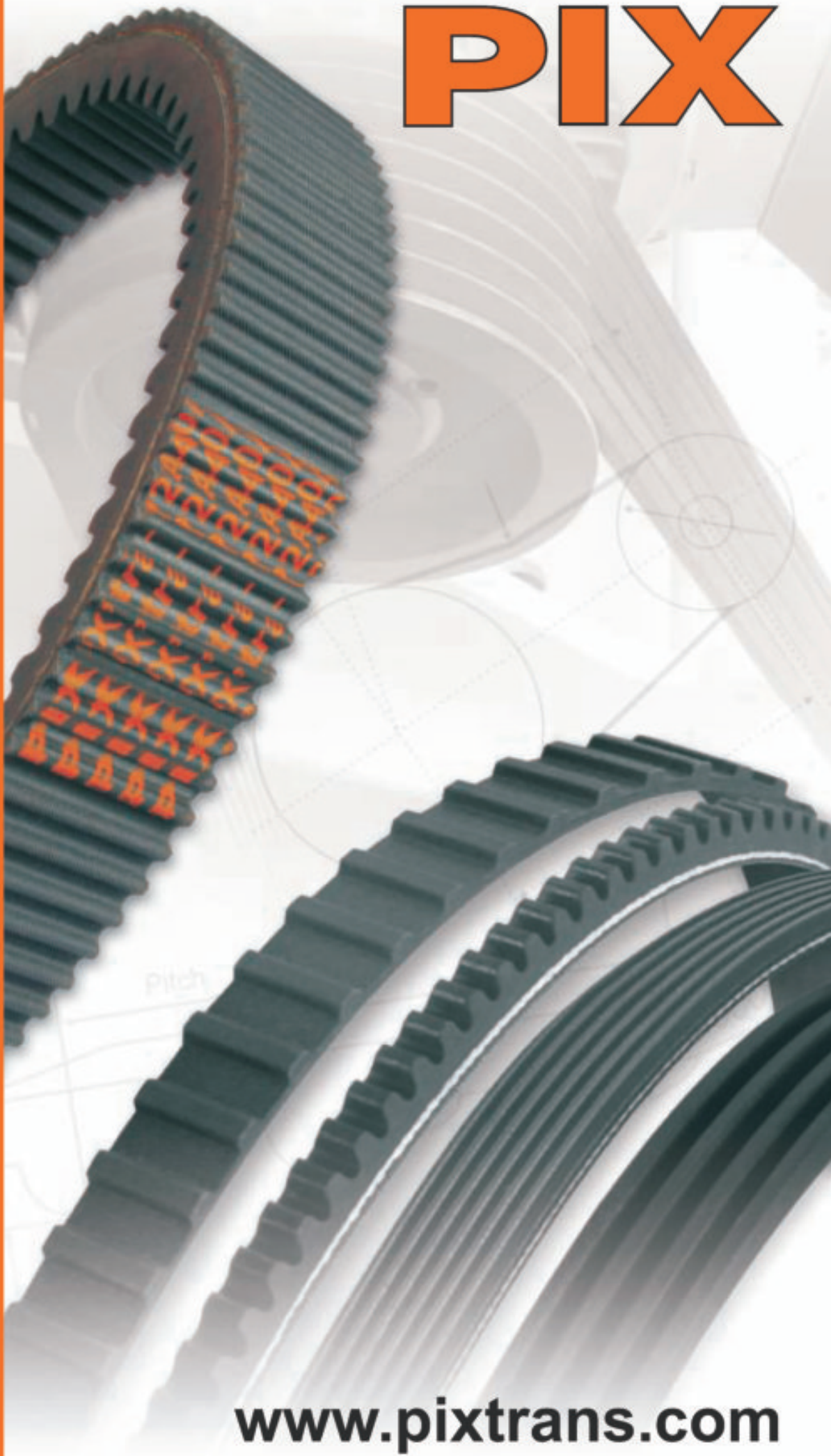
Technical Manual

PIX



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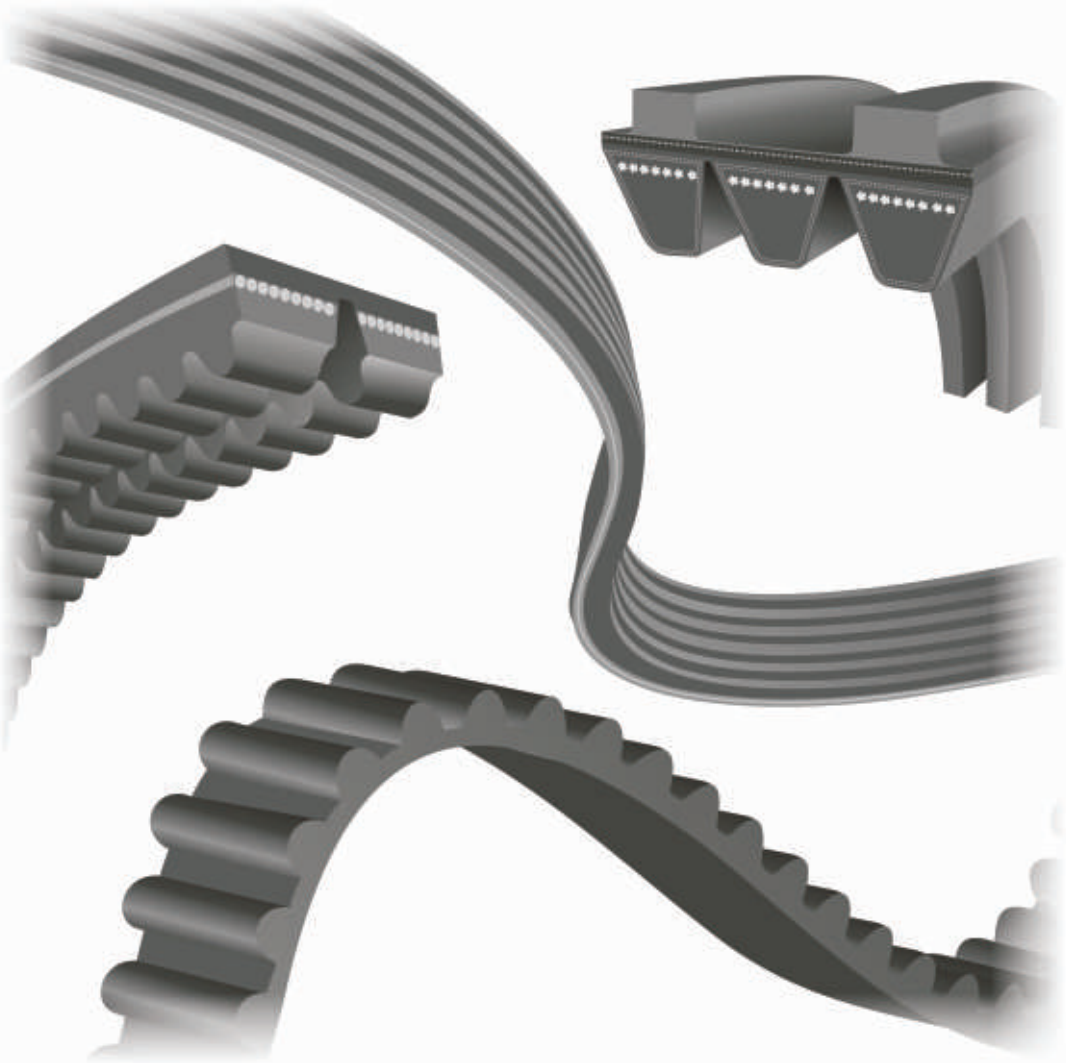


PIX-X'set® Wrapped Construction Belts

PIX-X'tra® Raw Edge Moulded Cogged Belts

PIX-X'ceed® Ribbed Belts

PIX-X'act® Synchronous Belts

Certifications


KEMA

CERTIFICATE

Pix Transmissions Limited

ISO 9001:2000


KEMA

CERTIFICATE

Pix Transmissions Limited

ISO/TS 16949:2002


PIX TRANSMISSIONS LIMITED

OHSAS 18001:2007

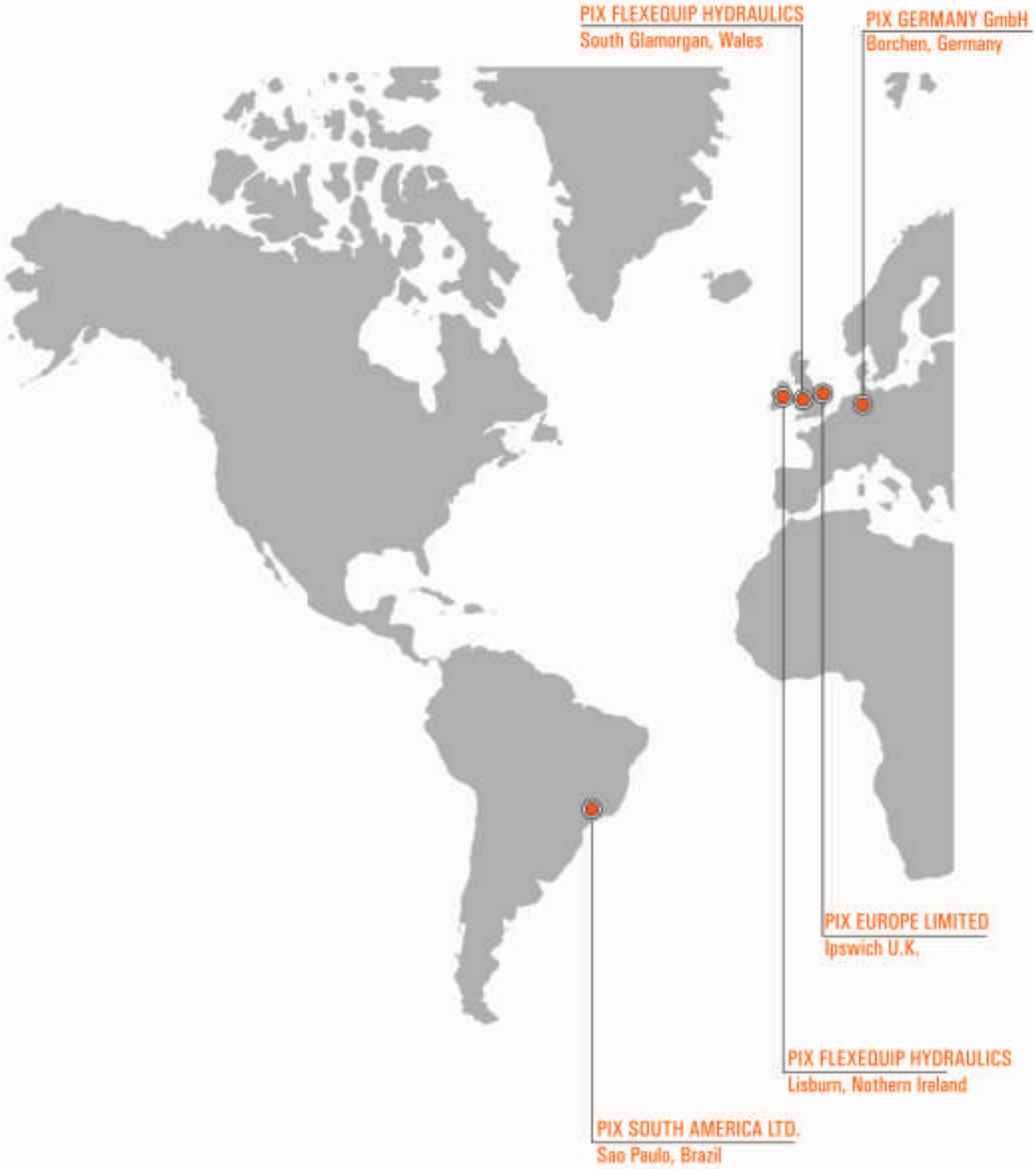

PIX TRANSMISSIONS LIMITED

ISO 14001:2004

PIX

Global Presence

- Products exported to over 70 countries globally
- Distribution network in 45 countries



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PIX MIDDLE EAST FZC
Ras-Al-Khaimah, UAE
PIX TRANSMISSIONS LIMITED
Nagpur, India
PIX HYDRAULICS & TRANSMISSIONS (Hangzhou) LTD.
Hangzhou, China

PIX

Special Application Belts

PIX-X'set®
ARAMID CORD BELTS

PIX-X'set® PT-6
PROFILE TOP BELT

PIX-X'set® PT-7
PROFILE TOP BELT

PIX-X'set® PT-O
PROFILE TOP BELT

PIX-X'set® PT-HC
PROFILE TOP BELT

PIX-X'set® PT-2TP
PROFILE TOP BELT

PIX-X'tra®
CUT EDGE MOULDED COGGED BELT

PIX-X'set® MB
WRAP BANDED BELT

PIX-X'tra® MB
CUT EDGE MOULDED COGGED BANDED BELT

PIX-X'set® VS
WRAP VARISPEED BELT

PIX-X'tra® VS
CUT EDGE MOULDED COGGED VARISPEED BELT

PIX-X'ceed® EL
ELASTICATED POLY BELT

PIX-X'ceed®
EPDM POLY BELT

PIX-X'ceed® DS
DOUBLE SIDED POLY BELT

SYNCHRONOUS BELT WITH V-POLY PROFILE

DOUBLE SIDED MOULDED COGGED BELT

PIX

Index

PIX

Index

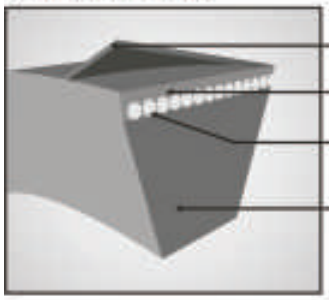
Note: All PIX V-Belts are inherently Antistatic, Oil and Heat resistant.

Power Transmission

The transmission of power between belt and pulleys can either involve frictional forces or positive engagement and mechanical interlocking, for instance with the aid of cogs or teeth. The frictional forces, and thus the possible power rating, will depend on the coefficient of friction, the normal force and the contact area between belt and pulleys. The size of the contact area will depend on factors such as the arc of contact angle. Any increase in contact force between belt and pulleys will cause increased belt tension meaning increased loads on shafts and shaft bearings. One method of increasing frictional force without a corresponding increase of the belt tension is to utilize the wedge effect without locking the belt in the pulley groove, as in a V-belt.

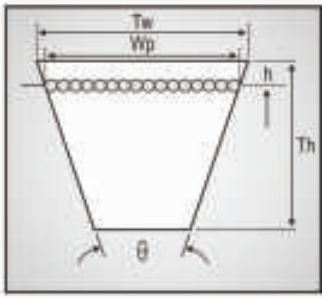
PIX-X'set® Wrap Construction Belts

Construction:



- Wear resistant bias cut neoprene rubberised polyester cotton fabric
- High tensile cord embedding cushion rubber compound
- High tenacity, low stretch, specially treated polyester & kevlar cords
- Specially compounded high modulus compression rubber

PIX-X'set® Classical Belts



The first of the V-belts to enter the power transmission scenario. The continued efforts of PIX has enabled to achieve the power ratings considerably higher than most of the available in the market. The compounds used to build up these belts are well chosen to match the stipulated power ratings thus offering distinct advantages regarding the increased factor of safety on critical drives. The standards followed by PIX has put the tolerances to be much more stringent than BS 3790, which forms the basis of PIX classical belts.

Features:

- Top width to height ratio 1.6:1
- Temperature range: -18°C to +80°C
- Maximum recommended belt speed is 30 m/sec
- Permissible flex rate f=80 per second
- Antistatic, Oil and Heat resistant
- ATEX certified FRAS belts are also available

Applications:

Primarily used as replacement on industrial drives. The classical belts are recommended in special applications such as V-flat drives. In the same manner these belts are advantages where reverse idlers have to be used, because of smaller heights.

Wrap Construction Belts

PIX-X'set® Classical Belts

Standards, Dimensions & Product Range:

We manufacture the entire range of Classical V-belts. The nominal length designation for these belts is inside length (Li) in inches. The length conversion factors are mentioned in the specification sheet below.

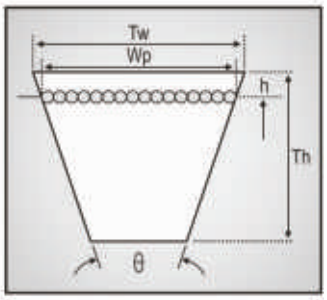
Section	Dimensions		Angle (Deg)	Pitch width	Top to pitch	Belt Length Factor			Standard	Recommended Minimum Pulley Diameter (mm)	Manufacturing Range		
	Tw (mm)	Th (mm)		Wp (mm)	h (mm)	Lp to La (mm)	Li to Lp (mm)	Li to La (mm)			Min (inch)	Max (inch)	Length Designation
8	8	5	40	6.7	1.30	12	19	31	DIN 2215	40	35.0	172	Li
Z	10	6	40	8.5	2.00	16	22	38	IS 2494, BS 3790, ISO 4184	50	9.50	195	Li
A	13	8	40	11.0	2.75	20	30	50	IS 2494, BS 3790, ISO 4184	71	13.0	360	Li
B	17	11	40	14.0	3.50	26	43	69	IS 2494, BS 3790, ISO 4184	112	16.0	658	Li
20	20	13	40	17.0	4.00	31	48	79	DIN 2215	160	35.5	375	Li
C	22	14	40	19.0	4.80	32	56	88	IS 2494, BS 3790, ISO 4184	180	31.0	658	Li
25	25	16	40	21.0	6.00	39	61	100	DIN 2215	250	57.0	655	Li
D	32	19	40	27.0	8.10	40	79	119	IS 2494, BS 3790, ISO 4184	355	44.5	662	Li
E	38	23	40	32.0	9.60	53	92	145	IS 2494	500	90.0	658	Li

PIX FRAS belts conforms to : Ex II 2GD c IIB X (Test report no. IB-03-4-934) - ATEX

Note: Li: Inside Length, La: Outside Length, Lp: Pitch Length, Le: Effective Length

Wrap Construction Belts

PIX-X'set® Wedge Belts



Wedge belts have been the result of a continuous thrust by the manufacturers and users on higher power transmissions with reduced space requirements. Wedge belts can transmit higher power to the extent of 1.5 to 2 times the classical belts with the same top width. This has been achieved by dimensional changes, apart from better cord construction used and the optimum placement of the cord line which provides the best support to the cord while in motion. During manufacturing we pre-strech the cord before building into the belt. It offers lower stretch properties in the drive. This way we are able to reduce minimum installation and take up allowances significantly. For the efficient performance of wedge drive it is essential that the proper tension be maintained in the drive, failure to maintain the same will render the purpose of wedge belts ineffective.

Features:

- Top width to height ratio is 1.2:1
- Temperature range: -18°C to +80°C
- Maximum recommended belt speed is 30 m/s*
- Permissible flex rate f=100 per second
- Less deformation of the belt cross-section when in contact with the pulleys ensures better contact between the belt flanks and the pulley grooves
- Antistatic, Oil and Heat resistant
- ATEX certified FRAS belts are also available

Applications:

Wedge belts are used primarily on all new drives because of space savings achieved by using these belts. These belts find their extensive use in all industrial applications from light duty drives as those for pumps to heavily loaded stone crusher drives. In wedge belt drives, single belts can be replaced by banded belts without changing the pulley configuration.

Standards, Dimensions & Product Range:

We manufacture the entire range of wedge belts. The nominal length for wedge belts is designated as pitch length (Lp) in millimeter.

Section	Dimensions		Angle (Deg)	Pitch width	Top to pitch	Belt Length Factor			Standard	Recommended Minimum Pulley Diameter (mm)	Manufacturing Range		
	Tw (mm)	Th (mm)		Wp (mm)	h (mm)	Lp to La (mm)	Li to Lp (mm)	Li to La (mm)			Min (mm)	Max (mm)	Length Designation
SPZ	10	8	40	8.5	2.00	13	37	50	BS 3790	63	365	4953	Lp
SPA	13	10	40	11.0	2.75	18	45	63	BS 3790	90	576	9144	Lp
SPB	17	14	40	14.0	3.50	28	60	88	BS 3790	140	940	16764	Lp
19	19	15	40	16.0	4.00	25	69	94	DIN 7753	180	2261	9601	Lp
SPC	22	18	40	19.0	4.80	30	83	113	BS 3790	224	1750	16789	Lp

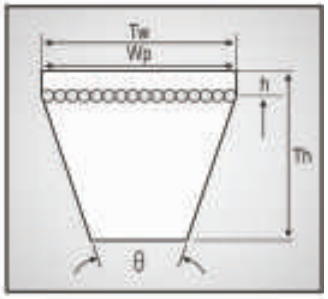
PIX FRAS belts conform to: Ex II 2GD c IIB X (Test report no. IB-03-4-934)

* For belt speed more than 30 m/s, pulleys must be dynamically balanced.

Wrap Construction Belts

PIX-X'set® Narrow Belts

In construction and properties the narrow belts are similar to the wedge belts in performance, with the only difference being the additional top ridge provided in the narrow belts. These belts are manufactured according to specification RMA-IP 22 and also known as American Wedge Belts.



Interchangeability between Narrow & Wedge belts

Narrow	Wedge
3V	SPZ
5V	SPB

Acceptable agreement and exchangeability is found between 3V and SPZ as well as between 5V and SPB sections. It is possible to use 3V and 5V section belts in pulleys of SPZ and SPB sections respectively but corollary is not recommended as the top width of the RMA standard pulleys are smaller. Section 8V is however, larger than SPC. Profile SPC may in some cases be used in grooves intended for the 8V profile with some loss of power rating but the opposite is not recommended.

Features:

- Temperature Range: -18°C to +80°C
- Maximum recommended belt speed is 30 m/s*
- Maximum flex rate is f=100 per second
- Antistatic, Oil and Heat resistant
- ATEX certified FRAS belts are also available

Applications:

These sections are standardized in USA and Canada therefore it is primarily used in machines exported to/from these countries. 8V section belts are used in heavy duty drives such as stone crushers.

Standards, Dimensions & Product Range:

The standard length designation for Narrow belts is as follows:
Belt number ÷ 10 = Outside length in inches

Example: 5V 950 means 950 ÷ 10= 95 inches outside length

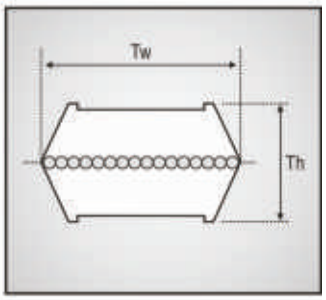
Section	Dimensions		Angle (Deg)	Pitch width	Belt Length Factor			Standard	Recommended Minimum Pulley Diameter (mm)	Manufacturing Range		
	Tw (mm)	Th (mm)		Wp (mm)	Lp to La (mm)	Li to Lp (mm)	Li to La (mm)			Min (inch)	Max (inch)	Length Designation
3V	9.7	8	40	9.7	13	37	50	RMA IP 22	63	19.5	190	La
5V	15.8	14	40	15.8	25	60	85	RMA IP 22	140	48.0	654	La
8V	25.4	23	40	25.4	53	92	145	RMA IP 22	335	90.0	654	La

* For belt speed more than 30 m/s, pulleys must be dynamically balanced.

Wrap Construction Belts

PIX-X'set® DS Hexagonal Belts

Hexagonal V-belts are also known as Double V-belts. In simple terms it can be considered as two V-belts joined back to back. The neutral axis containing the tension member is exactly half way up the section.



Features:

- Temperature range: -18°C to +80°C
- Maximum recommended belt speed is 30 m/s
- Antistatic, Oil and Heat resistant
- ATEX certified FRAS belts are also available

Applications:

Hexagonal belts find their application in the drives where several pulleys in the same plane are to be driven in the clockwise and anti-clockwise direction simultaneously. The polyester tension cord placed at the centre of the construction provides the belt extreme flexibility and low stretch properties. It is because of this positioning of the cord that these belts are not subjected to any other forces as in the case of normal V-belts. These are also used in rice mills. However off late these belts are rapidly finding application in industrial drives.

Drive Calculation:

The drive calculation for double V-belts differs from the drive calculations of two-pulley drives. The effective lengths, rotational speeds, transmission ratios and belt speeds are determined by the effective pulley diameters. There is no requirement of special pulleys for these belts. We suggest that the customer should get back to us for assistance in using these belts.

Standards, Dimensions & Product Range:

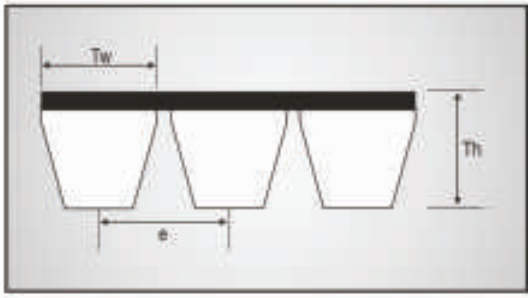
For all practical purposes the length of double V-belts is considered as the effective length which is roughly the belt length at the centre.

Section	Dimensions		Angle (Deg)	Standards	Recommended Minimum Pulley Diameter (mm)	Manufacturing Range		
	Tw (mm)	Th (mm)				Min (inch)	Max (inch)	Length Designation
AA	13	10	40	IS 11038, ISO 5289	80	43	260	Li
BB	17	14	40	IS 11038, ISO 5289	125	40	660	Li
CC	22	17	40	IS 11038, ISO 5289	224	73	658	Li
25	25	22	40	RMA IP 21, IS 11038, ISO 5289	280	89	681	Le

Wrap Construction Belts

PIX-X'set® MB Banded Belts

PIX Banded belts can be made by joining either Classical, Wedge or Narrow belts. Each band may contain the specified number of belts. We recommended maximum of five belts in one tie-band.



Features:

- Temperature range: -18°C to +80°C
- Antistatic, Oil and Heat resistant
- ATEX certified FRAS belts are also available

Applications:

Banded belts are recommended under following conditions

- Severe vibrations
- Vertical shaft drives
- V-flat drives
- Agricultural drives
- Conveyer systems
- Stone crushers, reciprocating compressors, generator sets, pumps cold forging machine etc.

Note:

All PIX-X'set® MB Banded belts are high power belts(Please refer page no.12). While using these belts it is always recommended to use standard pulleys with a proper guard. Appropriate belt sitting can only be obtained if the pitch maintained for the belts and that of pulleys is the same. We recommend that the customer should get back to us with details before using banded belts to enable us to provide the best solution. Improper design using banded belts can lead to premature failure of the drive system.

Section	Dimensions		Angle (Deg)	Pitch (mm)	Standard	Recommended Minimum Pulley Diameter (mm)	Manufacturing Range		Length Designation
	Tw (mm)	Th (mm)					Min (inch)	Max (inch)	
HA	13.0	10.0	40	15.9	ISO 5291	80 de	33.0	280.0	Li
HB	17.0	13.0	40	19.0	ISO 5291	130 de	41.0	628.0	Li
HC	22.0	16.0	40	25.5	ISO 5291	210 de	46.0	658.0	Li
HD	32.0	21.5	40	37.0	ISO 5291	370 de	90.0	658.0	Li
HE	38.0	27.0	40	44.5	PIX	520 de	90.0	658.0	Li
HZ	10.0	8.5	40	10.3	PIX	55 de	45.0	171.0	Li
HSPZ	10.0	10.0	40	12.0	BS 3790	67 dp	1168 mm	9042 mm	Lp
HSPA	13.0	12.0	40	15.0	BS 3790	100 dp	914 mm	5000 mm	Lp
HSPB	17.0	16.0	40	19.0	BS 3790	160 dp	1778 mm	9144 mm	Lp
HSPC	22.0	20.0	40	25.5	BS 3790	224 dp	2235 mm	16688 mm	Lp
H3V	9.7	10.0	40	10.3	ISO 5290	67 de	35.5	178.0	La
H5V	15.8	16.0	40	17.5	ISO 5290	180 de	48.0	660.0	La
H8V	25.4	25.0	40	28.6	ISO 5290	317 de	98.0	664.0	La

PIX-X'tra® Raw Edge Belts

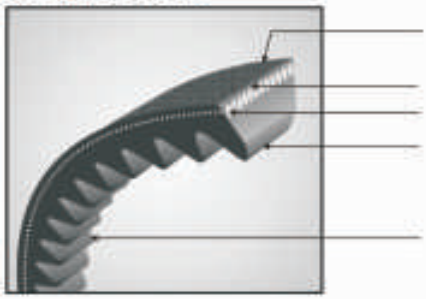
Raw Edge belts, as the name implies do not have textile wrapping on the outer surface. These are produced by slitting individual belts from rubber sleeve and hence they are called as Cut edge belts.

The manufacturing methods also make it simpler to produce belts with cogs underside thereby reducing the bending resistance of the belts and allowing them to operate on pulleys with approximately 20% smaller diameters. The decreased bending resistance reduces mechanical losses during bending and leads to improved efficiency and reduced working temperature. Heat dissipation is further improved by the larger area between the belt and the surrounding atmosphere and also by the air turbulence around the cogs during operation. Multi stage drives can be eliminated. These belts require a higher tension than the wrap belts so as to exhibit higher power transmission capability.

Raw Edge Belts are of three types:
(i) **REC Belts** (Raw Edge Moulded Cogged Belts)
(ii) **REP Belts** (Raw Edge Plain Belts)
(iii) **REL Belts** (Raw Edge Laminated Belts)

(i) PIX-X'tra® Raw Edge Moulded Cogged Belts

Construction:



Features:

Special top layer with fabric
The rigid layer on the top restricts top layer cracking and gives uniform tension on cord ends. Top fabric gives better support & protection from environment.

Tough Tensile Member For Greater Strength
Specially treated stabilised polyester cord provides high tensile strength with minimum stretch which in turn gives V-belt superior resistance to fatigue & shock loads.

Moulded Cogs
Moulded cogs allow the Raw edge cogged belts to operate even over smaller diameter pulley at high speeds. The cogs also help in reducing the bending stress apart from providing the higher surface area for proper heat dissipation.

Polychloroprene Cushion Rubber Compound
Ensures the best possible bond between the base compound, the tension cord & rubber impregnated fabric top surface that provides long service without cord separation.

Raw Edge Belts

PIX-X'tra® Raw Edge Moulded Cogged Belts

Features:
Fibre Filled Polychloroprene Base Compound
Gives increased power transmission capability, superior transverse stiffness & high wear resistance.

Speed ratios up to 1:12 are possible: This eliminates the need for multi stage drives.
Temperature range: -18°C to +100°C
Maximum recommended belt speed is 30 m/s*
Antistatic, Oil and Heat resistant
ATEX certified FRAS belts are also available

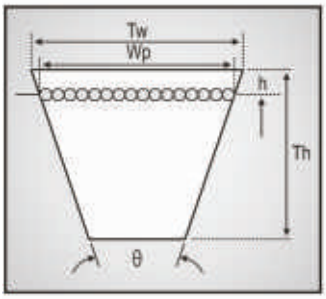
Applications: It is recommended to use these belts in borderline cases if difficulties are anticipated in using wrap construction belts.

Advantages:
The advantages of Raw Edge Moulded Cogged Belts over Wrap Belts are of great importance in following cases-
1. Drives with very small pulley diameters
2. High ambient temperatures
3. High belt speeds
4. High level of power transmission

Sections:
The sections covered under this category are -
ZX, AX, BX, CX, XPZ, XPA, XPB, XPC, 3VX, 5VX & 8VX which offer the best technoeconomical solution for above conditions. PIX also manufactures entire range of Raw Edge Banded Belts to suit various applications.

PIX-X'tra® Raw Edge Classical Belts:

Conforms to IS 2494, BS 3790, ISO 4184 standards

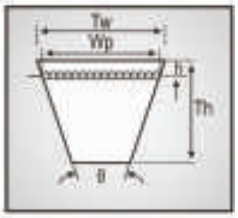


Section	Dimensions		Angle (Deg)	Pitch width	Top to pitch	Belt Length Factor			Recommended Minimum Pulley Diameter (mm)	Manufacturing Range		
	Tw (mm)	Th (mm)		Wp (mm)	h (mm)	Lp to La (mm)	Li to Lp (mm)	Li to La (mm)		Min (inch)	Max (inch)	Length Designation
ZX	10	6	36	8.5	2.00	16	22	38	40	23	200	Li
AX	13	8	36	11.0	2.75	20	30	50	63	22	200	Li
BX	17	11	36	14.0	3.50	26	43	69	90	21	200	Li
CX	22	14	36	19.0	4.80	32	56	88	140	21	200	Li

* For belt speed more than 30 m/s, pulleys must be dynamically balanced.

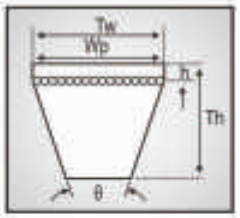
Raw Edge Belts

Standards, dimensions & product range



PIX-X'tra® Raw Edge Wedge Belts:

Section	Dimensions		Angle (Deg)	Pitch width	Top to pitch	Belt Length Factor			Standard	Recommended Minimum Pulley Diameter (mm)	Manufacturing Range		
	Tw (mm)	Th (mm)		Wp (mm)	h (mm)	Lp to La (mm)	Li to Lp (mm)	Li to La (mm)			Min (mm)	Max (mm)	Length Designation
XPZ	10	8	36	8.5	2.00	13	37	50	BS 3790	56	590	5117	Lp
XPA	13	10	36	11.0	2.75	18	45	63	BS 3790	71	590	5125	Lp
XPB	17	14	36	14.0	3.50	28	60	88	BS 3790	112	600	5140	Lp
XPC	22	18	36	19.0	4.80	30	83	113	BS 3790	180	600	5163	Lp



PIX-X'tra® Raw Edge Narrow V-Belts:

Section	Dimensions		Angle (Deg)	Pitch width	Belt Length Factor			Standard	Recommended Minimum Pulley Diameter (mm)	Manufacturing Range		
	Tw (mm)	Th (mm)		Wp (mm)	Lp to La (mm)	Li to Lp (mm)	Li to La (mm)			Min (inch)	Max (inch)	Length Designation
3VX	9.7	8	38	9.7	13	37	50	RMA IP 22	56	24	202	La
5VX	15.8	14	38	15.8	25	60	85	RMA IP 22	112	24	203	La
8VX	25.4	23	38	25.4	53	92	145	RMA IP 22	254	98	200	La

PIX-X'tra® MB Raw Edge Moulded Cogged Banded Belts:

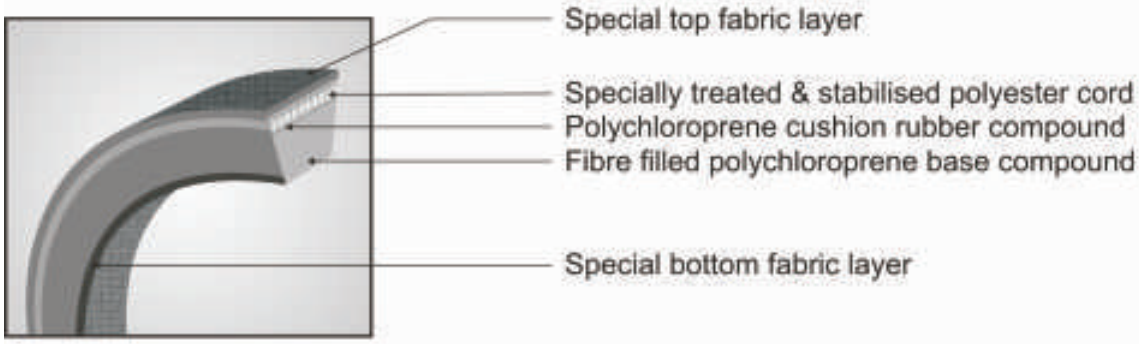
Conforms to ISO 5291, BS 3790, ISO 5290 & DIN 7753 Standards

Section	Dimensions		Angle (Deg)	Pitch (mm)	Manufacturing Range		
	Tw (mm)	Th (mm)			Min	Max	Length Designation
HAX	13.0	10.0	36	15.9	23.5"	200"	Li
HBX	17.0	13.0	36	19.0	23.5"	200"	Li
HCX	22.0	16.0	36	25.5	23.5"	200"	Li
HXPZ	10.0	10.0	36	12.0	600 mm	5080 mm	Lp
HXPA	13.0	12.0	36	15.0	600 mm	5080 mm	Lp
HXPB	17.0	16.0	36	19.0	600 mm	5080 mm	Lp
HXPC	22.0	20.0	36	25.5	600 mm	5080 mm	Lp
H3VX	9.7	10.0	36	10.3	23.5"	200"	La
H5VX	15.8	16.0	36	17.5	23.5"	200"	La
HAVX-10	10.0	8.0	36	12.6	600 mm	5080 mm	La
HAVX-13	13.0	10.0	36	16.0	600 mm	5080 mm	La

Note: All PIX-X'tra® MB Raw Edge Banded belts are High Power belts.

Raw Edge Belts

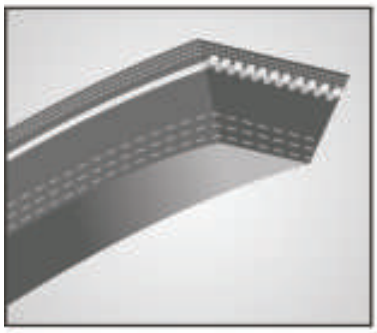
PIX-X'tra® Raw Edge Plain Belts



Construction:
The construction of REP(Raw Edge Plain) belts is similar to Raw Edge Moulded Cogged belts except it has one special bottom fabric layer.

Standards, Dimensions & Product Range:
Same as that of REC (Raw Edge Moulded Cogged) belts (Refer page 8 & 9)

PIX-X'tra® Raw Edge Laminated Belts



Construction:
Raw Edge Plain Belts (REP) may or may not have a fabric layer at the bottom, but Raw Edge Laminated Belts (REL) will have more than one bottom layer. As a result they are excellent in resistance to transverse compression.

Standards, Dimensions & Product Range:
Same as that of Raw Edge Cogged belts (Refer page 8 & 9)

Standard Product Range

PIX manufacture a wide range of V-belts in various lengths as below. The sheet also depicts the iterations along with minimum and maximum length range.

Section	Manufacturing Range		Length Interval	Length Designation
	From	To		
Z	9.5"	195"	0.5"	Li
A	13"	360"	0.5"	Li
B	16"	19"	1.0"	Li
B	19.5"	658"	0.5"	Li
C	31"	35"	2.0"	Li
C	35.5"	37"	0.5"	Li
C	37"	45"	1.0"	Li
C	45"	47"	0.5"	Li
C	47"	51"	1.0"	Li
C	51"	52"	0.5"	Li
C	52"	68"	1.0"	Li
C	68"	658"	0.5"	Li
D	44.5"		—	Li
D	59"		—	Li
D	71"	662"	0.5"	Li
E	90"	658"	0.5"	Li
8	35"	172"	0.5"	Li
20	35.5"	375"	0.5"	Li
25	57"	655"	0.5"	Li
SPZ	365 mm	370 mm	5 mm	Lp
SPZ	480 mm	4950 mm	5 mm	Lp
SPA	575 mm	9145 mm	5 mm	Lp
SPB	940 mm	16765 mm	5 mm	Lp
SPC	1750 mm	16790 mm	5 mm	Lp
19	2261 mm	9601 mm	5 mm	Lp
3V	19.5"	190"	0.5"	La
5V	48"	49"	1.0"	La
5V	49"	654"	0.5"	La
8V	90"	654"	0.5"	La
ZX	23"	200"	0.5"	Li
AX	22"	200"	0.5"	Li
BX	21"	200"	0.5"	Li
CX	21"	200"	0.5"	Li
XPZ	590 mm	5115 mm	5 mm	Lp
XPA	590 mm	5125 mm	5 mm	Lp
XPB	600 mm	5140 mm	5 mm	Lp
XPC	600 mm	5160 mm	5 mm	Lp
3VX	24"	202"	0.5"	La
5VX	24"	203"	0.5"	La
8VX	98"	200"	0.5"	La

Note: Unlisted sections and sizes available on request

Special Construction Belts

(I) High Power Belts

In some critical applications, whenever torque is applied to the belts, they get deflected in the pulley groove(See fig.1). Such deflection leads to an uneven distribution of load across the tension members.

Therefore, it is important for the compression rubber to be resistant to the lateral force, when entering into the pulley grooves. We have developed belts with the characteristics to withstand this lateral force in wrapped and raw edge constructions which are called as **PIX-*X'set*® HP** and **PIX-*X'tra*® HP** High Power Belts respectively.

These high power belts are designed in such a way that a composite layer with higher modulus across the belt section and with good flexibility along the belt circumference provides good support to High Modulus - Low Stretch (HMLS) tension member and thereby enhancing the power rating of the belt by 20% to 30% compared to the corresponding section of a standard V-Belt.

With the High Power Belts, the number of belts in a matched set of a multiple-belt-drive gets reduced and the belt life is also improved significantly. The HMLS tension member minimises the belt stretch, improving the machine-up time.

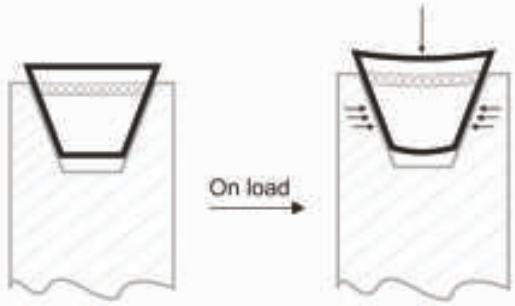


fig.1 Deflection of standard belt under load

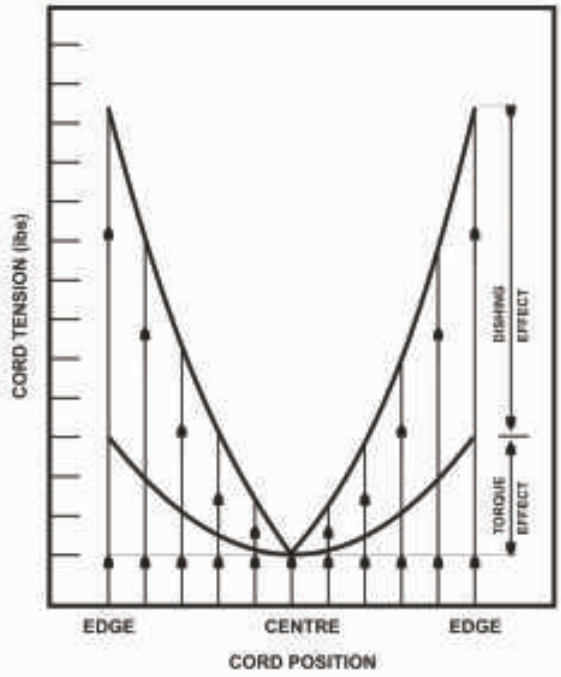
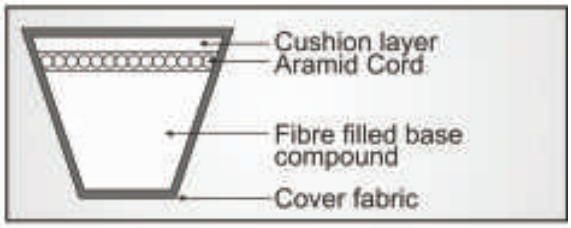


fig.2 Load distribution across tension member

Special Construction Belts

(ii) Aramid Cord Belts



Aramid is an organic polyaramide fibre that is manufactured using complex chemical processes. It is generally used where the power transmission requirements are very critical, apart from space restrictions on the permissible installation and take up allowances. Aramid is used as tension member because of its high tensile strength.

Aramid Cord Belts are recommended where,

- There are restrictions on the drive width
- The installation & take-up allowances are minimal
- Critical drives

Material	Tensile Strength lb/in²	% Elongation at break
Polyester	162000	14
Aramid	400000	4

The drive design calculation associated with this belt is similar to the standard drive design procedure . We recommend that customer should get back to us for further information on this.

(iii) FRAS V-Belts (Fire Resistant & Anti-Static)

Certain working environments such as coal mines & sensitive petro chemical installations require V-belts having fire resistant properties in addition to normal anti-static properties. PIX FRAS V-Belts are suitable for such environments. This construction is thoroughly tested during & after manufacture, to comply with all aspects of IS-2494 Part - II & BS-3790. FRAS Belts are also certified by ATEX.

Range: We can produce our entire range of belts in FRAS construction.

Confoms to: Ⓔx II 2GD c IIB X (Test report no. IB-03-4-934) - ATEX

(iv) Dry Cover Belts

These are suitable for drives having clutch applications like lawn mowers and chemical industries where contamination is not acceptable. **PIX-X'set® DC** Dry Cover Belts are usually manufactured in Blue colour and can also be supplied in green, brown, red, black & white colours. These are available in polyester as well as aramid constructions.

Range: Entire range of wrap construction belts

Special Construction Belts

(v) Profile Top Belts

In some of the applications it is desired that the belt used to transmit the power should also convey material as in ceramic industries, agricultural machineries, continuous processes, steel plate cleaning system etc. In such cases, the V-belt needs to have a special construction depending on the type of material to be conveyed. PIX manufactures these type of belts to cater to such applications.

PIX-X'set® PT-0

Section	Dimensions		Height of Pattern (mm)	Manufacturing Range		Length Designation
	Top Width (mm)	Thickness (mm)		Min	Max	
B (17x14)	17	14	3	85 inch	658 inch	Li
B (17x16)	17	16	5	85 inch	658 inch	Li
A (13x13)	13	13	5	48 inch	257 inch	Li
37 x 25	37	25	5	4064 mm	16713 mm	Lp

Application: Food grain industries

PIX-X'set® PT-HC Honey Comb Belts

Section	Dimensions		Height of Pattern (mm)	Manufacturing Range		Length Designation
	Top Width (mm)	Thickness (mm)		Min (inch)	Max (inch)	
B (17x17)	17	17	6	32	658	Li
C (22x20)	22	20	6	38	658	Li

Note: Maximum height of PT-HC (Honey comb) pattern up to 12 mm provided on request

Application: Tile & general industries

PIX-X'set® PT-6

Section	Dimensions		Height of Pattern (mm)	Manufacturing Range		Length Designation
	Top Width (mm)	Thickness (mm)		Min (inch)	Max (inch)	
B (17x22)	17	22	11	85	375	Li
B (17x26)	17	26	15	66	375	Li
B (17x21)	17	21	10	42	79	Li
C (22x25)	22	25	11	73	350	Li

Application: Ceramic tile industries

PIX-X'set® PT-7

Section	Dimensions		Height of Pattern (mm)	Manufacturing Range		Length Designation
	Top Width (mm)	Thickness (mm)		Min	Max	
37(37x25)	37	25	7	4064 mm	8890 mm	Lp
D (32x26)	32	26	7	142 inch	633 inch	Li

Application: Horticultural industries

PIX-X'set® PT-2TP

Section	Dimensions		Height of Pattern (mm)	Manufacturing Range		Length Designation
	Top Width (mm)	Thickness (mm)		Min	Max	
3HSPB	10	12	6	2134 mm	9144 mm	Lp

Application: Steel plate cleaning system

Special Construction Belts

(vi) Fractional Horse Power Belts (FHP/M)

These belts are mainly used on Fractional Horse Power motors installed mainly in domestic appliances.

Series	2000
Top width (mm)	10.0
Thickness (mm)	6.0
Angle (deg)	40.0
Range La (inches)	11" - 173"

(vii) Light Duty Single V-Belts

These belts are used for a smaller sized machineries installed in the household appliances and are available in three different sections to meet the varying requirements. These are always used in single belt drives.

Series	3L	4L	5L
Top width (mm)	10	13	17
Thickness (mm)	6	8	10
Angle (deg)	40	40	40
Range La (inches)	10.5"-160"	15"-360"	21"-220"

(viii) Double Cog Belts

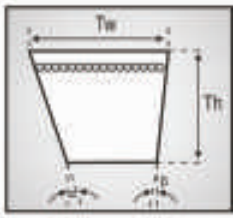
This special construction allows the use of belts on small pulley diameters due to increased flexibility.

Features:

- Prevents buckling
- Extremely Flexible
- Can be used on smaller pulleys
- Better heat dissipation

(ix) Asymmetric Belts

Asymmetric belts find application in torque converter systems. They are generally used in high performance golf-kart, snowmobiles, minibikes, material handling equipment and Industrial equipment.



Tw	Th	α	β	Length (mm)	Length Designation
19	10	18°	2°	1005	La
16	9	18°	2°	695	La
19	10	18°	2°	740	La
19	8	18°	2°	680	La
19	10	18°	2°	685	La

Note: Unlisted sizes are available on request

Variable Speed Belts

PIX Variable Speed Belts are specially designed to withstand high ambient temperature & oily conditions, generally encountered in adjustable speed applications.

PIX-X'set® VS Variable Speed Belts:

As per ISO 3410:1989 standard

Section	Angle	Manufacturing Range		Length Designation
		Min (mm)	Max (mm)	
17x8	40	800	1262	Li
25x13	30	1080	9068	Li
32x15	34	1171	8179	Lp
38x18	30	1500	9093	Lp
45x20	30	1524	9525	Lp
51x20	34	1816	9525	Lp
58x25	30	1930	6604	Lp
64x25	30	1930	6604	Lp

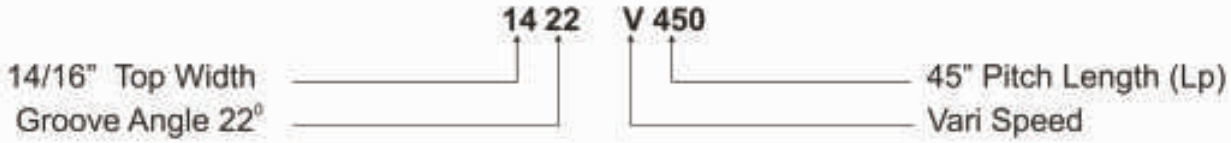
Non-standard sizes

Section	Angle	Manufacturing Range		Length Designation
		Min (mm)	Max (mm)	
13x11	40	1067	2032	La
15x9	40	608	7061	Lp
19x11	40	1100	8763	Lp
21x9	40	940	2286	Lp
22x16	40	1600	7162	Li
30x12	30	1002	5385	Lp
33x22	30	3886	16510	La
38x23	26	2362	8192	La
40x20	30	878	6604	Lp
68x24	32	2464	9144	Lp

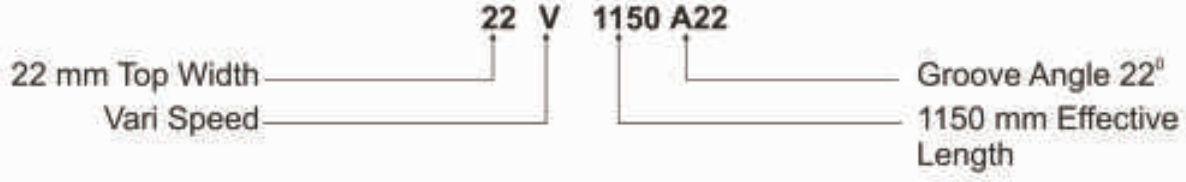
Note: Other non-standard sizes are also available.

PIX-X'tra® VS Variable Speed Belts

Cross Sections Nomenclature : 14 22 V 450 (Metric System)



Cross Sections Nomenclature : 22 V 1150 A22 (S. I. System)



PIX-X'tra® VS Variable Speed Belts

Manufacturing Range: As per RMA IP 25/1991 standard (Dimensions in mm)

Cross Section	Top width (Nominal) (mm)	Thickness (Nominal) (mm)	Angle (Deg)	Belt Length Factor (mm)			Pitch Length	
				Lp to La	Li to Lp	Li to La	Min	Max
22V - A22 / 1422V	22	8	22	15	35	50	700	5115
30V - A22 / 1922V	30	10	22	20	42	62	700	5125
37V - A22 / 2322V	37	11	22	23	46	69	700	5126
30V - A26 / 1926V	30	11	26	23	46	69	700	5126
46V - A26 / 2926V	46	13	26	27	55	82	700	5137
51V - A26 / 3226V	51	13	26	27	55	82	700	5137
40V - A30 / 2530V	40	15	30	30	65	95	700	5146
51V - A30 / 3230V	51	16	30	33	67	100	700	5147
70V - A30 / 4430V	70	18	30	37	77	114	700	5157
64V - A36 / 4036V	64	18	36	37	77	114	700	5157
70V - A36 / 4436V	70	18	36	37	77	114	700	5157
76V - A36 / 4836V	76	19	36	39	81	120	700	5161

Manufacturing Range: As per ISO 3410 (E) / IS : 8777-1978 Standard

Cross Section	Top width (Nominal) (mm)	Thickness (Nominal) (mm)	Angle (Deg)	Belt Length Factor (mm)			Pitch Length	
				Lp to La	Li to Lp	Li to La	Min	Max
HG	16.5	8.0	26	15	35	50	700	5115
HH	20.4	10.0	26	20	42	62	700	5125
HI	25.4	12.7	26	27	55	82	700	5135
HJ	31.8	15.1	26	30	65	95	700	5145
HK	38.1	17.5	26	37	77	114	700	5155
HL	44.5	19.8	26	40	82	122	700	5165
HM	50.8	22.2	26	45	90	135	700	5177
HN	57.2	23.9	26	50	100	150	700	5185
HO	63.5	25.4	26	53	106	159	700	5192

Manufacturing Range: As per BS 3733:1974 Standard

Cross Section	Top width (Nominal) (mm)	Thickness (Nominal) (mm)	Angle (Deg)	Belt Length Factor (mm)			Pitch Length	
				Lp to La	Li to Lp	Li to La	Min	Max
HI	25	13	30	27	55	82	700	5135
HJ	32	15	30	30	65	95	700	5145
HK	38	18	30	37	77	114	700	5103
HL	45	20	30	40	82	122	700	5167
HM	51	22	30	45	90	135	700	5257

PIX-X'tra® VS Variable Speed Belts

Manufacturing Range: Non-standard Variable Speed Belts

Thickness	Manufacturing Range		Length Designation
	Minimum (inch)	Maximum (inch)	
5.00 mm (REC / REP)	23.5	86	Li
8.00 mm (REC / REP)	24	200	Li
9.00 mm (REC / REP)	24	200	Li
10.00 mm (REC / REP)	24	200	Li
11.00 mm (REC / REP)	24	200	Li
12.00 mm (REC / REP)	24	200	Li
13.00 mm (REC / REP)	27	200	Li
14.00 mm (REC / REP)	27	200	Li
15.00 mm (REC / REP)	27	200	Li
16.00 mm (REC / REP)	27	200	Li
17.00 mm (REC / REP)	35	200	Li
18.00 mm (REC / REP)	35	200	Li
19.00 mm (REC / REP)	35	200	Li
20.00 mm (REC / REP)	35	200	Li
21.00 mm To 30.00 mm (REC)	63	200	Li
20.00 mm To 22.00 mm (REP)	63	200	Li

Note: These belts can be manufactured with following dimensions.
1.Top width: 5mm - 82mm 2. Angle: 22^0- 60^0

Automotive Belts

Manufacturing Range: PIX-X'tra® FORCE Raw Edge Construction Belts

Section	Top width (mm)	Thickness (mm)	Angle (Deg)	Length (mm)		Length Designation
				From	To	
X9.5 / AVX10	10.0	8.0	36	600	5130	La
X12.5 / AVX13	13.0	10.0	36	600	5143	La
X11A	11.5	8.0	36	610	5130	Le
X13A	13.5	9.0	36	600	5136	Le
X15A	17.0	10.5	38	600	5146	Le
X17A	18.5	11.0	36	600	5149	Le
X20A	21.5	12.5	36	610	5158	Le

Manufacturing Range: PIX-X'set® FORCE Wrapped Construction Belts

Section	Top width (mm)	Thickness (mm)	Angle (Deg)	Length (mm)		Length Designation
				From	To	
9.5 / AV 10	9.5	8.0	40	375	4064	La
12.5 / AV 13	12.5	10.0	40	588	9296	La

PIX Automotive belts are specially designed to cater the needs of automotive industry. These belts are suitable to drive various accessories in automobile such as charging system, water pump, power steering pump, A/C compressors. PIX automotive belts are available in Wrap, Cut Edge, Ribbed and Synchronous constructions. Please refer page no.84 for Ribbed automotive belts. The PIX Synchronous belt catalogue can be referred for Synchronous or Timing belt applications.

Free Set Concept

V-belts normally shrink during storage as a result of change in the climatic conditions. This shrinkage is a reversible process and PIX Free Set Belts would resume their original length on fitment and after an initial run. This does not affect the working performance of PIX Free Set V-Belts.

Free Set Concept is applicable for industrial belts which are produced in accordance with the standard BS 3790. Tolerances followed for PIX Free Set Belts are much more stringent than the "Matched Set Tolerances" given in the standard BS 3790.

Features:
- No length code
- Low variation in length tolerances
- Less centre adjustment
- Low stretch
- Low variation in elongation within a set of belts
- Even power transmission
- Longer life
- Longer maintenance intervals
- Less inventory

PIX Free Set V-Belts

Nominal Length	Tolerance in length (mm)
Up to 1905 mm (75 inches)	± 1
Beyond 1905 mm (75 inches) Up to 3150 mm (124 inches)	± 2
Beyond 3150 mm (124 inches) Up to 5004 mm (197 inches)	± 3
Beyond 5004 mm (197 inches) Up to 8992 mm (354 inches)	± 4
Beyond 8992 mm (354 inches) Up to 16002 mm (630 inches)	± 6

PIX Free Set V-Belt Tensioning:
PIX Free Set Belts are manufactured with an exceptionally close belt length tolerances, by virtue of latest belt manufacturing technology. Further the belt length remains matched during storage and on the drive. Install PIX Belts and tension them as per the procedure given on page no 75. Run the belts under full load condition for about 24 hours. Stop the drive and re-check the tension. If necessary re-tension the belts (Refer table A, page 77).

Drive Design Procedure for V-Belts

To obtain the best performance from a V-belt drive, it is necessary to design the drive correctly. The procedure for the same is as follows.

STEP 1 Calculate Speed Ratio (S_R)

Speed Ratio (S_R) = $\frac{\text{r. p. m. of faster shaft (R)}}{\text{r. p. m. of slower shaft (r)}}$

STEP 2 Select Service Factor (K)

Service factor is obtained from Table1 on page 24

STEP 3 Calculate Design Power (P_d)

Design Power (P_d) = Power(P) x Service Factor(K)

STEP 4 Select Belt Cross Section

Belt cross section is obtained from charts I, II & III on pages 25 to 27. When the point of intersection falls on or near the dividing line, feasibility of both cross sections should be checked.

STEP 5 Select Pulley Pitch Diameters

Refer Tables 2 & 3 on pages 28 & 29 for selecting pulley pitch diameters. Try to avoid use of non standards pulleys but in some cases, it is necessary if the exact ratios are not covered by standard pulleys.

STEP 6 Calculate Belt Pitch Length (Lp) & Centre Distance (C)

Belt Pitch Length (Lp) = $2C + 1.57(D+d) + \frac{(D-d)^2}{4C}$

Where D & d are pitch diameters of larger & smaller pulleys respectively.

If the Belt Pitch Length comes in a fraction, use next whole / round-off length.

If there is a space constraint or centre distance limitation, use the same calculated length. If so, exact centre distance calculations are not required again.

Calculate the exact centre distance by the formula

$C = A + \sqrt{A^2 - B}$

Where, $A = \frac{L}{4} - 0.3925\ (D + d)$ and

$B = \frac{(D - d)^2}{8}$

STEP 7 Determine Power Rating (P)

Refer power rating Tables from 4 to 26 on pages 30 to 64 for different belt sections.

Power rating per belt (P) = Rated power + Additional power for speed ratio

STEP 8 Find Arc of Contact Correction Factor (Fc) & Pitch Length Correction Factors (Fd)

Refer tables 27 & 28 on page 65 to 67 for arc of Contact Correction Factor & Belt Pitch Length Correction Factor respectively.

STEP 9 Find Number of Belts (N)

Number of Belts (N) = $\frac{Pd}{P \times Fc \times Fd}$

If the number of belts comes in a fraction, use next whole number.

STEP 10 Summary

1) Smaller & larger pulley pitch diameters & number of grooves obtained.

2) Number of belts along with size & section obtained.

Note: Please refer page no.75 for usage of PIX Digital Tension Meter and PIX V-Belt Tension Tester for calculating the belt tension.

DRIVE DESIGN EXAMPLE (CLASSICAL)

Condition 1: Prime mover A. C. motor; 75kW, 1450 r.p.m. (Driver)
Condition 2: Reciprocating pump, 310 r.p.m., 18 hours per day
Condition 3: Approximate centre distance 1050 mm

STEPS	FORMULAE	CALCULATIONS
STEP 1	**Speed Ratio (S_R) = R/r**	See above given condition 1 & 2 S_R = R/r = 1450/310 = 4.67
STEP 2	**Service factor (K) from Table 1 on page 24**	K = 1.4
STEP 3	**Design power (Pd) = P x K**	Pd = 75 x 1.4 = 105 kW
STEP 4	**Belt cross section refer chart I on page 25**	Belt section indicated is "C"
STEP 5	**Pulley pitch diameters from Table 2 page 28**	d = 180 mm, D = 840 mm
STEP 6	**Belt pitch length (Lp) & Centre dist. (C)** $Lp = 2C + 1.57 (D + d) + \frac{(D - d)^2}{4C}$ Choose the nearest standard Lp from page 11. $C = A + \sqrt{A^2 - B}$ $A = \frac{L}{4} - 0.3925 (D + d)$ $B = \frac{(D - d)^2}{8}$	$Lp = 2(1050) + 1.57 (840+180) + \frac{(840 - 180)^2}{4 \times 1050}$ Lp = 3805.11 mm Standard Lp = 3803 mm $C = A + \sqrt{A^2 - B}$ $A = \frac{3803}{4} - 0.3925 (840 + 180)$ A = 950.75 - 400.35 = 550.4 $B = \frac{(840 - 180)^2}{8} = 54450$ $C = 550.40 + \sqrt{(550.40)^2 - (54450.0)}$ C = 1049 mm
STEP 7	**Power rating (P) =** Rated power + Additional power for speed ratio from Table 9 on page 37	P = 7.23 kW + 1.48 kW P = 8.71 kW
STEP 8	Arc of contact correction factor (Fc) from table 27 on page 65 and Power Correction Factors for Belt Pitch Length (Fd) from table 28 on page 66	Fc = 0.97 Fd = 1.00
STEP 9	**Number of belts (N) =** $\frac{Pd}{P \times Fc \times Fd}$	$N = \frac{105}{8.71 \times 0.97 \times 1.00} = 12.43$ (say 13 belts)
STEP 10	**Summary:** 1. Smaller pulley fitted to prime mover 2. Larger pulley fitted to reciprocating pump 3. Classical belts required 4. Centre Distance	• Smaller pulley of 180 mm pitch dia. with 13 grooves of "C" section. • Larger pulley of 840 mm pitch dia. with 13 grooves of "C" section. • 13 belts of "C" section each of 3803 mm pitch length • 1049 mm.

DRIVE DESIGN EXAMPLE (WEDGE)

Condition1 : Normal torque A. C. electric motor 6 kW, 1440 r.p.m. (Driver)
Condition 2 : Centrifugal pump 720 r.p.m., continuous running
Condition 3 : Approximate centre distance 550 mm

STEPS	FORMULAE	CALCULATIONS
STEP 1	**Speed Ratio (S_R) = R/r**	See above given condition 1 & 2 S_R = R/r = 1440/720 = 2
STEP 2	**Service factor (K) from Table 1 on page 24**	K = 1.2
STEP 3	**Design power (Pd) = P x K**	Pd = 6 x 1.2 = 7.2 kW
STEP 4	**Belt cross section refer chart II on page 26**	Belt section indicated is "SPZ"
STEP 5	**Pulley pitch diameters from Table 2 page 28**	d = 80 mm, D = 160 mm
STEP 6	**Belt pitch length (Lp) & Centre dist. (C)** $Lp = 2C + 1.57 (D + d) + \frac{(D - d)^2}{4C}$ Choose the nearest standard Lp from page 11. $C = A + \sqrt{A^2 - B}$ $A = \frac{L}{4} - 0.3925 (D + d)$ $B = \frac{(D - d)^2}{8}$	$Lp = 2(550) + 1.57 (160+80) + \frac{(160 - 80)^2}{4 \times 550}$ Lp = 1480 mm Standard Lp = 1480 mm $C = A + \sqrt{A^2 - B}$ $A = \frac{1480}{4} - 0.3925 (160 + 80)$ $= 370 - 94.2 \quad A = 275.8$ $B = \frac{(160 - 80)^2}{8} = 800$ $C = 275.8 + \sqrt{(275.8)^2 - (800)}$ C = 550 mm
STEP 7	**Power rating (P) =** Rated power + Additional power for speed ratio from Table 13 on page 44.	P = 1.59 kW + 0.23 kW = 1.82 kW
STEP 8	Arc of contact correction factor (Fc) from table 27 on page 65 and Power Correction Factors for Belt Pitch Length (Fd) from table 28 on page 66.	Fc = 1.00 Fd = 0.99
STEP 9	**Number of belts (N) =** $\frac{Pd}{P \times Fc \times Fd}$	$N = \frac{7.2}{1.82 \times 1.00 \times 0.99} = 3.99$ (say 4 belts)
STEP 10	**Summary:** 1. Smaller pulley fitted to electric motor shaft 2. Larger pulley fitted to pump shaft 3. Wedge belts required. 4. Centre distance	• Smaller pulley of 80 mm pitch dia. with 4 grooves of "SPZ" section. • Larger pulley of 160 mm pitch dia. with 4 grooves of "SPZ" section. • 4 belts of "SPZ" section each of 1480 mm pitch length. • 550 mm.

DRIVE DESIGN EXAMPLE (RAW EDGE COGGED)

Condition 1 : Prime mover A. C. motor; 75 kW, 1450 r.p.m. (Driver)
Condition 2 : Reciprocating pump, 310 r.p.m., 18 hrs. per day
Condition 3 : Approximate centre distance 900 mm

STEPS	FORMULAE	CALCULATIONS
STEP 1	**Speed Ratio (S_R) = R/r**	See above given condition 1 & 2 S_R = R/r = 1450/310 = 4.67
STEP 2	**Service factor (K) from Table 1 on page 24**	K = 1.4
STEP 3	**Design power (Pd) = P x K**	Pd = 75 x 1.4 = 105 kW
STEP 4	**Belt cross section refer chart II on page 26**	Belt section indicated is "XPB"
STEP 5	**Pulley pitch diameters from Table 3, page 29**	d = 125 mm, D = 584 mm
STEP 6	**Belt pitch length (Lp) & Centre dist. (C)** $Lp = 2C + 1.57 (D + d) + \frac{(D - d)^2}{4C}$ Choose the nearest standard Lp from page 11. $C = A + \sqrt{A^2 - B}$ $A = \frac{L}{4} - 0.3925 (D + d)$ $B = \frac{(D - d)^2}{8}$	$Lp = 2(900) + 1.57 (584+125) + \frac{(584 - 125)^2}{4 \times 900}$ Lp = 2972 mm Standard Lp = 2975 mm $C = A + \sqrt{A^2 - B}$ $A = \frac{2975}{4} - 0.3925 (584 + 125)$ $= 743.75 - 278.28 \quad A = 465.47$ $B = \frac{(584 - 125)^2}{8} = 26335.125$ $C = 465.47 + \sqrt{(465.47)^2 - (26335.125)}$ C = 902 mm
STEP 7	**Power rating (P) =** Rated power + Additional power for speed ratio from Table 25 on page 61 & 62.	P = 7.17 kW + 1.03 kW P = 8.2 kW
STEP 8	Arc of contact correction factor (Fc) from table 27 on page 65 & Power Correction Factors for Belt Pitch Length (Fd) from table 28 on page 66 & 67.	Fc = 0.98 Fd = 0.97
STEP 9	**Number of belts (N) =** $\frac{Pd}{P \times Fc \times Fd}$	$N = \frac{105}{8.2 \times 0.98 \times 0.97} = 13.47$ (say 14 belts)
STEP 10	**Summary:** 1. Smaller pulley fitted to prime mover 2. Larger pulley fitted to reciprocating pump 3. Cut Edge Cogged belts required 4. Centre distance	• Smaller pulley of 125 mm pitch diameter with 14 grooves of "XPB" section. • Larger pulley of 584 mm pitch diameter with 14 grooves of "XPB" section. • 14 belts of "XPB" section each of 2975 mm pitch length • 902 mm.

Table 1:
Service Factors for Belt Drives (See Note 1)

TYPE OF DRIVEN MACHINE	SERVICE FACTOR					
WORKING HOURS → / EXAMPLES	SOFT START +			HEAVY START #		
	10 & Under	Over 10 to 16	Over 16	10 & Under	Over 10 to 16	Over 16
Class 1 : LIGHT DUTY Agitators (uniform density), Blowers Exhausts & fans (up to 7.5 kW), Centrifugal compressors & pumps, Belt conveyors (uniformly loaded)	1.0	1.1	1.2	1.1	1.2	1.3
Class 2 : MEDIUM DUTY Agitators & mixers (variable density), Blowers, Exhausts & fans (over 7.5 kW), Rotary compressors & pumps (other than centrifugal), Belt conveyors (not uniformly loaded), Generators & excitors, laundry machinery, line shafts, machine tools, printing machinery, saw mill & wood working machinery, screens (rotary).	1.1	1.2	1.3	1.2	1.3	1.4
Class 3 : HEAVY DUTY Brick machinery, bucket elevators, compressors & pumps (reciprocating), conveyors (heavy duty), hoists, mills (hammer), pulverisers, punches, presses, shears, quarry plant, rubber machinery, screens (vibrating), textile machinery.	1.2	1.3	1.4	1.4	1.5	1.6
Class 4 : EXTRA HEAVY DUTY Crushers (gyratory jaw - roll) Mills (ball - rod - tube)	1.3	1.4	1.5	1.5	1.6	1.8

For Speed - Increasing Drives of

Speed ratio 1.00 to 1.24 : Multiply service factor by 1.00
Speed ratio 1.25 to 1.74 : Multiply service factor by 1.05
Speed ratio 1.75 to 2.49 : Multiply service factor by 1.11
Speed ratio 2.50 to 3.49 : Multiply service factor by 1.18
Speed ratio 3.50 & over : Multiply service factor by 1.25

\+ e.g. Electric motors (a.c. start, delta start, d.c. shunt wound), internal combustion engines with four or more cylinders, all prime movers fitted with centrifugal clutches, dry or fluid couplings.

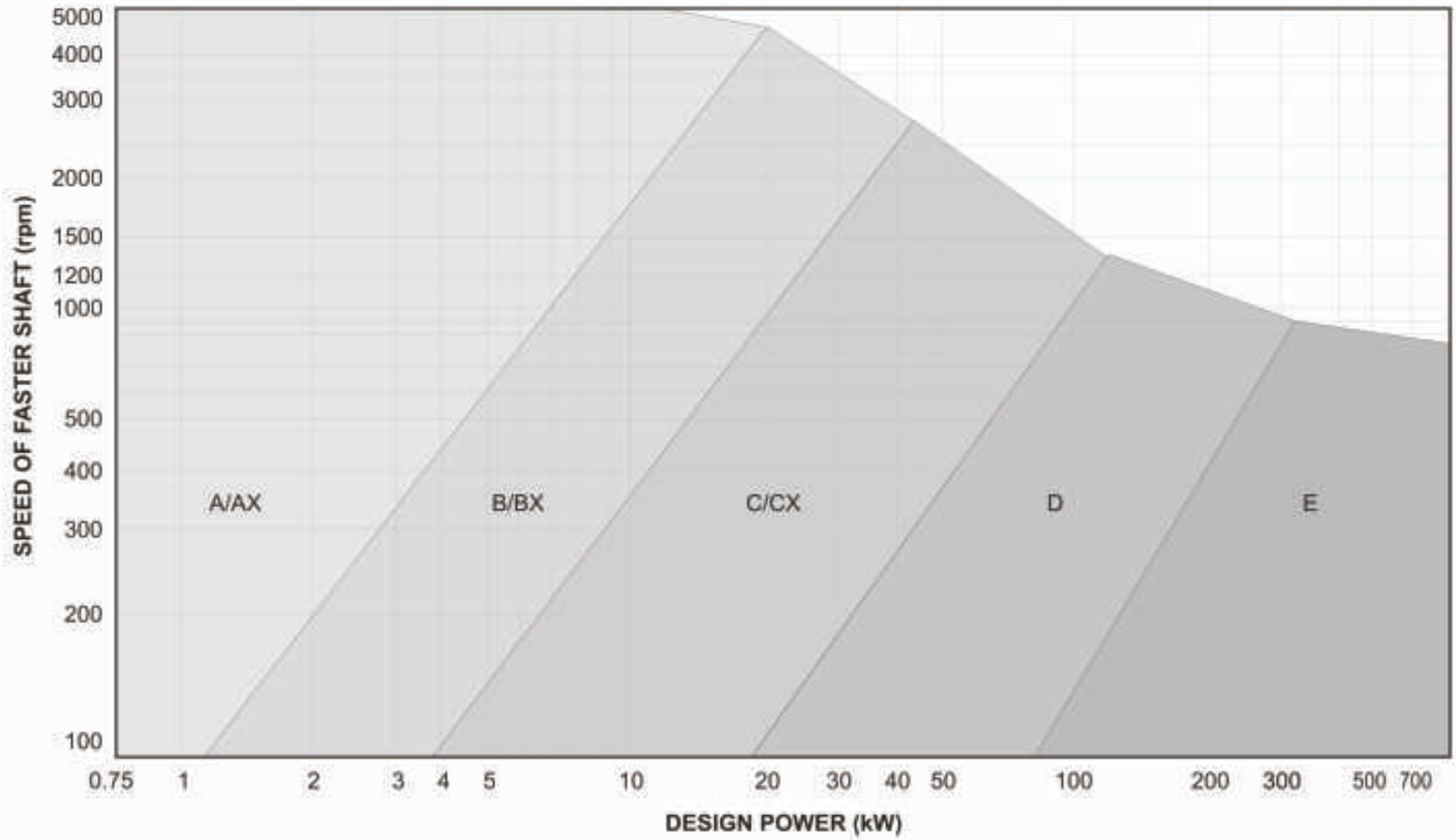
\# e.g. Electric motors (a.c. direct -on - line start, d.c. series & compound wound), internal combustion engines with less than four cylinders.

Special Conditions

1) For reversing drives, except where high torque is not present on starting, add 20% to the factors
2) Idler pulley on slack side (internal), no addition to the factors.
3) Idler pulley on tight side (internal), add 0.1 to the factors.

Note 1: The service factors in Table 1 do not apply to light duty drives using Z or Y section belts. In such cases, PIX Technical Services department should be consulted.

Note 2: The use of an idler pulley on the outside of belt is not recommended.



Note: Z section belts should be used for low power, small pulley diameter applications and should be selected only when pulley diameters are smaller than the recommended minimum for A section belts.

CHART I : SELECTION OF V-BELTS CROSS SECTION

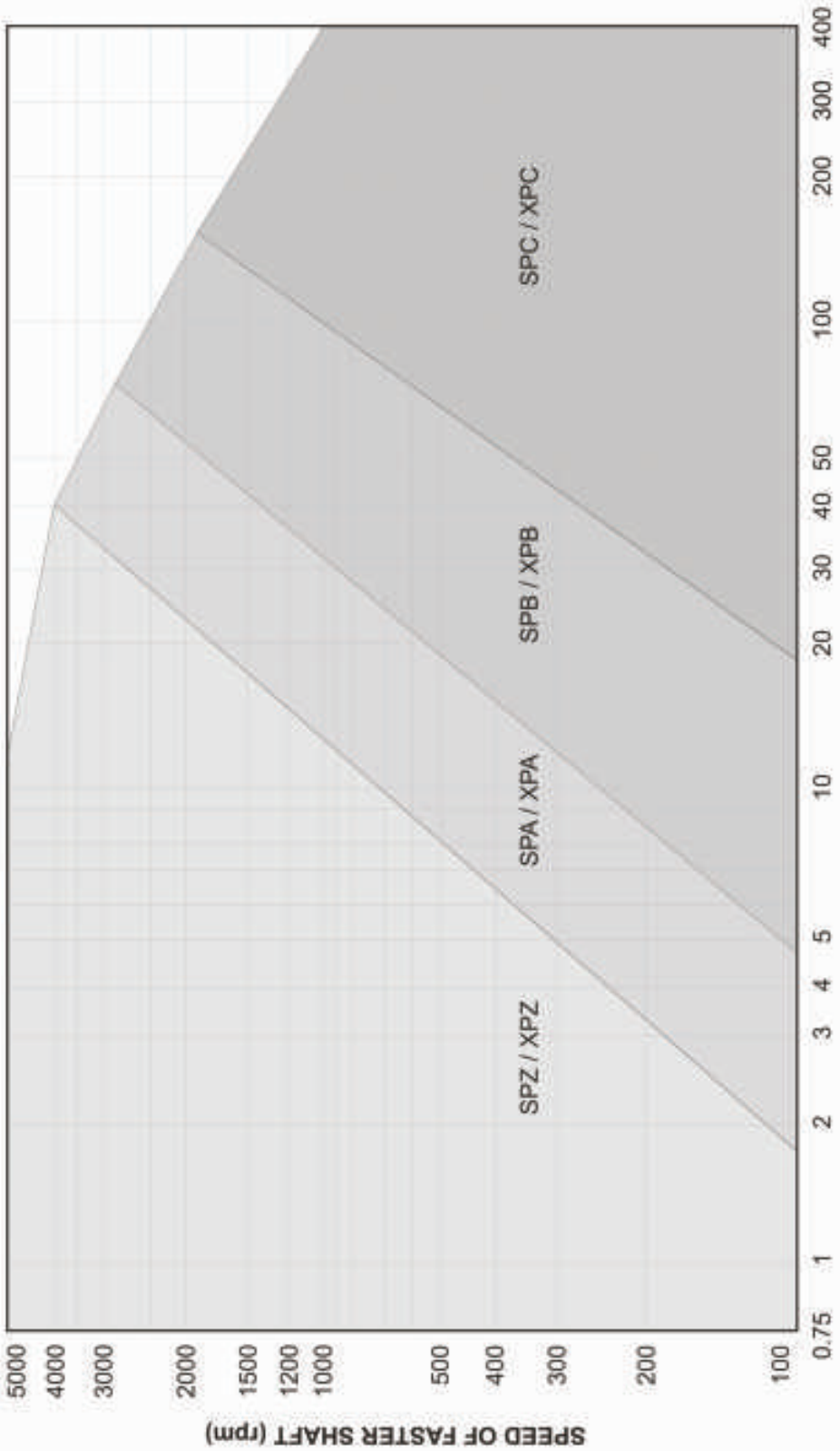


CHART II : SELECTION OF V-BELTS CROSS SECTION

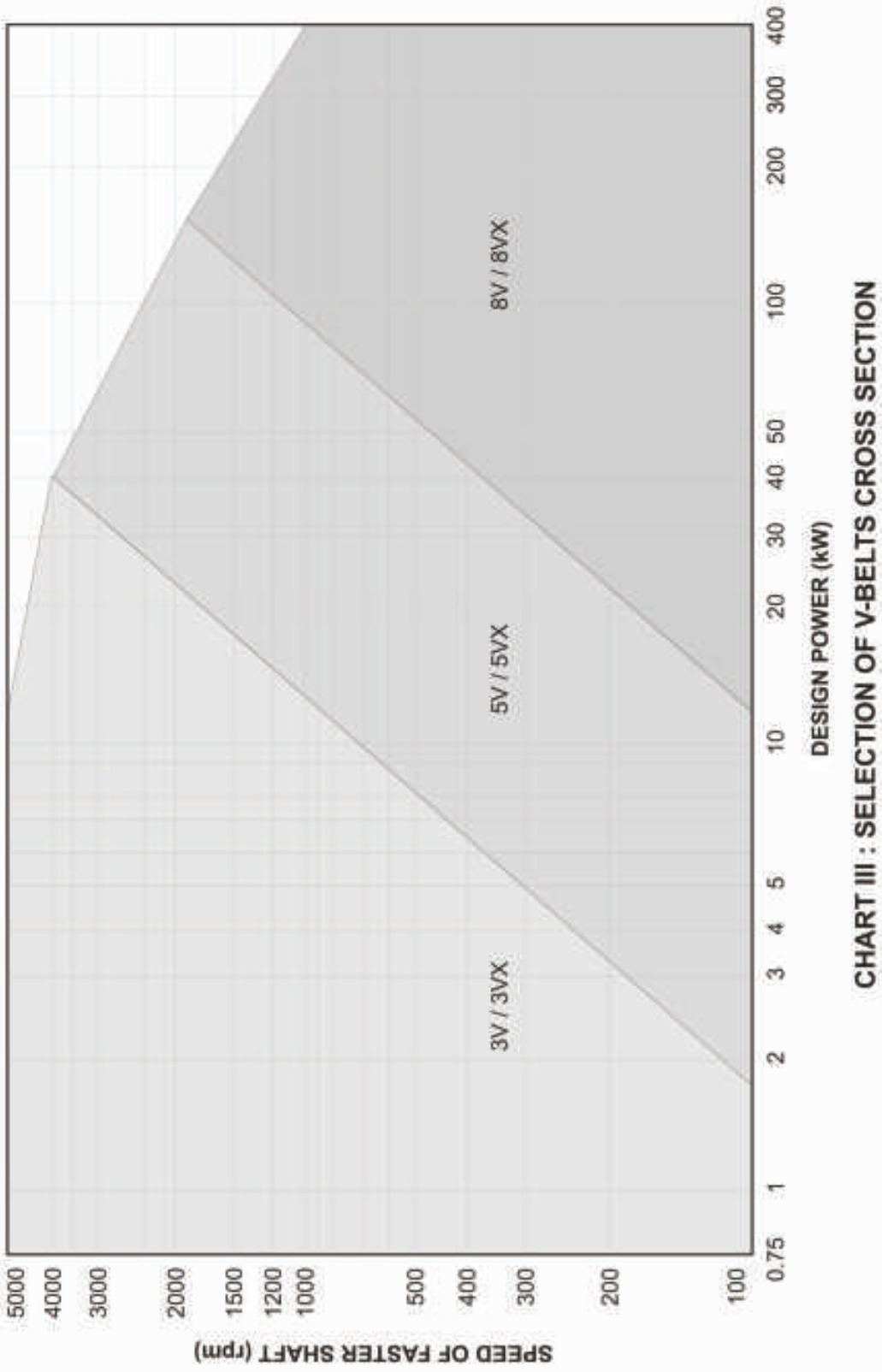


CHART III : SELECTION OF V-BELTS CROSS SECTION

Table 2:
Standard Pulley Pitch Diameters for Faster Shaft

8	Z	A	B	20	C	25	D	E	SPZ/3V	SPA	SPB/5V	19	SPC	8V
40	50	71	112	160	180	250	355	500	63	90	140	180	224	335
45	53	75	118	180	190	280	375	560	67	95	150	200	236	355
50	56	80	125	200	200	315	400	630	71	100	160	224	250	375
56	60	85	132	224	212	355	425	670	75	106	170	236	265	400
63	63	90	140	236	224	400	450	710	80	112	180	250	280	425
71	67	95	150	250	236	450	475	750	85	118	190	280	300	450
80	71	100	160	280	250	500	500	800	90	125	200	315	315	475
90	75	106	170	315	265	560	530	860	95	132	212	355	335	500
	80	112	180	355	280	630	560	900	100	140	224	375	355	530
	85	118	190	400	300	710	600	950	106	150	236	400	375	560
	90	125	200	450	315	800	630	1000	112	160	250	450	400	600
	95	132	212	500	335		670	1120	118	170	265	500	450	630
	100	140	224		355		710	1250	125	180	280	560	500	670
	112	150	236		375		750	1400	132	190	315	630	560	710
		160	250		400		800	1600	140	200	355		630	750
		180	280		450		900		150	224	375		710	800
							1000		160	250	400			
									180	280				
									200	315				

Table 3:
Standard Pulley Pitch Diameter for Faster Shaft

ZX	AX	BX	CX	XPZ/3VX	XPA	XPB/5VX	XPC
40	63	90	140	56	71	112	180
45	71	100	150	60	75	118	190
50	80	106	160	63	80	125	200
56	90	112	180	71	85	132	212
63	95	118	200	80	90	140	224
71	100	125	224	85	95	150	236
80	106	132	250	90	100	160	250
90	112	140	280	95	106	170	265
100	118	160	315	100	112	180	280
112	125	180	335	112	118	190	315
	132	190	355	125	125	200	335
	140	200	400	140	132	212	355
	150	212	450	160	140	224	400
	160	224	500	180	150	236	450
	180	250	630	200	160	250	500
		280			170	280	560
					180	315	630
					190	355	710
					200	400	
					224		
					250		
					280		

Table 4:
Section 8: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)									Additional Power (kW) per belt for speed ratio			
	35	40	45	50	56	63	71	80	90	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	0.12	0.15	0.18	0.21	0.25	0.29	0.33	0.39	0.44	0.00	0.01	0.01	0.01
950	0.15	0.18	0.22	0.26	0.31	0.36	0.43	0.49	0.56	0.00	0.01	0.02	0.02
1450	0.19	0.25	0.30	0.36	0.43	0.50	0.59	0.68	0.68	0.00	0.02	0.03	0.03
2850	0.28	0.37	0.47	0.57	0.68	0.81	0.95	1.10	1.26	0.01	0.03	0.05	0.06
100	0.02	0.03	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.00	0.00	0.00	0.00
200	0.04	0.05	0.06	0.07	0.09	0.10	0.12	0.14	0.16	0.00	0.00	0.00	0.00
300	0.06	0.07	0.09	0.10	0.12	0.14	0.17	0.19	0.22	0.00	0.01	0.01	0.01
400	0.08	0.09	0.11	0.13	0.16	0.18	0.21	0.24	0.28	0.00	0.01	0.01	0.01
500	0.09	0.11	0.14	0.16	0.19	0.22	0.25	0.29	0.34	0.00	0.01	0.01	0.01
600	0.10	0.13	0.16	0.18	0.22	0.25	0.30	0.34	0.39	0.00	0.01	0.01	0.01
700	0.12	0.15	0.18	0.21	0.25	0.29	0.33	0.39	0.44	0.00	0.01	0.01	0.01
800	0.13	0.16	0.20	0.23	0.27	0.32	0.37	0.43	0.49	0.00	0.01	0.01	0.02
900	0.14	0.18	0.21	0.25	0.30	0.35	0.41	0.47	0.54	0.00	0.02	0.02	0.02
1000	0.15	0.19	0.23	0.27	0.32	0.38	0.44	0.51	0.59	0.00	0.02	0.02	0.02
1100	0.16	0.20	0.25	0.29	0.35	0.41	0.48	0.55	0.63	0.00	0.02	0.02	0.02
1200	0.17	0.22	0.27	0.31	0.37	0.44	0.51	0.59	0.68	0.00	0.02	0.02	0.02
1300	0.18	0.23	0.28	0.33	0.39	0.46	0.54	0.63	0.72	0.00	0.02	0.02	0.03
1400	0.19	0.24	0.30	0.35	0.42	0.49	0.57	0.66	0.76	0.00	0.03	0.03	0.03
1500	0.20	0.25	0.31	0.37	0.44	0.52	0.60	0.70	0.80	0.00	0.03	0.03	0.03
1600	0.20	0.25	0.33	0.39	0.46	0.54	0.63	0.73	0.84	0.00	0.03	0.03	0.03
1700	0.21	0.27	0.34	0.40	0.48	0.57	0.66	0.77	0.88	0.00	0.03	0.03	0.04
1800	0.22	0.28	0.35	0.42	0.50	0.59	0.69	0.80	0.92	0.00	0.03	0.03	0.04
1900	0.23	0.29	0.37	0.44	0.52	0.61	0.72	0.83	0.95	0.00	0.04	0.04	0.04
2000	0.23	0.30	0.38	0.45	0.54	0.63	0.74	0.86	0.99	0.00	0.04	0.04	0.04
2100	0.24	0.31	0.39	0.47	0.56	0.66	0.77	0.89	1.02	0.01	0.04	0.04	0.04
2200	0.25	0.32	0.40	0.48	0.57	0.68	0.80	0.92	1.06	0.01	0.04	0.04	0.05
2300	0.25	0.33	0.41	0.50	0.59	0.70	0.82	0.95	1.09	0.01	0.04	0.04	0.05
2400	0.26	0.34	0.43	0.51	0.61	0.72	0.84	0.98	1.12	0.01	0.04	0.04	0.05
2500	0.26	0.35	0.44	0.52	0.63	0.74	0.87	1.01	1.16	0.01	0.05	0.05	0.05
2600	0.27	0.36	0.45	0.54	0.64	0.76	0.89	1.03	1.19	0.01	0.05	0.05	0.05
2700	0.28	0.36	0.46	0.55	0.66	0.78	0.92	1.06	1.22	0.01	0.05	0.05	0.06
2800	0.28	0.37	0.47	0.56	0.67	0.80	0.94	1.09	1.25	0.01	0.05	0.05	0.06
2900	0.28	0.38	0.48	0.58	0.69	0.82	0.96	1.11	1.28	0.01	0.05	0.05	0.06
3000	0.29	0.38	0.49	0.59	0.70	0.84	0.98	1.14	1.30	0.01	0.06	0.06	0.06
3100	0.29	0.38	0.50	0.60	0.72	0.85	1.00	1.16	1.33	0.01	0.06	0.06	0.06
3200	0.30	0.40	0.51	0.61	0.73	0.87	1.02	1.19	1.36	0.01	0.06	0.06	0.07
3300	0.30	0.40	0.52	0.62	0.75	0.89	1.04	1.21	1.38	0.01	0.06	0.06	0.07
3400	0.31	0.41	0.52	0.63	0.76	0.90	1.06	1.23	1.41	0.01	0.06	0.06	0.07
3500	0.31	0.42	0.53	0.64	0.77	0.92	1.08	1.25	1.43	0.01	0.06	0.06	0.07
3600	0.31	0.42	0.54	0.65	0.79	0.94	1.10	1.27	1.46	0.01	0.07	0.07	0.07
3700	0.32	0.43	0.55	0.67	0.80	0.95	1.12	1.30	1.48	0.01	0.07	0.07	0.08
3800	0.32	0.43	0.56	0.68	0.81	0.97	1.14	1.32	1.50	0.01	0.07	0.07	0.08
3900	0.32	0.44	0.56	0.68	0.82	0.98	1.15	1.34	1.52	0.01	0.07	0.07	0.08
4000	0.33	0.44	0.57	0.69	0.84	1.00	1.17	1.35	1.55	0.01	0.07	0.07	0.08
4100	0.33	0.45	0.58	0.70	0.85	1.01	1.19	1.37	1.57	0.01	0.08	0.08	0.09
4200	0.33	0.45	0.59	0.71	0.86	1.02	1.20	1.39	1.59	0.01	0.08	0.08	0.09
4300	0.33	0.46	0.59	0.72	0.87	1.04	1.22	1.41	1.61	0.01	0.08	0.08	0.09
4400	0.34	0.46	0.60	0.73	0.88	1.05	1.23	1.43	1.62	0.01	0.08	0.08	0.09
4500	0.34	0.47	0.61	0.74	0.89	1.06	1.25	1.44	1.64	0.01	0.08	0.08	0.09
4600	0.34	0.47	0.61	0.75	0.90	1.08	1.26	1.46	1.66	0.01	0.09	0.09	0.10
4700	0.34	0.47	0.62	0.75	0.91	1.09	1.28	1.47	1.67	0.01	0.09	0.09	0.10
4800	0.34	0.48	0.62	0.76	0.92	1.10	1.29	1.49	1.69	0.01	0.09	0.09	0.10
4900	0.35	0.48	0.63	0.77	0.93	1.11	1.30	1.50	1.70	0.01	0.09	0.09	0.10
5000	0.36	0.49	0.63	0.78	0.94	1.12	1.31	1.52	1.72	0.01	0.09	0.09	0.10
5100	0.35	0.49	0.64	0.78	0.95	1.13	1.33	1.53	1.73	0.01	0.09	0.09	0.11
5200	0.35	0.49	0.64	0.79	0.96	1.14	1.34	1.54	1.74	0.01	0.10	0.10	0.11
5300	0.35	0.49	0.65	0.80	0.97	1.15	1.35	1.55	1.76	0.01	0.10	0.10	0.11
5400	0.35	0.50	0.65	0.80	0.97	1.16	1.36	1.56	1.77	0.01	0.10	0.10	0.11
5500	0.35	0.50	0.66	0.81	0.98	1.17	1.37	1.57	1.78	0.01	0.10	0.10	0.11
5600	0.35	0.50	0.66	0.81	0.99	1.18	1.38	1.59	1.79	0.01	0.10	0.11	0.12
5700	0.35	0.51	0.67	0.82	1.00	1.19	1.39	1.59	1.80	0.01	0.11	0.11	0.12
5800	0.35	0.51	0.67	0.83	1.00	1.20	1.40	1.60	1.80	0.01	0.11	0.11	0.12
5900	0.35	0.51	0.67	0.83	1.01	1.20	1.41	1.61	1.81	0.01	0.11	0.11	0.12
6000	0.35	0.51	0.68	0.84	1.02	1.21	1.41	1.62	1.82	0.01	0.11	0.11	0.12
6200	0.35	0.51	0.68	0.84	1.03	1.22	1.43	1.63	1.83	0.01	0.11	0.12	0.13
6400	0.35	0.52	0.69	0.85	1.04	1.24	1.44	1.65	1.83	0.01	0.12	0.12	0.13
6600	0.35	0.52	0.70	0.86	1.05	1.25	1.45	1.65	1.84	0.02	0.12	0.13	0.14
6800	0.35	0.52	0.70	0.87	1.06	1.26	1.46	1.66	1.84	0.02	0.13	0.13	0.14
7000	0.35	0.52	0.70	0.87	1.06	1.27	1.47	1.67	1.84	0.02	0.13	0.13	0.15
7200	0.35	0.52	0.71	0.88	1.07	1.27	1.48	1.67	1.83	0.02	0.13	0.14	0.15
7400	0.35	0.52	0.71	0.88	1.08	1.28	1.48	1.67	1.82	0.02	0.14	0.14	0.15
7600	0.34	0.52	0.71	0.89	1.08	1.28	1.48	1.66	1.81	0.02	0.14	0.14	0.16
7800	0.34	0.52	0.71	0.89	1.08	1.28	1.48	1.66	1.79	0.02	0.09	0.15	0.16
8000	0.33	0.52	0.71	0.89	1.08	1.29	1.48	1.65	1.77	0.02	0.09	0.15	0.17

Table 5: Section Z: Power Rating P(kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)									Additional Power (kW) per belt for speed ratio			
	45	50	56	63	71	80	90	100	112	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	0.19	0.23	0.29	0.35	0.43	0.51	0.60	0.69	0.79	0.00	0.02	0.03	0.03
950	0.22	0.29	0.36	0.44	0.54	0.64	0.76	0.88	1.00	0.00	0.02	0.04	0.04
1450	0.29	0.38	0.49	0.61	0.75	0.90	1.07	1.22	1.42	0.01	0.03	0.06	0.06
2850	0.42	0.58	0.77	0.99	1.23	1.47	1.77	2.07	2.34	0.01	0.07	0.11	0.12
100	0.04	0.05	0.06	0.07	0.08	0.10	0.11	0.13	0.15	0.00	0.00	0.00	0.00
200	0.08	0.10	0.12	0.14	0.16	0.20	0.22	0.26	0.30	0.00	0.00	0.01	0.01
300	0.09	0.15	0.18	0.21	0.24	0.30	0.33	0.39	0.45	0.00	0.01	0.01	0.01
400	0.12	0.15	0.18	0.22	0.26	0.31	0.37	0.42	0.48	0.00	0.01	0.02	0.02
500	0.15	0.19	0.23	0.28	0.33	0.39	0.46	0.53	0.60	0.00	0.01	0.02	0.02
600	0.16	0.20	0.25	0.30	0.37	0.44	0.51	0.59	0.68	0.00	0.01	0.03	0.03
700	0.19	0.23	0.29	0.35	0.43	0.51	0.60	0.69	0.79	0.00	0.02	0.03	0.03
800	0.19	0.27	0.33	0.40	0.49	0.59	0.68	0.79	0.91	0.00	0.02	0.03	0.03
900	0.21	0.27	0.34	0.42	0.51	0.61	0.72	0.83	0.95	0.00	0.02	0.04	0.04
950	0.22	0.29	0.36	0.44	0.54	0.64	0.76	0.88	1.00	0.00	0.02	0.04	0.04
1000	0.23	0.30	0.38	0.47	0.57	0.68	0.80	0.92	1.06	0.00	0.02	0.04	0.04
1100	0.24	0.31	0.39	0.49	0.60	0.72	0.85	0.97	1.12	0.01	0.03	0.05	0.05
1200	0.26	0.34	0.43	0.54	0.66	0.79	0.93	1.06	1.22	0.01	0.03	0.05	0.05
1300	0.27	0.37	0.46	0.58	0.71	0.85	1.01	1.15	1.32	0.01	0.03	0.05	0.06
1400	0.28	0.37	0.47	0.59	0.72	0.87	1.03	1.18	1.37	0.01	0.03	0.06	0.06
1450	0.29	0.38	0.49	0.61	0.75	0.90	1.07	1.22	1.42	0.01	0.03	0.06	0.06
1500	0.30	0.40	0.50	0.63	0.77	0.93	1.10	1.26	1.47	0.01	0.04	0.06	0.06
1600	0.31	0.40	0.52	0.65	0.80	0.96	1.14	1.31	1.52	0.01	0.04	0.07	0.07
1700	0.32	0.43	0.55	0.69	0.85	1.02	1.21	1.39	1.62	0.01	0.04	0.07	0.07
1800	0.33	0.45	0.59	0.73	0.90	1.08	1.28	1.47	1.71	0.01	0.04	0.07	0.08
1900	0.34	0.45	0.59	0.74	0.91	1.10	1.30	1.50	1.73	0.01	0.05	0.08	0.08
2000	0.36	0.47	0.62	0.79	0.96	1.16	1.37	1.58	1.82	0.01	0.05	0.08	0.09
2100	0.36	0.48	0.63	0.79	0.98	1.18	1.40	1.62	1.87	0.01	0.05	0.08	0.09
2200	0.38	0.50	0.66	0.83	1.03	1.24	1.47	1.70	1.96	0.01	0.05	0.09	0.10
2300	0.39	0.52	0.69	0.87	1.07	1.29	1.53	1.77	2.05	0.01	0.06	0.09	0.10
2400	0.39	0.52	0.69	0.87	1.08	1.30	1.55	1.79	2.06	0.01	0.06	0.10	0.10
2500	0.39	0.54	0.72	0.91	1.13	1.35	1.62	1.87	2.15	0.01	0.06	0.10	0.11
2600	0.40	0.55	0.72	0.92	1.14	1.38	1.64	1.89	2.18	0.01	0.06	0.10	0.11
2700	0.42	0.57	0.75	0.96	1.18	1.43	1.70	1.96	2.26	0.01	0.06	0.11	0.12
2800	0.42	0.58	0.77	0.99	1.23	1.46	1.77	2.04	2.33	0.01	0.07	0.11	0.12
2850	0.42	0.58	0.77	0.99	1.23	1.47	1.77	2.07	2.34	0.01	0.07	0.11	0.12
2900	0.42	0.59	0.77	0.99	1.23	1.49	1.77	2.07	2.35	0.01	0.07	0.12	0.13
3000	0.43	0.61	0.80	1.02	1.27	1.54	1.83	2.11	2.43	0.01	0.07	0.12	0.13
3100	0.44	0.61	0.81	1.03	1.29	1.56	1.85	2.14	2.46	0.02	0.07	0.12	0.13
3200	0.45	0.63	0.84	1.06	1.33	1.61	1.91	2.21	2.48	0.02	0.08	0.13	0.14
3300	0.46	0.65	0.86	1.10	1.37	1.65	1.97	2.26	2.50	0.02	0.08	0.13	0.14
3400	0.46	0.65	0.87	1.10	1.37	1.66	2.03	2.27	2.60	0.02	0.08	0.13	0.15
3500	0.47	0.66	0.88	1.13	1.41	1.71	2.03	2.34	2.68	0.02	0.08	0.14	0.15
3600	0.47	0.66	0.88	1.14	1.42	1.72	2.04	2.35	2.69	0.02	0.09	0.14	0.16
3700	0.48	0.68	0.90	1.17	1.45	1.77	2.10	2.42	2.77	0.02	0.09	0.15	0.16
3800	0.48	0.68	0.92	1.19	1.46	1.81	2.15	2.45	2.80	0.02	0.09	0.15	0.16
3900	0.48	0.68	0.92	1.19	1.49	1.81	2.16	2.46	2.81	0.02	0.09	0.15	0.17
4000	0.48	0.70	0.94	1.22	1.53	1.86	2.20	2.52	2.88	0.02	0.10	0.16	0.17
4100	0.49	0.70	0.95	1.22	1.53	1.86	2.20	2.53	2.89	0.02	0.10	0.16	0.18
4200	0.49	0.71	0.97	1.25	1.57	1.91	2.25	2.59	2.96	0.02	0.10	0.17	0.18
4300	0.50	0.71	1.00	1.27	1.58	1.92	2.29	2.65	2.97	0.02	0.10	0.17	0.19
4400	0.50	0.72	1.00	1.27	1.59	1.93	2.29	2.65	2.98	0.02	0.11	0.17	0.19
4500	0.50	0.73	1.00	1.30	1.63	1.97	2.34	2.65	2.99	0.02	0.11	0.18	0.19
4600	0.50	0.73	1.00	1.30	1.63	1.98	2.34	2.67	2.99	0.02	0.11	0.18	0.20
4700	0.50	0.75	1.02	1.33	1.66	2.02	2.39	2.73	3.00	0.02	0.11	0.18	0.20
4800	0.51	0.75	1.02	1.34	1.67	2.03	2.40	2.74	3.00	0.02	0.12	0.19	0.21
4900	0.52	0.75	1.03	1.34	1.68	2.04	2.41	2.75	3.10	0.02	0.12	0.19	0.21
5000	0.52	0.76	1.05	1.37	1.71	2.05	2.42	2.78	3.13	0.02	0.12	0.20	0.22
5100	0.52	0.76	1.05	1.37	1.71	2.08	2.45	2.79	3.14	0.02	0.12	0.20	0.22
5200	0.52	0.78	1.07	1.40	1.74	2.12	2.50	2.80	3.15	0.03	0.13	0.20	0.23
5300	0.52	0.78	1.07	1.40	1.75	2.13	2.50	2.82	3.16	0.03	0.13	0.21	0.23
5400	0.52	0.78	1.07	1.40	1.76	2.13	2.50	2.83	3.17	0.03	0.13	0.21	0.23
5500	0.52	0.78	1.08	1.42	1.77	2.15	2.53	2.85	3.18	0.03	0.13	0.22	0.24
5600	0.52	0.78	1.08	1.42	1.78	2.16	2.53	2.86	3.19	0.03	0.13	0.22	0.24
5800	0.53	0.81	1.11	1.47	1.83	2.21	2.54	2.88	3.19	0.03	0.14	0.23	0.25
6000	0.53	0.84	1.11	1.47	1.83	2.21	2.54	2.89	3.19	0.03	0.14	0.24	0.26
6200	0.51	0.79	1.11	1.47	1.84	2.22	2.59	2.90	3.18	0.03	0.15	0.25	0.27
6400	0.51	0.79	1.12	1.47	1.85	2.23	2.60	2.89	3.15	0.03	0.15	0.25	0.28
6600	0.51	0.79	1.12	1.49	1.86	2.24	2.60	2.88	3.12	0.03	0.16	0.26	0.29
6800	0.50	0.79	1.13	1.50	1.87	2.25	2.60	2.87	3.08	0.03	0.16	0.27	0.29
7000	0.50	0.79	1.13	1.50	1.87	2.25	2.59	2.85	3.03	0.03	0.17	0.28	0.30
7200	0.48	0.79	1.13	1.50	1.88	2.25	2.58	2.82	2.97	0.03	0.17	0.28	0.31
7400	0.48	0.80	1.13	1.50	1.88	2.24	2.56	2.79	2.90	0.04	0.18	0.29	0.32
7600	0.46	0.77	1.12	1.50	1.88	2.23	2.53			0.04	0.18	0.30	0.33
7800	0.46	0.77	1.12	1.49	1.87	2.22	2.50			0.04	0.19	0.31	0.34
8000	0.44	0.76	1.11	1.49	1.86	2.20	2.47			0.04	0.19	0.31	0.35
8200	0.44	0.75	1.11	1.48	1.85	2.17				0.04	0.20	0.32	0.35
8400	0.43	0.74	1.10	1.47	1.83	2.15				0.04	0.20	0.32	0.36

Table 6:
Section A: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)							Additional Power (kW) per belt for speed ratio			
	71	80	90	95	100	106	112	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	0.55	0.77	1.00	1.13	1.25	1.39	1.53	0.02	0.06	0.12	0.14
950	0.64	0.93	1.25	1.39	1.55	1.73	1.92	0.02	0.10	0.16	0.18
1450	0.82	1.23	1.69	1.91	2.12	2.38	2.64	0.03	0.16	0.25	0.28
2850	1.06	1.81	2.63	2.96	3.39	3.76	4.26	0.06	0.31	0.49	0.55
100	0.12	0.16	0.20	0.22	0.24	0.26	0.29	0.00	0.01	0.02	0.02
200	0.24	0.32	0.40	0.44	0.48	0.52	0.58	0.00	0.02	0.03	0.04
300	0.36	0.48	0.60	0.66	0.72	0.78	0.87	0.01	0.03	0.05	0.06
400	0.35	0.48	0.63	0.70	0.77	0.85	0.94	0.01	0.04	0.07	0.08
500	0.44	0.60	0.79	0.88	0.96	1.06	1.18	0.01	0.05	0.09	0.10
600	0.47	0.66	0.86	0.97	1.07	1.19	1.31	0.01	0.06	0.10	0.12
700	0.55	0.77	1.00	1.13	1.25	1.39	1.53	0.02	0.08	0.12	0.14
800	0.61	0.88	1.15	1.29	1.43	1.59	1.75	0.02	0.09	0.14	0.16
900	0.61	0.88	1.18	1.32	1.47	1.64	1.82	0.02	0.10	0.16	0.18
950	0.64	0.93	1.25	1.39	1.55	1.73	1.92	0.02	0.10	0.16	0.18
1000	0.68	0.98	1.31	1.47	1.63	1.82	2.02	0.02	0.11	0.17	0.19
1100	0.69	1.01	1.37	1.54	1.71	1.92	2.13	0.02	0.12	0.19	0.21
1200	0.75	1.10	1.50	1.68	1.87	2.09	2.32	0.03	0.13	0.21	0.23
1300	0.76	1.19	1.62	1.82	2.02	2.27	2.52	0.03	0.14	0.22	0.25
1400	0.79	1.19	1.63	1.84	2.05	2.30	2.55	0.03	0.15	0.24	0.27
1450	0.82	1.23	1.69	1.91	2.12	2.38	2.64	0.03	0.16	0.25	0.28
1500	0.85	1.28	1.75	1.97	2.20	2.46	2.73	0.03	0.16	0.26	0.29
1600	0.85	1.39	1.78	2.02	2.26	2.54	2.82	0.03	0.17	0.28	0.31
1700	0.90	1.39	1.89	2.15	2.40	2.70	3.00	0.04	0.18	0.29	0.33
1800	0.91	1.43	2.00	2.27	2.54	2.86	3.17	0.04	0.19	0.31	0.35
1900	0.92	1.44	2.00	2.27	2.54	2.87	3.19	0.04	0.21	0.33	0.37
2000	0.95	1.52	2.11	2.39	2.67	3.02	3.36	0.04	0.22	0.35	0.39
2100	0.96	1.52	2.12	2.42	2.72	3.06	3.41	0.05	0.23	0.36	0.41
2200	0.98	1.59	2.22	2.54	2.85	3.21	3.57	0.05	0.24	0.38	0.43
2300	0.99	1.61	2.30	2.62	2.95	3.33	3.74	0.05	0.25	0.40	0.45
2400	1.00	1.62	2.30	2.63	2.95	3.33	3.80	0.05	0.26	0.42	0.47
2500	1.01	1.68	2.40	2.74	3.07	3.47	3.87	0.05	0.27	0.43	0.49
2600	1.02	1.68	2.40	2.75	3.09	3.50	3.89	0.06	0.28	0.45	0.51
2700	1.06	1.75	2.49	2.86	3.21	3.64	4.04	0.06	0.28	0.47	0.53
2800	1.06	1.81	2.59	2.96	3.33	3.76	4.19	0.06	0.30	0.48	0.54
2850	1.06	1.81	2.63	2.96	3.33	3.76	4.26	0.06	0.31	0.49	0.55
2900	1.06	1.82	2.63	2.96	3.36	3.76	4.26	0.06	0.31	0.50	0.56
3000	1.06	1.82	2.64	3.00	3.38	3.83	4.27	0.06	0.32	0.52	0.58
3100	1.06	1.82	2.64	3.00	3.38	3.83	4.27	0.07	0.34	0.54	0.60
3200	1.06	1.86	2.69	3.10	3.49	3.95	4.41	0.07	0.35	0.55	0.62
3300	1.05	1.86	2.70	3.10	3.55	4.08	4.41	0.07	0.36	0.57	0.64
3400	1.05	1.86	2.70	3.10	3.58	4.08	4.43	0.07	0.37	0.59	0.66
3500	1.05	1.86	2.72	3.15	3.58	4.10	4.56	0.08	0.38	0.61	0.68
3600	1.05	1.87	2.74	3.17	3.58	4.10	4.56	0.08	0.39	0.62	0.70
3700	1.05	1.91	2.82	3.26	3.68	4.17	4.65	0.08	0.40	0.64	0.72
3800	1.04	1.93	2.89	3.35	3.77	4.19	4.71	0.08	0.41	0.66	0.74
3900	0.99	1.93	2.89	3.35	3.77	4.22	4.72	0.08	0.42	0.67	0.76
4000	0.99	1.92	2.89	3.36	3.77	4.26	4.74	0.09	0.43	0.69	0.78
4100	0.98	1.86	2.88	3.36	3.78	4.28	4.75	0.09	0.44	0.71	0.80
4200	0.98	1.85	2.88	3.36	3.78	4.28	4.76	0.09	0.45	0.73	0.82
4300	0.97	1.85	2.85	3.36	3.87	4.38	4.88	0.09	0.46	0.74	0.84
4400	0.95	1.84	2.81	3.26	3.87	4.40	4.66	0.10	0.48	0.76	0.86
4500	0.92	1.83	2.77	3.23	3.86	4.40	4.66	0.10	0.49	0.78	0.88
4600	0.85	1.81	2.77	3.23	3.86	4.18	4.64	0.10	0.50	0.80	0.89
4700	0.85	1.81	2.75	3.23	3.77	4.17	4.64	0.10	0.51	0.81	0.91
4800	0.85	1.80	2.71	3.23	3.75	4.16	4.54	0.10	0.52	0.83	0.93
4900	0.77	1.75	2.70	3.22	3.64	4.12	4.54	0.11	0.53	0.85	0.95
5000	0.77	1.75	2.70	3.22	3.61	4.10	4.53	0.11	0.54	0.87	0.97
5100	0.75	1.69	2.69	3.15	3.58	4.06	4.48	0.11	0.55	0.88	0.99
5200	0.74	1.62	2.64	3.13	3.55	4.04	4.47	0.11	0.56	0.90	1.01
5300	0.73	1.62	2.64	3.12	3.52	4.02	4.46	0.11	0.57	0.92	1.03
5400	0.58	1.59	2.59	3.04	3.46	3.91	4.44	0.12	0.58	0.93	1.05
5500	0.58	1.58	2.54	3.03	3.42	3.90	4.31	0.12	0.59	0.95	1.07
5600	0.55	1.55	2.51	2.95	3.36	3.79		0.12	0.61	0.97	1.09
5700	0.54	1.54	2.50	2.94	3.32	3.76		0.12	0.62	0.99	1.11
5800	0.49	1.52	2.40	2.93	3.30	3.73		0.13	0.63	1.00	1.13
5900	0.40	1.51	2.30	2.90	3.29	3.72		0.13	0.64	1.02	1.15
6000	0.35	1.45	2.20	2.90	3.20	3.71		0.13	0.65	1.04	1.17

Table 6:
Section A: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)							Additional Power (kW) per belt for speed ratio			
	118	125	132	140	150	160	180	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	1.67	1.83	2.00	2.17	2.40	2.63	3.07	0.02	0.08	0.12	0.14
950	2.10	2.30	2.51	2.74	3.04	3.33	3.90	0.02	0.10	0.16	0.18
1450	2.90	3.20	3.49	3.82	4.23	4.63	5.41	0.03	0.16	0.25	0.28
2850	4.69	5.10	5.65	6.16	6.68	7.28	8.48	0.06	0.31	0.49	0.55
100	0.31	0.34	0.37	0.40	0.44	0.48	0.55	0.00	0.01	0.02	0.02
200	0.62	0.68	0.74	0.80	0.88	0.96	1.10	0.00	0.02	0.03	0.04
300	0.93	1.02	1.11	1.20	1.32	1.44	1.65	0.01	0.03	0.05	0.06
400	1.02	1.12	1.21	1.32	1.46	1.59	1.86	0.01	0.04	0.07	0.08
500	1.28	1.40	1.51	1.65	1.83	1.99	2.33	0.01	0.05	0.09	0.10
600	1.43	1.57	1.71	1.86	2.06	2.25	2.63	0.01	0.06	0.10	0.12
700	1.67	1.83	2.00	2.17	2.40	2.63	3.07	0.02	0.08	0.12	0.14
800	1.91	2.09	2.28	2.48	2.75	3.00	3.51	0.02	0.09	0.14	0.16
900	1.99	2.18	2.38	2.60	2.88	3.15	3.69	0.02	0.10	0.16	0.18
950	2.10	2.30	2.51	2.74	3.04	3.33	3.90	0.02	0.10	0.16	0.18
1000	2.21	2.42	2.64	2.89	3.20	3.50	4.10	0.02	0.11	0.17	0.19
1100	2.33	2.56	2.79	3.06	3.38	3.70	4.33	0.02	0.12	0.19	0.21
1200	2.54	2.79	3.04	3.34	3.69	4.04	4.72	0.03	0.13	0.21	0.23
1300	2.75	3.03	3.30	3.62	3.99	4.37	5.12	0.03	0.14	0.22	0.25
1400	2.80	3.09	3.37	3.69	4.08	4.47	5.22	0.03	0.15	0.24	0.27
1450	2.90	3.20	3.49	3.82	4.23	4.63	5.41	0.03	0.16	0.25	0.28
1500	3.00	3.31	3.61	3.95	4.37	4.79	5.59	0.03	0.16	0.26	0.29
1600	3.10	3.41	3.73	4.08	4.51	4.94	5.76	0.03	0.17	0.28	0.31
1700	3.29	3.62	3.96	4.34	4.79	5.25	6.12	0.04	0.18	0.29	0.33
1800	3.49	3.84	4.20	4.59	5.07	5.56	6.48	0.04	0.19	0.31	0.35
1900	3.50	3.85	4.22	4.62	5.10	5.58	6.49	0.04	0.21	0.33	0.37
2000	3.68	4.05	4.44	4.86	5.37	5.87	6.83	0.04	0.22	0.35	0.39
2100	3.75	4.13	4.51	4.94	5.46	5.95	6.91	0.05	0.23	0.36	0.41
2200	3.93	4.33	4.73	5.18	5.72	6.24	7.24	0.05	0.24	0.38	0.43
2300	4.02	4.50	4.91	5.41	5.93	6.53	7.57	0.05	0.25	0.40	0.45
2400	4.08	4.50	4.91	5.41	5.93	6.63	7.67	0.05	0.26	0.42	0.47
2500	4.25	4.69	5.12	5.59	6.18	6.73	7.76	0.05	0.27	0.43	0.49
2600	4.28	4.72	5.15	5.62	6.20	6.74	7.76	0.06	0.28	0.45	0.51
2700	4.45	4.90	5.35	5.84	6.44	7.00	8.04	0.06	0.28	0.47	0.53
2800	4.61	5.00	5.55	6.05	6.68	7.26	8.34	0.06	0.30	0.48	0.54
2850	4.69	5.10	5.65	6.16	6.68	7.28	8.48	0.06	0.31	0.49	0.55
2900	4.69	5.10	5.65	6.16	6.78	7.28	8.48	0.06	0.31	0.50	0.56
3000	4.70	5.14	5.66	6.17	6.78	7.32	8.35	0.06	0.32	0.52	0.58
3100	4.70	5.17	5.66	6.17	6.79	7.33	8.33	0.07	0.34	0.54	0.60
3200	4.84	5.34	5.80	6.32	6.93	7.49	8.33	0.07	0.35	0.55	0.62
3300	4.89	5.50	5.88	6.32	7.14	7.73	8.29	0.07	0.36	0.57	0.64
3400	4.89	5.50	5.88	6.32	7.14	7.54	8.25	0.07	0.37	0.59	0.66
3500	4.96	5.52	5.99	6.41	7.15	7.49	8.20	0.08	0.38	0.61	0.68
3600	4.96	5.55	5.99	6.41	7.15	7.48		0.08	0.39	0.62	0.70
3700	5.10	5.60	6.08	6.59	7.17	7.48		0.08	0.40	0.64	0.72
3800	5.24	5.75	6.20	6.59	7.37	7.46		0.08	0.41	0.66	0.74
3900	5.26	5.75	6.20	6.48	7.19	7.45		0.08	0.42	0.67	0.76
4000	5.29	5.79	6.18	6.48	7.19	7.41		0.09	0.43	0.69	0.78
4100	5.29	5.58	6.17	6.47	6.97	7.37		0.09	0.44	0.71	0.80
4200	5.31	5.56	6.17	6.47	6.97			0.09	0.45	0.73	0.82
4300	5.34	5.52	6.08	6.43	6.88			0.09	0.46	0.74	0.84
4400	5.33	5.52	5.98	6.43	6.88			0.10	0.48	0.76	0.86
4500	5.22	5.49	5.97	6.42	6.54			0.10	0.49	0.78	0.88
4600	5.17	5.41	5.90					0.10	0.50	0.80	0.89
4700	5.17	5.41	5.89					0.10	0.51	0.81	0.91
4800	5.16	5.30	5.87					0.10	0.52	0.83	0.93
4900	4.97	5.20	5.56					0.11	0.53	0.85	0.96
5000	4.97	5.10	5.55					0.11	0.54	0.87	0.97
5100	4.86							0.11	0.55	0.88	0.99
5200	4.86							0.11	0.56	0.90	1.01
5300	4.85							0.11	0.57	0.92	1.03
5400	4.83							0.12	0.58	0.93	1.05
5500	4.80							0.12	0.59	0.95	1.07

Table 7:
Section B: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)								Additional Power (kW) per belt for speed ratio			
	112	125	132	140	150	160	170	180	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	1.55	2.03	2.29	2.58	2.94	3.55	3.65	4.01	0.03	0.17	0.27	0.30
950	1.94	2.48	2.82	3.19	3.65	4.12	4.57	5.14	0.05	0.23	0.37	0.41
1450	2.49	3.29	3.76	4.29	4.94	5.58	6.21	6.98	0.07	0.35	0.56	0.63
2850	3.27	4.71	5.46	5.99	6.89	7.89	8.62	9.22	0.14	0.69	1.10	1.24
100	0.33	0.41	0.46	0.51	0.57	0.63	0.69	0.75	0.00	0.02	0.04	0.04
200	0.66	0.82	0.92	1.02	1.14	1.26	1.38	1.50	0.01	0.05	0.08	0.09
300	0.79	1.23	1.38	1.53	1.71	1.89	2.07	2.25	0.01	0.07	0.12	0.13
400	1.05	1.27	1.43	1.60	1.82	2.03	2.25	2.46	0.02	0.10	0.15	0.17
500	1.32	1.59	1.79	2.00	2.28	2.54	2.81	3.08	0.02	0.12	0.19	0.22
600	1.33	1.74	1.96	2.21	2.52	3.05	3.13	3.44	0.03	0.14	0.23	0.26
700	1.55	2.03	2.29	2.58	2.94	3.55	3.65	4.01	0.03	0.17	0.27	0.30
800	1.83	2.32	2.61	2.95	3.36	3.90	4.17	4.33	0.04	0.19	0.31	0.35
900	1.83	2.35	2.67	3.02	3.46	3.90	4.33	4.87	0.04	0.22	0.35	0.39
950	1.94	2.48	2.82	3.19	3.65	4.12	4.57	5.14	0.05	0.23	0.37	0.41
1000	2.04	2.61	2.97	3.36	3.84	4.33	4.81	5.41	0.05	0.24	0.39	0.43
1100	2.10	2.71	3.08	3.50	4.02	4.53	5.04	5.54	0.05	0.27	0.42	0.48
1200	2.19	2.96	3.36	3.82	4.39	4.94	5.50	6.04	0.06	0.29	0.46	0.52
1300	2.38	3.20	3.50	4.14	4.75	5.35	5.96	6.26	0.06	0.31	0.50	0.56
1400	2.45	3.25	3.63	4.14	4.77	5.39	6.00	6.74	0.07	0.34	0.54	0.61
1450	2.49	3.29	3.76	4.29	4.94	5.58	6.21	6.98	0.07	0.35	0.56	0.63
1500	2.50	3.41	3.89	4.44	5.11	5.78	6.43	7.22	0.07	0.36	0.58	0.65
1600	2.50	3.45	3.95	4.52	5.21	5.89	6.56	7.40	0.08	0.39	0.62	0.69
1700	2.66	3.67	4.20	4.80	5.54	6.26	6.97	7.86	0.09	0.41	0.66	0.74
1800	2.81	3.72	4.36	5.09	5.78	6.54	7.27	7.79	0.09	0.43	0.70	0.78
1900	2.82	3.79	4.36	5.15	5.78	6.54	7.27	8.22	0.09	0.46	0.73	0.82
2000	2.82	3.89	4.59	5.26	6.08	6.86	7.65	8.32	0.10	0.48	0.77	0.87
2100	2.82	3.98	4.59	5.27	6.09	6.90	7.67	8.42	0.10	0.51	0.81	0.91
2200	2.95	4.17	4.81	5.52	6.38	7.23	8.04	8.76	0.11	0.53	0.85	0.96
2300	2.96	4.20	4.86	5.59	6.47	7.32	8.40	8.76	0.11	0.56	0.89	1.00
2400	2.96	4.20	4.86	5.59	6.47	7.32	8.40	9.11	0.12	0.58	0.95	1.04
2500	2.96	4.30	4.96	5.74	6.65	7.52	8.40	9.11	0.12	0.60	0.97	1.09
2600	2.96	4.30	4.96	5.74	6.65	7.52	8.44	9.11	0.13	0.63	1.00	1.13
2700	3.10	4.47	5.17	5.96	6.77	7.81	8.61	9.18	.013	0.65	1.04	1.17
2800	3.21	4.63	5.36	5.96	6.77	7.89	8.61	9.21	0.14	0.68	1.08	1.22
2850	3.27	4.71	5.46	5.99	6.89	7.89	8.62	9.22	0.14	0.69	1.10	1.24
2900	3.30	4.72	5.46	5.99	7.01	7.91	8.77	9.25	0.14	0.70	1.12	1.26
3000	3.20	4.72	5.46	6.00	7.01	7.96	8.99	9.25	0.14	0.72	1.16	1.30
3100	3.10	4.73	5.46	6.00	7.05	7.96	8.99	9.22	0.15	0.75	1.20	1.35
3200	3.05	4.74	5.45	6.10	7.06	7.96	9.01	9.22	0.15	0.77	1.24	1.39
3300	3.03	4.67	5.45	6.29	7.28	7.99	9.05	9.21	0.16	0.80	1.27	1.43
3400	2.98	4.66	5.45	6.30	6.99	7.89	8.55	9.19	0.16	0.82	1.31	1.48
3500	2.93	4.45	5.21	6.32	6.97	7.81	8.55	9.18	0.17	0.84	1.35	1.52
3600	2.89	4.34	4.99	6.35	9.84	7.56	8.39		0.17	0.87	1.39	1.56
3700	2.87	4.34	4.99	6.37	6.81	7.34	8.32		0.18	0.89	1.43	1.61
3800	2.85	4.29	4.95	6.54	6.81	7.24	7.96		0.18	0.92	1.47	1.65
3900	2.59	4.22	4.93	5.89	6.59	7.24	7.95		0.19	0.94	1.51	1.69
4000	2.57	4.21	4.92	5.60	6.45	7.23	7.90		0.19	0.97	1.55	1.74
4100	2.40	3.89	4.59	5.35	5.99				0.20	0.99	1.58	1.78
4200	2.37	3.87	4.59	5.32	5.98				0.20	1.01	1.62	1.82
4300	2.35	3.84	4.30	4.86	5.56				0.21	1.04	1.66	1.87
4400	1.99	3.50	4.29	4.82	5.55				0.21	1.06	1.70	1.91
4500	1.98	3.45	4.28	4.82	5.48				0.22	1.09	1.74	1.95
4600	1.87	3.10	3.80						0.22	1.11	1.78	2.00
4700	1.71	3.10	3.73						0.23	1.13	1.82	2.04
4800	1.60	2.80	3.28						0.23	1.16	1.86	2.08
4900	1.49	2.71	3.28						0.24	1.18	1.89	2.13
5000	1.40	2.70	3.27						0.24	1.21	1.93	2.17

Table 7:
Section B: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)							Additional Power (kW) per belt for speed ratio			
	190	200	212	224	236	250	280	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	4.36	4.70	5.12	5.53	5.94	6.41	7.40	0.03	0.17	0.27	0.30
950	5.46	5.90	6.43	6.94	7.45	8.03	9.26	0.05	0.23	0.37	0.41
1450	7.44	8.04	8.73	9.42	10.09	10.84	12.73	0.07	0.35	0.56	0.63
2850	9.89	10.99	11.45	11.88	12.28			0.14	0.69	1.10	1.24
100	0.81	0.87	0.94	1.01	1.08	1.17	1.34	0.00	0.02	0.04	0.04
200	1.62	1.74	1.88	2.02	2.16	2.34	2.68	0.01	0.05	0.08	0.09
300	2.43	2.61	2.82	3.03	3.24	3.51	4.02	0.01	0.07	0.12	0.13
400	2.67	2.88	3.13	3.37	3.62	3.91	4.51	0.02	0.10	0.15	0.17
500	3.34	3.60	3.91	4.21	4.53	4.89	5.64	0.02	0.12	0.19	0.22
600	3.74	4.03	4.39	4.74	5.09	5.49	6.34	0.03	0.14	0.23	0.26
700	4.36	4.70	5.12	5.53	5.94	6.41	7.40	0.03	0.17	0.27	0.30
800	4.99	5.37	5.85	6.32	6.79	7.32	8.45	0.04	0.19	0.31	0.35
900	5.17	5.59	6.09	6.57	7.06	7.61	8.77	0.04	0.22	0.35	0.39
950	5.46	5.90	6.43	6.94	7.45	8.03	9.26	0.05	0.23	0.37	0.41
1000	5.74	6.21	6.77	7.30	7.84	8.46	9.74	0.05	0.24	0.39	0.43
1100	6.03	6.52	7.10	7.66	8.22	8.86	10.18	0.05	0.27	0.42	0.48
1200	6.58	7.11	7.75	8.36	8.97	9.67	11.11	0.06	0.29	0.46	0.52
1300	7.13	7.71	8.39	9.05	9.71	10.47	11.41	0.06	0.31	0.50	0.56
1400	7.18	7.76	8.43	9.09	9.74	10.47	12.29	0.07	0.34	0.54	0.61
1450	7.44	8.04	8.73	9.42	10.09	10.84	12.73	0.07	0.35	0.56	0.63
1500	7.69	8.31	9.03	9.74	10.44	11.22	12.77	0.07	0.36	0.58	0.65
1600	7.85	8.47	9.20	9.90	10.58	11.35	12.88	0.08	0.39	0.62	0.69
1700	8.34	9.00	9.78	10.52	11.24	12.06	13.59	0.08	0.41	0.66	0.74
1800	8.69	9.53	10.35	10.88	11.53	12.36	13.59	0.09	0.43	0.70	0.78
1900	8.69	9.70	10.45	10.88	11.73	12.36	13.85	0.09	0.46	0.73	0.82
2000	9.14	9.83	10.62	11.36	12.00	13.01	14.06	0.10	0.48	0.77	0.87
2100	9.14	9.83	10.62	11.36	12.06	13.01	14.19	0.10	0.51	0.81	0.91
2200	9.58	10.30	11.13	11.90	12.63	13.06	14.26	0.11	0.53	0.85	0.96
2300	9.63	10.32	11.20	12.44	12.45	13.06	14.26	0.11	0.56	0.89	1.00
2400	9.63	10.32	11.20	12.44	12.45	13.63	14.88	0.12	0.58	0.95	1.04
2500	9.83	10.51	11.25	12.30	12.45	14.20	15.50	0.12	0.60	0.97	1.09
2600	9.83	10.51	11.25	11.90	12.45			0.13	0.63	1.00	1.13
2700	9.85	10.91	11.25	11.90	12.31			.013	0.65	1.04	1.17
2800	9.89	10.96	11.25	11.88	12.31			0.14	0.68	1.08	1.22
2850	9.89	10.99	11.45	11.88	12.28			0.14	0.69	1.10	1.24
2900	9.93	10.99	11.65	11.87	12.27			0.14	0.70	1.12	1.26
3000	9.85	10.91	12.05	11.84	12.20			0.14	0.72	1.16	1.30
3100	9.85	10.41						0.15	0.75	1.20	1.35
3200	9.79	10.41						0.15	0.77	1.24	1.39
3300	9.65	10.12						0.16	0.80	1.27	1.43
3400	9.64	10.12						0.16	0.82	1.31	1.48
3500	9.63	10.10						0.17	0.84	1.35	1.52
3600								0.17	0.87	1.39	1.56
3700								0.18	0.89	1.43	1.61
3800								0.18	0.92	1.47	1.65
3900								0.19	0.94	1.51	1.69
4000								0.19	0.97	1.55	1.74

Table 8:
Section 20: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)													Additional Power (kW) per belt for speed ratio			
	140	160	180	200	224	236	250	280	315	355	400	450	500	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	2.83	3.60	4.34	5.06	5.93	6.34	6.83	7.83	8.96	10.20	12.43	14.04	16.42	0.04	0.18	0.29	0.32
950	3.46	4.43	5.38	6.31	7.35	7.87	8.47	9.69	11.03	12.45	15.27	17.03	19.05	0.05	0.24	0.39	0.44
1450	4.41	5.72	6.98	8.16	9.49	10.13	10.83	12.21	13.62	14.91	18.65			0.07	0.37	0.59	0.67
2850	5.02	6.61	7.87	8.81	9.45									0.15	0.73	1.17	1.31
50	0.36	0.43	0.52	0.59	0.68	0.72	0.78	0.89	1.02	1.16	1.60	2.04	3.67	0.00	0.01	0.02	0.02
100	0.64	0.78	0.93	1.07	1.23	1.32	1.41	1.61	1.85	2.11	2.45	2.93	4.52	0.01	0.03	0.04	0.06
150	0.89	1.09	1.30	1.50	1.73	1.85	1.99	2.28	2.60	2.97	3.06	3.68	5.61	0.01	0.04	0.06	0.07
200	1.11	1.36	1.64	1.90	2.20	2.35	2.53	2.89	3.32	3.79	4.35	4.98	6.75	0.01	0.05	0.08	0.09
250	1.33	1.64	1.97	2.28	2.65	2.83	3.03	3.48	3.99	4.56	5.24	6.00	7.88	0.01	0.06	0.10	0.12
300	1.52	1.90	2.27	2.64	3.07	3.27	3.52	4.04	4.63	5.29	6.14	7.02	8.97	0.02	0.08	0.12	0.14
350	1.72	2.14	2.56	2.98	3.47	3.72	3.99	4.58	5.25	5.99	6.99	7.99	10.15	0.02	0.09	0.14	0.16
400	1.89	2.38	2.85	3.32	3.86	4.13	4.44	5.10	5.84	6.67	7.92	9.06	11.13	0.02	0.10	0.16	0.18
450	2.06	2.59	3.12	3.63	4.23	4.53	4.87	5.59	6.42	7.32	8.70	9.93	12.22	0.02	0.12	0.18	0.21
500	2.22	2.81	3.38	3.94	4.59	4.91	5.29	6.07	6.97	7.95	9.57	10.91	13.09	0.03	0.13	0.21	0.23
550	2.39	3.00	3.63	4.23	4.95	5.29	5.69	6.53	7.48	8.54	10.29	11.70	14.05	0.03	0.14	0.23	0.25
600	2.54	3.22	3.88	4.53	5.28	5.66	6.08	6.99	8.00	9.12	11.05	12.54	14.84	0.03	0.15	0.25	0.28
650	2.69	3.41	4.11	4.81	5.61	6.11	6.46	7.41	8.49	9.67	11.74	13.29	15.63	0.03	0.17	0.27	0.30
700	2.83	3.60	4.34	5.06	5.93	6.34	6.83	7.83	8.96	10.20	12.43	14.04	16.42	0.04	0.18	0.29	0.32
750	2.96	3.77	4.56	5.34	6.23	6.67	7.18	8.23	9.41	10.69	13.11	14.79	17.21	0.04	0.19	0.31	0.35
800	3.09	3.94	4.77	5.58	6.52	6.99	7.52	8.62	9.84	11.17	13.80	15.54	17.67	0.04	0.21	0.33	0.37
850	3.22	4.11	4.98	5.83	6.81	7.29	7.84	8.97	10.26	11.62	14.29	16.04	18.13	0.04	0.22	0.35	0.39
900	3.34	4.28	5.18	6.07	7.10	7.59	8.16	9.34	10.65	12.05	14.78	16.53	18.59	0.05	0.23	0.37	0.42
950	3.46	4.43	5.38	6.31	7.35	7.87	8.47	9.69	11.03	12.45	15.27	17.03	19.05	0.05	0.24	0.39	0.44
1000	3.57	4.59	5.56	6.51	7.61	8.15	8.76	10.01	11.38	12.82	15.78	17.53	19.51	0.05	0.26	0.41	0.46
1050	3.68	4.73	5.75	6.73	7.86	8.41	9.04	10.31	11.72	13.18	16.24	18.02	19.97	0.05	0.27	0.43	0.48
1100	3.78	4.87	5.92	6.93	8.10	8.66	9.31	10.62	12.03	13.49	16.73	18.52	20.43	0.06	0.28	0.45	0.51
1150	3.89	5.01	6.09	7.14	8.33	8.91	9.56	10.89	12.32	13.78	17.22	19.01	20.89	0.06	0.29	0.47	0.53
1200	3.99	5.14	6.25	7.32	8.55	9.14	9.81	11.16	12.59	14.05	17.71	19.51		0.06	0.31	0.49	0.55
1250	4.07	5.27	6.42	7.51	8.76	9.35	10.03	11.40	12.84	14.28	17.90			0.06	0.32	0.51	0.58
1300	4.16	5.39	6.56	7.68	8.95	9.57	10.25	11.63	13.07	14.48	18.09			0.07	0.33	0.53	0.60
1350	4.24	5.51	6.71	7.85	9.15	9.76	10.45	11.85	13.27	14.66	18.27			0.07	0.35	0.55	0.62
1400	4.33	5.62	6.85	8.00	9.33	9.95	10.65	12.04	13.46	14.80	18.46			0.07	0.36	0.57	0.65
1450	4.41	5.72	6.98	8.16	9.49	10.13	10.83	12.21	13.62	14.91	18.65			0.07	0.37	0.59	0.67
1500	4.48	5.82	7.10	8.31	9.66	10.29	10.99	12.38	13.75	14.99	18.84			0.08	0.38	0.62	0.69
1550	4.55	5.92	7.21	8.43	9.81	10.44	11.15	12.52	13.86	15.03	19.02			0.08	0.40	0.64	0.71
1600	4.61	6.02	7.33	8.56	9.94	10.58	11.29	12.65	13.94	15.03	19.21			0.08	0.41	0.66	0.74
1650	4.68	6.10	7.43	8.68	10.07	10.74	11.40	12.74	14.01	15.01				0.08	0.42	0.68	0.76
1700	4.73	6.18	7.54	8.79	10.18	10.82	11.51	12.83	14.04	14.95				0.09	0.44	0.70	0.78
1750	4.80	6.25	7.62	8.90	10.28	10.92	11.61	12.90	14.04	14.84				0.09	0.45	0.72	0.81
1800	4.84	6.33	7.71	9.00	10.38	11.02	11.71	12.95	14.02	14.71				0.09	0.46	0.74	0.83
1850	4.89	6.39	7.80	9.08	10.47	11.09	11.78	12.97	13.98	14.53				0.09	0.47	0.76	0.85
1900	4.94	6.46	7.86	9.16	10.53	11.16	11.82	12.97	13.90	14.31				0.10	0.49	0.78	0.88
1950	4.97	6.51	7.94	9.22	10.59	11.22	11.85	12.96	13.79	14.05				0.10	0.50	0.80	0.90
2000	5.01	6.57	7.99	9.29	10.64	11.24	11.86	12.93	13.65	13.76				0.10	0.51	0.82	0.92
2050	5.04	6.61	8.05	9.33	10.68	11.26	11.87	12.86	13.49					0.11	0.53	0.84	0.95
2100	5.07	6.65	8.09	9.37	10.70	11.26	11.85	12.79	13.29					0.11	0.54	0.86	0.97
2150	5.09	6.69	8.13	9.41	10.71	11.26	11.82	12.68	13.06					0.11	0.55	0.88	0.99
2200	5.11	6.72	8.16	9.43	10.71	11.24	11.77	12.55	12.80					0.11	0.56	0.90	1.01
2250	5.13	6.74	8.19	9.44	10.69	11.21	11.71	12.40	12.51					0.12	0.58	0.92	1.04
2300	5.14	6.76	8.20	9.45	10.67	11.16	11.63	12.23						0.12	0.59	0.94	1.06
2350	5.15	6.77	8.21	9.44	10.63	11.09	11.52	12.03						0.12	0.60	0.96	1.08
2400	5.15	6.78	8.21	9.43	10.57	11.02	11.40	11.80						0.12	0.62	0.98	1.11
2450	5.15	6.78	8.21	9.40	10.51	10.92	11.28	11.56						0.13	0.63	1.01	1.13
2500	5.15	6.78	8.19	9.36	10.42	10.81	11.12	11.29						0.13	0.64	1.03	1.15
2550	5.14	6.77	8.18	9.31	10.32	10.68								0.13	0.65	1.05	1.18
2600	5.13	6.76	8.14	9.26	10.22	10.53								0.13	0.67	1.07	1.20
2650	5.11	6.74	8.10	9.19	10.10	10.37								0.14	0.68	1.09	1.22
2700	5.09	6.71	8.06	9.12	9.96	10.21								0.14	0.69	1.11	1.25
2750	5.07	6.67	8.00	9.02	9.81	10.02								0.14	0.71	1.13	1.27
2800	5.03	6.64	7.94	8.92	9.63									0.14	0.72	1.15	1.29
2850	5.02	6.61	7.87	8.81	9.45									0.15	0.73	1.17	1.31
2900	4.96	6.54	7.80	8.68	9.26									0.15	0.74	1.19	1.34
2950	4.92	6.49	7.71	8.55	9.04									0.15	0.76	1.21	1.36
3000	4.87	6.43	7.61	8.41	8.80									0.15	0.77	1.23	1.38

Table 9:
Section C: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)								Additional Power (kW) per belt for speed ratio			
	180	200	212	224	236	250	265	280	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	4.51	5.66	6.35	7.02	7.69	8.47	9.28	10.09	0.08	0.40	0.63	0.71
950	5.60	7.08	7.95	8.81	9.67	10.64	11.67	12.69	0.11	0.54	0.86	0.97
1450	7.23	9.24	10.42	11.79	12.67	14.21	15.59	16.85	0.16	0.82	1.31	1.48
2850	7.54	10.13	11.11	12.34					0.32	1.61	2.58	2.90
50	0.53	0.64	0.70	0.76	0.83	0.90	0.98	1.06	0.01	0.03	0.05	0.05
100	1.06	1.28	1.40	1.52	1.66	1.80	1.96	2.12	0.01	0.06	0.09	0.10
150	1.59	1.92	2.10	2.28	2.49	2.70	2.94	3.18	0.02	0.08	0.14	0.15
200	1.69	2.07	2.30	2.52	2.75	3.00	3.28	3.55	0.02	0.11	0.18	0.20
250	2.11	2.59	2.88	3.15	3.44	3.75	4.10	4.44	0.03	0.14	0.23	0.25
300	2.35	2.90	3.22	3.54	3.87	4.24	4.64	5.03	0.03	0.17	0.27	0.31
350	2.74	3.38	3.76	4.13	4.52	4.95	5.41	5.87	0.04	0.20	0.32	0.36
400	3.13	3.87	4.29	4.72	5.16	5.65	6.19	6.71	0.05	0.23	0.36	0.41
450	3.23	4.02	4.48	4.95	5.41	5.94	6.51	7.07	0.05	0.25	0.41	0.46
500	3.59	4.47	4.98	5.50	6.01	6.60	7.23	7.86	0.06	0.28	0.45	0.51
550	3.77	4.71	5.26	5.81	6.36	6.99	7.67	8.33	0.06	0.31	0.50	0.56
600	4.11	5.14	5.74	6.34	6.94	7.63	8.37	9.09	0.07	0.34	0.54	0.61
650	4.46	5.57	6.22	6.87	7.52	8.26	9.06	9.84	0.07	0.37	0.59	0.66
700	4.51	5.66	6.35	7.02	7.69	8.47	9.28	10.09	0.08	0.40	0.63	0.71
750	4.83	6.06	6.80	7.52	8.24	9.08	9.94	10.81	0.08	0.42	0.68	0.76
800	4.97	6.26	7.02	7.77	8.52	9.38	10.29	11.18	0.09	0.45	0.72	0.81
850	5.28	6.65	7.48	8.26	9.05	9.97	10.93	11.88	0.10	0.48	0.77	0.87
900	5.59	7.04	7.90	8.74	9.59	10.55	11.58	12.58	0.10	0.51	0.81	0.92
950	5.60	7.08	7.95	8.81	9.67	10.64	11.67	12.69	0.11	0.54	0.86	0.97
1000	5.90	7.45	8.37	9.27	10.18	11.20	12.28	13.36	0.11	0.57	0.91	1.02
1050	5.98	7.56	8.52	9.45	10.37	11.42	12.52	13.60	0.12	0.59	0.95	1.07
1100	6.27	7.94	8.93	9.90	10.86	11.96	13.12	14.25	0.12	0.62	1.00	1.12
1150	6.50	8.27	9.31	10.31	11.31	12.51	13.71	14.69	0.13	0.65	1.04	1.17
1200	6.50	8.27	9.31	10.33	11.33	12.69	13.79	14.83	0.14	0.68	1.09	1.22
1250	6.77	8.61	9.70	10.76	11.80	12.99	14.24	15.45	0.14	0.71	1.13	1.27
1300	6.81	8.69	9.79	10.86	11.91	13.10	14.35	15.56	0.15	0.74	1.18	1.32
1350	7.07	9.02	10.16	11.28	12.37	13.60	14.90	16.16	0.15	0.76	1.22	1.37
1400	7.21	9.22	10.41	11.70	12.63	14.11	15.45	16.76	0.16	0.79	1.27	1.42
1450	7.23	9.24	10.42	11.79	12.67	14.21	15.59	16.85	0.16	0.82	1.31	1.48
1500	7.41	9.56	10.78	11.96	13.11	14.41	15.77	17.06	0.17	0.85	1.36	1.53
1550	7.45	9.57	10.78	11.97	13.11	14.41	15.79	17.09	0.18	0.88	1.40	1.58
1600	7.69	9.86	11.13	12.36	13.53	14.88	16.24	17.55	0.18	0.91	1.45	1.63
1650	7.71	10.19	11.48	12.74	13.59	15.34	16.29	17.59	0.19	0.93	1.49	1.68
1700	7.77	10.19	11.49	12.75	13.66	15.41	16.33	17.60	0.19	0.96	1.54	1.73
1750	7.91	10.27	11.58	12.85	14.06	15.43	16.81	17.87	0.20	0.99	1.58	1.78
1800	7.93	10.28	11.59	12.89	14.09	15.56	16.89	17.86	0.20	1.02	1.63	1.83
1850	8.11	10.48	11.82	13.01	14.69	15.70	17.09	18.38	0.21	1.05	1.67	1.88
1900	8.11	10.49	11.89	13.03	14.73	15.75	17.10	18.87	0.22	1.07	1.72	1.93
1950	8.12	10.50	11.99	13.06	14.75	15.85	17.11	18.69	0.22	1.10	1.77	1.98
2000	8.19	10.55	12.08	13.40	14.64	15.99	17.33	18.56	0.23	1.13	1.81	2.04
2050	8.20	10.58	12.09	13.42	14.40	16.06	17.35	18.12	0.23	1.16	1.86	2.09
2100	8.40	10.84	12.21	13.52	14.39	16.08	17.38	18.11	0.24	1.19	1.90	2.14
2150	8.41	11.10	12.25	13.84	14.37	16.47	17.80	18.03	0.24	1.22	1.95	2.19
2200	8.42	11.68	12.26	13.61	14.35	16.00	16.90	18.02	0.25	1.24	1.99	2.24
2250	8.43	11.89	12.29	13.58	14.29	16.00	16.89	18.01	0.25	1.27	2.04	2.29
2300	8.44	11.90	12.29	13.56	14.28	15.98	16.73		0.26	1.30	2.08	2.34
2350	8.45	11.91	12.30	13.55	14.21	15.94	16.73		0.27	1.33	2.13	2.39
2400	8.61	11.14	12.54	13.49	14.19	15.41	16.45		0.27	1.36	2.20	2.44
2450	8.45	10.83	11.91	13.45	14.18	15.39	16.41		0.28	1.39	2.22	2.49
2500	8.35	10.82	11.89	13.37	14.15	15.01	16.40		0.28	1.41	2.26	2.54
2550	8.25	10.70	11.76	13.23	13.94				0.29	1.44	2.31	2.60
2600	8.24	10.69	11.75	13.16	13.91				0.29	1.47	2.35	2.65
2650	8.21	10.65	11.65	13.12	13.61				0.30	1.50	2.40	2.70
2700	7.86	10.20	11.42	12.49	13.59				0.31	1.53	2.44	2.75
2750	7.75	10.19	11.41	12.45	13.48				0.31	1.56	2.49	2.80
2800	7.66	10.14	11.12	12.42					0.32	1.58	2.53	2.85
2850	7.54	10.13	11.11	12.34					0.32	1.61	2.58	2.90
2900	7.51	10.10	10.75	11.91					0.33	1.64	2.63	2.95
2950	7.40	9.47	10.73	11.87					0.33	1.67	2.67	3.00
3000	7.40	9.39	10.55	11.86					0.34	1.70	2.72	3.05
3050	6.98	9.23							0.35	1.73	2.76	3.10
3100	6.75	9.23							0.35	1.75	2.81	3.15
3150	6.63	8.62							0.36	1.78	2.85	3.21
3200	6.61	8.61							0.36	1.81	2.90	3.26
3250	6.52	8.59							0.37	1.84	2.94	3.31

Table 9:
Section C: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)							Additional Power (kW) per belt for speed ratio			
	300	315	335	355	375	400	450	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	11.13	11.94	12.98	14.00	15.79	16.22	18.58	0.08	0.40	0.63	0.71
950	14.01	14.98	16.24	17.47	18.66	20.13	22.79	0.11	0.54	0.86	0.97
1450	18.59	19.63	20.62	22.68	23.13	24.46	26.56	0.16	0.82	1.31	1.48
2850								0.32	1.61	2.58	2.90
50	1.16	1.24	1.34	1.44	1.54	1.67	1.92	0.01	0.03	0.05	0.05
100	2.32	2.48	2.68	2.88	3.08	3.34	3.84	0.01	0.06	0.09	0.10
150	3.48	3.72	4.02	4.32	4.62	5.01	5.76	0.02	0.08	0.14	0.15
200	3.92	4.19	4.55	4.91	5.26	5.70	6.57	0.02	0.11	0.18	0.20
250	4.90	5.24	5.69	6.14	6.58	7.13	8.21	0.03	0.14	0.23	0.25
300	5.55	5.94	6.45	6.97	7.47	8.10	9.34	0.03	0.17	0.27	0.31
360	6.48	6.93	7.53	8.13	8.72	9.45	10.90	0.04	0.20	0.32	0.36
400	7.40	7.92	8.60	9.29	9.96	10.80	12.45	0.05	0.23	0.36	0.41
450	7.81	8.36	9.09	10.45	11.20	11.41	13.14	0.05	0.25	0.41	0.46
500	8.68	9.29	10.10	11.55	12.36	12.68	14.60	0.06	0.28	0.45	0.51
550	9.21	9.86	10.72	11.57	12.41	13.44	15.46	0.06	0.31	0.50	0.56
600	10.05	10.76	11.69	12.62	13.54	14.66	16.87	0.07	0.34	0.54	0.61
650	10.88	11.65	12.67	13.67	14.67	15.88	18.27	0.07	0.37	0.59	0.66
700	11.13	11.94	12.98	14.00	15.79	16.22	18.58	0.08	0.40	0.63	0.71
750	11.93	12.79	13.91	15.00	16.32	17.38	19.91	0.08	0.42	0.68	0.76
800	12.36	13.23	14.36	15.47	16.56	17.89	20.42	0.09	0.45	0.72	0.81
850	13.13	14.06	15.26	16.44	17.60	19.01	21.70	0.10	0.48	0.77	0.87
900	13.91	14.88	16.16	17.40	18.63	20.13	22.69	0.10	0.51	0.81	0.92
950	14.01	14.98	16.24	17.47	18.66	20.13	22.79	0.11	0.54	0.86	0.97
1000	14.75	15.77	17.10	18.39	19.64	21.16	23.99	0.11	0.57	0.91	1.02
1050	15.01	16.03	17.36	18.64	19.88	21.36	24.07	0.12	0.59	0.95	1.07
1100	15.73	16.79	18.19	19.53	20.83	22.38	24.62	0.12	0.62	1.00	1.12
1150	16.44	17.56	18.36	20.42	20.94	22.48	25.11	0.13	0.65	1.04	1.17
1200	16.49	17.61	18.82	20.60	21.42	22.90	25.53	0.14	0.68	1.09	1.22
1250	17.02	18.15	19.60	20.99	22.31	23.30	25.88	0.14	0.71	1.13	1.27
1300	17.11	18.22	19.64	20.98	22.33	23.69	26.17	0.15	0.74	1.18	1.32
1350	17.77	18.92	20.40	21.79	22.86	23.98	26.37	0.15	0.76	1.22	1.37
1400	18.43	19.62	20.80	22.59	22.87	24.26	26.49	0.16	0.79	1.27	1.42
1450	18.59	19.63	20.62	22.68	23.13	24.46	26.56	0.16	0.82	1.31	1.48
1500	18.70	19.86	21.33	22.69	23.93	25.10	26.54	0.17	0.85	1.36	1.53
1550	18.79	19.71	21.36	22.36	23.48	24.70	25.43	0.18	0.88	1.40	1.58
1600	19.20	20.35	21.39	22.50	23.44	24.69	26.24	0.18	0.91	1.45	1.63
1650	19.80	20.98	21.49	22.61	23.43	24.69	25.96	0.19	0.93	1.49	1.68
1700	19.81	20.97	21.54	22.67	24.36	24.59	25.59	0.19	0.96	1.54	1.73
1750	19.85	20.96	22.89	22.66	23.33	24.42	25.13	0.20	0.99	1.58	1.78
1800	19.89	20.95	22.59	22.65				0.20	1.02	1.63	1.83
1850	19.94	20.92	22.55	22.59				0.21	1.05	1.67	1.88
1900	20.48	20.47	21.57	22.44				0.22	1.07	1.72	1.93
1950	19.52	20.47	21.56	22.39				0.22	1.10	1.77	1.98
2000	19.51	20.44	21.32	22.02				0.23	1.13	1.81	2.04
2050	19.44							0.23	1.16	1.86	2.09
2100	19.43							0.24	1.19	1.90	2.14
2150	19.23							0.24	1.22	1.95	2.19
2200	19.21							0.25	1.24	1.99	2.24
2250	19.20							0.25	1.27	2.04	2.29

Table 10:
Section 25: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)													Additional Power (kW) per belt for speed ratio			
	224	236	250	280	315	355	400	450	500	560	630	710	800	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	6.08	6.91	7.89	9.93	12.24	14.61	17.57	20.49	23.25	26.33	31.16	34.53	37.65	0.12	0.61	0.97	1.09
950	7.34	8.40	9.62	12.17	15.01	18.08	21.29	24.54	27.42	30.36				0.16	0.82	1.32	1.48
1450	8.72	10.09	11.63	14.73	17.99	21.15	23.97	26.07						0.25	1.26	2.01	2.26
50	0.75	0.83	0.92	1.11	1.34	1.59	1.88	2.19	2.50	2.88	3.56	4.35	5.23	0.01	0.04	0.07	0.08
100	1.35	1.50	1.67	2.03	2.46	2.94	3.48	4.07	4.65	5.34	6.16	7.05	8.09	0.02	0.09	0.14	0.16
150	1.88	2.10	2.34	2.08	3.50	4.19	4.96	5.81	6.66	7.65	8.78	10.05	11.46	0.03	0.13	0.21	0.23
200	2.36	2.65	2.97	3.67	4.46	5.37	6.37	7.47	8.55	9.83	11.39	13.05	14.83	0.03	0.17	0.28	0.31
250	2.84	3.18	3.57	4.42	5.39	6.49	7.71	9.04	10.36	11.91	13.76	15.74	17.88	0.04	0.22	0.35	0.39
300	3.26	3.67	4.14	5.14	6.28	7.56	9.00	10.56	12.09	13.90	16.12	18.42	20.93	0.05	0.26	0.42	0.47
350	3.68	4.14	4.68	5.82	7.13	8.60	10.23	12.01	13.75	15.79	18.27	20.84	23.64	0.06	0.30	0.49	0.55
400	4.07	4.59	5.20	6.47	7.95	9.60	11.43	13.41	15.33	17.59	20.42	23.25	26.35	0.07	0.35	0.55	0.62
450	4.44	5.02	5.69	7.12	8.74	10.56	12.56	14.73	16.85	19.30	22.36	25.41	28.64	0.08	0.39	0.62	0.70
500	4.80	5.44	6.17	7.73	9.50	11.48	13.66	16.02	18.29	20.92	24.30	27.56	30.92	0.09	0.43	0.69	0.78
550	5.15	5.83	6.62	8.30	10.23	12.37	14.71	17.23	19.68	22.44	26.00	29.37	32.80	0.10	0.48	0.76	0.86
600	5.47	6.21	7.06	8.87	10.92	13.21	15.72	18.38	20.94	23.85	27.70	31.18	34.68	0.10	0.52	0.83	0.94
650	5.78	6.57	7.49	9.41	11.60	14.03	16.67	19.47	22.14	25.15	29.43	32.86	36.17	0.11	0.56	0.90	1.01
700	6.08	6.91	7.89	9.93	12.24	14.81	17.57	20.49	23.25	26.33	31.16	34.53	37.65	0.12	0.61	0.97	1.09
750	6.36	7.24	8.27	10.42	12.86	15.54	18.43	21.45	24.28	27.40	32.89	36.20	39.14	0.13	0.65	1.04	1.17
800	6.63	7.55	8.63	10.89	13.44	16.24	19.23	22.34	25.22	28.34				0.14	0.69	1.11	1.25
850	6.88	7.85	8.99	11.34	14.00	16.90	19.97	23.14	26.05	29.15				0.15	0.74	1.18	1.33
900	7.12	8.13	9.31	11.77	14.52	17.51	20.68	23.88	26.79	29.82				0.16	0.78	1.25	1.40
950	7.34	8.40	9.62	12.17	15.01	18.08	21.29	24.54	27.42	30.36				0.16	0.82	1.32	1.48
1000	7.54	8.65	9.91	12.54	15.47	18.61	21.86	25.11	27.94	30.73				0.17	0.87	1.39	1.56
1050	7.74	8.88	10.19	12.89	15.89	19.09	22.37	25.61	28.34	30.96				0.18	0.91	1.46	1.64
1100	7.92	9.10	10.44	13.23	16.29	19.53	22.82	26.00	28.63	31.01				0.19	0.95	1.53	1.72
1150	8.08	9.30	10.67	13.52	16.64	19.91	23.20	26.31	28.80	30.90				0.20	1.00	1.60	1.79
1200	8.23	9.58	10.88	13.79	16.96	20.26	23.51	26.53	28.85	30.61				0.21	1.04	1.66	1.87
1250	8.36	9.63	11.07	14.04	17.24	20.54	23.75	26.64	28.75	30.14				0.22	1.08	1.73	1.95
1300	8.47	9.77	11.25	14.26	17.48	20.78	23.93	26.65						0.23	1.13	1.80	2.03
1350	8.57	9.90	11.40	14.45	17.69	20.98	24.01	26.57						0.23	1.17	1.87	2.10
1400	8.66	10.00	11.52	14.61	17.86	21.08	24.03	26.36						0.24	1.21	1.94	2.18
1450	8.72	10.09	11.63	14.73	17.99	21.15	23.97	26.07						0.25	1.26	2.01	2.26
1500	8.77	10.15	11.72	14.84	18.06	21.16	23.82	25.64						0.26	1.30	2.08	2.34
1550	8.80	10.21	11.78	14.91	18.10	21.11								0.27	1.34	2.15	2.42
1600	8.82	10.23	11.81	14.94	18.09	20.99								0.28	1.39	2.22	2.49
1650	8.81	10.24	11.82	14.94	18.04	20.82								0.29	1.43	2.29	2.57
1700	8.78	10.22	11.81	14.92	17.94	20.58								0.29	1.47	2.36	2.65
1750	8.74	10.19	11.77	14.84	17.80	20.27								0.30	1.52	2.43	2.73
1800	8.68	10.12	11.71	14.74	17.60									0.31	1.56	2.50	2.81
1850	8.60	10.05	11.62	14.61	17.37									0.32	1.60	2.57	2.88
1900	8.50	9.94	11.50	14.43	17.07									0.33	1.65	2.64	2.96
1950	8.38	9.81	11.36	14.22	16.71									0.34	1.69	2.70	3.04
2000	8.24	9.66	11.19	13.97	16.32									0.35	1.73	2.77	3.12
2050	8.08	9.48	10.99	13.69										0.36	1.78	2.84	3.20
2100	7.89	9.28	10.75	13.36										0.36	1.82	2.91	3.27
2150	7.68	9.05	10.50	12.99										0.37	1.86	2.98	3.35
2200	7.46	8.81	10.21	12.58										0.38	1.91	3.05	3.43
2250	7.20	8.53	9.89	12.13										0.39	1.95	3.12	3.51
2300	6.93	8.22	9.53											0.40	1.99	3.19	3.59
2350	6.63	7.89	9.16											0.41	2.04	3.26	3.66
2400	6.31	7.53	8.74											0.42	2.08	3.33	3.74
2450	5.97	7.15	8.29											0.42	2.12	3.40	3.82
2500	5.60	6.73	7.81											0.43	2.17	3.47	3.90

Table 11:
Section D: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)										Additional Power (kW) per belt for speed ratio			
	315	335	355	375	400	425	450	475	500	530	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	16.05	17.41	20.12	22.10	24.53	26.89	29.20	30.36	33.65	34.92	0.23	1.14	1.82	2.05
950	19.43	21.38	24.35	26.71	29.56	32.28	34.88	35.92	39.69	40.72	0.31	1.54	2.47	2.78
20	0.83	0.98	1.01	1.09	1.20	1.30	1.41	1.52	1.62	1.75	0.01	0.03	0.05	0.06
40	1.53	1.76	1.86	2.02	2.22	2.42	2.61	2.84	3.01	3.33	0.01	0.06	0.10	0.12
60	2.18	2.47	2.65	2.89	3.17	3.47	3.76	4.07	4.33	4.72	0.02	0.10	0.16	0.18
80	2.79	3.05	3.40	3.71	4.06	4.46	4.84	5.09	5.59	5.91	0.03	0.13	0.21	0.23
100	3.38	3.63	4.13	4.50	4.97	5.43	5.89	6.12	6.80	7.11	0.03	0.16	0.26	0.29
120	3.95	4.21	4.83	5.27	5.82	6.36	6.91	7.15	7.98	8.31	0.04	0.19	0.31	0.35
140	4.49	4.79	5.51	6.02	6.66	7.28	7.90	8.17	9.14	9.50	0.05	0.23	0.36	0.41
160	5.03	5.37	6.17	6.75	7.47	8.17	8.87	9.20	10.26	10.70	0.06	0.26	0.42	0.47
180	5.54	5.96	6.83	7.47	8.25	9.04	9.82	10.22	11.36	11.89	0.06	0.29	0.47	0.53
200	6.05	6.53	7.47	8.16	9.03	9.89	10.75	11.25	12.44	13.09	0.06	0.32	0.52	0.58
220	6.55	7.05	8.09	8.85	9.80	10.73	11.67	12.18	13.51	14.14	0.07	0.36	0.57	0.64
240	7.04	7.56	8.69	9.61	10.54	11.55	12.56	13.11	14.55	15.19	0.08	0.39	0.62	0.70
260	7.51	8.08	9.29	10.17	11.28	12.36	13.44	14.03	15.57	16.25	0.08	0.42	0.68	0.76
280	7.98	8.58	9.86	10.83	11.99	13.16	14.30	14.96	16.58	17.30	0.09	0.45	0.73	0.82
300	8.43	9.11	10.46	11.46	12.71	13.93	15.15	15.89	17.57	18.35	0.10	0.49	0.78	0.88
320	8.88	9.58	11.03	12.09	13.40	14.70	15.99	16.73	18.53	19.33	0.10	0.52	0.83	0.94
340	9.32	10.04	11.58	12.71	14.08	15.46	16.81	17.58	19.49	20.31	0.11	0.55	0.88	0.99
360	9.77	10.51	12.14	13.30	14.75	16.19	17.62	18.42	20.42	21.28	0.12	0.58	0.94	1.05
380	10.19	10.97	12.67	13.90	15.41	16.90	18.41	19.27	21.34	22.26	0.12	0.62	0.99	1.11
400	10.61	11.44	13.20	14.48	16.07	17.64	19.19	20.11	22.24	23.24	0.13	0.65	1.04	1.17
420	11.01	11.88	13.72	15.06	16.71	18.31	19.96	20.87	23.13	24.11	0.14	0.68	1.09	1.23
440	11.42	12.32	14.24	15.62	17.34	19.04	20.71	21.62	23.99	24.99	0.14	0.71	1.14	1.29
460	11.82	12.75	14.74	16.16	17.96	19.71	21.45	22.38	24.84	25.86	0.15	0.75	1.20	1.34
480	12.21	13.19	15.24	16.73	18.56	20.38	22.18	23.13	25.68	26.74	0.16	0.78	1.25	1.40
500	12.59	13.63	15.72	17.26	19.16	21.03	22.88	23.89	26.49	27.61	0.16	0.81	1.30	1.46
520	12.97	14.03	16.20	17.79	19.75	21.69	23.58	24.54	27.29	28.40	0.17	0.84	1.35	1.52
540	13.35	14.44	16.67	18.30	20.33	22.31	24.27	25.19	28.08	29.19	0.18	0.88	1.40	1.58
560	13.70	14.84	17.14	18.82	20.88	22.92	24.93	25.84	28.83	29.97	0.18	0.91	1.46	1.64
580	14.06	15.25	17.59	19.31	21.44	23.53	25.59	26.49	29.58	30.76	0.19	0.94	1.51	1.69
600	14.41	15.65	18.03	19.80	21.98	24.13	26.23	27.34	30.30	31.55	0.19	0.97	1.56	1.75
620	14.75	16.00	18.47	20.29	22.51	24.71	26.85	27.94	31.02	32.22	0.20	1.01	1.61	1.81
640	15.09	16.36	18.89	20.75	23.04	25.27	27.46	28.55	31.70	32.90	0.21	1.04	1.66	1.87
660	15.42	16.71	19.31	21.21	23.54	25.82	28.06	29.15	32.37	33.57	0.21	1.07	1.72	1.93
680	15.74	17.06	19.72	21.66	24.03	26.37	28.63	29.76	33.02	34.25	0.22	1.10	1.77	1.99
700	16.05	17.41	20.12	22.10	24.53	26.89	29.20	30.36	33.65	34.92	0.23	1.14	1.82	2.05
720	16.37	17.79	20.52	22.53	25.00	27.41	29.76	30.86	34.25	35.49	0.23	1.17	1.87	2.10
740	16.67	18.04	20.90	22.95	25.46	27.91	30.28	31.36	34.84	36.05	0.24	1.20	1.92	2.16
760	16.97	18.33	21.27	23.36	25.90	28.39	30.81	31.86	35.41	36.62	0.25	1.23	1.98	2.22
780	17.25	18.41	21.63	23.76	26.14	28.86	31.31	32.36	35.95	37.18	0.25	1.27	2.03	2.28
800	17.54	18.63	21.98	24.15	26.78	29.33	31.79	32.86	36.48	37.75	0.26	1.30	2.08	2.34
820	17.81	19.09	22.33	24.53	27.18	29.77	32.26	32.91	36.98	38.18	0.27	1.33	2.13	2.40
840	18.08	19.28	22.67	24.89	27.58	30.20	32.71	33.46	37.46	38.61	0.27	1.36	2.18	2.45
860	18.34	19.67	23.00	25.24	27.97	30.61	33.15	34.02	37.92	39.03	0.28	1.40	2.24	2.51
880	18.60	19.89	23.32	25.59	28.35	31.01	33.46	34.57	38.36	39.46	0.29	1.43	2.29	2.57
900	18.84	20.04	23.63	25.92	28.71	31.40	33.96	35.12	38.77	39.89	0.29	1.46	2.34	2.63
920	19.08	20.44	23.93	26.25	29.06	31.76	34.35	35.45	39.15	40.20	0.30	1.49	2.39	2.69
940	19.31	21.31	24.21	26.57	29.40	32.11	34.70	35.77	39.59	40.51	0.31	1.53	2.44	2.75
960	19.53	21.43	24.50	26.86	29.72	32.45	35.05	36.10	39.86	40.83	0.31	1.56	2.50	2.81
980	19.75	21.54	24.76	27.15	30.03	32.77	35.37	36.42	40.16	41.14	0.32	1.59	2.55	2.86
1000	19.96	22.04	25.02	27.43	30.32	33.08	35.69	36.75	40.46	41.45	0.32	1.62	2.60	2.92
1020	20.16	22.14	25.26	27.69	30.60	33.36	35.97	36.97	40.72	41.61	0.33	1.66	2.65	2.98
1040	20.36	22.31	25.50	27.95	30.87	33.63	36.24	37.19	40.96	41.77	0.34	1.69	2.70	3.04
1060	20.54	22.69	25.74	28.19	31.12	33.88	36.49	37.41	41.16	41.92	0.34	1.72	2.76	3.10
1080	20.72	22.81	25.95	28.41	31.35	34.13	36.72	37.63	41.35	42.06	0.35	1.75	2.81	3.16
1100	20.90	23.98	26.16	28.63	31.57	34.35	36.93	37.85	41.51	42.24	0.36	1.79	2.86	3.21
1120	21.00	24.12	26.36	28.83	31.78	34.55	37.12	37.96	41.63	42.26	0.36	1.82	2.91	3.27
1140	21.10	24.21	26.53	29.03	31.97	34.73	37.28	38.08	41.74	42.29	0.37	1.85	2.96	3.33
1160	21.36	24.36	26.71	29.21	32.14	34.89	37.42	38.19	41.80	42.31	0.38	1.88	3.02	3.39
1180	21.49	24.44	26.87	29.37	32.32	35.04	37.55	38.31	41.86	42.34	0.38	1.92	3.07	3.45
1200	21.62	24.98	27.02	29.53	32.46	35.18	37.65	38.42	41.86	42.36	0.39	1.95	3.12	3.51
1220	21.75	25.06	27.15	29.66	32.59	35.28	37.73	38.41	41.84	42.31	0.40	1.98	3.17	3.56
1240	21.85	25.44	27.29	29.79	32.71	35.37	37.79	38.40	41.80	42.18	0.40	2.01	3.22	3.62
1260	21.96	25.54	27.39	29.89	32.80	35.45	37.82	38.38	41.73	41.82	0.41	2.05	3.28	3.68
1280	22.05	25.61	27.50	30.01	32.88	35.51	37.83	38.37	41.62	41.64	0.42	2.08	3.33	3.74
1300	22.14	25.78	27.59	30.08	32.95	35.53	37.82	38.36	41.49	41.46	0.42	2.11	3.38	3.80
1320	22.22	25.81	27.67	30.15	32.99	35.54	37.79	38.22	41.14	41.12	0.43	2.14	3.43	3.86
1340	22.29	25.89	27.74	30.20	33.02	35.53	37.74	38.08	40.22	40.78	0.44	2.18	3.48	3.92
1360	22.34	25.98	27.79	30.24	33.03	35.51	37.65	37.93	39.94	40.43	0.44	2.21	3.53	3.97
1380	22.40	26.09	27.84	30.27	33.03	35.48	37.55	37.79	39.04	40.09	0.45	2.24	3.59	4.03
1400	22.44	26.09	27.86	30.29	33.23	35.39	37.41	37.65	38.09	39.75	0.45	2.27	3.64	4.09

Table 11:
Section D: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)									Additional Power (kW) per belt for speed ratio			
	560	600	630	670	710	750	800	900	1000	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	38.65	40.35	44.01	46.81	49.43	51.85	54.57	58.98		0.23	1.14	1.82	2.05
950	44.72	45.72	49.48	51.61						0.31	1.54	2.47	2.78
20	1.86	1.99	2.15	2.31	2.48	2.64	2.84	3.23	3.94	0.01	0.03	0.05	0.06
40	3.49	3.98	4.02	4.34	4.64	4.95	5.32	6.07	6.53	0.01	0.06	0.10	0.12
60	5.01	5.55	5.80	6.24	6.68	7.12	7.67	8.76	8.06	0.02	0.10	0.16	0.18
80	6.47	6.93	7.49	8.06	8.64	9.22	9.92	11.34	10.35	0.03	0.13	0.21	0.23
100	7.89	8.32	9.14	9.84	10.54	11.25	12.11	13.83	12.63	0.03	0.16	0.26	0.29
120	9.26	9.71	10.73	11.56	12.39	13.22	14.24	16.25	14.92	0.04	0.19	0.31	0.35
140	10.61	11.09	12.30	13.25	14.20	15.14	16.31	18.62	17.02	0.05	0.23	0.36	0.41
160	11.92	12.48	13.82	14.89	15.96	17.01	18.39	20.92	19.12	0.05	0.26	0.42	0.47
180	13.20	13.86	15.31	16.50	17.68	18.85	20.30	23.16	21.22	0.06	0.29	0.47	0.53
200	14.46	15.25	16.77	18.07	19.36	20.64	22.23	25.35	23.20	0.06	0.32	0.52	0.58
220	15.70	16.51	18.20	19.61	21.01	22.40	24.12	27.49	25.17	0.07	0.36	0.57	0.64
240	16.91	17.77	19.60	21.13	22.63	24.12	25.96	29.57	27.15	0.08	0.39	0.62	0.70
260	18.09	19.02	20.98	22.61	24.21	25.80	27.76	31.59	28.98	0.08	0.42	0.68	0.76
280	19.26	20.26	22.33	24.06	25.76	27.44	29.52	33.56	30.81	0.09	0.45	0.73	0.82
300	20.41	21.54	23.66	25.47	27.27	29.04	31.23	35.47	32.64	0.10	0.49	0.78	0.88
320	21.54	22.68	24.95	26.86	28.75	30.61	32.90	37.32	34.33	0.10	0.52	0.83	0.94
340	22.64	23.83	26.22	28.22	30.20	32.13	34.51	39.11	36.03	0.11	0.55	0.88	0.99
360	23.72	24.97	27.48	29.55	31.61	33.62	36.09	40.85	37.72	0.12	0.58	0.94	1.05
380	24.78	26.12	29.68	30.85	32.98	35.06	37.61	42.51	39.48	0.12	0.62	0.99	1.11
400	25.82	27.26	29.86	32.11	34.31	36.47	39.09	44.11	41.24	0.13	0.65	1.04	1.17
420	26.84	28.27	31.02	33.34	35.62	37.83	40.53	45.65	42.99	0.14	0.68	1.09	1.23
440	27.83	29.27	32.05	34.55	36.88	39.14	41.91	47.11	44.75	0.14	0.71	1.14	1.29
460	28.80	30.28	33.25	35.71	38.09	40.43	43.23	48.51	46.51	0.15	0.75	1.20	1.34
480	29.76	31.28	34.32	36.83	39.28	41.65	44.50	49.84	47.86	0.16	0.78	1.25	1.40
500	30.68	32.29	35.36	37.94	40.43	42.83	45.73	51.09	49.21	0.16	0.81	1.30	1.46
520	31.59	33.16	36.37	39.00	41.53	43.96	46.88	52.26	50.56	0.17	0.84	1.35	1.52
540	32.48	34.03	37.36	40.02	42.59	45.06	48.00	53.35	51.91	0.18	0.88	1.40	1.58
560	33.34	34.90	38.30	41.00	43.61	46.09	49.04	54.37	53.26	0.18	0.91	1.46	1.64
580	34.00	35.77	39.22	41.96	44.57	47.07	50.02	55.29	54.13	0.19	0.94	1.51	1.69
600	34.98	36.64	40.11	42.87	45.51	48.01	50.95	56.13	55.00	0.19	0.97	1.56	1.75
620	35.76	37.38	40.95	43.74	46.39	48.89	51.89	56.89	55.86	0.20	1.01	1.61	1.81
640	36.53	38.12	41.77	44.57	47.22	49.71	52.59	57.55	56.75	0.21	1.04	1.66	1.87
660	37.26	38.87	42.55	45.36	48.01	50.48	53.33	58.13	57.62	0.21	1.07	1.72	1.93
680	37.97	39.61	43.29	46.11	48.74	51.19	53.98	58.60		0.22	1.10	1.77	1.99
700	38.65	40.35	44.01	46.81	49.43	51.85	54.57	58.98		0.23	1.14	1.82	2.05
720	39.30	40.93	44.68	47.47	50.06	52.44	55.09	59.25		0.23	1.17	1.87	2.10
740	39.93	41.51	45.31	48.09	50.64	52.97	55.53	59.43		0.24	1.20	1.92	2.16
760	40.53	42.10	45.91	48.66	51.18	53.45	55.90	59.50		0.25	1.23	1.98	2.22
780	41.10	42.66	46.45	49.18	51.66	53.84	55.90	59.50		0.25	1.27	2.03	2.28
800	41.64	43.26	46.97	49.65	52.07	54.19	56.41	59.33		0.26	1.30	2.08	2.34
820	42.16	43.66	47.45	50.09	52.43	54.46				0.27	1.33	2.13	2.40
840	42.63	44.06	47.88	50.46	52.73	54.66				0.27	1.36	2.18	2.45
860	43.08	44.45	48.27	50.79	52.97	54.80				0.28	1.40	2.24	2.51
880	43.50	44.85	48.62	51.06	53.15	54.86				0.29	1.43	2.29	2.57
900	43.89	45.25	48.92	51.29	53.28	54.86				0.29	1.46	2.34	2.63
920	44.25	45.46	49.17	51.46						0.30	1.49	2.39	2.69
940	44.56	45.68	49.38	51.58						0.31	1.53	2.44	2.75
960	44.86	45.89	49.55	51.63						0.31	1.56	2.50	2.81
980	45.11	46.11	49.67	51.64						0.32	1.59	2.55	2.86
1000	45.33	46.32	49.74	51.59						0.32	1.62	2.60	2.92
1020	45.52	46.35	49.76							0.33	1.66	2.65	2.98
1040	45.66	46.39	49.73							0.34	1.69	2.70	3.04
1060	45.78	46.42	49.64							0.34	1.72	2.76	3.10
1080	45.85	46.46	49.52							0.35	1.75	2.81	3.16
1100	45.89	46.49	49.33							0.36	1.79	2.86	3.21
1120	45.90	46.26								0.36	1.82	2.91	3.27
1140	45.85	46.04								0.37	1.85	2.96	3.33
1160	45.78	45.81								0.38	1.88	3.02	3.39
1180	45.65	45.59								0.38	1.92	3.07	3.45
1200	45.50	45.36								0.39	1.95	3.12	3.51

Table 12:
Section E: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)									Additional Power (kW) per belt for speed ratio			
	400	500	560	630	670	710	750	800	860	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	28.03	33.59	39.81	46.41	49.82	52.97	55.83	59.00	61.69	0.38	1.92	3.07	3.45
950	31.56	37.41	43.40	48.83						0.52	2.60	4.16	4.68
20	1.55	1.82	2.14	2.51	2.71	2.93	3.13	3.39	3.65	0.01	0.05	0.09	0.10
40	2.85	3.36	3.96	4.65	5.06	5.45	5.83	6.32	6.81	0.02	0.11	0.18	0.20
60	4.05	4.79	5.66	6.67	7.24	7.80	8.37	9.07	9.77	0.03	0.16	0.26	0.30
80	5.18	6.14	7.27	8.59	9.33	10.06	10.80	11.70	12.61	0.04	0.22	0.35	0.39
100	6.28	7.44	8.83	10.43	11.34	12.24	13.13	14.25	15.35	0.05	0.27	0.44	0.49
120	7.32	8.70	10.34	12.22	13.28	14.34	15.40	16.71	18.00	0.07	0.33	0.53	0.59
140	8.33	9.92	11.80	13.96	15.18	16.40	17.60	19.09	20.57	0.08	0.38	0.61	0.69
160	9.32	11.10	13.22	15.65	17.02	18.38	19.74	21.41	23.08	0.09	0.44	0.70	0.79
180	10.27	12.25	14.60	17.30	18.82	20.33	21.83	23.68	25.51	0.10	0.49	0.79	0.89
200	11.20	13.38	15.95	18.90	20.56	22.22	23.85	25.87	27.88	0.11	0.55	0.88	0.98
220	12.12	14.48	17.27	20.47	22.27	24.06	25.83	28.02	30.18	0.12	0.60	0.96	1.08
240	13.00	15.55	18.55	22.01	23.96	25.86	27.76	30.10	32.40	0.13	0.66	1.05	1.18
260	13.86	16.59	19.81	23.49	25.57	27.61	29.63	32.12	34.58	0.14	0.71	1.14	1.28
280	14.71	17.62	21.04	24.96	27.15	29.32	31.45	34.09	36.68	0.15	0.77	1.23	1.38
300	15.53	18.61	22.24	26.37	28.69	30.97	33.22	35.99	38.70	0.16	0.82	1.31	1.48
320	16.33	19.59	23.40	27.75	30.19	32.58	34.94	37.83	40.66	0.18	0.88	1.40	1.58
340	17.12	20.54	24.55	29.11	31.65	34.15	36.60	39.61	42.55	0.19	0.93	1.49	1.67
360	17.89	21.47	25.66	30.41	33.06	35.67	38.21	41.33	44.36	0.20	0.99	1.58	1.77
380	18.65	22.38	26.74	31.68	34.44	37.13	39.77	42.98	46.10	0.21	1.04	1.66	1.87
400	19.37	23.26	27.79	32.92	35.76	38.55	41.27	44.56	47.76	0.22	1.09	1.75	1.97
420	20.08	24.12	28.82	34.12	37.06	39.92	42.71	46.08	49.34	0.23	1.15	1.84	2.07
440	20.78	24.95	29.82	35.28	38.30	41.22	44.09	47.53	50.84	0.24	1.20	1.93	2.17
460	21.44	25.77	30.78	36.40	39.49	42.48	45.40	48.90	52.26	0.25	1.26	2.02	2.27
480	22.10	26.55	31.72	37.47	40.63	43.69	46.65	50.20	53.58	0.26	1.31	2.10	2.36
500	22.74	27.32	32.62	38.51	41.73	44.85	47.84	51.42	54.82	0.27	1.37	2.19	2.46
520	23.36	28.06	33.49	39.51	42.78	45.94	48.97	52.58	55.97	0.28	1.42	2.28	2.56
540	23.96	28.64	34.33	40.45	43.78	46.97	50.02	53.64	57.02	0.30	1.48	2.37	2.66
560	24.54	29.47	35.14	41.36	44.73	47.94	51.01	54.62	57.97	0.31	1.53	2.45	2.76
580	25.09	30.14	35.91	42.22	45.62	48.86	51.93	55.51	58.82	0.32	1.59	2.54	2.86
600	25.63	30.78	36.64	43.04	46.46	49.70	52.77	56.33	59.57	0.33	1.64	2.63	2.95
620	26.15	31.40	37.35	43.81	47.24	50.50	53.54	57.05	60.22	0.34	1.70	2.72	3.05
640	26.65	31.99	38.02	44.53	47.98	51.21	54.23	57.69	60.76	0.35	1.75	2.80	3.15
660	27.14	32.55	38.66	45.21	48.65	51.87	54.84	58.22	61.18	0.36	1.81	2.89	3.25
680	27.59	33.08	39.25	45.82	49.26	52.45	55.37	58.66	61.50	0.37	1.86	2.98	3.35
700	28.03	33.59	39.81	46.41	49.82	52.97	55.83	59.00	61.69	0.38	1.92	3.07	3.45
720	28.44	34.07	40.34	46.93	50.31	53.40	56.20	59.24		0.39	1.97	3.15	3.55
740	28.83	34.52	40.82	47.39	50.74	53.77	56.48	59.38		0.41	2.03	3.24	3.64
760	29.20	34.95	41.27	47.81	51.10	54.06	56.68	59.42		0.42	2.08	3.33	3.74
780	29.55	35.34	41.67	48.17	51.40	54.28	56.78	59.35		0.43	2.14	3.42	3.84
800	29.88	35.70	42.04	48.46	51.63	54.42	56.79	59.17		0.44	2.19	3.50	3.94
820	30.18	36.03	42.36	48.71	51.80	54.47				0.45	2.24	3.59	4.04
840	30.46	36.34	42.64	48.90	51.90	54.45				0.46	2.30	3.68	4.14
860	30.72	36.60	42.88	49.03	51.92	54.35				0.47	2.35	3.77	4.24
880	30.94	36.84	43.08	49.09	51.88	54.16				0.48	2.41	3.86	4.33
900	31.15	37.05	43.23	49.10	51.76	53.87				0.49	2.46	3.94	4.43
920	31.33	37.22	43.33	49.04						0.50	2.52	4.03	4.53
940	31.49	37.35	43.39	48.92						0.51	2.57	4.12	4.63
960	31.62	37.46	43.40	48.73						0.53	2.63	4.21	4.73
980	31.73	37.52	43.38	48.47						0.54	2.68	4.29	4.83
1000	31.80	37.56	43.28	48.16						0.55	2.74	4.38	4.92
1020	31.85	37.56	43.14	47.76						0.56	2.79	4.47	5.02
1040	31.87	37.51	42.96	47.31						0.57	2.85	4.56	5.12
1060	31.87	37.44	42.73	46.78						0.58	2.90	4.64	5.22
1080	31.84	37.33	42.44	46.17						0.59	2.96	4.73	5.32
1100	31.78	37.17	42.11	45.50						0.60	3.01	4.82	5.42
1120	31.69	36.98	41.71							0.61	3.07	4.91	5.52
1140	31.58	36.76	41.27							0.62	3.12	4.99	5.61
1160	31.43	36.49	40.78							0.64	3.18	5.08	5.71
1180	31.25	36.18	40.21							0.65	3.23	5.17	5.81
1200	31.04	35.83	39.59							0.66	3.28	5.26	5.91
1220	30.83	35.44								0.67	3.34	5.34	6.01
1240	30.53	35.12								0.68	3.39	5.43	6.11
1260	30.22	34.52								0.69	3.45	5.52	6.21
1280	29.89	34.14								0.70	3.50	5.61	6.30
1300	29.52	33.44								0.71	3.56	5.70	6.40

Table 12:
Section E: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)							Additional Power (kW) per belt for speed ratio			
	900	950	1000	1120	1250	1400	1600	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	63.88	65.54						0.38	1.92	3.07	3.45
950								0.52	2.60	4.16	4.68
20	3.90	4.16	4.41	5.26	5.91	6.71	7.74	0.01	0.05	0.09	0.10
40	7.28	7.76	8.24	8.58	9.69	10.98	12.67	0.02	0.11	0.18	0.20
60	10.46	11.16	11.84	11.90	13.47	15.24	17.59	0.03	0.16	0.26	0.30
80	13.52	14.41	15.30	15.24	17.25	19.52	22.51	0.04	0.22	0.35	0.39
100	16.45	17.53	18.62	18.57	21.03	23.81	27.42	0.06	0.27	0.44	0.49
120	19.29	20.56	21.84	21.91	24.81	28.09	32.34	0.07	0.33	0.53	0.59
140	22.05	23.50	24.95	24.96	28.24	31.95	36.75	0.08	0.38	0.61	0.69
160	24.73	26.35	27.97	28.01	31.67	35.81	41.16	0.09	0.44	0.70	0.79
180	27.33	29.13	30.90	31.06	35.10	39.67	45.57	0.10	0.49	0.79	0.89
200	29.85	31.81	33.74	33.86	38.23	43.13	49.41	0.11	0.55	0.88	0.98
220	32.31	34.41	36.49	36.65	41.35	46.60	53.25	0.12	0.60	0.96	1.08
240	34.68	36.93	39.14	39.45	44.48	50.06	57.09	0.13	0.66	1.05	1.18
260	36.98	39.36	41.69	41.97	47.25	53.07	60.33	0.14	0.71	1.14	1.28
280	39.21	41.70	44.15	44.48	50.01	56.07	63.56	0.15	0.77	1.23	1.38
300	41.36	43.96	46.50	47.00	52.78	59.08	66.80	0.16	0.82	1.31	1.48
320	43.43	46.13	48.76	49.24	55.20	61.61	69.36	0.18	0.88	1.40	1.58
340	45.41	48.20	50.91	51.48	57.63	64.15	71.92	0.19	0.93	1.49	1.67
360	47.31	50.17	52.95	53.72	60.05	66.68	74.48	0.20	0.99	1.58	1.77
380	49.12	52.05	54.87	55.67	62.05	68.67	76.23	0.21	1.04	1.66	1.87
400	50.85	53.82	56.67	57.63	64.05	70.66	77.98	0.22	1.09	1.75	1.97
420	52.48	55.48	58.35	59.58	66.05	72.65	79.73	0.23	1.15	1.84	2.07
440	54.01	57.03	59.90	61.19	67.60	74.06	80.61	0.24	1.20	1.93	2.17
460	55.45	58.47	61.33	62.79	69.14	75.35	81.49	0.25	1.26	2.02	2.27
480	56.78	59.79	62.61	64.40	70.69	76.71	82.37	0.26	1.31	2.10	2.36
500	58.01	61.20	63.77	65.64	71.76	77.39		0.27	1.37	2.19	2.46
520	59.14	62.07	64.76	66.88	72.83	78.09		0.28	1.42	2.28	2.56
540	60.14	63.03	65.64	68.12	73.90	78.78		0.30	1.48	2.37	2.66
560	61.05	63.84	66.35	68.97	74.42			0.31	1.53	2.45	2.76
580	61.83	64.52	66.89	69.83	74.95			0.32	1.59	2.54	2.86
600	62.49	65.06	67.28	70.68	75.47			0.33	1.64	2.63	2.95
620	63.03	65.47						0.34	1.70	2.72	3.05
640	63.44	65.71						0.35	1.75	2.80	3.15
660	63.72	65.80						0.36	1.81	2.89	3.25
680	63.87	65.75						0.37	1.86	2.98	3.35
700	63.88	65.54						0.38	1.92	3.07	3.45

Table 13:
Section SPZ/3V: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)							Additional Power (kW) per belt for speed ratio			
	63	71	80	85	90	95	100	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	0.49	0.68	0.88	0.99	1.10	1.22	1.32	0.01	0.06	0.09	0.11
950	0.61	0.85	1.12	1.26	1.41	1.56	1.69	0.01	0.09	0.12	0.15
1450	0.85	1.20	1.59	1.81	2.02	2.24	2.45	0.02	0.13	0.19	0.23
2850	1.37	2.01	2.73	3.11	3.48	3.87	4.24	0.04	0.26	0.37	0.46
100	0.10	0.13	0.16	0.18	0.20	0.22	0.24	0.00	0.01	0.01	0.02
200	0.17	0.23	0.29	0.32	0.36	0.40	0.44	0.00	0.02	0.03	0.03
300	0.24	0.32	0.40	0.45	0.51	0.56	0.62	0.00	0.03	0.04	0.05
400	0.29	0.40	0.50	0.57	0.64	0.71	0.79	0.01	0.04	0.05	0.06
500	0.34	0.47	0.60	0.68	0.77	0.86	0.95	0.01	0.05	0.07	0.08
600	0.44	0.60	0.78	0.87	0.97	1.07	1.16	0.01	0.06	0.08	0.10
700	0.49	0.68	0.88	0.99	1.10	1.22	1.32	0.01	0.06	0.09	0.11
800	0.54	0.75	0.98	1.10	1.23	1.36	1.47	0.01	0.07	0.11	0.13
900	0.59	0.82	1.08	1.20	1.35	1.49	1.62	0.01	0.08	0.12	0.15
950	0.61	0.85	1.12	1.26	1.41	1.56	1.69	0.01	0.09	0.12	0.15
1000	0.63	0.88	1.17	1.31	1.47	1.62	1.77	0.01	0.09	0.13	0.16
1100	0.71	0.98	1.29	1.46	1.63	1.80	1.97	0.02	0.10	0.14	0.18
1200	0.75	1.05	1.38	1.56	1.75	1.93	2.11	0.02	0.11	0.16	0.19
1300	0.79	1.11	1.47	1.66	1.86	2.06	2.25	0.02	0.12	0.17	0.21
1400	0.83	1.17	1.55	1.76	1.97	2.18	2.39	0.02	0.13	0.18	0.23
1450	0.85	1.20	1.59	1.81	2.02	2.24	2.45	0.02	0.13	0.19	0.23
1500	0.87	1.23	1.63	1.85	2.08	2.30	2.52	0.02	0.14	0.20	0.24
1600	0.93	1.32	1.76	2.00	2.23	2.47	2.70	0.02	0.15	0.21	0.26
1700	0.97	1.38	1.84	2.09	2.34	2.59	2.83	0.02	0.16	0.22	0.27
1800	1.00	1.43	1.92	2.18	2.44	2.70	2.96	0.03	0.17	0.24	0.29
1900	1.03	1.49	2.00	2.27	2.54	2.81	3.08	0.03	0.18	0.25	0.31
2000	1.07	1.54	2.07	2.36	2.63	2.92	3.20	0.03	0.19	0.26	0.32
2100	1.13	1.63	2.18	2.48	2.73	3.08	3.37	0.03	0.19	0.28	0.34
2200	1.16	1.68	2.25	2.56	2.82	3.19	3.49	0.03	0.19	0.28	0.34
2300	1.19	1.73	2.32	2.64	2.91	3.29	3.60	0.03	0.21	0.30	0.37
2400	1.22	1.78	2.39	2.72	3.00	3.39	3.71	0.03	0.22	0.32	0.39
2500	1.24	1.82	2.46	2.80	3.08	3.49	3.82	0.04	0.23	0.33	0.40
2600	1.31	1.90	2.57	2.93	3.28	3.64	3.99	0.04	0.24	0.34	0.42
2700	1.34	1.94	2.63	3.00	3.36	3.73	4.09	0.04	0.25	0.35	0.44
2800	1.36	1.99	2.70	3.08	3.45	3.82	4.19	0.04	0.26	0.36	0.45
2850	1.37	2.01	2.73	3.11	3.48	3.87	4.24	0.04	0.26	0.37	0.46
2900	1.38	2.03	2.76	3.15	3.52	3.91	4.29	0.04	0.27	0.38	0.47
3000	1.41	2.07	2.81	3.21	3.60	4.00	4.38	0.04	0.28	0.39	0.48
3100	1.45	2.15	2.91	3.33	3.74	4.14	4.54	0.04	0.29	0.41	0.50
3200	1.47	2.19	2.97	3.39	3.81	4.22	4.63	0.05	0.30	0.42	0.52
3300	1.49	2.22	3.02	3.46	3.88	4.30	4.71	0.05	0.31	0.43	0.53
3400	1.51	2.26	3.07	3.52	3.95	4.37	4.79	0.05	0.31	0.45	0.55
3500	1.52	2.29	3.12	3.57	4.01	4.44	4.87	0.05	0.32	0.46	0.56
3600	1.58	2.36	3.22	3.68	4.14	4.59	5.03	0.05	0.33	0.47	0.58
3700	1.60	2.39	3.27	3.73	4.20	4.66	5.10	0.05	0.34	0.49	0.60
3800	1.61	2.42	3.31	3.78	4.26	4.72	5.17	0.05	0.35	0.50	0.61
3900	1.62	2.45	3.35	3.83	4.31	4.78	5.24	0.06	0.36	0.51	0.63
4000	1.63	2.47	3.39	3.88	4.36	4.84	5.30	0.06	0.37	0.53	0.64
4100	1.68	2.55	3.49	4.00	4.49	4.97	5.45	0.06	0.38	0.54	0.66
4200	1.69	2.57	3.53	4.04	4.54	5.02	5.51	0.06	0.39	0.55	0.68
4300	1.70	2.60	3.56	4.08	4.58	5.07	5.56	0.06	0.40	0.57	0.69
4400	1.71	2.61	3.59	4.12	4.62	5.11	5.60	0.06	0.41	0.58	0.71
4500	1.71	2.63	3.62	4.15	4.66	5.16	5.65	0.06	0.42	0.59	0.73
4600	1.76	2.70	3.71	4.26	4.73	5.30	5.79	0.06	0.42	0.59	0.73
4700	1.76	2.72	3.74	4.29	4.76	5.34	5.83	0.07	0.44	0.62	0.76
4800	1.77	2.73	3.76	4.32	4.79	5.37	5.86	0.07	0.44	0.63	0.77
4900	1.77	2.74	3.78	4.34	4.82	5.40	5.89	0.07	0.45	0.64	0.79
5000	1.77	2.75	3.80	4.36	4.84	5.42	6.01	0.07	0.46	0.66	0.81
5100	1.81	2.82	3.89	4.47	5.02	5.55	6.03	0.07	0.47	0.67	0.82
5200	1.81	2.83	3.91	4.49	5.04	5.57	6.05	0.07	0.48	0.68	0.84
5300	1.81	2.83	3.92	4.50	5.05	5.58	6.10	0.08	0.49	0.70	0.85
5400	1.82	2.84	3.93	4.51	5.07	5.66	6.11	0.08	0.50	0.71	0.87
5500	1.82	2.84	3.93	4.52	5.07	5.67	6.11	0.08	0.51	0.72	0.89
5600	1.84	2.90	4.03	4.62	5.18	5.72	6.23	0.08	0.52	0.74	0.90
5800	1.84	2.90	4.03	4.62	5.18	5.72	6.23	0.08	0.54	0.76	0.93
6000	1.84	2.91	4.03	4.70	5.27	5.80	6.23	0.09	0.56	0.79	0.97
6200	1.84	2.92	4.08	4.71	5.24	5.80	6.32	0.09	0.59	0.84	1.03
6400	1.83	2.93	4.10	4.73	5.24	5.81	6.30	0.09	0.61	0.87	1.06
6600	1.81	2.96	4.14	4.74	5.24	5.82	6.30	0.10	0.63	0.89	1.10
6800	1.77	2.92	4.09	4.70	5.23	5.76	6.21	0.10	0.65	0.92	1.13
7000	1.74	2.92	4.09	4.70	5.23	5.76	6.21	0.10	0.67	0.95	1.16
7200	1.74	2.91	4.06	4.69	5.23	5.83	6.06	0.11	0.69	0.97	1.19
7400	1.68	2.85	4.02	4.60	5.11	5.60	6.05	0.11	0.70	1.00	1.22
7600	1.66	2.85	4.02	4.60	5.11	5.56	5.85	0.11	0.72	1.03	1.26
7800	1.59	2.77	3.91	4.47	4.96	5.38	5.82	0.11	0.74	1.05	1.29
8000	1.57	2.76	3.91	4.46	4.94	5.34	5.67	0.11	0.76	1.08	1.32
8200	1.48	2.66	3.78	4.30	4.75	5.11	5.40	0.12	0.78	1.10	1.35
8400	1.39	2.55	3.63	4.13	4.54	4.86	5.10	0.14	0.79	1.13	1.38

Table 13:
Section SPZ/3V: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)								Additional Power (kW) per belt for speed ratio			
	112	125	132	140	150	160	180	200	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	1.58	1.87	2.02	2.19	2.41	2.61	3.04	3.45	0.01	0.06	0.09	0.11
950	2.04	2.41	2.61	2.83	3.11	3.38	3.93	4.45	0.01	0.09	0.12	0.15
1450	2.96	3.49	3.78	4.10	4.50	4.90	5.66	6.41	0.02	0.13	0.19	0.23
2850	5.11	6.01	6.48	7.01	7.65	8.25	9.39	10.52	0.04	0.26	0.37	0.46
100	0.26	0.33	0.35	0.38	0.42	0.45	0.52	0.59	0.00	0.01	0.01	0.02
200	0.51	0.61	0.64	0.70	0.77	0.83	0.96	1.08	0.00	0.02	0.03	0.03
300	0.72	0.86	0.91	0.99	1.10	1.18	1.37	1.56	0.00	0.03	0.04	0.05
400	0.92	1.10	1.17	1.27	1.42	1.52	1.76	2.01	0.01	0.04	0.05	0.06
500	1.12	1.33	1.41	1.54	1.72	1.84	2.14	2.43	0.01	0.05	0.07	0.08
600	1.39	1.64	1.77	1.92	2.11	2.29	2.66	3.02	0.01	0.06	0.08	0.10
700	1.58	1.87	2.02	2.19	2.41	2.61	3.04	3.45	0.01	0.06	0.09	0.11
800	1.77	2.09	2.26	2.45	2.70	2.93	3.40	3.86	0.01	0.07	0.11	0.13
900	1.95	2.31	2.49	2.71	2.98	3.23	3.75	4.26	0.01	0.08	0.12	0.15
950	2.04	2.41	2.61	2.83	3.11	3.38	3.93	4.45	0.01	0.09	0.12	0.15
1000	2.13	2.52	2.72	2.95	3.25	3.53	4.10	4.65	0.01	0.09	0.13	0.16
1100	2.37	2.79	3.02	3.28	3.60	3.92	4.54	5.16	0.02	0.10	0.14	0.18
1200	2.54	3.00	3.24	3.52	3.87	4.21	4.87	5.53	0.02	0.11	0.16	0.19
1300	2.71	3.20	3.46	3.76	4.13	4.49	5.20	5.90	0.02	0.12	0.17	0.21
1400	2.88	3.39	3.67	3.99	4.38	4.76	5.51	6.25	0.02	0.13	0.18	0.23
1450	2.96	3.49	3.78	4.10	4.50	4.90	5.66	6.41	0.02	0.13	0.19	0.23
1500	3.04	3.58	3.88	4.21	4.62	5.03	5.81	6.58	0.02	0.14	0.20	0.24
1600	3.20	3.85	4.16	4.52	4.95	5.39	6.23	7.05	0.02	0.15	0.21	0.26
1700	3.42	4.04	4.36	4.74	5.19	5.65	6.52	7.37	0.02	0.16	0.22	0.27
1800	3.57	4.22	4.56	4.95	5.42	5.89	6.80	7.67	0.03	0.17	0.24	0.29
1900	3.72	4.39	4.74	5.15	5.64	6.13	7.06	7.96	0.03	0.18	0.25	0.31
2000	3.87	4.56	4.93	5.35	5.85	6.36	7.31	8.23	0.03	0.19	0.26	0.32
2100	4.07	4.81	5.20	5.64	6.17	6.70	7.72	8.68	0.03	0.19	0.28	0.34
2200	4.21	4.98	5.38	5.83	6.37	6.92	7.96	8.93	0.03	0.19	0.28	0.34
2300	4.35	5.13	5.55	6.01	6.57	7.12	8.18	9.26	0.03	0.21	0.30	0.37
2400	4.48	5.29	5.71	6.19	6.76	7.32	8.39	9.48	0.03	0.22	0.32	0.39
2500	4.61	5.44	5.87	6.36	6.94	7.51	8.59	9.68	0.04	0.23	0.33	0.40
2600	4.81	5.67	6.12	6.63	7.25	7.84	8.97	10.01	0.04	0.24	0.34	0.42
2700	4.93	5.81	6.27	6.79	7.42	8.01	9.15	10.18	0.04	0.25	0.35	0.44
2800	5.05	5.95	6.41	6.94	7.58	8.18	9.31	10.45	0.04	0.26	0.36	0.45
2850	5.11	6.01	6.48	7.01	7.65	8.25	9.39	10.52	0.04	0.26	0.37	0.46
2900	5.17	6.08	6.55	7.08	7.73	8.33	9.46	10.59	0.04	0.27	0.38	0.47
3000	5.28	6.20	6.68	7.22	7.87	8.47	9.59	10.70	0.04	0.28	0.39	0.48
3100	5.47	6.43	6.93	7.49	8.16	8.79	9.96	10.99	0.04	0.29	0.41	0.50
3200	5.57	6.55	7.06	7.61	8.29	8.91	10.07	11.07	0.05	0.30	0.42	0.52
3300	5.67	6.66	7.18	7.73	8.40	9.03	10.18	11.27	0.05	0.31	0.43	0.53
3400	5.77	6.76	7.27	7.84	8.51	9.13	10.24	11.31	0.05	0.31	0.45	0.55
3500	5.86	6.86	7.37	7.94	8.60	9.21	10.30	11.32	0.05	0.32	0.46	0.56
3600	6.04	7.08	7.61	8.20	8.88	9.52	10.65	11.56	0.05	0.33	0.47	0.58
3700	6.12	7.17	7.70	8.29	8.96	9.59	10.68	11.56	0.06	0.34	0.49	0.60
3800	6.20	7.25	7.78	8.36	9.12	9.64	10.83	11.67	0.06	0.35	0.50	0.61
3900	6.27	7.32	7.85	8.43	9.18	9.68	10.83	11.67	0.06	0.36	0.51	0.63
4000	6.34	7.51	7.91	8.49	9.23	9.71	10.85	11.68	0.06	0.37	0.53	0.64
4100	6.53	7.57	8.15	8.73	9.41	10.01	11.00	11.68	0.06	0.38	0.54	0.66
4200	6.59	7.63	8.20	8.77	9.44	10.02	11.01	11.53	0.06	0.39	0.55	0.68
4300	6.64	7.78	8.24	8.81	9.55	10.13	11.03	11.36	0.06	0.40	0.57	0.69
4400	6.69	7.82	8.28	8.97	9.55	10.15	11.02	11.30	0.06	0.41	0.58	0.71
4500	6.73	7.86	8.30	8.99	9.55	10.20	11.00	11.29	0.06	0.42	0.59	0.73
4600	6.91	8.00	8.53	9.09	9.70	10.23	10.97		0.06	0.42	0.59	0.73
4700	6.94	8.02	8.54	9.09	9.70	10.23	10.86		0.07	0.44	0.62	0.76
4800	6.97	8.04	8.54	9.17	9.71	10.22	10.86		0.07	0.44	0.63	0.77
4900	6.99	8.16	8.54	9.17	9.71	10.22	10.65		0.07	0.45	0.64	0.79
5000	7.01	8.16	8.71	9.18	9.73	10.16	10.43		0.07	0.46	0.66	0.81
5100	7.18	8.20	8.71	9.18	9.75	10.15			0.07	0.47	0.67	0.82
5200	7.19	8.24	8.73	9.18	9.66	10.01			0.07	0.48	0.68	0.84
5300	7.19	8.24	8.75	9.21	9.66	9.85			0.08	0.49	0.70	0.85
5400	7.22	8.26	8.77	9.22	9.66	9.68			0.08	0.50	0.71	0.87
5500	7.25	8.30	8.76	9.16	9.53				0.08	0.51	0.72	0.89
5600	7.33	8.30	8.75	9.16	9.53				0.08	0.52	0.74	0.90
5800	7.33	8.32	8.71	9.07	9.19				0.08	0.54	0.76	0.93
6000	7.36	8.26	8.62	8.93					0.09	0.56	0.79	0.97
6200	7.33	8.07	8.37	8.76					0.09	0.59	0.84	1.03
6400	7.31	8.07	8.35	8.37					0.09	0.61	0.87	1.06
6600	7.25	7.81							0.10	0.62	0.89	1.10
6800	7.06	7.78							0.10	0.62	0.92	1.13
7000	7.05	7.43							0.10	0.67	0.95	1.16
7200	6.92	7.04							0.11	0.69	0.97	1.19
7400	6.76								0.11	0.70	1.00	1.22
7600	6.58								0.11	0.72	1.03	1.26
7800	6.37								0.11	0.74	1.05	1.29
8000	6.00								0.11	0.76	1.08	1.32

Table 14: Section SPA: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)								Additional Power (kW) per belt for speed ratio			
	90	100	112	118	125	132	140	150	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	1.17	1.55	1.99	2.21	2.47	2.72	3.01	3.37	0.02	0.15	0.21	0.26
950	1.45	1.96	2.52	2.81	3.15	3.48	3.85	4.32	0.03	0.20	0.29	0.36
1450	2.01	2.74	3.58	4.01	4.50	4.98	5.53	6.20	0.05	0.31	0.44	0.54
2850	3.13	4.39	5.87	6.59	7.40	8.21	9.11	10.19	0.09	0.61	0.87	1.07
100	0.23	0.30	0.37	0.40	0.45	0.49	0.54	0.60	0.00	0.02	0.03	0.04
200	0.40	0.53	0.66	0.72	0.81	0.89	0.98	1.09	0.01	0.04	0.06	0.07
300	0.54	0.73	0.92	1.00	1.14	1.25	1.38	1.55	0.01	0.06	0.09	0.11
400	0.75	0.97	1.24	1.37	1.52	1.67	1.85	2.06	0.01	0.09	0.12	0.15
500	0.89	1.15	1.49	1.64	1.83	2.01	2.23	2.49	0.02	0.11	0.15	0.19
600	1.01	1.33	1.72	1.90	2.12	2.33	2.59	2.89	0.02	0.13	0.18	0.22
700	1.17	1.55	1.99	2.21	2.47	2.72	3.01	3.37	0.02	0.15	0.21	0.26
800	1.29	1.71	2.21	2.46	2.75	3.03	3.36	3.76	0.03	0.17	0.24	0.30
900	1.40	1.87	2.42	2.69	3.02	3.33	3.69	4.14	0.03	0.19	0.27	0.34
950	1.45	1.96	2.52	2.81	3.15	3.48	3.85	4.32	0.03	0.20	0.29	0.36
1000	1.55	2.06	2.63	2.96	3.34	3.69	4.09	4.58	0.03	0.22	0.31	0.37
1100	1.65	2.21	2.83	3.21	3.60	3.98	4.41	4.94	0.04	0.24	0.34	0.41
1200	1.75	2.35	3.01	3.42	3.85	4.25	4.72	5.29	0.04	0.26	0.37	0.45
1300	1.88	2.54	3.31	3.70	4.15	4.59	5.09	5.71	0.04	0.28	0.40	0.49
1400	1.97	2.67	3.49	3.91	4.39	4.85	5.38	6.04	0.05	0.30	0.43	0.52
1450	2.01	2.74	3.58	4.01	4.50	4.98	5.53	6.20	0.05	0.31	0.44	0.54
1500	2.06	2.80	3.67	4.11	4.61	5.11	5.67	6.36	0.05	0.32	0.46	0.56
1600	2.19	2.97	3.91	4.37	4.90	5.43	6.02	6.76	0.05	0.34	0.49	0.60
1700	2.27	3.09	4.08	4.56	5.12	5.67	6.29	7.06	0.06	0.37	0.52	0.64
1800	2.35	3.21	4.24	4.74	5.32	5.90	6.55	7.35	0.06	0.39	0.55	0.67
1900	2.46	3.37	4.45	4.98	5.60	6.20	6.89	7.73	0.06	0.41	0.58	0.71
2000	2.53	3.48	4.60	5.15	5.80	6.42	7.13	8.00	0.07	0.43	0.61	0.75
2100	2.60	3.58	4.75	5.32	5.98	6.62	7.36	8.26	0.07	0.45	0.64	0.79
2200	2.70	3.74	4.96	5.55	6.24	6.92	7.68	8.61	0.07	0.47	0.67	0.82
2300	2.76	3.84	5.08	5.70	6.41	7.11	7.89	8.85	0.08	0.49	0.70	0.86
2400	2.81	3.92	5.21	5.85	6.58	7.30	8.09	9.07	0.08	0.52	0.73	0.90
2500	2.92	4.07	5.41	6.07	6.82	7.56	8.39	9.41	0.08	0.54	0.76	0.94
2600	2.97	4.15	5.53	6.20	6.97	7.73	8.57	9.61	0.09	0.56	0.79	0.97
2700	3.01	4.23	5.64	6.33	7.11	7.88	8.74	9.79	0.09	0.58	0.82	1.01
2800	3.11	4.36	5.82	6.53	7.34	8.14	9.03	10.11	0.09	0.60	0.86	1.05
2850	3.13	4.39	5.87	6.59	7.40	8.21	9.11	10.19	0.09	0.61	0.87	1.07
2900	3.15	4.43	5.92	6.64	7.47	8.28	9.18	10.27	0.10	0.62	0.89	1.09
3000	3.18	4.49	6.01	6.74	7.58	8.40	9.31	10.41	0.10	0.65	0.92	1.12
3100	3.26	4.61	6.18	6.94	7.80	8.64	9.58	10.70	0.10	0.67	0.95	1.16
3200	3.29	4.66	6.26	7.03	7.90	8.75	9.69	10.82	0.11	0.69	0.98	1.20
3300	3.31	4.71	6.33	7.11	7.99	8.84	9.79	10.91	0.11	0.71	1.01	1.24
3400	3.39	4.83	6.49	7.29	8.19	9.07	10.03	11.18	0.11	0.73	1.04	1.27
3500	3.40	4.87	6.55	7.36	8.26	9.14	10.10	11.25	0.12	0.75	1.07	1.31
3600	3.41	4.90	6.60	7.41	8.32	9.21	10.16	11.30	0.12	0.77	1.10	1.35
3700	3.49	5.01	6.74	7.57	8.51	9.41	10.39	11.55	0.12	0.80	1.13	1.39
3800	3.49	5.03	6.78	7.61	8.55	9.45	10.42	11.57	0.13	0.82	1.16	1.42
3900	3.49	5.04	6.80	7.64	8.58	9.48	10.44	11.57	0.13	0.84	1.19	1.46
4000	3.55	5.14	6.94	7.79	8.75	9.66	10.54	11.65	0.13	0.86	1.22	1.50
4100	3.56	5.14	6.95	7.80	8.76	9.66	10.60	11.70	0.14	0.88	1.25	1.54
4200	3.57	5.14	6.95	7.80	8.76	9.77	10.61	11.70	0.14	0.90	1.28	1.57
4300	3.58	5.23	7.00	7.95	8.85	9.82	10.79	11.89	0.14	0.93	1.31	1.61
4400	3.55	5.23	7.02	7.95	8.89	9.85	10.79	11.80	0.15	0.95	1.34	1.65
4500	3.52	5.24	7.04	7.95	8.95	9.86	10.80	11.75	0.15	0.97	1.37	1.69
4600	3.52	5.27	7.06	8.03	8.99	9.88	10.82	11.71	0.15	0.99	1.41	1.72
4700	3.52	5.28	7.06	8.03	8.99	9.90	10.81	11.71	0.16	1.01	1.44	1.76
4800	3.50	5.29	7.08	8.04	8.98	9.89	10.80	11.71	0.16	1.03	1.47	1.80
4900	3.45	5.29	7.08	8.05	8.97	9.88	10.72	11.67	0.16	1.05	1.50	1.84
5000	3.45	5.21	7.09	7.95	8.87	9.85	10.56	11.46	0.17	1.08	1.53	1.87
5100	3.41	5.14	7.09	7.86	8.76	9.80	10.49	11.22	0.17	1.10	1.56	1.91
5200	3.41	5.11	7.10	7.85	8.75	9.75	10.39	11.10	0.17	1.12	1.59	1.95
5300	3.38	5.10	7.00	7.84	8.72	9.68	10.28	11.04	0.18	1.14	1.62	1.99
5400	3.35	5.06	6.90	7.79	8.67	9.55	10.05	10.74	0.18	1.16	1.65	2.02
5500	3.33	5.02	6.89	7.79	8.55	9.41	10.00	10.60	0.18	1.18	1.68	2.06
5600	3.24	5.00	6.83	7.64	8.37	9.19	9.86	10.46	0.19	1.21	1.71	2.10
5700	3.16	4.90	6.70	7.48	8.17	8.96	9.57	10.09	0.19	1.23	1.74	2.13
5800	3.15	4.89	6.70	7.48	8.15	8.90	9.55	10.00	0.19	1.25	1.77	2.17
5900	3.07	4.81	6.59	7.36	8.12	8.74	9.29	9.70	0.20	1.27	1.80	2.21
6000	2.97	4.79	6.42	7.16	7.95	8.55	8.94	9.25	0.20	1.29	1.83	2.25
6100	2.96	4.70	6.40	7.16	7.92	8.49	8.90		0.20	1.31	1.86	2.28
6200	2.94	4.56	6.27	6.97	7.65	8.17	8.60		0.21	1.33	1.89	2.32
6300	2.90	4.52	6.07	6.75	7.37	7.83	8.16		0.21	1.36	1.92	2.36
6400	2.71	4.42	6.04	6.75	7.37	7.70	8.14		0.21	1.38	1.96	2.40
6500	2.57	4.25	5.87	6.49	7.07	7.46	7.68		0.22	1.40	1.99	2.43
6600	2.52	4.07	5.63	6.21	6.73				0.22	1.42	2.02	2.47
6700	2.42	4.07	5.62	6.21	6.72				0.22	1.44	2.05	2.51
6800	2.26	3.87	5.36	5.91	6.36				0.23	1.46	2.08	2.55
6900	2.09	3.67	5.08	5.59	5.97				0.23	1.48	2.11	2.58
7000	2.07	3.66	5.07	5.56	5.94				0.23	1.51	2.14	2.62

Table 14:
Section SPA: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)							Additional Power (kW) per belt for speed ratio			
	160	180	200	224	250	280	315	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	3.73	4.44	5.14	5.97	6.85	7.86	9.01	0.02	0.15	0.21	0.26
950	4.79	5.71	6.61	7.67	8.79	10.06	11.49	0.03	0.20	0.29	0.36
1450	6.88	8.19	9.46	10.93	12.47	14.17	16.01	0.05	0.31	0.44	0.54
2850	11.22	13.17	14.92	16.10	18.30	19.67	20.41	0.09	0.61	0.87	1.07
100	0.65	0.77	0.89	1.03	1.19	1.35	1.55	0.00	0.02	0.03	0.04
200	1.19	1.41	1.64	1.90	2.18	2.50	2.87	0.01	0.04	0.06	0.07
300	1.68	2.00	2.33	2.71	3.11	3.57	4.10	0.01	0.06	0.09	0.11
400	2.28	2.70	3.12	3.63	4.16	4.78	5.49	0.01	0.09	0.12	0.15
500	2.75	3.27	3.78	4.40	5.04	5.79	6.65	0.02	0.11	0.15	0.19
600	3.21	3.81	4.41	5.14	5.89	6.76	7.76	0.02	0.13	0.18	0.22
700	3.73	4.44	5.14	5.97	6.85	7.86	9.01	0.02	0.15	0.21	0.26
800	4.16	4.96	5.74	6.67	7.65	8.77	10.04	0.03	0.17	0.24	0.30
900	4.58	5.46	6.33	7.34	8.42	9.64	11.02	0.03	0.19	0.27	0.34
950	4.79	5.71	6.61	7.67	8.79	10.06	11.49	0.03	0.20	0.29	0.36
1000	5.07	6.04	7.00	8.12	9.32	10.66	12.18	0.03	0.22	0.31	0.37
1100	5.47	6.52	7.55	8.75	10.04	11.46	13.07	0.04	0.24	0.34	0.41
1200	5.86	6.98	8.08	9.36	10.72	12.22	13.90	0.04	0.26	0.37	0.45
1300	6.33	7.54	8.72	10.10	11.55	13.17	14.96	0.04	0.28	0.40	0.49
1400	6.70	7.98	9.22	10.66	12.17	13.85	15.68	0.05	0.30	0.43	0.52
1450	6.88	8.19	9.46	10.93	12.47	14.17	16.01	0.05	0.31	0.44	0.54
1500	7.05	8.39	9.69	11.20	12.76	14.48	16.33	0.05	0.32	0.46	0.56
1600	7.49	8.91	10.29	11.89	13.54	15.34	17.29	0.05	0.34	0.49	0.60
1700	7.82	9.30	10.73	12.37	14.06	15.88	17.81	0.06	0.37	0.52	0.64
1800	8.14	9.67	11.14	12.83	14.54	16.35	18.26	0.06	0.39	0.55	0.67
1900	8.56	10.17	11.71	13.47	15.75	17.14	19.10	0.06	0.41	0.58	0.71
2000	8.86	10.51	12.08	13.87	16.18	17.51	19.40	0.07	0.43	0.61	0.75
2100	9.14	10.83	12.43	14.23	16.55	17.82	19.60	0.07	0.45	0.64	0.79
2200	9.53	11.29	12.95	14.81	16.65	18.52	20.32	0.07	0.47	0.67	0.82
2300	9.79	11.57	13.25	15.11	16.92	18.71	20.36	0.08	0.49	0.70	0.86
2400	10.02	11.84	13.52	15.36	17.13	18.82	20.50	0.08	0.52	0.73	0.90
2500	10.39	12.26	14.00	15.90	17.70	19.41	20.87	0.08	0.54	0.76	0.94
2600	10.60	12.48	14.22	16.09	17.82	19.55	20.82	0.09	0.56	0.79	0.97
2700	10.79	12.68	14.41	16.09	17.87	19.65	20.60	0.09	0.58	0.82	1.01
2800	11.14	13.09	14.85	16.10	18.20	19.78	20.58	0.09	0.60	0.86	1.05
2850	11.22	13.17	14.92	16.10	18.30	19.67	20.41	0.09	0.61	0.87	1.07
2900	11.30	13.25	14.98	16.11	18.40	19.53	20.10	0.10	0.62	0.89	1.09
3000	11.45	13.38	15.08	16.11	18.50	19.19		0.10	0.65	0.92	1.12
3100	11.77	13.74	15.47	17.20	18.60			0.10	0.67	0.95	1.16
3200	11.88	13.83	15.51	17.25	18.37			0.11	0.69	0.98	1.20
3300	11.97	13.89	15.60	17.30	18.06			0.11	0.71	1.01	1.24
3400	12.26	14.21	15.70	17.35	18.00			0.11	0.73	1.04	1.27
3500	12.32	14.22	15.80	17.14	17.95			0.12	0.75	1.07	1.31
3600	12.35	14.30	15.90	16.87				0.12	0.77	1.10	1.35
3700	12.62	14.40	15.95	16.80				0.12	0.80	1.13	1.39
3800	12.62	14.45	15.77	16.78				0.13	0.82	1.16	1.42
3900	12.70	14.50	15.60	16.36				0.13	0.84	1.19	1.46
4000	12.82	14.55	15.55	16.30				0.13	0.86	1.22	1.50
4100	12.83	14.39	15.48					0.14	0.88	1.25	1.54
4200	12.84	14.38	15.40					0.14	0.90	1.28	1.57
4300	12.88	14.37	15.30					0.14	0.93	1.31	1.61
4400	12.73	14.25	14.87					0.15	0.95	1.34	1.65
4500	12.57	13.84	14.39					0.15	0.97	1.37	1.69
4600	12.57	13.80						0.15	0.99	1.41	1.72
4700	12.53	13.63						0.16	1.01	1.44	1.76
4800	12.29	13.40						0.16	1.03	1.47	1.80
4900	12.25	13.33						0.16	1.05	1.50	1.84
5000	12.15	12.87						0.17	1.08	1.53	1.87
5100	11.84							0.17	1.10	1.56	1.91
5200	11.70							0.17	1.12	1.59	1.95
5300	11.56							0.18	1.14	1.62	1.99
5400	11.17							0.18	1.16	1.65	2.02
5500	11.00							0.18	1.18	1.68	2.06
5600								0.19	1.21	1.71	2.10
5700								0.19	1.23	1.74	2.13
5800								0.19	1.25	1.77	2.17
5900								0.20	1.27	1.80	2.21
6000								0.20	1.29	1.83	2.25

Table 15:
Section SPB/5V: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)							Additional Power (kW) per belt for speed ratio			
	140	150	160	180	190	200	212	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	3.43	4.00	4.62	5.77	6.34	6.91	7.59	0.05	0.33	0.47	0.58
950	4.36	5.13	5.84	7.33	8.06	8.79	9.67	0.07	0.45	0.64	0.78
1450	6.07	7.13	8.22	10.35	11.40	12.42	13.63	0.11	0.69	0.97	1.20
2850	9.03	10.79	12.49	15.64	17.11	18.49	20.10	0.21	1.35	1.92	2.35
100	0.66	0.76	0.85	1.04	1.14	1.23	1.35	0.01	0.05	0.07	0.08
200	1.16	1.35	1.52	1.88	2.07	2.23	2.46	0.01	0.09	0.13	0.16
300	1.71	1.97	2.12	2.64	2.91	3.15	3.48	0.02	0.14	0.20	0.25
400	2.15	2.48	2.87	3.56	3.91	4.25	4.66	0.03	0.19	0.27	0.33
500	2.55	2.96	3.44	4.28	4.71	5.12	5.62	0.04	0.24	0.34	0.41
600	3.05	3.55	3.97	4.96	5.46	5.95	6.53	0.04	0.28	0.40	0.49
700	3.43	4.00	4.62	5.77	6.34	6.91	7.59	0.05	0.33	0.47	0.58
800	3.85	4.51	5.12	6.41	7.05	7.69	8.45	0.06	0.38	0.54	0.66
900	4.20	4.93	5.60	7.03	7.73	8.43	9.27	0.07	0.43	0.61	0.74
950	4.36	5.13	5.84	7.33	8.06	8.79	9.67	0.07	0.45	0.64	0.78
1000	4.52	5.32	6.20	7.78	8.56	9.33	10.25	0.07	0.47	0.67	0.82
1100	4.95	5.83	6.65	8.36	9.20	10.03	11.02	0.08	0.52	0.74	0.91
1200	5.25	6.20	7.08	8.91	9.80	10.69	11.74	0.09	0.57	0.81	0.99
1300	5.54	6.63	7.63	9.60	10.57	11.52	12.65	0.10	0.62	0.87	1.07
1400	5.94	6.97	8.03	10.11	11.13	12.13	13.31	0.10	0.66	0.94	1.15
1450	6.07	7.13	8.22	10.35	11.40	12.42	13.63	0.11	0.69	0.97	1.20
1500	6.20	7.29	8.40	10.59	11.66	12.70	13.94	0.11	0.71	1.01	1.24
1600	6.54	7.73	8.92	11.23	12.36	13.48	14.79	0.12	0.76	1.08	1.32
1700	6.78	8.02	9.26	11.66	12.83	13.99	15.34	0.12	0.81	1.14	1.40
1800	7.08	8.40	9.58	12.07	13.27	14.47	15.85	0.13	0.85	1.21	1.48
1900	7.29	8.66	10.05	12.67	13.93	15.18	16.63	0.14	0.90	1.28	1.57
2000	7.48	8.89	10.33	13.02	14.31	15.59	17.06	0.15	0.95	1.34	1.65
2100	7.81	9.28	10.59	13.34	14.65	15.95	17.44	0.15	0.99	1.41	1.73
2200	7.97	9.48	11.03	13.89	15.26	16.59	18.14	0.16	1.04	1.48	1.81
2300	8.22	9.79	11.24	14.16	15.54	16.88	18.43	0.17	1.09	1.55	1.90
2400	8.41	9.95	11.43	14.38	15.77	17.12	18.68	0.18	1.14	1.61	1.98
2500	8.58	10.09	11.83	14.88	16.32	17.70	19.29	0.18	1.18	1.68	2.06
2600	8.74	10.42	11.97	15.05	16.48	17.86	19.43	0.19	1.23	1.75	2.14
2700	8.82	10.52	12.09	15.17	16.60	17.96	19.50	0.20	1.28	1.82	2.23
2800	9.01	10.76	12.45	15.61	17.08	18.48	20.05	0.21	1.33	1.88	2.31
2850	9.03	10.79	12.49	15.64	17.11	18.49	20.10	0.21	1.35	1.92	2.35
2900	9.05	10.82	12.52	15.67	17.12	18.49	20.15	0.21	1.37	1.95	2.39
3000	9.07	10.85	12.55	15.68	17.20	18.79	20.20	0.22	1.42	2.02	2.47
3100	9.30	11.12	12.65	15.72	17.30	18.88	20.37	0.23	1.47	2.08	2.56
3200	9.32	11.13	12.75	15.74	17.40	18.93	20.30	0.23	1.52	2.15	2.64
3300	9.33	11.14	12.79	15.64	17.50	18.93	20.25	0.24	1.56	2.22	2.72
3400	9.35	11.18	12.80	15.90	17.63	18.89	20.22	0.25	1.61	2.29	2.80
3500	9.40	11.27	12.82	16.05	17.39	18.58	20.06	0.26	1.66	2.35	2.89
3600	9.45	11.33	12.82	16.06	17.36	18.50	19.84	0.26	1.71	2.42	2.97
3700	9.42	11.25	13.04	16.08	17.36	18.47	19.57	0.27	1.75	2.49	3.05
3800	9.38	11.19	12.84	15.76	16.96	17.97	18.94	0.28	1.80	2.55	3.13
3900	9.21	11.05	12.77	15.58	16.75	17.67	18.83	0.29	1.85	2.62	3.21
4000	9.13	11.00	12.59	15.39	16.68	17.58	18.36	0.29	1.89	2.69	3.30
4100	9.02	10.97	12.48	15.12	16.11	16.89		0.30	1.94	2.76	3.38
4200	8.89	10.69	12.23	14.71	16.00	16.71		0.31	1.99	2.82	3.46
4300	8.86	10.65	12.11	14.60	15.58	16.19		0.32	2.04	2.89	3.54
4400	8.57	10.30	11.81	14.09	14.83	15.29		0.32	2.08	2.96	3.63
4500	8.30	9.99	11.42	13.45	14.60	14.30		0.33	2.13	3.03	3.71
4600	8.25	9.92	11.35	13.41				0.34	2.18	3.09	3.79
4700	7.93	9.55	10.89	12.67				0.34	2.23	3.16	3.87
4800	7.82	9.41	10.31	12.38				0.35	2.27	3.23	3.96
4900	7.39	8.90	10.31	11.78				0.36	2.32	3.29	4.04
5000	6.93	8.35	9.65	10.82				0.37	2.37	3.36	4.12
5100	6.92	8.33	8.94					0.37	2.42	3.43	4.20
5200	6.92	7.71	8.89					0.38	2.46	3.50	4.29
5300	6.91	7.46	8.10					0.39	2.51	3.56	4.37
5400	5.79	6.77	7.26					0.40	2.56	3.63	4.45
5500	5.18	6.03	7.14					0.40	2.61	3.70	4.53

Table 15:
Section SPB/5V: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)								Additional Power (kW) per belt for speed ratio			
	224	236	250	280	315	355	375	400	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	8.26	8.92	9.70	11.33	13.21	15.30	16.33	17.59	0.05	0.33	0.47	0.58
950	10.52	11.36	12.35	14.41	16.74	19.29	20.53	22.02	0.07	0.45	0.64	0.78
1450	14.83	16.00	17.33	20.09	23.09	26.22	27.66	29.35	0.11	0.69	0.97	1.20
2850	21.57	22.85	24.06	26.20	27.41				0.21	1.35	1.92	2.35
100	1.46	1.57	1.70	1.98	2.30	2.66	2.84	3.07	0.01	0.05	0.07	0.08
200	2.67	2.87	3.12	3.64	4.24	4.91	5.25	5.68	0.01	0.09	0.13	0.16
300	3.77	4.07	4.42	5.17	6.03	6.99	7.47	8.09	0.02	0.14	0.20	0.25
400	5.06	5.47	5.94	6.93	8.08	9.38	10.03	10.82	0.03	0.19	0.27	0.33
500	6.10	6.60	7.17	8.37	9.76	11.33	12.11	13.06	0.04	0.24	0.34	0.41
600	7.10	7.68	8.35	9.75	11.36	13.18	14.08	15.16	0.04	0.28	0.40	0.49
700	8.26	8.92	9.70	11.33	13.21	15.30	16.33	17.59	0.05	0.33	0.47	0.58
800	9.20	9.93	10.80	12.61	14.69	16.98	18.11	19.48	0.06	0.38	0.54	0.66
900	10.09	10.90	11.85	13.82	16.08	18.55	19.76	21.21	0.07	0.43	0.61	0.74
950	10.52	11.36	12.35	14.41	16.74	19.29	20.53	22.02	0.07	0.45	0.64	0.78
1000	11.16	12.06	13.10	15.28	17.75	20.47	21.79	23.39	0.07	0.47	0.67	0.82
1100	11.99	12.96	14.07	16.39	18.99	21.84	23.21	24.85	0.08	0.52	0.74	0.91
1200	12.78	13.80	14.98	17.42	20.14	23.07	24.47	26.13	0.09	0.57	0.81	0.99
1300	13.77	14.87	16.13	18.76	21.67	24.79	26.26	28.02	0.10	0.62	0.87	1.07
1400	14.49	15.63	16.95	19.67	22.64	25.78	27.24	28.96	0.10	0.66	0.94	1.15
1450	14.83	16.00	17.33	20.09	23.09	26.22	27.66	29.35	0.11	0.69	0.97	1.20
1500	15.16	16.35	17.70	20.49	23.50	26.62	28.03	30.35	0.11	0.71	1.01	1.24
1600	16.07	17.33	18.76	21.69	24.86	28.11	29.58	31.26	0.12	0.76	1.08	1.32
1700	16.66	17.95	19.40	22.36	25.51	28.66	30.04	31.57	0.12	0.81	1.14	1.40
1800	17.19	18.51	19.98	22.94	26.03	29.68	31.04	32.53	0.13	0.85	1.21	1.48
1900	18.04	19.40	20.94	24.02	27.20	30.25	31.53	32.86	0.14	0.90	1.28	1.57
2000	18.48	19.85	21.39	24.43	27.48	30.28	31.84	32.99	0.15	0.95	1.34	1.65
2100	18.87	20.24	21.76	24.73	28.24	30.94	31.96	32.89	0.15	0.99	1.41	1.73
2200	19.62	21.04	22.61	25.65	28.58	31.05	31.90	32.57	0.16	1.04	1.48	1.81
2300	19.90	21.31	22.84	25.76	28.70	30.98	31.63		0.17	1.09	1.55	1.90
2400	20.12	21.50	22.99	26.31	28.91	30.74	31.16		0.18	1.14	1.61	1.98
2500	20.79	22.20	23.72	26.50	28.88	30.31			0.18	1.18	1.68	2.06
2600	20.89	22.26	23.72	26.55	28.71				0.19	1.23	1.75	2.14
2700	20.93	22.60	23.85	26.60	28.41				0.20	1.28	1.82	2.23
2800	21.50	22.82	23.99	26.49	27.96				0.21	1.33	1.88	2.31
2850	21.57	22.85	24.06	26.20	27.41				0.21	1.35	1.92	2.35
2900	21.60	22.90	24.08	26.00	26.82				0.21	1.37	1.95	2.39
3000	21.65	22.91	24.13	25.96					0.22	1.42	2.02	2.47
3100	21.70	22.85	23.96						0.23	1.47	2.08	2.56
3200	21.66	22.66	23.40						0.23	1.52	2.15	2.64
3300	21.45	22.52	23.30						0.24	1.56	2.22	2.72
3400	21.35	22.25	23.01						0.25	1.61	2.29	2.80
3500	20.81	21.55	22.11						0.26	1.66	2.35	2.89
3600	20.78								0.26	1.71	2.42	2.97
3700	20.40								0.27	1.75	2.49	3.05
3800	19.60								0.28	1.80	2.55	3.13
3900	19.41								0.29	1.85	2.62	3.21
4000	18.81								0.29	1.89	2.69	3.30

Table 16:
Section 19: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)														Additional Power (kW) per belt for speed ratio			
	180	200	224	236	250	280	315	355	375	400	450	500	560	630	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	6.37	8.04	10.03	11.01	12.15	14.56	17.31	20.39	21.90	23.76	27.37	30.84	31.49	34.11	0.09	0.60	0.85	1.05
950	8.19	10.38	12.96	14.23	15.70	18.78	22.27	26.10	27.95	30.20	34.46	38.38	38.64	40.51	0.13	0.82	1.16	1.42
1450	11.26	14.32	17.87	19.60	21.56	25.58	29.93	34.40	36.43	38.74	42.61	45.36	43.39		0.19	1.25	1.77	2.17
2850	14.70	18.55	22.36	23.91	25.39	27.31	26.21	23.53							0.38	2.45	3.48	4.26
50	0.61	0.75	0.92	1.00	1.10	1.30	1.54	1.81	1.95	2.12	2.45	2.79	2.83	2.89	0.01	0.04	0.06	0.07
100	1.15	1.42	1.74	1.90	2.09	2.48	2.95	3.47	3.73	4.06	4.70	5.35	5.40	5.45	0.01	0.09	0.12	0.15
150	1.65	2.05	2.52	2.76	3.03	3.62	4.29	5.06	5.45	5.92	6.87	7.81	7.86	7.90	0.02	0.13	0.18	0.22
200	2.14	2.66	3.28	3.59	3.95	4.72	5.60	6.61	7.11	7.74	8.96	10.21	10.45	12.00	0.03	0.17	0.24	0.30
250	2.61	3.25	4.02	4.40	4.84	5.79	6.88	8.12	8.74	9.51	11.03	12.54	12.74	14.60	0.03	0.21	0.31	0.37
300	3.06	3.83	4.74	5.19	5.71	6.84	8.13	9.60	10.33	11.24	13.04	14.82	15.03	17.20	0.04	0.26	0.37	0.45
350	3.51	4.39	5.44	5.96	6.57	7.86	9.36	11.05	11.89	12.94	15.00	17.04	17.19	19.60	0.05	0.30	0.43	0.52
400	3.94	4.94	6.13	6.72	7.41	8.87	10.57	12.48	13.42	14.60	16.92	19.21	19.34	22.00	0.05	0.34	0.49	0.60
450	4.37	5.48	6.81	7.47	8.24	9.87	11.75	13.87	14.92	16.22	18.79	21.31	21.59	24.13	0.06	0.39	0.55	0.67
500	4.78	6.01	7.48	8.20	9.05	10.84	12.91	15.23	16.38	17.81	20.61	23.35	23.83	26.25	0.07	0.43	0.61	0.75
550	5.19	6.53	8.13	8.92	9.84	11.80	14.04	16.57	17.81	19.36	22.38	25.33	26.08	28.38	0.07	0.47	0.67	0.82
600	5.59	7.05	8.77	9.63	10.63	12.73	15.16	17.87	19.21	20.87	24.10	27.24	28.32	30.50	0.08	0.52	0.73	0.90
650	5.98	7.55	9.41	10.33	11.39	13.65	16.25	19.15	20.58	22.33	25.77	29.08	29.90	32.31	0.09	0.56	0.79	0.97
700	6.37	8.04	10.03	11.01	12.15	14.56	17.31	20.39	21.90	23.76	27.37	30.84	31.49	34.11	0.09	0.60	0.85	1.05
750	6.75	8.53	10.64	11.68	12.89	15.44	18.36	21.61	23.19	25.14	28.92	32.53	33.07	35.92	0.10	0.64	0.92	1.12
800	7.12	9.00	11.23	12.34	13.61	16.31	19.38	22.78	24.45	26.48	30.41	34.13	34.65	37.72	0.11	0.69	0.98	1.20
850	7.48	9.47	11.82	12.98	14.32	17.15	20.37	23.93	25.66	27.77	31.83	35.64	35.98	38.65	0.11	0.73	1.04	1.27
900	7.84	9.93	12.40	13.61	15.02	17.98	21.33	25.03	26.83	29.01	33.18	37.06	37.31	39.58	0.12	0.77	1.10	1.35
950	8.19	10.38	12.96	14.23	15.70	18.78	22.27	26.10	27.95	30.20	34.46	38.38	38.64	40.51	0.13	0.82	1.16	1.42
1000	8.53	10.82	13.51	14.83	16.36	19.57	23.18	27.13	29.03	31.33	35.66	39.61	39.98	41.44	0.13	0.86	1.22	1.50
1050	8.86	11.25	14.05	15.42	17.01	20.33	24.06	28.12	30.06	32.41	36.79	40.73	41.31	42.37	0.14	0.90	1.28	1.57
1100	9.19	11.67	14.57	16.00	17.64	21.07	24.91	29.07	31.05	33.43	37.83	41.74	42.64	43.30	0.15	0.95	1.34	1.65
1150	9.51	12.08	15.09	16.56	18.26	21.79	25.73	29.97	31.98	34.39	38.79	42.63	43.97	44.23	0.15	0.99	1.40	1.72
1200	9.82	12.48	15.58	17.11	18.85	22.48	26.52	30.83	32.87	35.28	39.67	43.41	45.30	45.16	0.16	1.03	1.46	1.80
1250	10.12	12.87	16.07	17.64	19.43	23.15	27.27	31.65	33.69	36.11	40.45	44.06	44.92		0.17	1.07	1.53	1.87
1300	10.42	13.25	16.54	18.15	19.99	23.80	27.99	32.41	34.46	36.88	41.14	44.59	44.54		0.17	1.12	1.59	1.94
1350	10.71	13.62	17.00	18.65	20.53	24.42	28.67	33.13	35.18	37.57	41.73	44.98	44.15		0.18	1.16	1.65	2.02
1400	10.99	13.97	17.45	19.13	21.06	25.01	29.32	33.79	35.83	38.19	42.22	45.24	43.77		0.19	1.20	1.71	2.09
1450	11.26	14.32	17.87	19.60	21.56	25.58	29.93	34.40	36.43	38.74	42.61	45.36	43.39		0.19	1.25	1.77	2.17
1500	11.52	14.66	18.29	20.04	22.04	26.12	30.50	34.96	36.96	39.21	42.89	45.33	43.01		0.20	1.29	1.83	2.24
1550	11.77	14.98	18.69	20.47	22.50	26.63	31.03	35.48	37.42	39.61	43.05	45.15	42.62		0.21	1.33	1.89	2.32
1600	12.02	15.30	19.07	20.88	22.94	27.11	31.52	35.90	37.82	39.92	43.11	44.81	42.24		0.21	1.38	1.95	2.39
1650	12.25	15.60	19.43	21.28	23.36	27.56	31.96	36.29	38.14	40.15	43.06	44.32			0.22	1.42	2.01	2.47
1700	12.48	15.89	19.78	21.65	23.75	27.98	32.37	36.61	38.40	40.29	42.86	43.66			0.23	1.46	2.07	2.54
1750	12.69	16.16	20.12	22.00	24.13	28.36	33.05	36.88	38.58	40.35	42.55	42.83			0.23	1.50	2.14	2.62
1800	12.90	16.43	20.43	22.34	24.48	28.72	33.31	37.07	38.69	40.31	42.12	41.82			0.24	1.55	2.20	2.69
1850	13.10	16.68	20.73	22.65	24.80	29.04	33.54	37.21	38.72	40.18	41.56	40.64			0.25	1.59	2.26	2.77
1900	13.28	16.91	21.01	22.94	25.10	29.33	33.71	37.27	38.68	39.96	40.85	39.27			0.25	1.63	2.32	2.84
1950	13.46	17.14	21.27	23.22	25.38	29.59	33.83	37.27	38.55	39.64	40.01	37.72			0.26	1.68	2.38	2.92
2000	13.63	17.35	21.51	23.46	25.63	29.80	33.90	37.20	38.34	39.22	39.03	35.97			0.27	1.72	2.44	2.99
2050	13.78	17.54	21.74	23.69	25.85	29.99	33.92	37.05	38.04	38.70	37.90				0.27	1.76	2.50	3.07
2100	13.93	17.73	21.94	23.90	26.05	30.13	33.89	36.83	37.66	38.07	36.63				0.28	1.81	2.56	3.14
2150	14.07	17.89	22.12	24.08	26.21	30.24	33.80	36.53	37.19	37.33	35.20				0.29	1.85	2.62	3.22
2200	14.19	18.05	22.29	24.23	26.36	30.31	33.66	36.16	36.63	36.49	33.62				0.29	1.89	2.68	3.29
2250	14.30	18.18	22.43	24.37	26.47	30.34	33.46	35.71	35.97	35.53	31.88				0.30	1.93	2.75	3.37
2300	14.40	18.31	22.55	24.48	26.55	30.32	33.20	35.18	35.22	34.86					0.31	1.98	2.81	3.44
2350	14.49	18.41	22.65	24.56	26.61	30.27	32.88	34.56	34.38	33.27					0.31	2.02	2.87	3.52
2400	14.57	18.50	22.73	24.62	26.63	30.18	32.50	33.86	33.43	31.96					0.32	2.06	2.93	3.59
2450	14.63	18.58	22.78	24.65	26.62	30.04	32.07	33.08	32.39	30.53					0.33	2.11	2.99	3.67
2500	14.69	18.63	22.81	24.66	26.58	29.86	31.56	32.21	31.24	28.98					0.33	2.15	3.05	3.74
2550	14.73	18.67	22.82	24.63	26.51	29.64	31.00	31.25							0.34	2.19	3.11	3.81
2600	14.76	18.70	22.81	24.58	26.41	29.37	30.37	30.20							0.35	2.23	3.17	3.89
2650	14.77	18.71	22.77	24.51	26.28	29.05	29.67	29.06							0.35	2.28	3.23	3.96
2700	14.77	18.69	22.70	24.40	26.11	28.69	28.91	27.82							0.36	2.32	3.29	4.04
2750	14.76	18.66	22.62	24.27	25.90	28.28	28.08	26.49							0.37	2.36	3.36	4.11
2800	14.74	18.62	22.50	24.10	25.67	27.82	27.18	25.06							0.37	2.41	3.42	4.19
2850	14.70	18.55	22.36	23.91	25.39	27.31	26.21	23.53							0.38	2.45	3.48	4.26
2900	14.65	18.47	22.20	23.69	25.08	26.75	25.16	21.90							0.39	2.49	3.54	4.34
2950	14.58	18.36	22.01	23.43	24.74	26.14	24.04	20.16							0.39	2.54	3.60	4.41
3000	14.50	18.24	21.79	23.15	24.35	25.48	21.68	18.33							0.40	2.58	3.66	4.49
3100	14.29	17.93	21.27	22.48	23.47	24.00	18.82								0.41	2.66	3.78	4.64
3200	14.03	17.55	20.64	21.68	22.44	22.31									0.43	2.75	3.90	4.79
3300	13.70	17.08	19.89	20.74	21.24	20.39									0.44	2.84	4.03	4.94
3400	13.31	16.52	19.02	19.67	19.89	18.24									0.45	2.92	4.15	5.09
3500	12.86	15.88	18.03	18.45	18.36	15.85									0.47	3.01	4.27	5.24
3600	12.34	15.14	16.91	17.09	16.65										0.48	3.09	4.39	5.39
3700	11.75	14.32	15.67	15.58	14.77										0.49	3.18	4.51	5.53
3800	11.09	13.39	14.29	13.91											0.51	3.27	4.64	5.68
3900	10.36	12.37	12.78	12.08											0.52	3.35	4.76	5.83
4000	9.50	11.25	11.12	10.09											0.53	3.44	4.88	5.98

Table 17:
Section SPC: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)							Additional Power (kW) per belt for speed ratio			
	224	250	280	300	315	335	355	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	10.35	12.99	15.98	17.95	19.41	21.33	23.23	0.14	0.90	1.28	1.57
950	13.22	16.63	20.50	23.01	24.87	27.30	29.69	0.19	1.22	1.73	2.13
1450	17.63	22.28	27.35	30.63	32.97	33.82	38.81	0.29	1.86	2.65	3.25
2850	20.63	25.52	29.58					0.57	3.67	5.20	6.38
50	1.08	1.31	1.58	1.75	1.89	2.06	2.23	0.01	0.06	0.09	0.11
100	1.94	2.37	2.88	3.20	3.46	3.78	4.10	0.02	0.13	0.18	0.22
200	3.42	4.23	5.19	5.78	6.26	6.88	7.47	0.04	0.26	0.37	0.45
300	5.16	6.40	7.81	8.75	9.44	10.37	11.29	0.06	0.39	0.55	0.67
350	5.84	7.26	8.88	9.95	10.74	11.81	12.86	0.07	0.45	0.64	0.78
400	6.49	8.09	9.91	11.12	12.00	13.20	14.38	0.08	0.51	0.73	0.90
450	7.28	9.07	11.11	12.46	13.47	14.80	16.12	0.09	0.58	0.82	1.01
500	7.90	9.86	12.10	13.57	14.68	16.13	17.57	0.10	0.64	0.91	1.12
550	8.50	10.63	13.05	14.65	15.85	17.42	18.97	0.11	0.71	1.00	1.23
600	9.23	11.55	14.19	15.93	17.22	18.93	20.62	0.12	0.77	1.10	1.34
650	9.80	12.28	15.10	16.96	18.33	20.15	21.95	0.13	0.84	1.19	1.45
700	10.35	12.99	15.98	17.95	19.41	21.33	23.23	0.14	0.90	1.28	1.57
750	11.05	13.87	17.06	19.16	20.72	22.77	24.80	0.15	0.96	1.37	1.68
800	11.57	14.54	17.90	20.10	21.74	23.88	26.00	0.16	1.03	1.46	1.79
850	12.08	15.19	18.70	21.01	22.71	24.95	27.15	0.17	1.09	1.55	1.90
900	12.74	16.02	19.74	22.16	23.95	26.31	28.63	0.18	1.16	1.64	2.01
950	13.22	16.63	20.50	23.01	24.87	27.30	29.69	0.19	1.22	1.73	2.13
1000	13.67	17.22	21.23	23.82	25.74	28.24	30.70	0.20	1.29	1.83	2.24
1050	14.30	18.02	22.20	24.91	26.92	29.53	32.09	0.21	1.35	1.92	2.35
1100	14.73	18.57	22.88	25.66	27.72	30.39	33.00	0.22	1.41	2.01	2.46
1150	15.13	19.09	23.52	26.37	28.47	31.19	33.85	0.23	1.48	2.10	2.57
1200	15.72	19.84	24.44	27.41	29.58	32.41	35.15	0.24	1.54	2.19	2.69
1250	16.09	20.32	25.03	28.05	30.26	32.55	35.89	0.25	1.61	2.28	2.80
1300	16.45	20.78	25.57	28.65	30.89	32.70	36.57	0.26	1.67	2.37	2.91
1350	17.01	21.49	26.41	29.62	31.93	32.91	37.77	0.27	1.74	2.46	3.02
1400	17.33	21.90	26.90	30.15	32.48	33.39	38.33	0.28	1.80	2.56	3.13
1450	17.63	22.28	27.35	30.63	32.97	33.82	38.81	0.29	1.86	2.65	3.25
1500	18.16	22.94	28.20	31.53	33.93	37.00	39.92	0.30	1.93	2.74	3.36
1550	18.42	23.27	28.58	31.93	34.33	37.39	40.28	0.31	1.99	2.83	3.47
1600	18.66	23.57	28.93	32.25	34.68	37.71	41.07	0.32	2.06	2.92	3.58
1650	19.16	24.20	29.68	33.11	35.56	38.66	41.56	0.33	2.12	3.01	3.69
1700	19.36	24.45	29.95	33.38	35.81	38.86	41.70	0.34	2.19	3.10	3.80
1750	19.54	24.67	30.18	33.59	35.99	39.00	42.35	0.35	2.25	3.19	3.92
1800	19.99	25.25	30.88	34.35	36.80	39.85	42.64	0.36	2.31	3.29	4.03
1850	20.13	25.41	31.03	34.47	36.88	39.86	42.68	0.37	2.38	3.38	4.14
1900	20.24	25.54	31.40	34.53	36.90	40.37	42.70	0.38	2.44	3.47	4.25
1950	20.86	26.07	31.77	35.60	37.61	40.54	42.75	0.39	2.51	3.56	4.36
2000	20.73	26.14	31.80	35.62	37.79	40.65	42.79	0.40	2.57	3.65	4.48
2050	20.77	26.17	32.00	35.65	37.91	40.69	43.11	0.41	2.64	3.74	4.59
2100	21.20	26.60	32.34	35.69	37.97	40.68	42.99	0.42	2.70	3.83	4.70
2150	21.30	26.63	32.40	35.72	37.99	40.50	42.60	0.43	2.77	3.92	4.81
2200	21.40	26.66	32.50	35.73	37.95	40.46	42.51	0.44	2.83	4.02	4.92
2250	21.46	26.68	32.56	35.75	37.85	40.25	42.16	0.45	2.89	4.11	5.04
2300	21.49	26.66	32.58	35.65	37.60	39.97	41.26	0.46	2.96	4.20	5.15
2350	21.53	26.99	32.50	35.54	37.49	39.63	41.21	0.47	3.02	4.29	5.26
2400	21.57	27.05	32.41	35.36	37.22	39.21	40.81	0.48	3.09	4.38	5.37
2450	21.56	26.90	32.20	34.90	36.51	38.28	39.41	0.49	3.15	4.47	5.48
2500	21.53	26.88	32.10	34.84	36.50	38.16	39.16	0.50	3.22	4.56	5.60
2550	21.48	26.84	31.88	34.50	36.05			0.51	3.28	4.66	5.71
2600	21.23	26.48	31.31	33.74	35.12			0.52	3.34	4.75	5.82
2650	21.20	26.40	31.30	33.65	34.40			0.53	3.41	4.84	5.93
2700	21.17	26.33	30.94	33.14	34.30			0.54	3.47	4.93	6.04
2750	20.83	25.85	30.20	32.17	33.59			0.55	3.54	5.02	6.16
2800	20.73	25.65	30.08					0.56	3.60	5.11	6.27
2850	20.63	25.52	29.58					0.57	3.67	5.20	6.38
2900	20.20	24.91	28.66					0.58	3.73	5.29	6.49
2950	19.80	24.80	28.42					0.59	3.79	5.39	6.60
3000	19.86	24.38	27.77					0.60	3.86	5.48	6.70
3050	19.33	23.63	26.66					0.61	3.92	5.57	6.83
3100	19.00	23.43	26.30					0.62	3.99	5.66	6.94
3150	18.84	22.90	25.49					0.63	4.06	5.75	7.05
3200	18.21	22.01	24.19					0.64	4.12	5.84	7.16
3250	17.73	21.72	23.69					0.65	4.18	5.93	7.27
3300	17.56	21.07						0.66	4.24	6.02	7.39
3350	16.82	20.03						0.67	4.31	6.12	7.50
3400	16.56	19.65						0.68	4.37	6.21	7.61
3450	16.02	18.87						0.69	4.44	6.30	7.72
3500	15.17	17.88						0.70	4.50	6.39	7.80

Table 17:
Section SPC: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)							Additional Power (kW) per belt for speed ratio			
	375	400	450	500	560	630	710	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	25.11	27.42	31.92	36.24	41.70	47.28	53.19	0.14	0.90	1.28	1.57
950	32.03	34.88	40.32	45.42	51.02	56.77	62.33	0.19	1.22	1.73	2.13
1450	41.52	44.66	50.94	55.51	59.36	61.37		0.29	1.86	2.65	3.25
2850								0.57	3.67	5.20	6.38
50	2.41	2.62	3.05	3.48	3.99	4.58	5.25	0.01	0.06	0.09	0.11
100	4.44	4.84	5.64	6.45	7.41	8.52	9.78	0.02	0.13	0.18	0.22
200	8.11	8.84	10.35	11.85	13.63	15.67	18.02	0.04	0.26	0.37	0.45
300	12.21	13.34	15.60	17.83	20.47	23.50	26.90	0.06	0.39	0.55	0.67
350	13.91	15.20	17.78	20.32	23.31	26.73	30.57	0.07	0.45	0.64	0.78
400	15.56	17.00	19.88	22.71	26.03	29.81	34.05	0.08	0.51	0.73	0.90
450	17.44	19.07	22.28	25.44	29.15	33.37	38.04	0.09	0.58	0.82	1.01
500	19.01	20.78	24.27	27.69	31.68	36.20	41.18	0.10	0.64	0.91	1.12
550	20.52	22.43	26.18	29.83	34.08	38.85	44.66	0.11	0.71	1.00	1.23
600	22.30	24.37	28.44	32.39	36.99	42.13	47.70	0.12	0.77	1.10	1.34
650	23.73	25.93	30.22	34.37	39.17	44.48	50.21	0.13	0.84	1.19	1.45
700	25.11	27.42	31.92	36.24	41.70	47.28	53.19	0.14	0.90	1.28	1.57
750	26.80	29.26	34.04	38.64	43.89	49.62	55.61	0.15	0.96	1.37	1.68
800	28.09	30.65	35.59	40.32	45.66	51.41	57.36	0.16	1.03	1.46	1.79
850	29.31	31.96	37.05	41.88	47.89	53.80	59.77	0.17	1.09	1.55	1.90
900	30.90	33.68	39.03	44.08	49.71	55.63	61.47	0.18	1.16	1.64	2.01
950	32.03	34.88	40.32	45.42	51.02	56.77	62.33	0.19	1.22	1.73	2.13
1000	33.09	35.99	41.51	47.21	52.92	58.71	64.08	0.20	1.29	1.83	2.24
1050	34.58	37.61	43.34	48.62	54.30	59.94	64.95	0.21	1.35	1.92	2.35
1100	35.53	38.60	44.34	49.57	55.07	60.34	65.50	0.22	1.41	2.01	2.46
1150	36.41	39.50	45.81	51.10	56.61	61.76	65.79	0.23	1.48	2.10	2.57
1200	37.80	40.99	46.90	52.16	57.52	62.33	65.72	0.24	1.54	2.19	2.69
1250	38.55	41.74	47.58	52.67	57.69	62.55	65.31	0.25	1.61	2.28	2.80
1300	39.23	42.40	48.82	53.90	58.81	62.73		0.26	1.67	2.37	2.91
1350	40.52	43.77	49.63	54.58	59.19	62.55		0.27	1.74	2.46	3.02
1400	41.06	44.27	49.95	54.61	59.37	62.16		0.28	1.80	2.56	3.13
1450	41.52	44.66	50.94	55.51	59.36	61.37		0.29	1.86	2.65	3.25
1500	42.68	44.95	51.44	55.76	59.15			0.30	1.93	2.74	3.36
1550	42.99	45.14	51.84	55.86				0.31	1.99	2.83	3.47
1600	43.79	46.90	52.10	55.81				0.32	2.06	2.92	3.58
1650	44.24	47.29	52.25	55.59				0.33	2.12	3.01	3.69
1700	44.29	47.50	52.75	54.51				0.34	2.19	3.10	3.80
1750	44.93	47.79	52.19	54.50				0.35	2.25	3.19	3.92
1800	45.16	47.91	51.97					0.36	2.31	3.29	4.03
1850	45.25	47.94	51.62					0.37	2.38	3.38	4.14
1900	45.39	47.87	51.14					0.38	2.44	3.47	4.25
1950	45.39	47.70	50.52					0.39	2.51	3.56	4.36
2000	45.88	47.44	49.76					0.40	2.57	3.65	4.48
2050	45.13	47.07						0.41	2.64	3.74	4.59
2100	44.87	46.60						0.42	2.70	3.83	4.70
2150	44.50	45.45						0.43	2.77	3.92	4.81
2200	44.08	45.33						0.44	2.83	4.02	4.92
2250	43.55	44.53						0.45	2.89	4.11	5.04

Table 18:
Section 8V: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)													Additional Power (kW) per belt for speed ratio			
	335	355	375	425	450	475	500	530	560	600	630	710	800	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	25.53	28.45	31.34	38.40	41.84	45.21	48.52	52.40	56.18	61.06	64.59	74.10	82.35	0.28	1.83	2.60	3.18
950	32.09	35.77	39.37	48.03	52.17	56.17	60.03	64.47	68.68	73.95	77.62	86.13	93.33	0.38	2.48	3.52	4.32
1450	40.16	44.55	48.70	57.96	61.97	66.25	69.44	72.63	75.10		77.79			0.59	3.79	5.38	6.60
50	2.63	2.89	3.16	3.82	4.15	4.48	4.80	5.19	5.58	6.10	6.48	7.51	8.65	0.02	0.13	0.19	0.23
100	4.75	5.24	5.75	6.99	7.61	8.23	8.83	9.57	10.30	11.28	11.99	13.92	16.05	0.04	0.26	0.37	0.45
150	6.67	7.38	8.11	9.91	10.80	11.70	12.56	13.62	14.67	16.07	17.70	20.53	23.68	0.06	0.39	0.56	0.68
200	8.97	9.94	10.91	13.31	14.51	15.69	16.88	18.29	19.69	21.56	22.94	26.61	30.68	0.08	0.52	0.74	0.91
250	10.78	11.97	13.15	16.07	17.54	18.97	20.42	22.13	23.83	26.09	27.76	32.19	37.07	0.10	0.65	0.93	1.14
300	12.51	13.90	15.29	18.72	20.43	22.10	23.79	25.79	27.77	30.40	32.34	38.90	43.84	0.12	0.78	1.11	1.36
350	14.54	16.16	17.78	21.77	23.74	25.71	27.66	29.98	32.28	35.32	37.57	43.49	49.98	0.14	0.91	1.30	1.59
400	16.17	17.98	19.80	24.26	26.46	28.66	30.83	33.41	35.96	39.32	41.81	48.31	56.37	0.16	1.05	1.48	1.82
450	17.72	19.73	21.73	26.65	29.06	31.47	33.85	36.67	39.97	43.69	46.44	53.59	61.33	0.18	1.18	1.67	2.05
500	19.61	21.83	24.04	29.48	32.16	34.81	37.43	40.54	43.60	47.62	50.59	58.27	66.50	0.20	1.31	1.86	2.27
550	21.07	23.47	25.85	31.71	34.58	37.42	40.22	43.53	46.78	51.03	54.16	62.19	70.67	0.22	1.44	2.04	2.50
600	22.47	25.04	27.58	33.82	36.86	39.89	42.85	46.34	50.41	54.95	58.28	66.79	75.70	0.24	1.57	2.23	2.73
650	24.23	27.00	29.74	36.46	39.75	42.96	46.16	49.91	53.57	58.33	61.80	70.61	79.69	0.26	1.70	2.41	2.96
700	25.53	28.45	31.34	38.40	41.84	45.21	48.52	52.40	56.18	61.06	64.59	74.10	82.35	0.28	1.83	2.60	3.18
750	26.76	29.82	32.85	40.22	44.32	47.29	51.35	55.42	59.88	64.46	68.13	77.26	86.31	0.30	1.96	2.78	3.41
800	28.40	31.66	34.87	42.67	46.45	50.14	53.74	57.94	62.01	67.20	70.92	80.06	88.88	0.32	2.09	2.97	3.64
850	29.62	32.91	36.24	44.29	48.17	51.94	55.61	59.86	63.95	69.12	73.44	82.49	90.92	0.34	2.22	3.15	3.87
900	30.57	34.07	37.51	46.34	50.38	54.29	58.09	62.47	66.67	71.95	75.67	84.52	92.42	0.36	2.35	3.34	4.09
950	32.09	35.77	39.37	48.03	52.17	56.17	60.03	64.47	68.68	73.95	77.62	86.13	93.33	0.38	2.48	3.52	4.32
1000	33.02	36.79	40.48	49.29	53.47	57.49	61.34	65.73	70.48	75.68	79.25	87.31	93.63	0.40	2.61	3.71	4.55
1050	33.86	37.73	41.48	51.09	55.38	59.49	63.42	67.87	72.04	77.95	80.56	88.04	93.28	0.42	2.74	3.90	4.78
1100	35.27	39.29	43.19	52.45	56.79	60.93	64.85	69.27	73.36	78.28	81.53	88.30	92.28	0.44	2.88	4.08	5.00
1150	35.98	40.07	44.01	53.31	57.62	61.70	65.53	70.46	74.44	79.13	82.16	88.06	90.56	0.46	3.01	4.27	5.23
1200	36.61	41.28	45.33	54.82	59.20	63.32	67.17	71.42	75.25	79.66	82.42	87.31	88.14	0.49	3.14	4.45	5.46
1250	37.90	42.16	46.27	55.82	60.19	64.27	68.04	72.16	75.80	79.87	82.31	86.03		0.51	3.27	4.64	5.69
1300	38.38	42.67	46.78	56.23	60.50	65.04	68.71	72.65	76.06	79.74	81.80			0.53	3.40	4.82	5.91
1350	38.77	43.06	47.88	57.44	61.71	65.63	69.17	72.90	76.04	79.25	80.89			0.55	3.53	5.01	6.14
1400	39.93	44.34	48.54	58.04	62.24	66.04	69.42	72.90	75.72		79.56			0.57	3.66	5.19	6.37
1450	40.16	44.55	48.70	58.51	62.60	66.25	69.44	72.63	75.10		77.79			0.59	3.79	5.38	6.60
1500	40.93	45.37	49.56	58.84	62.80	66.27	69.24							0.61	3.92	5.57	6.82
1550	41.31	45.75	49.91	59.01	62.81	66.08	68.80							0.63	4.05	5.75	7.05
1600	41.62	45.64	50.10	59.10	62.65	65.69	68.11							0.65	4.18	5.94	7.28
1650	41.85	46.24	50.30	59.20	62.31	65.08	67.18							0.67	4.31	6.12	7.51
1700	41.99	46.34	50.33	58.61	61.77	64.25	65.99							0.69	4.44	6.31	7.73
1750	42.05	46.20	50.24	58.15	61.05	63.19	64.54							0.71	4.57	6.49	7.96
1800	42.03	46.10	50.04	57.52	60.12									0.73	4.70	6.68	8.19
1850	41.92	46.05	49.71	56.72	58.98									0.75	4.84	6.86	8.42
1900	41.42	45.52	49.26	55.75	57.64									0.77	4.97	7.05	8.64
1950	41.26	45.32	48.69	54.58	56.08									0.79	5.10	7.23	8.87
2000	41.04	44.79	47.93	53.23	54.31									0.81	5.23	7.42	9.10
2050	40.04	43.55	46.39											0.83	5.36	7.61	9.33
2100	39.97	43.40	46.16											0.85	5.49	7.79	9.55
2150	39.29	42.52	45.05											0.87	5.62	7.98	9.78
2200	38.50	41.53	43.79											0.89	5.75	8.16	10.01
2250	37.62	40.41	42.40											0.91	5.88	8.35	10.23

Table 19:
Section ZX: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)										Additional Power (kW) per belt for speed ratio			
	40	45	50	56	63	71	80	90	100	112	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	0.21	0.27	0.32	0.36	0.43	0.50	0.58	0.66	0.75	0.84	0.00	0.02	0.03	0.04
950	0.27	0.37	0.39	0.48	0.54	0.63	0.73	0.84	0.95	1.08	0.01	0.02	0.04	0.05
1450	0.35	0.45	0.57	0.63	0.74	0.87	1.01	1.17	1.31	1.49	0.01	0.04	0.05	0.08
2850	0.53	0.69	0.83	1.00	1.19	1.40	1.63	1.87	2.11	2.38	0.02	0.07	0.11	0.16
100	0.04	0.05	0.06	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.00	0.00	0.00	0.01
200	0.09	0.11	0.13	0.13	0.15	0.18	0.20	0.23	0.26	0.30	0.00	0.01	0.01	0.01
300	0.11	0.17	0.15	0.18	0.21	0.25	0.29	0.33	0.37	0.42	0.00	0.01	0.01	0.02
400	0.14	0.23	0.22	0.23	0.27	0.32	0.37	0.42	0.47	0.53	0.00	0.01	0.01	0.02
500	0.16	0.29	0.24	0.28	0.33	0.38	0.44	0.50	0.57	0.64	0.00	0.01	0.02	0.03
600	0.19	0.30	0.27	0.32	0.38	0.44	0.51	0.59	0.66	0.75	0.00	0.02	0.02	0.03
700	0.21	0.30	0.32	0.36	0.43	0.50	0.58	0.66	0.75	0.84	0.00	0.02	0.03	0.04
800	0.23	0.31	0.34	0.40	0.47	0.55	0.64	0.74	0.83	0.94	0.01	0.02	0.03	0.05
900	0.25	0.35	0.36	0.44	0.52	0.61	0.70	0.81	0.91	1.03	0.01	0.02	0.03	0.06
950	0.27	0.37	0.39	0.48	0.54	0.63	0.73	0.84	0.95	1.08	0.01	0.02	0.04	0.05
1000	0.29	0.39	0.42	0.51	0.56	0.66	0.76	0.88	0.99	1.12	0.01	0.03	0.04	0.06
1100	0.29	0.39	0.45	0.55	0.61	0.71	0.82	0.94	1.06	1.20	0.01	0.03	0.04	0.06
1200	0.31	0.39	0.48	0.55	0.65	0.76	0.88	1.01	1.14	1.29	0.01	0.03	0.04	0.07
1300	0.34	0.43	0.51	0.58	0.69	0.80	0.93	1.07	1.21	1.37	0.01	0.03	0.05	0.07
1400	0.35	0.44	0.55	0.61	0.73	0.85	0.99	1.13	1.28	1.45	0.01	0.04	0.05	0.08
1450	0.35	0.45	0.57	0.63	0.74	0.87	1.01	1.17	1.31	1.49	0.01	0.04	0.05	0.08
1500	0.36	0.46	0.59	0.64	0.76	0.89	1.04	1.19	1.35	1.52	0.01	0.04	0.06	0.09
1600	0.38	0.47	0.61	0.68	0.80	0.94	1.09	1.25	1.41	1.60	0.01	0.04	0.06	0.09
1700	0.39	0.50	0.63	0.70	0.84	0.98	1.14	1.31	1.48	1.67	0.01	0.04	0.06	0.10
1800	0.41	0.53	0.66	0.73	0.87	1.02	1.19	1.37	1.54	1.74	0.01	0.05	0.07	0.10
1900	0.42	0.55	0.66	0.76	0.90	1.06	1.23	1.42	1.60	1.81	0.01	0.05	0.07	0.11
2000	0.43	0.55	0.66	0.79	0.94	1.10	1.28	1.47	1.66	1.88	0.01	0.05	0.07	0.11
2100	0.45	0.56	0.68	0.82	0.97	1.14	1.33	1.52	1.72	1.94	0.02	0.05	0.08	0.12
2200	0.46	0.57	0.71	0.84	1.00	1.18	1.37	1.58	1.77	2.00	0.02	0.06	0.08	0.13
2300	0.46	0.58	0.72	0.87	1.03	1.21	1.41	1.62	1.83	2.07	0.02	0.06	0.08	0.13
2400	0.47	0.60	0.73	0.89	1.06	1.25	1.45	1.67	1.88	2.13	0.02	0.06	0.09	0.14
2500	0.48	0.62	0.76	0.92	1.09	1.28	1.49	1.72	1.94	2.18	0.02	0.06	0.09	0.14
2600	0.50	0.64	0.78	0.94	1.12	1.32	1.53	1.77	1.99	2.24	0.02	0.07	0.10	0.15
2700	0.52	0.67	0.80	0.96	1.15	1.35	1.57	1.81	2.04	2.30	0.02	0.07	0.10	0.15
2800	0.53	0.69	0.82	0.98	1.17	1.38	1.61	1.85	2.08	2.35	0.02	0.07	0.10	0.16
2850	0.53	0.69	0.83	1.00	1.19	1.40	1.63	1.87	2.11	2.38	0.02	0.07	0.11	0.16
2900	0.54	0.70	0.85	1.01	1.20	1.42	1.65	1.90	2.13	2.40	0.02	0.07	0.11	0.17
3000	0.54	0.71	0.87	1.03	1.23	1.45	1.69	1.94	2.18	2.45	0.02	0.08	0.11	0.17
3100	0.55	0.71	0.88	1.05	1.25	1.48	1.72	1.98	2.22	2.50	0.02	0.08	0.11	0.18
3200	0.56	0.73	0.90	1.07	1.28	1.51	1.76	2.02	2.27	2.55	0.02	0.08	0.12	0.18
3300	0.56	0.74	0.92	1.09	1.30	1.54	1.79	2.06	2.31	2.59	0.02	0.08	0.12	0.19
3400	0.57	0.75	0.93	1.11	1.33	1.56	1.82	2.09	2.35	2.64	0.02	0.09	0.13	0.19
3500	0.58	0.76	0.93	1.13	1.35	1.59	1.85	2.13	2.39	2.68	0.02	0.09	0.13	0.20
3600	0.59	0.77	0.94	1.15	1.37	1.62	1.88	2.16	2.43	2.72	0.02	0.09	0.13	0.21
3700	0.61	0.78	0.96	1.16	1.39	1.65	1.92	2.20	2.46	2.76	0.03	0.09	0.14	0.21
3800	0.61	0.79	0.97	1.18	1.42	1.67	1.94	2.23	2.50	2.80	0.03	0.10	0.14	0.22
3900	0.62	0.81	0.99	1.20	1.44	1.70	1.97	2.26	2.53	2.83	0.03	0.10	0.14	0.22
4000	0.62	0.81	1.00	1.22	1.46	1.72	2.00	2.29	2.57	2.87	0.03	0.10	0.15	0.23
4100	0.63	0.82	1.01	1.23	1.48	1.74	2.03	2.32	2.60	2.90	0.03	0.10	0.15	0.23
4200	0.63	0.84	1.02	1.25	1.50	1.77	2.06	2.35	2.63	2.93	0.03	0.11	0.15	0.24
4300	0.64	0.85	1.04	1.26	1.52	1.79	2.08	2.38	2.66	2.96	0.03	0.11	0.16	0.25
4400	0.64	0.86	1.05	1.28	1.53	1.81	2.11	2.41	2.69	2.99	0.03	0.11	0.16	0.25
4500	0.65	0.86	1.06	1.29	1.55	1.83	2.13	2.43	2.71	3.01	0.03	0.12	0.17	0.26
4600	0.66	0.86	1.07	1.31	1.57	1.85	2.15	2.46	2.74	3.04	0.03	0.12	0.17	0.26
4700	0.65	0.87	1.08	1.32	1.59	1.87	2.17	2.48	2.76	3.06	0.03	0.12	0.17	0.27
4800	0.66	0.87	1.09	1.33	1.60	1.89	2.20	2.51	2.79	3.08	0.03	0.12	0.18	0.27
4900	0.67	0.88	1.10	1.35	1.62	1.91	2.22	2.53	2.81	3.10	0.03	0.13	0.18	0.28
5000	0.67	0.88	1.11	1.36	1.63	1.93	2.24	2.55	2.83	3.12	0.03	0.13	0.18	0.29
5100	0.67	0.90	1.12	1.37	1.65	1.95	2.26	2.57	2.85	3.13	0.03	0.13	0.19	0.29
5200	0.68	0.90	1.13	1.38	1.66	1.96	2.27	2.59	2.86	3.15	0.04	0.13	0.19	0.30
5300	0.68	0.91	1.14	1.39	1.68	1.98	2.29	2.60	2.88	3.16	0.04	0.14	0.20	0.30
5400	0.68	0.91	1.14	1.40	1.69	1.99	2.31	2.62	2.90	3.17	0.04	0.14	0.20	0.31
5500	0.69	0.92	1.15	1.41	1.70	2.01	2.32	2.64	2.91	3.18	0.04	0.14	0.20	0.31
5600	0.69	0.93	1.16	1.42	1.71	2.02	2.34	2.65	2.92	3.19	0.04	0.14	0.21	0.32
5800	0.69	0.94	1.17	1.44	1.74	2.05	2.37	2.68	2.94	3.20	0.04	0.15	0.21	0.33
6000	0.70	0.94	1.19	1.46	1.76	2.07	2.39	2.70	2.96	3.20	0.04	0.15	0.22	0.34
6200	0.70	0.95	1.20	1.48	1.78	2.09	2.41	2.71	2.96	3.19	0.04	0.16	0.23	0.35
6400	0.70	0.96	1.21	1.49	1.80	2.11	2.43	2.73	2.97	3.17	0.04	0.16	0.24	0.37
6600	0.70	0.97	1.22	1.50	1.81	2.13	2.44	2.73	2.96	3.15	0.04	0.17	0.24	0.38
6800	0.70	0.97	1.23	1.51	1.82	2.14	2.45	2.74	2.95	3.12	0.05	0.17	0.25	0.39
7000	0.70	0.97	1.23	1.52	1.83	2.15	2.46	2.73	2.94	3.08	0.05	0.18	0.26	0.40
7200	0.70	0.97	1.24	1.53	1.84	2.16	2.46	2.73	2.92	3.03	0.05	0.18	0.27	0.41
7400	0.69	0.97	1.24	1.54	1.85	2.16	2.46	2.72	2.89	2.98	0.05	0.19	0.27	0.42
7600	0.69	0.96	1.24	1.54	1.85	2.17	2.46	2.70			0.05	0.19	0.28	0.43
7800	0.69	0.97	1.25	1.54	1.86	2.17	2.45	2.68			0.05	0.20	0.29	0.45
8000	0.68	0.97	1.25	1.55	1.86	2.16	2.44	2.65			0.05	0.20	0.30	0.46
8200	0.68	0.97	1.24	1.55	1.86	2.16	2.42				0.06	0.21	0.30	0.47
8400	0.67	0.97	1.24	1.54	1.85	2.15	2.40				0.06	0.21	0.31	0.48

Table 20:
Section AX: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)															Additional Power (kW) per belt for speed ratio			
	63	71	80	90	95	100	106	112	118	125	132	140	150	160	180	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	0.67	0.86	1.07	1.29	1.40	1.51	1.64	1.77	1.90	2.04	2.19	2.35	2.56	2.76	3.15	0.02	0.06	0.12	0.16
950	0.82	1.05	1.32	1.63	1.80	1.92	2.05	2.25	2.40	2.60	2.70	3.05	3.10	3.45	3.98	0.03	0.11	0.16	0.24
1450	1.10	1.45	1.83	2.24	2.44	2.64	2.89	3.12	3.36	3.63	3.88	4.18	4.54	4.90	5.59	0.04	0.17	0.24	0.37
2850	1.39	1.98	2.60	3.27	3.58	3.90	4.27	4.62	4.97	5.35	5.73	6.10	6.56	7.11	7.88	0.09	0.33	0.47	0.73
100	0.16	0.19	0.23	0.28	0.30	0.32	0.34	0.37	0.39	0.42	0.45	0.48	0.52	0.56	0.63	0.00	0.01	0.02	0.03
200	0.32	0.38	0.46	0.56	0.60	0.64	0.68	0.74	0.78	0.84	0.90	0.96	1.04	1.12	1.26	0.01	0.02	0.03	0.05
300	0.37	0.46	0.56	0.67	0.73	0.78	0.84	0.91	0.97	1.04	1.11	1.20	1.30	1.40	1.59	0.01	0.03	0.05	0.08
400	0.49	0.61	0.75	0.89	0.97	1.04	1.12	1.21	1.29	1.39	1.48	1.60	1.73	1.87	2.12	0.01	0.05	0.07	0.10
500	0.62	0.77	0.93	1.12	1.22	1.30	1.40	1.52	1.62	1.73	1.85	2.00	2.17	2.33	2.65	0.02	0.06	0.08	0.13
600	0.64	0.84	1.04	1.25	1.30	1.45	1.50	1.68	1.80	1.90	2.00	2.20	2.37	2.50	2.95	0.02	0.07	0.10	0.15
700	0.67	0.86	1.07	1.29	1.40	1.51	1.64	1.77	1.90	2.04	2.19	2.35	2.56	2.76	3.15	0.02	0.08	0.12	0.18
800	0.77	0.98	1.22	1.47	1.60	1.73	1.87	2.02	2.17	2.33	2.50	2.69	2.76	3.15	3.45	0.02	0.09	0.13	0.21
900	0.80	0.99	1.28	1.60	1.70	1.83	1.95	2.20	2.30	2.50	2.60	3.02	2.86	3.30	3.75	0.03	0.10	0.15	0.23
950	0.82	1.05	1.32	1.63	1.80	1.92	2.05	2.25	2.40	2.60	2.70	3.05	3.10	3.45	3.98	0.03	0.11	0.16	0.24
1000	0.85	1.10	1.44	1.67	1.82	1.97	2.14	2.31	2.48	2.68	2.87	3.09	3.36	3.62	4.14	0.03	0.11	0.17	0.26
1100	0.94	1.21	1.51	1.84	2.00	2.17	2.35	2.54	2.73	2.95	3.16	3.40	3.70	3.98	4.55	0.03	0.13	0.18	0.28
1200	0.96	1.28	1.64	2.00	2.18	2.36	2.57	2.77	2.98	3.22	3.44	3.71	4.03	4.34	4.97	0.04	0.14	0.20	0.31
1300	0.99	1.30	1.64	2.01	2.19	2.37	2.58	2.80	3.01	3.25	3.48	3.75	4.07	4.39	5.01	0.04	0.15	0.22	0.33
1400	1.07	1.40	1.77	2.17	2.36	2.55	2.79	3.02	3.24	3.50	3.75	4.04	4.38	4.73	5.40	0.04	0.16	0.23	0.36
1450	1.10	1.45	1.83	2.24	2.44	2.64	2.89	3.12	3.36	3.63	3.88	4.18	4.54	4.90	5.59	0.04	0.17	0.24	0.37
1500	1.10	1.48	1.86	2.32	2.48	2.73	2.99	3.23	3.47	3.75	4.02	4.33	4.70	5.07	5.78	0.05	0.17	0.25	0.38
1600	1.10	1.47	1.87	2.35	2.52	2.74	2.99	3.23	3.47	3.75	4.03	4.33	4.71	5.07	5.78	0.05	0.18	0.26	0.41
1700	1.17	1.56	1.99	2.45	2.68	2.91	3.18	3.43	3.69	3.98	4.28	4.60	5.00	5.39	6.14	0.05	0.20	0.28	0.44
1800	1.22	1.60	2.06	2.50	2.80	2.98	3.36	3.55	3.79	4.10	4.40	4.70	5.10	5.50	6.30	0.05	0.21	0.30	0.46
1900	1.24	1.62	2.08	2.58	2.82	3.06	3.44	3.62	3.89	4.21	4.51	4.86	5.27	5.67	6.44	0.06	0.22	0.31	0.49
2000	1.26	1.71	2.19	2.72	2.97	3.22	3.52	3.81	4.10	4.43	4.75	5.11	5.45	5.80	6.74	0.06	0.23	0.33	0.51
2100	1.32	1.73	2.22	2.80	3.06	3.30	3.60	3.90	4.20	4.58	4.85	5.21	5.65	6.00	6.85	0.06	0.24	0.35	0.54
2200	1.32	1.75	2.26	2.81	3.08	3.35	3.66	3.97	4.27	4.61	4.94	5.31	5.76	6.19	7.00	0.07	0.25	0.36	0.56
2300	1.33	1.83	2.36	2.94	3.22	3.50	3.83	4.15	4.40	4.70	5.16	5.56	6.02	6.40	7.15	0.07	0.26	0.38	0.59
2400	1.34	1.84	2.40	3.00	3.28	3.55	3.99	4.20	4.50	4.80	5.22	5.65	6.10	6.51	7.30	0.07	0.28	0.40	0.62
2500	1.34	1.85	2.42	3.02	3.32	3.60	4.05	4.27	4.59	4.96	5.32	5.71	6.18	6.63	7.45	0.08	0.29	0.41	0.64
2600	1.35	1.92	2.52	3.14	3.40	3.74	4.10	4.30	4.66	5.16	5.53	5.84	6.33	6.78	7.57	0.08	0.30	0.43	0.67
2700	1.37	1.93	2.53	3.16	3.48	3.80	4.15	4.40	4.77	5.20	5.60	5.94	6.43	6.88	7.68	0.08	0.31	0.45	0.69
2800	1.38	1.94	2.55	3.21	3.52	3.83	4.19	4.54	4.88	5.26	5.63	6.04	6.52	6.96	7.79	0.09	0.32	0.47	0.73
2850	1.39	1.98	2.60	3.27	3.58	3.90	4.27	4.62	4.97	5.35	5.73	6.10	6.58	7.11	7.88	0.09	0.33	0.46	0.72
2900	1.40	2.01	2.64	3.33	3.65	3.97	4.34	4.70	5.05	5.40	5.83	6.18	6.64	7.15	7.95	0.09	0.33	0.48	0.74
3000	1.40	2.01	2.65	3.44	3.68	4.00	4.38	4.72	5.12	5.45	5.87	6.25	6.71	7.20	7.95	0.09	0.34	0.50	0.77
3100	1.41	2.02	2.67	3.45	3.70	4.02	4.40	4.77	5.20	5.52	5.90	6.31	6.79	7.24	8.01	0.09	0.36	0.51	0.80
3200	1.41	2.03	2.74	3.47	3.75	4.10	4.45	4.80	5.23	5.60	6.00	6.35	6.85	7.34	8.06	0.10	0.37	0.53	0.82
3300	1.42	2.05	2.75	3.48	3.80	4.15	4.50	4.82	5.25	5.66	6.05	6.43	6.90	7.40	8.09	0.10	0.80	0.55	0.85
3400	1.42	2.07	2.76	3.49	3.84	4.18	4.57	4.85	5.31	5.72	6.10	6.51	6.98	7.41	8.11	0.10	0.39	0.56	0.87
3500	1.43	2.10	2.80	3.59	3.90	4.20	4.65	4.90	5.35	5.75	6.15	6.55	7.02	7.43	8.15	0.11	0.40	0.58	0.90
3600	1.43	2.11	2.82	3.59	3.96	4.25	4.68	5.00	5.40	5.80	6.20	6.60	7.05	7.46		0.11	0.41	0.60	0.92
3700	1.44	2.11	2.84	3.60	3.96	4.31	4.71	5.10	5.46	5.87	6.24	6.64	7.09	7.48		0.11	0.42	0.61	0.95
3800	1.44	2.12	2.86	3.62	4.00	4.35	4.75	5.15	5.50	5.90	6.28	6.68	7.09	7.48		0.12	0.44	0.63	0.98
3900	1.44	2.13	2.88	3.64	4.02	4.38	4.80	5.18	5.55	5.93	6.30	6.69	7.10	7.47		0.12	0.45	0.65	1.00
4000	1.43	2.14	2.89	3.68	4.05	4.40	4.81	5.20	5.58	5.96	6.32	6.70	7.11	7.45		0.12	0.46	0.66	1.03
4100	1.43	2.14	2.90	3.70	4.08	4.42	4.83	5.22	5.58	5.97	6.34	6.70	7.10			0.12	0.47	0.68	1.05
4200	1.42	2.15	2.91	3.70	4.10	4.45	4.85	5.24	5.59	5.98	6.34	6.70	7.07			0.13	0.48	0.70	1.08
4300	1.41	2.15	2.93	3.73	4.11	4.47	4.88	5.26	5.61	6.00	6.34	6.68	7.04			0.13	0.49	0.71	1.10
4400	1.37	2.15	2.94	3.73	4.12	4.48	4.89	5.26	5.74	6.00	6.33	6.66	7.00			0.13	0.51	0.73	1.13
4500	1.36	2.14	2.94	3.74	4.12	4.48	4.89	5.27	5.87	6.14	6.31	6.63	6.94			0.14	0.52	0.74	1.15
4600	1.35	2.14	2.94	3.76	4.13	4.49	4.90	5.27	5.80	5.97	6.29					0.14	0.53	0.76	1.18
4700	1.35	2.13	2.95	3.76	4.13	4.59	5.01	5.38	5.73	5.95	6.25					0.14	0.54	0.78	1.21
4800	1.35	2.12	2.95	3.76	4.13	4.55	4.95	5.37	5.60	5.92	6.21					0.15	0.55	0.79	1.23
4900	1.33	2.11	2.96	3.76	4.13	4.52	4.88	5.36	5.56	5.89	6.16					0.15	0.56	0.81	1.26
5000	1.32	2.09	2.99	3.75	4.12	4.50	4.86	5.35	5.50	5.85	6.11					0.15	0.57	0.83	1.28
5100	1.30	2.08	2.99	3.74	4.11	4.48	4.84	5.25	5.48							0.16	0.59	0.84	1.31
5200	1.27	2.07	2.98	3.73	4.10	4.45	4.82	5.16	5.46							0.16	0.60	0.86	1.33
5300	1.26	2.05	2.96	3.70	4.08	4.42	4.78	5.10	5.41							0.16	0.61	0.88	1.36
5400	1.25	2.03	2.90	3.68	4.05	4.40	4.76	5.08	5.35							0.16	0.62	0.89	1.39
5500	1.20	2.01	2.85	3.67	4.03	4.37	4.72	5.03	5.29							0.17	0.63	0.91	1.41
5600	1.18	2.00	2.85	3.67	4.00	4.30	4.65									0.17	0.64	0.93	1.44
5700	1.16	1.99	2.80	3.66	3.98	4.28	4.60									0.17	0.65	0.94	1.46
5800	1.11	1.94	2.78	3.65	3.93	4.25	4.58									0.18	0.67	0.96	1.49
5900	1.08	1.93	2.75	3.64	3.89	4.20	4.52									0.18	0.68	0.98	1.51
6000	1.05	1.90	2.72	3.60	3.85	4.15	4.45									0.18	0.69	0.99	1.54

Table 21:
Section BX: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)																Additional Power (kW) per belt for speed ratio			
	90	100	106	112	118	125	132	140	160	180	190	200	212	224	250	280	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	1.70	2.01	2.20	2.38	2.56	2.77	2.98	3.21	3.79	4.35	4.63	4.90	5.23	5.55	6.22	6.98	0.03	0.12	0.18	0.28
950	2.18	2.60	2.85	3.10	3.34	3.76	3.85	4.36	5.14	5.71	6.28	6.43	6.85	7.53	8.44	8.91	0.04	0.17	0.24	0.37
1450	2.93	3.51	3.85	4.18	4.52	4.90	5.28	5.70	6.74	7.74	8.22	8.70	9.25	9.79	10.73	12.16	0.07	0.26	0.37	0.57
2850	4.19	5.11	5.64	6.16	6.66	7.23	7.78	8.38	9.90	10.99	11.54	12.03	12.57	13.03	13.77		0.13	0.5	0.72	1.12
100	0.37	0.42	0.46	0.49	0.53	0.57	0.61	0.65	0.76	0.87	0.93	0.98	1.04	1.11	1.24	1.40	0.00	0.02	0.03	0.04
200	0.74	0.84	0.92	0.98	1.06	1.14	1.22	1.30	1.52	1.74	1.86	1.96	2.08	2.22	2.48	2.80	0.01	0.04	0.05	0.08
300	1.11	1.26	1.38	1.47	1.59	1.71	1.83	1.95	2.28	2.61	2.79	2.94	3.12	3.33	3.72	4.20	0.01	0.05	0.08	0.12
400	1.11	1.31	1.42	1.54	1.65	1.78	1.91	2.06	2.43	2.78	2.96	3.13	3.34	3.54	3.98	4.47	0.02	0.07	0.1	0.16
500	1.39	1.64	1.78	1.93	2.06	2.23	2.39	2.58	3.04	3.48	3.70	3.91	4.18	4.43	4.98	5.59	0.02	0.09	0.13	0.20
600	1.67	1.70	2.13	2.31	2.48	2.67	2.87	3.09	3.65	4.17	4.44	4.70	5.01	5.31	5.97	6.19	0.03	0.11	0.15	0.24
700	1.70	2.01	2.20	2.38	2.56	2.77	2.98	3.21	3.79	4.35	4.63	4.90	5.23	5.55	6.22	6.98	0.03	0.12	0.18	0.28
800	1.94	2.30	2.51	2.72	2.93	3.17	3.41	3.67	4.33	4.97	5.29	5.60	5.98	6.34	7.11	7.98	0.04	0.14	0.2	0.32
900	2.09	2.48	2.83	3.06	3.29	3.56	3.83	4.13	4.87	5.59	5.95	6.30	6.72	7.14	8.00	8.44	0.04	0.16	0.23	0.35
950	2.18	2.60	2.85	3.10	3.34	3.76	3.85	4.36	5.14	5.71	6.28	6.43	6.85	7.53	8.44	8.91	0.04	0.17	0.24	0.37
1000	2.19	2.61	2.86	3.11	3.35	3.78	3.91	4.44	5.25	5.72	6.29	6.44	6.86	7.54	8.45	9.12	0.05	0.18	0.25	0.39
1100	2.41	2.87	3.15	3.42	3.69	3.99	4.30	4.64	5.48	6.29	6.70	7.08	7.55	8.01	8.97	10.03	0.05	0.19	0.28	0.43
1200	2.63	3.13	3.43	3.73	4.02	4.36	4.69	5.06	5.98	6.86	7.31	7.73	8.23	8.74	9.78	10.34	0.06	0.21	0.31	0.47
1300	2.83	3.15	3.45	3.75	4.05	4.39	4.73	5.11	6.04	6.94	7.37	7.80	8.29	8.78	9.80	10.90	0.06	0.23	0.33	0.51
1400	2.83	3.39	3.72	4.04	4.36	4.73	5.09	5.50	6.50	7.47	7.94	8.40	8.93	9.46	10.55	11.74	0.07	0.25	0.36	0.55
1450	2.93	3.51	3.85	4.18	4.52	4.90	5.28	5.70	6.74	7.74	8.22	8.70	9.25	9.79	10.73	12.16	0.07	0.26	0.37	0.57
1500	3.00	3.63	3.98	4.33	4.67	5.07	5.46	5.90	6.97	8.00	8.50	9.00	9.57	10.06	10.74	12.20	0.07	0.26	0.38	0.59
1600	3.10	3.64	3.98	4.34	4.68	5.08	5.47	5.91	6.98	8.00	8.51	9.10	9.58	10.07	11.17	12.33	0.07	0.28	0.41	0.63
1700	3.20	3.85	4.23	4.57	4.97	5.40	5.81	6.28	7.42	8.50	9.02	9.53	10.13	10.70	11.87	13.08	0.08	0.30	0.43	0.67
1800	3.34	4.07	4.44	4.84	5.27	5.68	6.12	6.65	7.85	8.91	9.55	9.96	10.72	10.80	11.92	13.10	0.08	0.32	0.46	0.71
1900	3.35	4.06	4.45	4.85	5.28	5.69	6.13	6.66	7.91	8.92	9.56	9.97	10.73	11.12	12.25	13.38	0.09	0.33	0.48	0.75
2000	3.53	4.25	4.68	5.11	5.52	5.99	6.45	6.97	8.22	9.39	9.95	10.50	11.12	11.71	12.80	13.86	0.09	0.35	0.51	0.79
2100	3.70	4.47	4.85	5.36	5.72	6.22	6.70	7.32	8.63	9.70	10.44	10.77	11.13	11.72	12.80	14.02	0.10	0.37	0.53	0.83
2200	3.79	4.48	4.86	5.37	5.73	6.23	6.71	7.33	8.82	9.70	10.45	10.78	11.38	11.94	13.02	14.06	0.10	0.39	0.56	0.87
2300	3.81	4.61	5.08	5.54	5.99	6.51	7.02	7.58	8.91	10.14	10.72	11.27	11.80	12.34	13.34	14.19	0.11	0.41	0.58	0.91
2400	3.97	4.81	5.30	5.78	6.25	6.80	7.32	7.91	9.29	10.58	11.19	11.32	11.75	12.35	13.35	14.20	0.11	0.42	0.61	0.95
2500	3.98	4.82	5.31	5.79	6.26	6.81	7.33	7.92	9.39	10.59	11.19	11.40	11.89	12.51	13.46	14.21	0.12	0.44	0.64	0.99
2600	4.06	4.93	5.44	5.93	6.42	6.97	7.50	8.09	9.49	10.74	11.32	11.70	12.24	13.01	13.52		0.13	0.46	0.66	1.02
2700	4.11	5.01	5.53	6.16	6.66	7.10	7.76	8.20	9.85	10.79	11.33	11.71	12.25	13.01	13.55		0.13	0.48	0.69	1.06
2800	4.12	5.02	5.54	6.16	6.66	7.10	7.77	8.23	9.90	10.80	11.34	11.82	12.35	13.02	13.63		0.14	0.49	0.71	1.10
2850	4.19	5.11	5.64	6.16	6.66	7.23	7.78	8.38	9.90	10.99	11.54	12.03	12.57	13.03	13.77		0.14	0.50	0.72	1.12
2900	4.27	5.20	5.74	6.27	6.77	7.35	7.91	8.52	9.94	11.01	11.55	12.04	12.58	13.26	13.47		0.13	0.51	0.74	1.14
3000	4.41	5.38	5.80	6.48	6.85	7.61	7.92	8.82	9.95	11.03	11.56	12.05	12.45	12.94	13.37		0.14	0.53	0.76	1.18
3100	4.42	5.39	5.81	6.49	6.86	7.65	7.99	8.83	9.96	11.11	11.60	12.06					0.15	0.55	0.79	1.22
3200	4.45	5.43	6.00	6.54	7.08	7.67	8.25	8.87	10.28	11.21	11.65	12.42					0.15	0.56	0.81	1.26
3300	4.45	5.44	6.19	6.55	7.10	7.91	8.49	8.88	10.58	11.22	11.66	12.37					0.15	0.58	0.84	1.30
3400	4.46	5.45	6.20	6.56	7.11	7.92	8.50	8.89	10.59	11.24	11.66	12.36					0.16	0.60	0.86	1.34
3500	4.59	5.61	6.21	6.72	7.32	7.93	8.50	9.01	10.60	11.57	12.00	12.35					0.16	0.62	0.89	1.38
3600	4.60	5.62	6.25	6.73	7.53	7.95	8.62	9.02	10.39	11.23							0.17	0.63	0.92	1.42
3700	4.63	5.63	6.26	6.75	7.54	7.96	8.65	9.03	10.28	11.19							0.17	0.65	0.94	1.46
3800	4.64	5.75	6.36	6.93	7.55	7.98	8.67	9.27	10.27	11.18							0.18	0.67	0.97	1.50
3900	4.64	5.90	6.52	7.00	7.68	7.99	8.90	9.52	10.26	11.05							0.18	0.69	0.99	1.54
4000	4.65	5.92	6.53	7.01	7.69	7.99	8.95	9.09	10.20	10.94							0.19	0.71	1.02	1.58
4100	4.77	5.93	6.55	7.04	7.70	8.19	8.96	9.08	10.20								0.19	0.72	1.04	1.62
4200	4.88	5.98	6.63	7.21	7.78	8.39	8.96	9.07	10.11								0.20	0.74	1.07	1.65
4300	4.79	5.99	6.53	6.93	7.79	8.40	8.75	9.06	10.02								0.20	0.76	1.09	1.69
4400	4.83	5.99	6.52	6.93	7.80	8.21	8.74	9.05	10.00								0.21	0.78	1.12	1.73
4500	4.84	6.04	6.51	6.93	7.81	8.20	8.73	8.97	10.00								0.21	0.79	1.14	1.77
4600	4.83	5.76	6.37	6.93	7.75	7.97	8.65										0.22	0.81	1.17	1.81
4700	4.80	5.77	6.36	6.92	7.60	7.96	8.63										0.22	0.83	1.19	1.85
4800	4.79	5.76	6.35	6.91	7.59	7.94	8.44										0.22	0.85	1.23	1.89
4900	4.66	5.74	6.32	6.86	7.34	7.84	8.26										0.23	0.86	1.25	1.93
5000	4.65	5.72	6.31	6.85	7.33	7.83	8.23										0.23	0.88	1.27	1.97

Table 22:
Section CX: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)															Additional Power (kW) per belt for speed ratio			
	140	150	160	180	200	224	250	280	315	335	355	400	450	500	630	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	4.81	5.29	5.76	6.69	7.59	8.65	9.77	11.03	12.45	13.24	14.02	15.70	17.48	19.17	23.23	0.06	0.23	0.33	0.52
950	6.07	6.68	7.28	8.46	9.61	10.94	12.34	13.89	15.62	16.58	17.50	19.46	21.47	23.28	26.99	0.08	0.32	0.45	0.70
1450	8.23	9.07	9.89	11.49	13.01	14.79	16.54	18.59	20.72	21.52	22.50	24.39	25.99			0.13	0.48	0.69	1.07
2850	12.29	13.49	14.62	16.66	18.40	20.07										0.25	0.95	1.36	2.11
50	0.54	0.59	0.64	0.74	0.83	0.94	1.06	1.20	1.35	1.44	1.53	1.72	1.94	2.15	2.69	0.00	0.02	0.02	0.04
100	1.08	1.18	1.28	1.48	1.66	1.88	2.12	2.40	2.70	2.88	3.06	3.44	3.88	4.30	5.38	0.01	0.03	0.05	0.07
150	1.62	1.77	1.92	2.22	2.49	2.82	3.18	3.60	4.05	4.32	4.59	5.16	5.82	6.45	8.07	0.01	0.05	0.07	0.11
200	1.76	1.92	2.08	2.41	2.72	3.10	3.50	3.95	4.47	4.76	5.06	5.70	6.40	7.09	8.83	0.02	0.07	0.10	0.15
250	2.20	2.40	2.60	3.01	3.40	3.88	4.38	4.94	5.59	5.95	6.33	7.13	8.00	8.86	11.04	0.02	0.08	0.12	0.19
300	2.45	2.69	2.92	3.37	3.82	4.35	4.91	5.55	6.29	6.70	7.10	8.00	8.98	9.94	12.33	0.03	0.10	0.14	0.22
350	2.86	3.14	3.41	3.93	4.46	5.08	5.73	6.48	7.34	7.82	8.28	9.33	10.48	11.60	14.39	0.03	0.12	0.17	0.26
400	3.10	3.59	3.89	4.49	5.09	5.80	6.55	7.40	8.39	8.93	9.47	10.67	11.97	12.55	16.49	0.04	0.13	0.19	0.30
450	3.40	3.73	4.06	4.70	5.33	6.08	6.86	7.76	8.77	9.34	9.91	11.15	12.48	13.78	16.96	0.04	0.15	0.22	0.33
500	3.78	4.14	4.51	5.22	5.92	6.76	7.62	8.62	9.74	10.38	11.01	12.39	13.87	15.31	18.84	0.04	0.17	0.24	0.37
550	3.99	4.38	4.76	5.52	6.27	7.15	8.07	9.12	10.31	10.97	11.63	13.07	14.60	16.08	19.65	0.05	0.18	0.26	0.41
600	4.35	4.78	5.19	6.02	6.84	7.80	8.80	9.95	11.25	11.97	12.69	14.26	15.60	17.54	21.44	0.05	0.20	0.29	0.44
650	4.72	5.18	5.63	6.52	7.41	8.45	9.54	10.78	12.18	12.96	13.74	15.45	16.56	19.00	23.22	0.06	0.22	0.31	0.48
700	4.81	5.29	5.76	6.69	7.59	8.65	9.77	11.03	12.45	13.24	14.02	15.70	17.48	19.17	23.23	0.06	0.23	0.33	0.52
750	5.15	5.67	6.17	7.17	8.13	9.27	10.47	11.82	13.34	14.19	15.02	16.82	18.36	20.54	24.72	0.07	0.25	0.36	0.56
800	5.33	5.86	6.39	7.42	8.42	9.60	10.84	12.22	13.78	14.64	15.48	17.30	19.20	20.97	24.93	0.07	0.27	0.38	0.59
850	5.66	6.23	6.79	7.88	8.95	10.20	11.52	12.98	14.64	15.56	16.45	18.38	20.40	22.28	26.49	0.07	0.28	0.41	0.63
900	6.00	6.59	7.19	8.35	9.47	10.80	12.20	13.75	15.50	16.47	17.41	19.46	20.76	22.57	26.50	0.08	0.30	0.43	0.67
950	6.07	6.68	7.28	8.46	9.61	10.94	12.34	13.89	15.62	16.58	17.50	19.46	21.47	23.28	26.99	0.08	0.32	0.45	0.70
1000	6.39	7.03	7.66	8.91	10.12	11.52	12.99	14.62	16.44	17.45	18.42	20.48	22.60	24.51	27.85	0.09	0.33	0.48	0.74
1050	6.54	7.20	7.85	9.12	10.35	11.78	13.28	14.93	16.76	17.75	18.71	20.74	22.76	24.53	27.86	0.09	0.35	0.50	0.78
1100	6.85	7.54	8.22	9.55	10.84	12.34	13.91	15.64	17.56	18.60	19.60	21.73	23.84	25.70	29.19	0.10	0.36	0.53	0.82
1150	7.16	7.89	8.60	9.99	11.34	12.90	14.54	16.35	18.36	18.84	20.49	22.72	23.87	25.71	28.28	0.10	0.38	0.55	0.85
1200	7.21	7.94	8.66	10.06	11.41	12.97	14.59	16.37	18.37	19.35	20.50	22.73	24.35	25.90	28.31	0.11	0.40	0.57	0.89
1250	7.51	8.27	9.02	10.48	11.89	13.51	15.20	17.05	19.06	20.16	21.19	23.32	25.36	26.31	28.23	0.11	0.41	0.60	0.93
1300	7.63	8.40	9.17	10.65	12.07	13.72	15.41	17.25	19.23	20.29	21.29	23.35	25.37			0.11	0.43	0.62	0.96
1350	7.92	8.72	9.52	11.06	12.53	14.25	16.00	17.91	19.97	21.07	22.11	23.65	26.13			0.12	0.45	0.65	1.00
1400	8.22	9.05	9.88	11.47	13.00	14.78	16.53	18.58	20.71	21.14	22.49	24.03	26.14			0.12	0.46	0.67	1.04
1450	8.23	9.07	9.89	11.49	13.01	14.79	16.54	18.59	20.72	21.52	22.50	24.39	26.14			0.13	0.48	0.69	1.07
1500	8.51	9.38	10.23	11.89	13.46	15.27	17.11	19.08	21.18	22.26	23.28	25.23	26.15			0.13	0.50	0.72	1.11
1550	8.61	9.49	10.35	12.01	13.60	15.40	17.22	19.16	21.18	22.27	23.45	25.50				0.14	0.51	0.74	1.15
1600	8.89	9.80	10.68	12.40	14.04	15.90	17.78	19.78	21.86	22.93	23.90	25.71				0.14	0.53	0.77	1.19
1650	9.15	10.09	11.00	12.75	14.41	16.39	18.33	20.40	22.06	22.94	24.64	26.52				0.15	0.55	0.79	1.22
1700	9.16	10.09	11.00	12.76	14.42	16.40	18.34	20.60	22.07	23.05	24.65	25.37				0.15	0.56	0.81	1.26
1750	9.43	10.39	11.32	13.14	14.84	16.77	18.69	20.70	22.54	23.73	24.60	25.30				0.15	0.58	0.84	1.30
1800	9.50	10.47	11.41	13.22	14.92	16.83	18.71	20.71	22.55	23.74						0.16	0.60	0.86	1.33
1850	9.78	10.76	11.73	13.59	15.33	17.30	19.23	21.22	23.18	23.75						0.16	0.61	0.88	1.37
1900	9.98	11.05	11.98	13.85	15.61	17.55	19.75	21.80	23.19	23.76						0.17	0.63	0.91	1.41
1950	9.99	11.06	11.99	13.87	15.62	17.56	19.76	21.85	23.20	23.86						0.17	0.65	0.93	1.45
2000	10.25	11.28	12.30	14.23	16.02	17.96	19.94	21.87	23.67	24.47						0.18	0.66	0.96	1.48
2050	10.29	11.33	12.34	14.26	16.04	17.99	19.95	21.88	23.68							0.18	0.68	0.98	1.52
2100	10.54	11.61	12.64	14.61	16.43	18.43	20.34	22.01	23.87							0.18	0.70	1.00	1.56
2150	10.79	11.88	12.94	14.80	16.61	18.54	20.35	22.13	23.88							0.19	0.71	1.03	1.59
2200	10.80	11.89	12.95	14.81	16.62	18.56	20.36	22.15	23.90							0.19	0.73	1.05	1.63
2250	10.96	12.07	13.13	15.13	17.00	18.96	20.62	22.55	23.95							0.20	0.75	1.08	1.67
2300	10.98	12.09	13.15	15.14	17.10	18.99	20.63	22.56								0.20	0.76	1.10	1.70
2350	11.22	12.35	13.44	15.47	17.32	19.28	20.81	22.67								0.21	0.78	1.12	1.74
2400	11.46	12.62	13.72	15.80	17.69	19.29	20.82	22.68								0.21	0.80	1.15	1.78
2450	11.47	12.65	13.75	15.85	17.71	19.30	20.90	22.68								0.22	0.81	1.17	1.82
2500	11.58	12.74	13.85	15.90	17.75	19.65	21.33	22.70								0.22	0.83	1.20	1.85
2550	11.58	12.73	13.90	15.91	17.76	19.70	21.34									0.22	0.85	1.22	1.89
2600	11.81	12.98	14.09	16.15	18.01	19.83	21.41									0.23	0.86	1.24	1.93
2650	12.03	13.23	14.36	16.46	18.21	19.84	21.03									0.23	0.88	1.27	1.96
2700	12.04	13.24	14.38	16.47	18.24	19.85	21.02									0.24	0.90	1.29	2.00
2750	12.11	13.29	14.42	16.48	18.26	20.01	21.01									0.24	0.91	1.32	2.04
2800	12.12	13.30	14.47	16.49	18.32	20.06										0.25	0.93	1.34	2.08
2850	12.29	13.49	14.62	16.66	18.40	20.07										0.25	0.95	1.36	2.11
2900	12.30	13.72	14.87	16.69	18.42	20.42										0.26	0.96	1.39	2.15
2950	12.32	13.72	14.87	16.70	18.44	20.43										0.26	0.98	1.41	2.19
3000	12.40	13.73	14.88	16.87	18.45	20.05										0.26	0.99	1.43	2.22
3050	12.48	13.74	14.90	16.89	18.47											0.27	1.01	1.46	2.26
3100	12.56	13.87	14.91	16.97	18.48											0.27	1.03	1.48	2.30
3150	12.60	14.10	14.91	16.99	18.50											0.28	1.04	1.51	2.33
3200	12.66	14.11	14.92	17.02	18.32											0.28	1.06	1.53	2.37
3250	12.70	14.13	15.15	17.06	18.30											0.29	1.08	1.55	2.41
3300	12.75	14.14	15.16	17.07												0.29	1.09	1.58	2.45
3350	12.77	14.15	15.23	17.09												0.29	1.11	1.60	2.48
3400	12.79	14.20	15.25	17.34												0.30	1.13	1.63	2.52
3450	12.87	14.22	15.27	16.81												0.30	1.14	1.65	2.56
3500	12.90	14.23	15.29	16.78												0.31	1.16	1.67	2.59

Table 23: Section XPZ/3VX: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)															Additional Power (kW) per belt for speed ratio			
	56	60	63	71	80	85	90	95	100	112	125	140	160	180	200	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	0.63	0.73	0.80	0.99	1.21	1.33	1.45	1.57	1.69	1.97	2.27	2.61	3.07	3.51	3.94	0.01	0.06	0.08	0.10
950	0.77	0.91	1.00	1.25	1.53	1.69	1.84	2.00	2.15	2.52	2.90	3.34	3.93	4.50	5.05	0.01	0.08	0.11	0.13
1450	1.08	1.27	1.41	1.78	2.19	2.42	2.64	2.87	3.10	3.62	4.19	4.82	5.65	6.46	7.24	0.02	0.12	0.16	0.20
2850	1.76	2.10	2.36	3.04	3.78	4.18	4.59	4.98	5.37	6.29	7.24	8.31	9.65	10.90	12.06	0.04	0.23	0.32	0.40
100	0.13	0.14	0.16	0.19	0.23	0.25	0.27	0.29	0.31	0.36	0.41	0.47	0.55	0.63	0.70	0.00	0.01	0.01	0.01
200	0.22	0.24	0.28	0.33	0.41	0.45	0.48	0.52	0.56	0.65	0.74	0.85	1.00	1.14	1.27	0.00	0.02	0.02	0.03
300	0.30	0.33	0.38	0.46	0.57	0.62	0.67	0.72	0.78	0.91	1.04	1.20	1.40	1.61	1.79	0.00	0.02	0.03	0.04
400	0.38	0.41	0.48	0.58	0.71	0.78	0.85	0.91	0.98	1.15	1.32	1.52	1.79	2.05	2.28	0.00	0.03	0.05	0.06
500	0.44	0.48	0.56	0.68	0.85	0.93	1.01	1.09	1.17	1.38	1.58	1.82	2.15	2.47	2.74	0.01	0.04	0.06	0.07
600	0.56	0.65	0.71	0.88	1.07	1.18	1.28	1.39	1.49	1.74	2.00	2.30	2.70	3.09	3.47	0.01	0.05	0.07	0.08
700	0.63	0.73	0.80	0.99	1.21	1.33	1.45	1.57	1.69	1.97	2.27	2.61	3.07	3.51	3.94	0.01	0.06	0.08	0.10
800	0.69	0.80	0.88	1.10	1.34	1.48	1.61	1.75	1.88	2.20	2.53	2.91	3.42	3.92	4.40	0.01	0.06	0.09	0.11
900	0.74	0.87	0.96	1.20	1.47	1.62	1.76	1.92	2.06	2.41	2.78	3.20	3.76	4.31	4.83	0.01	0.07	0.10	0.13
950	0.77	0.91	1.00	1.25	1.53	1.69	1.84	2.00	2.15	2.52	2.90	3.34	3.93	4.50	5.05	0.01	0.08	0.11	0.13
1000	0.80	0.94	1.03	1.30	1.59	1.76	1.92	2.09	2.24	2.63	3.02	3.48	4.10	4.69	5.26	0.01	0.08	0.11	0.14
1100	0.90	1.05	1.16	1.45	1.78	1.96	2.14	2.32	2.50	2.92	3.37	3.88	4.55	5.21	5.85	0.01	0.09	0.12	0.15
1200	0.95	1.12	1.23	1.55	1.90	2.10	2.29	2.48	2.68	3.13	3.61	4.16	4.88	5.58	6.26	0.01	0.10	0.14	0.17
1300	1.01	1.18	1.31	1.64	2.02	2.23	2.43	2.64	2.85	3.33	3.85	4.43	5.19	5.94	6.66	0.02	0.10	0.15	0.18
1400	1.06	1.24	1.38	1.73	2.14	2.36	2.58	2.80	3.02	3.53	4.07	4.69	5.50	6.29	7.05	0.02	0.11	0.16	0.19
1450	1.08	1.27	1.41	1.78	2.19	2.42	2.64	2.87	3.10	3.62	4.19	4.82	5.65	6.46	7.24	0.02	0.12	0.16	0.20
1500	1.10	1.30	1.44	1.82	2.25	2.48	2.71	2.95	3.18	3.72	4.30	4.95	5.80	6.63	7.43	0.02	0.12	0.17	0.21
1600	1.19	1.40	1.55	1.96	2.42	2.67	2.92	3.17	3.42	4.00	4.62	5.32	6.23	7.12	7.98	0.02	0.13	0.18	0.22
1700	1.24	1.46	1.62	2.05	2.53	2.79	3.06	3.32	3.58	4.19	4.84	5.57	6.52	7.45	8.34	0.02	0.14	0.19	0.24
1800	1.28	1.51	1.68	2.13	2.64	2.91	3.19	3.46	3.74	4.37	5.05	5.82	6.80	7.76	8.69	0.02	0.14	0.20	0.25
1900	1.33	1.57	1.74	2.21	2.74	3.03	3.32	3.60	3.89	4.55	5.26	6.05	7.08	8.07	9.02	0.02	0.15	0.22	0.26
2000	1.37	1.62	1.80	2.29	2.85	3.14	3.44	3.74	4.04	4.73	5.46	6.28	7.34	8.37	9.34	0.02	0.16	0.23	0.28
2100	1.44	1.71	1.91	2.43	3.01	3.33	3.64	3.95	4.26	4.99	5.76	6.63	7.75	8.83	9.87	0.03	0.17	0.24	0.29
2200	1.48	1.76	1.97	2.51	3.11	3.44	3.76	4.09	4.41	5.16	5.96	6.85	8.01	9.11	10.17	0.03	0.18	0.25	0.31
2300	1.52	1.81	2.03	2.59	3.21	3.55	3.89	4.22	4.55	5.33	6.15	7.07	8.25	9.38	10.46	0.03	0.18	0.26	0.32
2400	1.56	1.86	2.08	2.66	3.31	3.66	4.00	4.35	4.69	5.49	6.34	7.28	8.49	9.64	10.74	0.03	0.19	0.27	0.33
2500	1.59	1.90	2.14	2.73	3.40	3.77	4.12	4.47	4.83	5.65	6.52	7.49	8.72	9.89	10.99	0.03	0.20	0.28	0.35
2600	1.67	1.99	2.23	2.86	3.55	3.93	4.31	4.68	5.04	5.91	6.81	7.83	9.12	10.34	11.49	0.03	0.21	0.30	0.36
2700	1.71	2.04	2.28	2.93	3.64	4.03	4.42	4.80	5.17	6.07	6.99	8.03	9.34	10.57	11.73	0.03	0.22	0.31	0.38
2800	1.74	2.08	2.33	3.00	3.73	4.13	4.53	4.92	5.30	6.22	7.16	8.22	9.55	10.79	11.95	0.03	0.22	0.32	0.39
2850	1.76	2.10	2.36	3.04	3.78	4.18	4.59	4.98	5.37	6.29	7.24	8.31	9.65	10.90	12.06	0.04	0.23	0.32	0.40
2900	1.77	2.12	2.38	3.07	3.82	4.23	4.64	5.04	5.43	6.36	7.32	8.40	9.75	11.00	12.16	0.04	0.23	0.33	0.40
3000	1.80	2.16	2.43	3.14	3.90	4.33	4.75	5.16	5.55	6.51	7.48	8.58	9.94	11.20	12.35	0.04	0.24	0.34	0.42
3100	1.88	2.25	2.53	3.25	4.05	4.49	4.92	5.34	5.76	6.74	7.77	8.90	10.32	11.63	12.82	0.04	0.25	0.35	0.43
3200	1.91	2.29	2.58	3.31	4.13	4.58	5.02	5.45	5.88	6.88	7.92	9.07	10.50	11.81	12.99	0.04	0.26	0.36	0.45
3300	1.94	2.33	2.62	3.38	4.21	4.67	5.12	5.56	6.00	7.01	8.07	9.23	10.67	11.97	13.13	0.04	0.26	0.37	0.46
3400	1.97	2.37	2.67	3.44	4.29	4.76	5.22	5.66	6.11	7.14	8.22	9.38	10.83	12.12	13.26	0.04	0.27	0.39	0.47
3500	2.00	2.40	2.71	3.50	4.37	4.85	5.31	5.77	6.22	7.27	8.35	9.53	10.98	12.26	13.38	0.04	0.28	0.40	0.49
3600	2.06	2.48	2.80	3.62	4.52	5.01	5.49	5.96	6.42	7.51	8.62	9.84	11.34	12.67	13.84	0.04	0.29	0.41	0.50
3700	2.09	2.52	2.84	3.68	4.60	5.09	5.58	6.06	6.53	7.63	8.75	9.98	11.47	12.79	13.92	0.05	0.30	0.42	0.52
3800	2.11	2.55	2.88	3.73	4.67	5.17	5.67	6.15	6.63	7.75	8.88	10.11	11.60	12.89	13.99	0.05	0.30	0.43	0.53
3900	2.14	2.58	2.92	3.79	4.74	5.25	5.76	6.25	6.73	7.86	8.99	10.23	11.71	12.98	14.03	0.09	0.31	0.44	0.54
4000	2.16	2.61	2.96	3.84	4.81	5.33	5.84	6.34	6.82	7.96	9.11	10.34	11.81	13.05	14.40	0.05	0.32	0.45	0.56
4100	2.23	2.70	3.04	3.95	4.94	5.48	6.00	6.52	7.02	8.19	9.38	10.55	12.16	13.45	14.50	0.05	0.33	0.47	0.57
4200	2.25	2.73	3.08	4.00	5.01	5.55	6.08	6.61	7.11	8.29	9.49	10.65	12.25	13.50	14.59	0.05	0.34	0.48	0.58
4300	2.27	2.76	3.11	4.05	5.07	5.62	6.16	6.69	7.20	8.39	9.58	10.74	12.32	13.53	14.66	0.05	0.34	0.49	0.60
4400	2.29	2.79	3.15	4.10	5.13	5.69	6.23	6.77	7.28	8.48	9.68	10.83	12.38	13.55	14.71	0.05	0.35	0.50	0.61
4500	2.31	2.82	3.18	4.14	5.19	5.76	6.30	6.84	7.36	8.56	9.76	10.90	12.43	13.87	14.75	0.06	0.36	0.51	0.63
4600	2.37	2.89	3.26	4.25	5.33	5.90	6.47	7.02	7.55	8.78	10.02	11.30	12.77	13.94		0.06	0.37	0.52	0.64
4700	2.39	2.92	3.29	4.29	5.39	5.96	6.54	7.09	7.63	8.86	10.10	11.37	12.80	13.98		0.06	0.38	0.53	0.65
4800	2.41	2.94	3.32	4.34	5.44	6.02	6.60	7.16	7.70	8.93	10.17	11.42	12.82	14.05		0.06	0.38	0.54	0.67
4900	2.42	2.96	3.35	4.38	5.49	6.08	6.67	7.23	7.77	9.00	10.23	11.47	12.83	14.08		0.06	0.39	0.56	0.68
5000	2.44	2.99	3.38	4.42	5.55	6.14	6.73	7.29	7.83	9.07	10.29	11.51	12.89	14.10		0.06	0.40	0.57	0.70
5100	2.50	3.05	3.46	4.53	5.67	6.28	6.88	7.46	8.02	9.29	10.54	11.80	13.16			0.06	0.41	0.58	0.71
5200	2.51	3.07	3.49	4.57	5.72	6.33	6.94	7.52	8.08	9.35	10.59	11.83	13.20			0.06	0.42	0.59	0.72
5300	2.53	3.09	3.51	4.60	5.76	6.38	6.99	7.57	8.14	9.40	10.63	11.84	13.24			0.07	0.42	0.60	0.74
5400	2.54	3.11	3.53	4.64	5.81	6.43	7.04	7.62	8.19	9.45	10.66	11.85	13.27			0.07	0.43	0.61	0.75
5500	2.55	3.13	3.55	4.67	5.85	6.47	7.08	7.67	8.23	9.49	10.69	11.85	13.28			0.07	0.44	0.62	0.77
5600	2.61	3.20	3.64	4.77	5.98	6.62	7.24	7.84	8.42	9.70	10.93	12.12				0.07	0.45	0.64	0.78
5800	2.63	3.23	3.68	4.83	6.05	6.70	7.32	7.92	8.50	9.76	10.96	12.20				0.07	0.46	0.66	0.81
6000	2.68	3.30	3.76	4.94	6.19	6.85	7.49	8.10	8.68	9.96	11.15	12.25				0.07	0.48	0.68	0.84
6200	2.69	3.32	3.79	4.99	6.25	6.91	7.55	8.16	8.73	9.98	11.20	12.26				0.08	0.50	0.70	0.86
6400	2.70	3.34	3.81	5.03	6.29	6.96	7.60	8.20	8.76	9.98	11.25	12.25				0.08	0.51	0.73	0.89
6600	2.76	3.43	3.91	5.15	6.45	7.13	7.78	8.40	8.98	10.00	11.30					0.08	0.53	0.75	0.92
6800	2.76	3.44	3.93	5.18	6.48	7.16	7.80	8.42	8.98	10.05	11.31					0.08	0.54	0.77	0.95
7000	2.76	3.44	3.94	5.20	6.50	7.18	7.82	8.42	9.00	10.12	11.29					0.09	0.56	0.79	0.97
7200	2.82	3.52	4.02	5.31	6.65	7.34	7.99	8.59	9.05	10.31						0.09	0.58	0.82	1.00
7400	2.83	3.52	4.02	5.32	6.65	7.34	8.00	8.62	9.10	10.31						0.09	0.59	0.84	1.03
7600	2.84	3.55	4.02	5.32	6.65	7.40	8.10	8.64	9.16	10.28						0.09	0.61	0.86	1.06
7800	2.85	3.57	4.10	5.43	6.78	7.47	8.10	8.68	9.21	10.23						0.10	0.62	0.89	1.09
8000	2.85	3.58	4.12	5.45	6.81	7.49	8.12	8.61	9.19	10.17						0.10	0.64	0.91	1.11
8200	2.85	3.59	4.13	5.47	6.83	7.50	8.12	8.52	8.17							0.10	0.66	0.93	1.14
8400	2.85	3.60	4.14	5.49	6.84	7.50	8.11	8.41	8.11							0.10	0.67	0.95	1.17

Table 24: Section XPA: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)								Additional Power (kW) per belt for speed ratio			
	71	75	80	90	100	112	118	125	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	0.96	1.13	1.33	1.75	2.15	2.63	2.87	3.16	0.02	0.13	0.19	0.23
950	1.20	1.41	1.69	2.23	2.76	3.40	3.72	4.09	0.03	0.18	0.26	0.31
1450	1.71	2.03	2.44	3.23	4.03	4.97	5.43	5.98	0.04	0.27	0.39	0.48
2850	2.85	3.45	4.19	5.66	7.10	8.79	9.62	10.58	0.08	0.54	0.77	0.94
100	0.19	0.21	0.25	0.31	0.38	0.46	0.49	0.54	0.00	0.02	0.03	0.03
200	0.33	0.37	0.44	0.56	0.69	0.84	0.90	0.99	0.01	0.04	0.05	0.07
300	0.45	0.51	0.62	0.78	0.97	1.19	1.27	1.41	0.01	0.06	0.08	0.10
400	0.56	0.63	0.78	0.99	1.24	1.52	1.63	1.81	0.01	0.08	0.11	0.13
500	0.66	0.74	0.92	1.18	1.49	1.84	1.97	2.19	0.01	0.09	0.13	0.16
600	0.86	1.00	1.18	1.54	1.89	2.31	2.52	2.77	0.02	0.11	0.16	0.20
700	0.96	1.13	1.33	1.75	2.15	2.63	2.87	3.16	0.02	0.13	0.19	0.23
800	1.06	1.24	1.48	1.95	2.40	2.94	3.22	3.54	0.02	0.15	0.22	0.26
900	1.16	1.36	1.62	2.14	2.64	3.25	3.55	3.91	0.03	0.17	0.24	0.30
950	1.20	1.41	1.69	2.23	2.76	3.40	3.72	4.09	0.03	0.18	0.26	0.31
1000	1.25	1.47	1.75	2.33	2.88	3.55	3.88	4.27	0.03	0.19	0.27	0.33
1100	1.41	1.66	1.98	2.60	3.23	3.97	4.33	4.76	0.03	0.21	0.30	0.36
1200	1.50	1.77	2.12	2.79	3.47	4.27	4.65	5.12	0.04	0.23	0.32	0.40
1300	1.58	1.88	2.25	2.97	3.70	4.55	4.97	5.47	0.04	0.25	0.35	0.43
1400	1.67	1.98	2.37	3.14	3.92	4.84	5.28	5.81	0.04	0.27	0.38	0.46
1450	1.71	2.03	2.44	3.23	4.03	4.97	5.43	5.98	0.04	0.27	0.39	0.48
1500	1.75	2.08	2.50	3.31	4.14	5.11	5.58	6.14	0.04	0.28	0.40	0.49
1600	1.88	2.25	2.69	3.58	4.46	5.50	6.01	6.61	0.05	0.30	0.43	0.53
1700	1.97	2.35	2.81	3.75	4.68	5.77	6.31	6.94	0.05	0.32	0.46	0.56
1800	2.04	2.44	2.93	3.92	4.89	6.04	6.60	7.26	0.05	0.34	0.48	0.59
1900	2.12	2.53	3.04	4.08	5.10	6.30	6.89	7.58	0.06	0.36	0.51	0.63
2000	2.18	2.62	3.16	4.24	5.30	6.55	7.16	7.88	0.06	0.38	0.54	0.66
2100	2.32	2.78	3.35	4.48	5.60	6.92	7.57	8.33	0.06	0.40	0.56	0.69
2200	2.39	2.87	3.46	4.64	5.80	7.17	7.84	8.63	0.06	0.42	0.59	0.73
2300	2.45	2.95	3.57	4.79	5.99	7.41	8.11	8.92	0.07	0.44	0.62	0.76
2400	2.52	3.03	3.67	4.93	6.18	7.65	8.37	9.21	0.07	0.45	0.65	0.79
2500	2.58	3.11	3.77	5.08	6.37	7.88	8.62	9.48	0.07	0.47	0.67	0.82
2600	2.71	3.26	3.96	5.32	6.66	8.24	9.02	9.92	0.08	0.49	0.70	0.86
2700	2.77	3.34	4.05	5.46	6.84	8.46	9.27	10.19	0.08	0.51	0.73	0.89
2800	2.83	3.41	4.14	5.60	7.02	8.68	9.50	10.45	0.08	0.53	0.75	0.92
2850	2.85	3.45	4.19	5.66	7.10	8.79	9.62	10.58	0.08	0.54	0.77	0.94
2900	2.88	3.48	4.24	5.73	7.19	8.89	9.73	10.70	0.08	0.55	0.78	0.96
3000	2.93	3.55	4.32	5.86	7.35	9.10	9.96	10.95	0.09	0.57	0.81	0.99
3100	3.05	3.70	4.50	6.09	7.64	9.45	10.34	11.36	0.09	0.59	0.83	1.02
3200	3.10	3.77	4.59	6.22	7.80	9.65	10.56	11.59	0.09	0.61	0.86	1.05
3300	3.15	3.83	4.67	6.34	7.96	9.84	10.76	11.90	0.10	0.63	0.89	1.09
3400	3.19	3.89	4.75	6.45	8.11	10.02	10.96	12.12	0.10	0.64	0.91	1.12
3500	3.23	3.95	4.83	6.57	8.25	10.20	11.16	12.33	0.10	0.66	0.94	1.15
3600	3.35	4.09	5.00	6.79	8.53	10.55	11.53	12.66	0.11	0.68	0.97	1.19
3700	3.39	4.15	5.07	6.90	8.67	10.72	11.71	12.86	0.11	0.70	0.99	1.22
3800	3.43	4.20	5.14	7.00	8.80	10.88	11.97	13.13	0.11	0.72	1.02	1.25
3900	3.46	4.25	5.21	7.10	8.93	11.04	12.14	13.31	0.11	0.74	1.05	1.29
4000	3.50	4.30	5.28	7.20	9.05	11.19	12.30	13.48	0.12	0.76	1.08	1.32
4100	3.62	4.43	5.44	7.41	9.32	11.52	12.58	13.78	0.12	0.78	1.10	1.35
4200	3.65	4.47	5.50	7.50	9.44	11.66	12.73	13.93	0.12	0.80	1.13	1.38
4300	3.68	4.52	5.56	7.64	9.61	11.87	12.95	14.18	0.13	0.81	1.16	1.42
4400	3.70	4.55	5.61	7.72	9.72	12.00	13.08	14.32	0.13	0.83	1.18	1.45
4500	3.73	4.59	5.66	7.80	9.82	12.11	13.20	14.44	0.13	0.85	1.21	1.48
4600	3.83	4.73	5.82	7.96	10.01	12.35	13.47	14.72	0.13	0.87	1.24	1.52
4700	3.85	4.76	5.87	8.03	10.10	12.45	13.58	14.83	0.14	0.89	1.26	1.55
4800	3.87	4.79	5.91	8.16	10.26	12.64	13.78	15.05	0.14	0.91	1.29	1.58
4900	3.88	4.82	5.95	8.22	10.34	12.73	13.87	15.14	0.14	0.93	1.32	1.62
5000	3.89	4.84	5.99	8.28	10.41	12.81	13.95	15.21	0.15	0.95	1.34	1.65
5100	4.00	4.97	6.15	8.43	10.60	13.04	14.19	15.47	0.15	0.97	1.37	1.68
5200	4.01	4.99	6.18	8.48	10.66	13.11	14.25	15.53	0.15	0.98	1.40	1.71
5300	4.04	5.01	6.21	8.59	10.80	13.27	14.42	15.70	0.16	1.00	1.42	1.75
5400	4.06	5.02	6.24	8.63	10.85	13.32	14.47	15.74	0.16	1.02	1.45	1.78
5500	4.09	5.03	6.26	8.67	10.90	13.36	14.50	15.76	0.16	1.04	1.48	1.81
5600	4.13	5.15	6.41	8.81	11.06	13.56	14.72	15.99	0.16	1.06	1.51	1.85
5700	4.13	5.16	6.43	8.84	11.09	13.59	14.74	15.99	0.17	1.08	1.53	1.88
5800	4.14	5.16	6.44	8.93	11.22	13.73	14.88	16.14	0.17	1.10	1.56	1.91
5900	4.15	5.16	6.45	8.95	11.24	13.74	14.88	16.15	0.17	1.12	1.59	1.94
6000	4.16	5.16	6.45	8.97	11.26	13.74	14.90	16.20	0.18	1.14	1.61	1.98
6100	4.18	5.28	6.59	9.09	11.41	13.90	15.06	16.23	0.18	1.16	1.64	2.01
6200	4.19	5.28	6.59	9.10	11.41	13.90	15.10	16.23	0.18	1.17	1.67	2.04
6300	4.20	5.28	6.60	9.18	11.51	13.96	15.14	16.25	0.18	1.19	1.69	2.08
6400	4.20	5.30	6.62	9.18	11.55	13.98	15.16	16.26	0.19	1.21	1.72	2.11
6500	4.21	5.32	6.64	9.26	11.58	13.98	15.18	16.30	0.19	1.23	1.75	2.14
6600	4.22	5.33	6.69	9.28	11.60	14.09	15.19	16.33	0.19	1.25	1.77	2.18
6700	4.22	5.34	6.69	9.30	11.62	14.11	15.19	16.29	0.20	1.27	1.80	2.21
6800	4.22	5.36	6.74	9.32	11.66	14.11	15.17	16.28	0.20	1.29	1.83	2.24
6900	4.21	5.36	6.75	9.34	11.67	14.08	15.15	16.20	0.20	1.31	1.86	2.27
7000	4.20	5.36	6.75	9.35	11.68	14.06	15.12	16.18	0.21	1.33	1.89	2.31

Table 24:
Section XPA: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)							Additional Power (kW) per belt for speed ratio			
	140	160	180	200	224	250	280	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	3.76	4.54	5.32	6.13	7.05	8.04	9.17	0.02	0.13	0.19	0.23
950	4.88	5.98	7.00	7.97	9.16	10.44	12.02	0.03	0.18	0.26	0.31
1450	7.13	8.71	10.19	11.66	13.37	15.16	17.17	0.04	0.27	0.39	0.48
2850	12.56	15.20	17.61	19.88	22.37	24.78	27.13	0.08	0.54	0.77	0.94
100	0.84	0.76	0.89	1.02	1.17	1.33	1.51	0.00	0.02	0.03	0.03
200	1.18	1.41	1.65	1.90	2.18	2.48	2.82	0.01	0.04	0.05	0.07
300	1.69	2.01	2.46	2.72	3.13	3.57	4.05	0.01	0.06	0.08	0.10
400	2.16	2.59	3.17	3.67	4.22	4.82	5.49	0.01	0.08	0.11	0.13
500	2.62	3.14	3.86	4.47	5.14	5.87	6.69	0.01	0.09	0.13	0.16
600	3.29	3.97	4.65	5.24	6.03	6.89	7.84	0.02	0.11	0.16	0.20
700	3.76	4.54	5.32	6.13	7.05	8.04	9.17	0.02	0.13	0.19	0.23
800	4.21	5.16	6.04	6.88	7.91	9.02	10.28	0.02	0.15	0.22	0.26
900	4.66	5.71	6.68	7.61	8.75	9.97	11.49	0.03	0.17	0.24	0.30
950	4.88	5.98	7.00	7.97	9.16	10.44	12.02	0.03	0.18	0.26	0.31
1000	5.09	6.24	7.31	8.46	9.73	11.08	12.61	0.03	0.19	0.27	0.33
1100	5.67	6.86	8.04	9.17	10.54	11.99	13.63	0.03	0.21	0.30	0.36
1200	6.10	7.36	8.65	9.86	11.32	12.88	14.62	0.04	0.23	0.32	0.40
1300	6.52	7.96	9.32	10.67	12.25	13.92	15.80	0.04	0.25	0.35	0.43
1400	6.93	8.46	9.90	11.33	13.00	14.76	16.72	0.04	0.27	0.38	0.46
1450	7.13	8.71	10.19	11.66	13.37	15.16	17.17	0.04	0.27	0.39	0.48
1500	7.33	8.96	10.47	11.98	13.73	15.56	17.61	0.04	0.28	0.40	0.49
1600	7.88	9.54	11.16	12.75	14.61	16.56	18.73	0.05	0.30	0.43	0.53
1700	8.27	10.01	11.71	13.38	15.30	17.31	19.54	0.05	0.32	0.46	0.56
1800	8.66	10.55	12.33	13.96	15.96	18.03	20.30	0.05	0.34	0.48	0.59
1900	9.03	11.00	12.85	14.71	16.81	18.98	21.35	0.06	0.36	0.51	0.63
2000	9.40	11.44	13.35	15.27	17.43	19.64	22.03	0.06	0.38	0.54	0.66
2100	9.92	11.99	14.00	15.81	18.01	20.25	22.66	0.06	0.40	0.56	0.69
2200	10.28	12.41	14.48	16.53	18.81	21.15	23.64	0.06	0.42	0.59	0.73
2300	10.62	12.91	15.05	17.03	19.35	21.70	24.17	0.07	0.44	0.62	0.76
2400	10.96	13.31	15.50	17.51	19.85	22.21	24.65	0.07	0.45	0.65	0.79
2500	11.28	13.69	15.92	18.19	20.62	23.04	25.55	0.07	0.47	0.67	0.82
2600	11.80	14.22	16.52	18.63	21.07	23.47	25.92	0.08	0.49	0.70	0.86
2700	12.11	14.58	16.92	19.04	21.48	23.85	26.22	0.08	0.51	0.73	0.89
2800	12.42	15.03	17.43	19.69	22.19	24.62	27.03	0.08	0.53	0.75	0.92
2850	12.56	15.20	17.61	19.88	22.37	24.78	27.13	0.08	0.54	0.77	0.94
2900	12.71	15.37	17.79	20.06	22.54	24.92	27.22	0.08	0.55	0.78	0.95
3000	12.99	15.69	18.13	20.40	22.86	25.17	27.33	0.09	0.57	0.81	0.99
3100	13.49	16.18	18.69	21.01	23.52	25.87		0.09	0.59	0.83	1.02
3200	13.76	16.48	19.00	21.30	23.77	26.03		0.09	0.61	0.86	1.05
3300	14.11	16.88	19.44	21.57	23.97	26.13		0.10	0.63	0.89	1.09
3400	14.36	17.15	19.71	22.14	24.58	26.75		0.10	0.64	0.91	1.12
3500	14.59	17.40	19.95	22.35	24.71	26.75		0.10	0.66	0.94	1.15
3600	14.97	17.84	20.45	22.53	24.80			0.11	0.68	0.97	1.19
3700	15.19	18.06	20.65	23.05	25.80			0.11	0.70	0.99	1.22
3800	15.50	18.42	21.03	23.17	25.81			0.11	0.72	1.02	1.25
3900	15.69	18.61	21.19	23.26	25.82			0.11	0.74	1.05	1.29
4000	15.87	18.78	21.31	23.74	25.82			0.12	0.76	1.08	1.32
4100	16.23	19.18	21.76	23.77				0.12	0.78	1.10	1.35
4200	16.39	19.32	21.84	23.90				0.12	0.80	1.13	1.38
4300	16.66	19.62	22.15	24.19				0.13	0.81	1.16	1.42
4400	16.79	19.72	22.18	24.12				0.13	0.83	1.18	1.45
4500	16.91	19.80	22.19	24.00				0.13	0.85	1.21	1.48
4600	17.23	20.16	22.56					0.13	0.87	1.24	1.52
4700	17.32	20.20	22.60					0.14	0.89	1.26	1.55
4800	17.56	20.44	22.73					0.14	0.91	1.29	1.58
4900	17.63	20.44	22.63					0.14	0.93	1.32	1.62
5000	17.88	20.60	22.49					0.15	0.95	1.34	1.65
5100	17.97	20.70						0.15	0.97	1.37	1.68
5200	17.99	20.80						0.15	0.98	1.40	1.71
5300	18.18	20.85						0.16	1.00	1.42	1.75
5400	18.18	20.85						0.16	1.02	1.45	1.78
5500	18.22	20.82						0.16	1.04	1.48	1.81
5600	18.30							0.16	1.06	1.51	1.85
5700	18.35							0.17	1.08	1.53	1.88
5800	18.49							0.17	1.10	1.56	1.91
5900	18.50							0.17	1.12	1.59	1.94
6000	18.40							0.18	1.14	1.61	1.98
6100	18.35							0.18	1.16	1.64	2.01
6200	18.32							0.18	1.17	1.67	2.04
6300	18.31							0.18	1.19	1.69	2.08
6400	18.30							0.19	1.21	1.72	2.11
6500	18.25							0.19	1.23	1.75	2.14

Table 25:
Section XPB/5VX: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)								Additional Power (kW) per belt for speed ratio			
	112	118	125	132	140	150	160	180	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	2.87	3.26	3.71	4.16	4.66	5.32	5.96	7.24	0.04	0.29	0.41	0.50
950	3.75	4.27	4.87	5.47	6.16	7.01	7.86	9.56	0.06	0.39	0.55	0.68
1450	5.51	6.28	7.17	8.07	9.09	10.36	11.61	14.11	0.09	0.59	0.84	1.03
2850	9.73	11.14	12.76	14.37	16.18	18.39	20.57	24.77	0.18	1.17	1.65	2.03
100	0.48	0.54	0.61	0.67	0.75	0.85	0.95	1.14	0.01	0.04	0.06	0.07
200	0.90	1.01	1.15	1.27	1.42	1.62	1.81	2.18	0.01	0.08	0.12	0.14
300	1.29	1.46	1.66	1.84	2.06	2.35	2.64	3.18	0.02	0.12	0.17	0.21
400	1.72	1.95	2.21	2.47	2.78	3.15	3.53	4.27	0.03	0.16	0.23	0.28
500	2.10	2.38	2.70	3.03	3.41	3.87	4.34	5.25	0.03	0.20	0.29	0.36
600	2.47	2.81	3.19	3.57	4.03	4.57	5.13	6.21	0.04	0.25	0.35	0.43
700	2.87	3.26	3.71	4.16	4.68	5.32	5.96	7.24	0.04	0.29	0.41	0.50
800	3.23	3.67	4.18	4.69	5.28	6.01	6.73	8.18	0.05	0.33	0.46	0.57
900	3.58	4.07	4.64	5.21	5.87	6.68	7.49	9.10	0.06	0.37	0.52	0.64
950	3.75	4.27	4.87	5.47	6.16	7.01	7.86	9.56	0.06	0.39	0.55	0.68
1000	3.97	4.51	5.15	5.78	6.51	7.41	8.30	10.09	0.06	0.41	0.58	0.71
1100	4.31	4.90	5.60	6.29	7.09	8.07	9.04	10.99	0.07	0.45	0.64	0.78
1200	4.65	5.29	6.04	6.79	7.65	8.71	9.76	11.87	0.08	0.49	0.70	0.85
1300	5.02	5.72	6.53	7.34	8.27	9.42	10.56	12.83	0.08	0.53	0.75	0.93
1400	5.35	6.10	6.96	7.83	8.82	10.05	11.27	13.68	0.09	0.57	0.81	1.00
1450	5.51	6.28	7.17	8.07	9.09	10.36	11.61	14.11	0.09	0.59	0.84	1.03
1500	5.67	6.46	7.38	8.31	9.36	10.67	11.96	14.52	0.09	0.61	0.87	1.07
1600	6.02	6.87	7.86	8.84	9.96	11.35	12.73	15.45	0.10	0.65	0.93	1.14
1700	6.33	7.23	8.27	9.30	10.48	11.95	13.40	16.26	0.11	0.70	0.99	1.21
1800	6.63	7.58	8.67	9.76	11.00	12.53	14.05	17.04	0.11	0.74	1.05	1.28
1900	6.99	7.98	9.14	10.28	11.58	13.20	14.79	17.94	0.12	0.78	1.10	1.35
2000	7.28	8.32	9.53	10.72	12.08	13.76	15.42	18.69	0.13	0.82	1.16	1.42
2100	7.57	8.65	9.91	11.15	12.56	14.31	16.03	19.42	0.13	0.86	1.22	1.50
2200	7.91	9.04	10.35	11.66	13.13	14.96	16.76	20.29	0.14	0.90	1.28	1.57
2300	8.19	9.36	10.72	12.07	13.60	15.49	17.35	20.98	0.15	0.94	1.34	1.64
2400	8.45	9.67	11.07	12.48	14.05	16.00	17.91	21.65	0.15	0.98	1.39	1.71
2500	8.78	10.05	11.51	12.96	14.60	16.62	18.61	22.48	0.16	1.02	1.45	1.78
2600	9.04	10.35	11.85	13.34	15.03	17.11	19.15	23.10	0.16	1.06	1.51	1.85
2700	9.29	10.64	12.18	13.72	15.45	17.58	19.66	23.70	0.17	1.10	1.57	1.92
2800	9.61	11.00	12.60	14.19	15.98	18.17	20.33	24.49	0.18	1.15	1.63	1.99
2850	9.73	11.14	12.76	14.37	16.18	18.39	20.57	24.77	0.18	1.17	1.65	2.03
2900	9.85	11.27	12.91	14.54	16.37	18.61	20.81	25.04	0.18	1.19	1.68	2.06
3000	10.08	11.54	13.22	14.88	16.75	19.03	21.27	25.56	0.19	1.23	1.74	2.14
3100	10.38	11.89	13.62	15.33	17.26	19.61	21.91	26.32	0.20	1.27	1.80	2.21
3200	10.60	12.14	13.91	15.65	17.61	20.00	22.33	26.79	0.20	1.31	1.86	2.28
3300	10.80	12.38	14.18	15.95	17.95	20.38	22.74	27.22	0.21	1.35	1.92	2.35
3400	11.09	12.71	14.57	16.39	18.44	20.93	23.35	27.93	0.22	1.39	1.97	2.42
3500	11.28	12.93	14.82	16.67	18.75	21.27	23.71	28.31	0.22	1.43	2.03	2.49
3600	11.46	13.14	15.07	16.94	19.05	21.59	24.05	28.65	0.23	1.47	2.09	2.56
3700	11.75	13.47	15.43	17.36	19.51	22.12	24.62	29.32	0.23	1.51	2.15	2.63
3800	11.92	13.66	15.65	17.60	19.78	22.40	24.91	29.60	0.24	1.55	2.21	2.71
3900	12.07	13.85	15.86	17.83	20.02	22.67	25.18	29.85	0.25	1.60	2.26	2.78
4000	12.34	14.15	16.21	18.23	20.46	23.16	25.73	30.47	0.25	1.64	2.32	2.85
4100	12.48	14.31	16.39	18.43	20.68	23.38	25.95	30.65	0.26	1.68	2.38	2.92
4200	12.61	14.46	16.56	18.62	20.87	23.58	26.14	30.79	0.27	1.72	2.44	2.99
4300	12.87	14.75	16.90	18.99	21.29	24.04	26.64	31.37	0.27	1.76	2.50	3.06
4400	12.98	14.88	17.05	19.15	21.45	24.20	26.78	31.44	0.28	1.80	2.56	3.13
4500	13.08	15.00	17.18	19.29	21.59	24.33	26.89	31.47	0.28	1.84	2.61	3.20
4600	13.32	15.28	17.49	19.63	21.96	24.76	27.36	31.67	0.29	1.88	2.67	3.28
4700	13.40	15.38	17.60	19.74	22.09	24.86	27.42	31.77	0.30	1.92	2.73	3.35
4800	13.47	15.46	17.68	19.83	22.17	24.91	27.45	31.84	0.30	1.96	2.79	3.42
4900	13.70	15.71	17.96	20.16	22.53	25.31	27.80	32.30	0.31	2.00	2.85	3.49
5000	13.75	15.77	18.04	20.22	22.58	25.33	27.85	32.13	0.32	2.05	2.90	3.56
5100	13.79	15.81	18.09	20.26	22.60	25.46	27.90		0.32	2.09	2.96	3.63
5200	14.00	16.06	18.36	20.56	22.93	25.53	28.17		0.33	2.13	3.02	3.70
5300	14.02	16.08	18.38	20.57	23.03	25.62	28.20		0.34	2.17	3.08	3.77
5400	14.02	16.09	18.38	20.70	23.11	25.72	28.23		0.34	2.21	3.14	3.84
5500	14.10	16.30	18.63	20.83	23.17	25.85	28.22		0.35	2.25	3.19	3.92
5600	14.20	16.35	18.65	20.88	23.22				0.35	2.29	3.25	3.99
5700	14.22	16.40	18.70	20.93	22.24				0.36	2.33	3.31	4.06
5800	14.34	16.45	18.77	20.95	23.25				0.37	2.37	3.37	4.13
5900	14.37	16.47	18.80	20.96	23.24				0.37	2.41	3.43	4.20
6000	14.38	16.49	18.80	20.95	22.20				0.38	2.45	3.48	4.27

Table 25:
Section XPB/5VX: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)							Additional Power (kW) per belt for speed ratio			
	200	224	250	280	315	355	400	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	8.50	10.01	11.64	13.50	15.65	18.07	20.76	0.04	0.29	0.41	0.50
950	11.22	13.21	15.35	17.77	20.55	23.65	27.05	0.06	0.39	0.55	0.68
1450	16.55	19.44	22.49	25.93	29.80	34.02	38.48	0.09	0.59	0.84	1.03
2850	28.75	33.20	37.61	42.08	46.37			0.18	1.17	1.65	2.03
100	1.34	1.57	1.82	2.11	2.45	2.83	3.26	0.01	0.04	0.06	0.07
200	2.57	3.01	3.50	4.06	4.72	5.46	6.29	0.01	0.08	0.12	0.14
300	3.75	4.41	5.12	5.95	6.92	8.00	9.21	0.02	0.12	0.17	0.21
400	5.01	5.90	6.86	7.96	9.23	10.68	12.30	0.03	0.16	0.23	0.28
500	6.16	7.26	8.45	9.80	11.36	13.14	15.12	0.03	0.20	0.29	0.36
600	7.30	8.60	10.00	11.60	13.44	15.53	17.86	0.04	0.25	0.35	0.43
700	8.50	10.01	11.64	13.50	15.65	18.07	20.76	0.04	0.29	0.41	0.50
800	9.60	11.31	13.15	15.24	17.65	20.36	23.35	0.05	0.33	0.46	0.57
900	10.69	12.58	14.62	16.94	19.60	22.57	25.84	0.06	0.37	0.52	0.64
950	11.22	13.21	15.35	17.77	20.55	23.65	27.05	0.06	0.39	0.55	0.68
1000	11.86	13.95	16.20	18.76	21.70	24.99	28.59	0.06	0.41	0.58	0.71
1100	12.90	15.18	17.62	20.39	23.55	27.07	30.89	0.07	0.45	0.64	0.78
1200	13.93	16.39	19.00	21.96	25.33	29.06	33.07	0.08	0.49	0.70	0.85
1300	15.06	17.71	20.53	23.72	27.34	31.33	35.63	0.08	0.53	0.75	0.93
1400	16.06	18.87	21.85	25.21	29.00	33.15	37.57	0.09	0.57	0.81	1.00
1450	16.55	19.44	22.49	25.93	29.80	34.02	38.48	0.09	0.59	0.84	1.03
1500	17.03	19.99	23.13	26.64	30.58	34.86	39.35	0.09	0.61	0.87	1.07
1600	18.12	21.27	24.59	28.31	32.48	36.96	41.70	0.10	0.65	0.93	1.14
1700	19.05	22.34	25.79	29.64	33.92	38.48	43.20	0.11	0.70	0.99	1.21
1800	19.96	23.38	26.95	30.90	35.27	39.86	45.12	0.11	0.74	1.05	1.28
1900	21.01	24.60	28.35	32.49	37.03	41.82	46.61	0.12	0.78	1.10	1.35
2000	21.87	25.57	29.42	33.63	38.21	42.96	47.58	0.13	0.82	1.16	1.42
2100	22.70	26.50	30.43	34.70	39.28	44.52	49.16	0.13	0.86	1.22	1.50
2200	23.71	27.67	31.75	36.18	40.91	45.69	50.18	0.14	0.90	1.28	1.57
2300	24.49	28.53	32.67	37.11	41.79	46.40		0.15	0.94	1.34	1.64
2400	25.23	29.35	33.52	37.96	43.08	47.69		0.15	0.98	1.39	1.71
2500	26.20	30.45	34.76	39.32	44.02	48.49		0.16	1.02	1.45	1.78
2600	26.89	31.18	35.50	40.01	44.56			0.16	1.06	1.51	1.85
2700	27.54	31.87	36.18	41.08	45.62			0.17	1.10	1.57	1.92
2800	28.45	32.90	37.32	41.85	46.27			0.18	1.15	1.63	1.99
2850	28.75	33.20	37.61	42.08	46.37			0.18	1.17	1.65	2.03
2900	29.04	33.49	37.87	42.28	46.43			0.18	1.19	1.68	2.06
3000	29.58	34.03	38.35	43.17				0.19	1.23	1.74	2.14
3100	30.45	35.00	39.40					0.20	1.27	1.80	2.21
3200	30.93	35.44	39.74					0.20	1.31	1.86	2.28
3300	31.38	35.82	40.49					0.21	1.35	1.92	2.35
3400	32.16	36.72	40.94					0.22	1.39	1.97	2.42
3500	32.52	36.99	41.05					0.22	1.43	2.03	2.49
3600	32.83	37.20						0.23	1.47	2.09	2.56
3700	33.57	38.00						0.23	1.51	2.15	2.63
3800	33.80	38.30						0.24	1.55	2.21	2.71
3900	33.97	38.50						0.25	1.60	2.26	2.78
4000	34.05	38.94						0.25	1.64	2.32	2.85
4100	34.74							0.26	1.68	2.38	2.92
4200	34.77							0.27	1.72	2.44	2.99
4300	35.38							0.27	1.76	2.50	3.06
4400	35.54							0.28	1.80	2.56	3.13
4500	35.66							0.28	1.84	2.61	3.20

Table 26:
Section XPC: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)							Additional Power (kW) per belt for speed ratio			
	180	200	224	250	280	315	335	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	9.37	11.25	13.49	15.89	18.65	21.84	23.64	0.08	0.49	0.70	0.85
950	12.53	15.04	18.01	21.21	24.84	29.02	31.37	0.10	0.67	0.95	1.16
1450	18.48	22.12	26.43	30.97	36.06	41.77	44.91	0.16	1.02	1.44	1.77
2850	31.78	37.48	43.75	49.78	55.61			0.31	2.00	2.84	3.48
50	0.73	0.87	1.04	1.23	1.44	1.69	1.83	0.01	0.04	0.05	0.06
100	1.42	1.70	2.03	2.41	2.82	3.31	3.59	0.01	0.07	0.10	0.12
150	2.10	2.51	3.00	3.56	4.17	4.90	5.31	0.02	0.11	0.15	0.18
200	2.81	3.36	4.03	4.74	5.57	6.53	7.08	0.02	0.14	0.20	0.24
250	3.48	4.16	5.00	5.88	6.91	8.10	8.78	0.03	0.18	0.25	0.31
300	4.14	4.96	5.95	7.00	8.23	9.66	10.47	0.03	0.21	0.30	0.37
350	4.82	5.78	6.93	8.17	9.60	11.26	12.20	0.04	0.25	0.35	0.43
400	5.47	6.57	7.87	9.28	10.91	12.79	13.86	0.04	0.28	0.40	0.49
450	6.12	7.35	8.81	10.39	12.21	14.31	15.50	0.05	0.32	0.45	0.55
500	6.80	8.16	9.78	11.53	13.55	15.88	17.21	0.05	0.35	0.50	0.61
550	7.44	8.93	10.71	12.62	14.83	17.37	18.82	0.06	0.39	0.55	0.67
600	8.08	9.70	11.62	13.70	16.09	18.85	20.42	0.07	0.42	0.60	0.73
650	8.74	10.49	12.58	14.83	17.41	20.39	22.08	0.07	0.46	0.65	0.79
700	9.37	11.25	13.49	15.89	18.65	21.84	23.64	0.08	0.49	0.70	0.85
750	9.99	12.00	14.38	16.95	19.88	23.26	25.17	0.08	0.53	0.75	0.92
800	10.66	12.79	15.33	18.06	21.18	24.78	26.81	0.09	0.56	0.80	0.98
850	11.26	13.53	16.21	19.10	22.38	26.17	28.30	0.09	0.60	0.85	1.04
900	11.89	14.26	17.09	20.12	23.57	27.54	29.77	0.10	0.63	0.90	1.10
950	12.53	15.04	18.01	21.21	24.84	29.02	31.37	0.10	0.67	0.95	1.16
1000	13.13	15.76	18.87	22.21	26.00	30.35	32.79	0.11	0.70	1.00	1.22
1050	13.73	16.48	19.72	23.20	27.14	31.65	34.18	0.11	0.74	1.05	1.28
1100	14.37	17.24	20.64	24.27	28.39	33.10	35.73	0.12	0.77	1.10	1.34
1150	14.96	17.94	21.47	25.24	29.50	34.36	37.06	0.12	0.81	1.15	1.40
1200	15.54	18.63	22.29	26.18	30.58	35.59	38.36	0.13	0.84	1.20	1.47
1250	16.17	19.38	23.19	27.23	31.81	36.99	39.88	0.14	0.88	1.25	1.53
1300	16.74	20.06	23.99	28.15	32.86	38.17	41.12	0.14	0.91	1.29	1.59
1350	17.31	20.73	24.78	29.06	33.89	39.31	42.32	0.15	0.95	1.34	1.65
1400	17.93	21.47	25.66	30.09	35.07	40.68	43.78	0.15	0.98	1.39	1.71
1450	18.48	22.12	26.43	30.97	36.06	41.77	44.91	0.16	1.02	1.44	1.77
1500	19.03	22.77	27.18	31.83	37.02	42.82	46.00	0.16	1.05	1.49	1.83
1550	19.64	23.50	28.04	32.84	38.18	44.14	47.41	0.17	1.09	1.54	1.89
1600	20.17	24.13	28.77	33.67	39.10	45.13	48.42	0.17	1.12	1.59	1.95
1650	20.70	24.75	29.49	34.48	39.99	46.08	49.39	0.18	1.16	1.64	2.02
1700	21.29	25.46	30.34	35.45	41.11	47.36	50.74	0.18	1.19	1.69	2.08
1750	21.80	26.06	31.03	36.22	41.95	48.24	51.63	0.19	1.23	1.74	2.14
1800	22.81	26.65	31.71	36.98	42.76	49.08	52.46	0.20	1.30	1.79	2.20
1850	22.90	27.35	32.53	37.93	43.85	50.30	53.75	0.20	1.33	1.84	2.26
1900	23.39	27.92	33.18	38.64	44.61	51.07	54.50	0.21	1.37	1.89	2.32
1950	23.87	28.48	33.81	39.34	45.34	51.79	55.19	0.21	1.40	1.94	2.38
2000	24.44	29.16	34.61	40.26	46.38	52.95	56.40	0.22	1.44	1.99	2.44
2050	24.90	29.70	35.21	40.91	47.05	53.59	57.00	0.22	1.47	2.04	2.50
2100	25.36	30.22	35.80	41.54	47.69	54.18	57.53	0.23	1.51	2.09	2.56
2150	25.93	30.88	36.58	42.42	48.69	55.29	58.68	0.23	1.54	2.14	2.63
2200	26.37	31.38	37.13	43.00	49.27	55.80	59.12	0.24	1.58	2.19	2.69
2250	26.80	31.87	37.67	43.56	49.81	56.25	59.49	0.24	1.61	2.24	2.75
2300	27.35	32.52	38.42	44.42	50.76	57.29	60.56	0.25	1.65	2.29	2.81
2350	27.76	32.98	38.92	44.93	51.23	57.66	60.82	0.26	1.68	2.34	2.87
2400	28.16	33.43	39.40	45.41	51.67	57.96	61.57	0.26	1.72	2.39	2.93
2450	28.69	34.06	40.14	46.24	52.58	58.93	62.00	0.27	1.75	2.44	2.99
2500	29.07	34.48	40.59	46.67	52.95	59.14	62.08	0.27	1.79	2.49	3.05
2550	29.44	34.89	41.01	47.08	53.27	59.29		0.28	1.82	2.54	3.11
2600	29.97	35.95	41.71	47.86	54.13	60.18		0.28	1.86	2.59	3.18
2650	30.32	36.34	42.10	48.21	54.38	60.23		0.29	1.89	2.64	3.24
2700	30.66	36.71	42.46	48.53	54.59	60.80		0.29	1.93	2.69	3.30
2750	31.16	36.83	43.13	49.28	55.39	61.04		0.30	1.96	2.74	3.36
2800	31.48	37.17	43.45	49.55	55.52			0.30	2.00	2.79	3.42
2850	31.78	37.48	43.75	49.78	55.61			0.31	2.04	2.84	3.48
2900	32.28	38.05	44.40	50.48	56.35			0.31	2.06	2.89	3.54
2950	32.56	38.34	44.66	50.65	56.35			0.32	2.07	2.94	3.60
3000	32.83	38.61	44.89	50.79	56.31			0.33	2.11	2.99	3.66
3050	33.31	39.16	45.50	51.45				0.33	2.14	3.04	3.72
3100	33.56	39.40	45.69	51.53				0.34	2.18	3.09	3.79
3150	33.79	39.62	45.85	51.57				0.34	2.21	3.14	3.85
3200	34.24	40.14	46.43	52.19				0.35	2.25	3.19	3.91
3250	34.45	40.33	46.55	52.17				0.35	2.28	3.24	3.97
3300	34.64	40.49	46.63					0.36	2.32	3.29	4.03
3350	35.09	40.99	47.19					0.36	2.35	3.34	4.09
3400	35.26	41.12	47.23					0.37	2.39	3.39	4.15
3450	35.41	41.24	47.24					0.37	2.42	3.44	4.21
3500	35.83	41.71	47.75					0.38	2.46	3.49	4.27

Table 26:
Section XPC: Power Rating P (kW) for Arc of Contact 180°

n (rpm)	Pitch diameter of the smaller pulley (mm)							Additional Power (kW) per belt for speed ratio			
	355	400	450	500	560	630	710	1.01 to 1.05	1.06 to 1.26	1.27 to 1.57	For > 1.57
700	25.43	29.41	33.75	37.99	42.94	48.49	54.54	0.08	0.49	0.70	0.85
950	33.69	38.80	44.30	49.57	55.56	62.06	68.76	0.10	0.67	0.95	1.16
1450	47.95	54.42	60.95	66.69	72.42	78.01		0.16	1.02	1.44	1.77
2850								0.31	2.00	2.84	3.48
50	1.97	2.28	2.64	2.99	3.40	3.89	4.45	0.01	0.04	0.05	0.06
100	3.86	4.47	5.18	5.87	6.67	7.63	8.73	0.01	0.07	0.10	0.12
150	5.72	6.62	7.67	8.69	9.89	11.31	12.93	0.02	0.11	0.15	0.18
200	7.63	8.86	10.22	11.58	13.21	15.09	17.24	0.02	0.14	0.20	0.24
250	9.46	10.99	12.67	14.35	16.37	18.68	21.33	0.03	0.18	0.25	0.31
300	11.28	13.09	15.09	17.09	19.47	22.21	25.33	0.03	0.21	0.30	0.37
350	13.15	15.26	17.59	19.91	22.67	25.86	29.47	0.04	0.25	0.35	0.43
400	14.94	17.33	19.96	22.58	25.69	29.27	33.30	0.04	0.28	0.40	0.49
450	16.70	19.37	22.30	25.20	28.64	32.59	37.01	0.05	0.32	0.45	0.55
500	18.53	21.48	24.73	27.94	31.75	36.10	40.97	0.05	0.35	0.50	0.61
550	20.26	23.47	27.00	30.48	34.59	39.25	44.45	0.06	0.39	0.55	0.67
600	21.97	25.43	29.23	32.95	37.34	42.30	47.77	0.07	0.42	0.60	0.73
650	23.76	27.51	31.60	35.62	40.33	45.66	51.52	0.07	0.46	0.65	0.79
700	25.43	29.41	33.75	37.99	42.94	48.49	54.54	0.08	0.49	0.70	0.85
750	27.07	31.28	35.84	40.29	45.45	51.19	57.90	0.08	0.53	0.75	0.92
800	28.82	33.29	38.14	42.85	48.31	54.38	60.86	0.09	0.56	0.80	0.98
850	30.41	35.09	40.14	45.02	50.64	56.82	63.33	0.09	0.60	0.85	1.04
900	31.97	36.84	42.08	47.11	52.85	59.63	66.31	0.10	0.63	0.90	1.10
950	33.69	38.80	44.30	49.57	55.56	62.06	68.76	0.10	0.67	0.95	1.16
1000	35.19	40.47	46.13	51.50	57.56	64.04	70.56	0.11	0.70	1.00	1.22
1050	36.66	42.10	47.88	53.34	59.93	66.53	73.09	0.11	0.74	1.05	1.28
1100	38.32	43.99	50.00	55.67	61.97	68.55	74.95	0.12	0.77	1.10	1.34
1150	39.72	45.52	51.63	57.33	63.59	69.99	75.99	0.12	0.81	1.15	1.40
1200	41.09	47.00	53.17	58.89	65.70	71.21	78.00	0.13	0.84	1.20	1.47
1250	42.70	48.82	55.19	61.07	67.39	73.66	79.17	0.14	0.88	1.25	1.53
1300	43.99	50.19	56.59	62.42	68.58	74.49		0.14	0.91	1.29	1.59
1350	45.24	51.50	57.90	64.24	70.41	76.21		0.15	0.95	1.34	1.65
1400	46.79	53.23	59.80	65.68	71.72	77.21		0.15	0.98	1.39	1.71
1450	47.95	54.42	60.95	66.69	72.42	78.01		0.16	1.02	1.44	1.77
1500	49.07	55.55	62.52	68.28	72.94			0.16	1.05	1.49	1.83
1550	50.55	57.19	63.77	69.42				0.17	1.09	1.54	1.89
1600	51.57	58.19	64.64	70.04				0.17	1.12	1.59	1.95
1650	52.55	59.10	66.03	71.38				0.18	1.16	1.64	2.02
1700	53.97	60.65	67.03	72.19				0.18	1.19	1.69	2.08
1750	54.84	61.43	67.59	72.39				0.19	1.23	1.74	2.14
1800	55.66	62.12	68.78					0.20	1.30	1.79	2.20
1850	57.00	63.57	69.52					0.20	1.33	1.84	2.26
1900	57.71	64.11	69.75					0.21	1.37	1.89	2.32
1950	58.35	65.18	70.72					0.21	1.40	1.94	2.38
2000	59.61	65.89	71.17					0.22	1.44	1.99	2.44
2050	60.14	66.18						0.22	1.47	2.04	2.50
2100	61.11	67.08						0.23	1.51	2.09	2.56
2150	61.78	67.57						0.23	1.54	2.14	2.63
2200	62.12	67.59						0.24	1.58	2.19	2.69
2250	62.96	68.31						0.24	1.61	2.24	2.75

Table 27:
Arc of Contact Factors (Fc)

$\frac{D-d}{C}$	Arc of Contact on Smaller Pulley (Degrees)	Correction Factor i.e. Proportion of 180° Rating
0.00	180°	1.00
0.05	177°	1.00
0.10	174°	1.00
0.15	171°	1.00
0.20	168°	0.99
0.25	165°	0.99
0.30	162°	0.99
0.35	160°	0.99
0.40	156°	0.99
0.45	153°	0.98
0.50	150°	0.98
0.55	147°	0.98
0.60	144°	0.98
0.65	141°	0.97
0.70	139°	0.97
0.75	136°	0.97
0.80	133°	0.96
0.85	130°	0.96
0.90	126°	0.96
0.95	123°	0.95
1.00	119°	0.94
1.05	115°	0.94
1.10	112°	0.93
1.15	109°	0.93
1.20	106°	0.92
1.25	103°	0.91
1.30	100°	0.91
1.35	96°	0.90
1.40	92°	0.88
1.45	88°	0.87
1.50	84°	0.86
1.55	80°	0.84
1.60	77°	0.83

Table 28:
Pitch Length Correction Factors (Fd)

Section: Z/ZX

Pitch Length (mm)	Fd
422	0.86
447	0.87
472	0.88
497	0.89
522	0.90
552	0.92
582	0.93
622	0.94
652	0.95
682	0.96
732	0.98
822	1.00
847	1.01
887	1.02
922	1.02
947	1.03
997	1.04
1022	1.05
1082	1.06
1142	1.07
1172	1.08
1202	1.08
1272	1.10
1342	1.11
1422	1.12
1522	1.14
1622	1.15

Section: A/AX

Pitch Length (mm)	Fd
660	0.80
740	0.82
780	0.83
830	0.85
880	0.86
930	0.87
980	0.88
1030	0.89
1090	0.90
1150	0.91
1210	0.92
1280	0.94
1350	0.95
1430	0.96
1530	0.97
1630	0.99
1730	1.00
1830	1.01
1930	1.02
2030	1.03
2150	1.05
2270	1.06
2390	1.07
2530	1.08
2680	1.10
2830	1.11
3030	1.12
3180	1.14
3380	1.15
3780	1.17
4030	1.19
4530	1.22
5030	1.24

Section: B/BX

Pitch Length (mm)	Fd
900	0.81
990	0.83
1040	0.84
1100	0.85
1140	0.85
1220	0.87
1290	0.88
1360	0.89
1440	0.90
1540	0.92
1640	0.93
1740	0.94
1840	0.95
1940	0.97
2040	0.98
2160	0.99
2280	1.00
2400	1.01
2500	1.03
2690	1.04
2840	1.05
3040	1.06
3190	1.07
3390	1.09
3590	1.10
3790	1.11
4040	1.13
4290	1.14
4540	1.15
4790	1.17
5040	1.18
5340	1.19
5640	1.20
6040	1.22
6340	1.23

Section: C/CX

Pitch Length (mm)	Fd
1458	0.80
1558	0.81
1658	0.83
1858	0.85
1958	0.86
2058	0.87
2178	0.88
2298	0.89
2418	0.90
2558	0.92
2708	0.93
2858	0.94
3058	0.96
3208	0.96
3608	0.99
3808	1.00
4058	1.01
4308	1.03
4558	1.04
4808	1.05
5058	1.06
5358	1.07
5658	1.09
6058	1.10
6358	1.11
6758	1.13
7158	1.14
7558	1.15
8058	1.17
9058	1.19
10058	1.22

Section: D

Pitch Length (mm)	Fd
3225	0.86
3425	0.87
3625	0.88
3825	0.89
4075	0.91
4325	0.92
4575	0.93
4825	0.94
5075	0.95
5375	0.96
5675	0.98
6075	0.99
6375	1.00
6775	1.01
7175	1.03
7575	1.04
8075	1.05
8575	1.06
9075	1.08
9575	1.09
10075	1.10
10675	1.11
11275	1.13
11875	1.14
12575	1.15
13275	1.16
14075	1.18
15075	1.19
16075	1.21

Section: E

Pitch Length (mm)	Fd
4830	0.92
5080	0.93
5380	0.94
5680	0.95
6080	0.96
6380	0.97
6780	0.99
7180	1.00
7580	1.01
8080	1.03
8580	1.04
9080	1.05
9580	1.06
10080	1.07
10680	1.09
11280	1.10
11880	1.11
12580	1.12
13280	1.14
14080	1.15
15080	1.17
16080	1.18

Section: SPZ/XPZ

Pitch Length (mm)	Fd
635	0.83
675	0.84
715	0.85
755	0.86
805	0.87
855	0.88
905	0.89
955	0.90
1005	0.91
1065	0.92
1125	0.93
1185	0.94
1255	0.95
1325	0.96
1405	0.98
1505	0.99
1605	1.00
1705	1.01
1805	1.02
1905	1.03
2005	1.04
2125	1.05
2245	1.06
2365	1.07
2505	1.08
2655	1.09
2805	1.10
3005	1.11
3155	1.12
3355	1.13
3555	1.15
3755	1.16
4005	1.17
4255	1.18
4505	1.19

Table 28:
Pitch Length Correction Factors (Fd)

Section: SPA/XPA

Pitch Length (mm)	Fd
805	0.81
855	0.82
905	0.83
955	0.84
1005	0.85
1065	0.86
1125	0.86
1185	0.87
1255	0.88
1325	0.89
1405	0.90
1505	0.91
1605	0.92
1705	0.93
1805	0.94
1905	0.95
2005	0.96
2125	0.97
2245	0.98
2365	0.99
2505	1.00
2655	1.01
2805	1.02
3005	1.03
3155	1.04
3355	1.05
3555	1.06
3755	1.07
4005	1.08
4255	1.09
4505	1.10
4755	1.11
5005	1.12
5305	1.13
5605	1.14
6005	1.15

Section: SPB/XPB

Pitch Length (mm)	Fd
1255	0.83
1325	0.84
1405	0.85
1505	0.86
1605	0.87
1705	0.88
1805	0.89
1905	0.90
2005	0.91
2125	0.92
2245	0.93
2365	0.93
2505	0.94
2655	0.95
2805	0.96
3005	0.97
3155	0.98
3355	0.99
3555	1.00
3755	1.01
4005	1.02
4255	1.03
4505	1.04
4705	1.04
5005	1.05
5305	1.06
5605	1.07
6005	1.08
6305	1.09
6705	1.10
7105	1.11
7505	1.12
8005	1.13
8505	1.14
9005	1.15
9505	1.16
10000	1.17

Section: SPC/XPC

Pitch Length (mm)	Fd
2005	0.85
2125	0.86
2245	0.86
2365	0.87
2505	0.88
2655	0.89
2805	0.90
3005	0.91
3155	0.91
3355	0.92
3555	0.93
3755	0.94
4005	0.95
4255	0.96
4505	0.97
4755	0.98
5005	0.98
5305	0.99
5605	1.00
6005	1.01
6305	1.02
6705	1.03
7105	1.04
7505	1.04
8005	1.05
8505	1.06
9005	1.07
9505	1.08
10005	1.09
10605	1.09
11205	1.10
11805	1.11
12505	1.12
13205	1.13
14005	1.14
15005	1.15

Section: 3V/3VX

Belt Reference	Outside Length (mm)	Fd
3V 270	686	0.84
3V 285	724	0.85
3V 305	775	0.86
3V 320	813	0.87
3V 340	864	0.88
3V 360	914	0.90
3V 380	965	0.91
3V 405	1029	0.92
3V 430	1092	0.93
3V 455	1156	0.94
3V 480	1219	0.95
3V 505	1283	0.96
3V 535	1359	0.97
3V 565	1435	0.98
3V 605	1537	0.99
3V 635	1613	1.00
3V 675	1715	1.01
3V 715	1816	1.02
3V 755	1918	1.03
3V 805	2045	1.04
3V 855	2172	1.05
3V 905	2299	1.07
3V 955	2426	1.07
3V 1005	2553	1.08
3V 1065	2705	1.09
3V 1125	2858	1.11
3V 1185	3010	1.11
3V 1255	3188	1.13
3V 1325	3366	1.14
3V 1405	3569	1.15
3V 1505	3823	1.16
3V 1605	4077	1.17
3V 1705	4331	1.18
3V 1805	4585	1.19
3V 1905	4839	1.20
3V 2005	5093	1.21

Section: 5V/5VX

Belt Reference	Outside Length (mm)	Fd
5V 505	1283	0.84
5V 535	1359	0.85
5V 565	1435	0.85
5V 605	1537	0.87
5V 635	1613	0.87
5V 675	1715	0.88
5V 715	1816	0.89
5V 755	1918	0.90
5V 805	2045	0.91
5V 855	2172	0.92
5V 905	2299	0.93
5V 955	2426	0.94
5V 1005	2553	0.95
5V 1065	2705	0.96
5V 1125	2858	0.96
5V 1185	3010	0.97
5V 1255	3188	0.98
5V 1325	3366	0.99
5V 1405	3569	1.00

Belt Reference	Outside Length (mm)	Fd
5V 1505	3823	1.01
5V 1605	4077	1.02
5V 1705	4331	1.03
5V 1805	4585	1.04
5V 1905	4839	1.05
5V 2005	5093	1.06
5V 2125	5398	1.07
5V 2245	5702	1.07
5V 2365	6007	1.08
5V 2505	6363	1.09
5V 2655	6744	1.10
5V 2805	7125	1.11
5V 3005	7633	1.12
5V 3155	8014	1.13
5V 3355	8522	1.14
5V 3555	9030	1.15
5V 3755	9538	1.16
5V 4005	10173	1.17

Section: 8V

Belt Reference	Outside Length (mm)	Fd
8V 1005	2553	0.87
8V 1065	2705	0.87
8V 1125	2858	0.88
8V 1185	3010	0.89
8V 1255	3188	0.90
8V 1325	3366	0.91
8V 1405	3569	0.92
8V 1505	3823	0.93
8V 1605	4077	0.93
8V 1705	4331	0.94
8V 1805	4585	0.95
8V 1905	4839	0.96
8V 2005	5093	0.97
8V 2125	5398	0.98
8V 2245	5702	0.98
8V 2365	6007	0.99
8V 2505	6363	1.00

Belt Reference	Outside Length (mm)	Fd
8V 2655	6744	1.01
8V 2805	7125	1.02
8V 3005	7633	1.03
8V 3155	8014	1.03
8V 3355	8522	1.04
8V 3555	9030	1.05
8V 3755	9538	1.06
8V 4005	10173	1.07
8V 4255	10808	1.08
8V 4505	11443	1.09
8V 4755	12078	1.09
8V 5005	12713	1.10
8V 5305	13475	1.11
8V 5605	14237	1.12
8V 6005	15253	1.13
8V 6305	16015	1.13

Table 29:
Installation & Take-up Allowances

Pitch Length (mm)	Minimum Take-up Allowance x (mm)	Installation Allowance y (mm)								
		8	Z/ZX	A/AX	B/BX	20	C/CX	25	D	E
200	5	-	-	-	-	-	-	-	-	-
>200 ≤ 250	5	-	-	-	-	-	-	-	-	-
>250 ≤ 315	5	10	10	-	-	-	-	-	-	-
>315 ≤ 670	10	10	10	10	10	-	-	-	-	-
>670 ≤ 1000	15	10	15	15	15	-	-	-	-	-
>1000 ≤ 1250	20	15	15	15	15	20	20	-	-	-
>1250 ≤ 1800	25	15	20	20	20	20	25	25	-	-
>1800 ≤ 2240	25	20	20	20	20	25	25	30	35	-
>2240 ≤ 3000	35	-	20	20	20	25	30	30	35	40
>3000 ≤ 4000	45	-	20	20	20	25	30	30	35	40
>4000 ≤ 5000	55	-	20	20	20	30	30	30	35	40
>5000 ≤ 6300	70	-	-	20	25	35	35	35	40	45
>6300 ≤ 8000	85	-	-	20	25	40	40	40	45	50
>8000 ≤ 10000	110	-	-	25	25	40	45	45	45	50
>10000 ≤ 12500	135	-	-	-	30	40	45	45	50	55
>12500 ≤ 15000	150	-	-	-	40	50	55	55	60	65
>15000 ≤ 18000	190	-	-	-	40	50	55	55	60	65

Pitch Length (mm)	Minimum Take-up Allowance x (mm)	Installation Allowance y (mm)			
		SPZ / XPZ	SPA / XPA	SPB / XPB	SPC / XPC
487 ≤ 670	10	10	10	-	-
>670 ≤ 1000	15	15	15	-	-
>1000 ≤ 1250	20	15	15	-	-
>1250 ≤ 1800	25	20	20	20	-
>1800 ≤ 2240	25	20	20	20	25
>2240 ≤ 3000	35	20	20	20	30
>3000 ≤ 4000	45	20	20	20	30
>4000 ≤ 5000	55	20	20	25	30
>5000 ≤ 6300	70	25	25	30	35
>6300 ≤ 8000	85	25	25	35	40
>8000 ≤ 10000	110	30	30	35	45
>10000 ≤ 12500	135	-	-	35	45
>12500 ≤ 15000	150	-	-	45	55
>15000 ≤ 18000	190	-	-	45	55

Length Designation	Outside Length (mm)	Minimum Take-up Allowance x (mm)	Installation Allowance y (mm)		
			3V/3VX	5V/5VX	8V
>265 ≤ 400	>673 ≤ 1016	15	15	-	-
>400 ≤ 475	>1016 ≤ 1206	20	15	-	-
>475 ≤ 710	>1206 ≤ 1803	25	20	20	-
>710 ≤ 850	>1803 ≤ 2159	25	20	20	-
>850 ≤1180	>2159 ≤ 2997	35	20	20	40
>1180 ≤ 1600	>2997 ≤ 4064	45	20	20	40
>1600 ≤ 2000	>4064 ≤ 5080	55	20	25	40
>2000 ≤ 2500	>5080 ≤ 6350	70	-	30	45
>2500 ≤ 3150	>6350 ≤ 8001	85	-	35	45
>3150 ≤ 4000	>8001 ≤ 10160	110	-	35	50
>4000 ≤ 5000	>10160 ≤ 12700	135	-	35	50
>5000 ≤ 6000	>12700 ≤ 15240	150	-	45	60
>6000 ≤ 7100	>15240 ≤ 18034	190	-	45	60

Table 29:
Installation & Take-up Allowances for Banded Belts

Length Designation	Outside Length (mm)	Minimum Take-up Allowance x (mm)	Installation Allowance y (mm)		
			3V	5V	8V
475 ≤ 710	1206 ≤ 1803	25	35	40	-
>710 ≤ 850	>1803 ≤ 2159	25	35	40	-
>850 ≤1180	>2159 ≤ 2997	35	35	40	80
>1180 ≤ 1600	>2997 ≤ 4064	45	35	40	80
>1600 ≤ 2000	>4064 ≤ 5080	55	40	45	85
>2000 ≤ 2500	>5080 ≤ 6350	70	45	50	85
>2500 ≤ 3150	>6350 ≤ 8001	85	50	55	95
>3150 ≤ 4000	>8001 ≤ 10160	110	50	55	95
>4000 ≤ 5000	>10160 ≤ 12700	135	-	60	95
>5000 ≤ 6000	>12700 ≤ 15240	150	-	70	105
>6000 ≤ 7100	>15240 ≤ 18034	190	-	85	120

Pitch Length (mm)	Minimum Take-up Allowance x (mm)	Installation Allowance y (mm)		
		SPZ	SPA/SPB	SPC
1176 ≤ 1773	25	35	40	-
>1773 ≤ 2129	25	35	40	-
>2129 ≤ 2967	35	35	40	-
>2967 ≤ 4034	45	35	40	80
>4034 ≤ 5050	55	40	45	85
>5050 ≤ 6320	70	45	50	85
>6320 ≤ 7971	85	50	55	95
>7971 ≤ 10130	110	50	55	95
>10130 ≤ 12670	135	-	60	95
>12670 ≤ 15210	150	-	70	105
>15210 ≤ 18004	190	-	85	120

Pitch Length (mm)	Minimum Take-up Allowance x (mm)	Installation Allowance y (mm)			
		A/HA	B/HB	C/HC	D/HD
1200 ≤ 1800	25	30	35	-	-
>1800 ≤ 2240	25	30	35	-	-
>2240 ≤ 3000	35	30	35	50	85
>3000 ≤ 4000	45	30	35	50	85
>4000 ≤ 5000	55	30	40	55	90
>5000 ≤ 6300	70	35	45	60	90
>6300 ≤ 8000	85	45	55	65	100
>8000 ≤ 10000	110	45	55	65	100
>10000 ≤ 12500	135	50	60	75	100
>12500 ≤ 15000	150	60	70	85	110
>15000 ≤ 18000	190	70	85	95	125

Note: For Raw Edge Banded Belts, the same x/y values to be referred.

Idlers / Tension Pulleys

Idlers are basically no loaded wheels that are used in a drive system under the following conditions.

1) Fixed centre distance, so as to provide the required installation & take-up allowances.
2) On long & unsupported spans, as dampers & guides where the chances of vibrations are more.
3) As outside idlers when the arc of contact on one of the drive pulleys is too low. Also helps in reducing the slippage & the need to increase the number of required belts.
4) As guide idlers where the drive system pulleys are not in the same plane.
5) To guide the belts past obstructions.
6) As pneumatically, or spring loaded idlers to maintain the constant tension in the drive.
7) As clutches where the driven pulley can be engaged or disengaged.

The usage of idlers should be as far as possible avoided as they generate additional bending stresses in the belt, leading to drastic reduction in the belt life. However, under the conditions listed above where it may be absolutely essential to use the idlers the following criteria must be observed when designing drive.

1. Idler configuration
2. Position of idler in the belt span
3. Shape of idler
4. Allowance for idler travel
5. Correction of power rating

Idler Configuration

Principally idlers can be used internally or externally depending on the drive conditions. However, unless the drive requirement calls for an outside idler, possibly inside idler should be used. The inside idler can be either flat or grooved pulley depending on the type of belt used in the drive system. It is suggested that the flat inside idler be used only when classical section is used while in all other cases a grooved pulley be used. However the usage of inside idler reduces the arc of contact on the loaded wheels and with it consequently the arc of contact correction factor. Hence when designing the drive with inside idler the arc of contact correction factor should be selected for the position of the idler at the point of maximum belt stretch.

Refer to table on Page 71

Outside idlers should always be flat one because they run on the back of the belt. Outside idlers invariably increase the arc of contact. Care should however be taken to see that the maximum belt stretch is achieved and the contact with the opposite side of the span is avoided. The reverse bending caused because of the usage of the outside idler reduces the life of the belt.

We suggest the usage of special construction PIX belts on these drives. Please contact our Technical Services Dept.

Idler Positioning

Practice has shown that the placement of idler, whether it is an inside idler or an outside idler, should be on the slack side of the drive. This helps in significant reduction in the tension idler force.
In the case of inside idlers, grooved pulley can be placed anywhere in the entire span length on the slack side of the drive. However to obtain the best from your drive it is suggested that wherever possible the arc of contact on both the drive pulleys should be brought as close as possible to each other when the idler reaches its limit position.

Flat pulleys, used as inside or outside idlers are to be placed as far as possible away from the grooved pulley on which the belt runs next. This will avoid any alignment errors between the idler, the pulley and the resultant sideways movement of the belts on the pulley. Refer figures below.

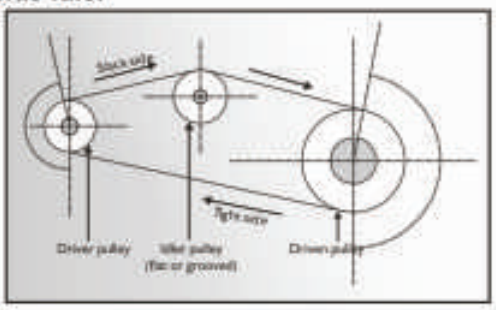
On drives where inside idler are used to break long spans, it is suggested that a grooved pulley be used because the usage of flat idler can result in transverse vibrations leading to the belt turnover.

Minimum diameter recommended for idlers.

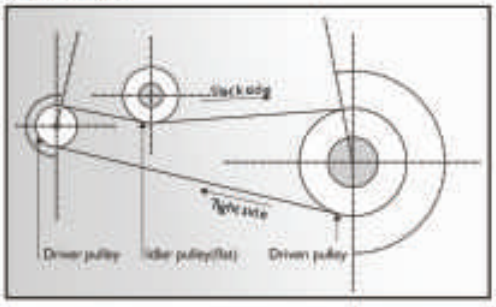
Inside Idler > smallest loaded pulley in the drive system or smallest permissible pulley diameter for section used.

Outside Idler > 1.5 times the smallest pulley in the drive system.

Inside Idler



Outside Idler



Idler Design

Grooved idlers should have the standard groove dimensions for optimum results. In case of long spans and the drives with severe vibrations, however, deep grooved pulleys are recommended. Flat pulleys on the other hand should always be cylindrical and not crowned. Wherever idlers are used as belt guides, it is suggested that a flanged pulley be used with sharp corners to avoid the running over of the belt over the flange causing turnover.

The distance between two flanges is governed by the following formula :

b = b2 + m

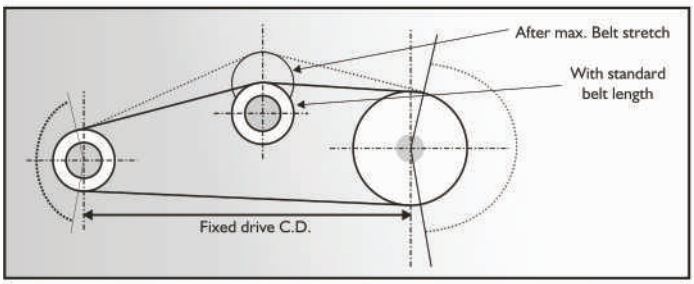
where b = required face width (mm)
b2 = face width of grooved pulley (mm)
m = additional value (mm)

Section	m (mm)
SPZ / XPZ / 3V / 3VX / Z / ZX	15
SPA / XPA / A / AX	20
SPB / XPB / 5V / 5VX / B / BX	25
SPC / XPC / C / CX	30
8V / 8VX	35
D	40
E	45

Number of belts required

The usage of idlers invariably decreases the service life of belts. To avoid a reduction in the belt service life, idler correction factor is also to be considered while calculating the number of belts required.

Arc of contact correction factor C1					
Angle (degree)	C1	Angle (degree)	C1	Angle (degree)	C1
75	0.82	140	0.96	195	1.01
80	0.84	145	0.97	200	1.01
85	0.86	150	0.97	205	1.01
90	0.88	155	0.98	210	1.01
95	0.90	160	0.98	215	1.01
100	0.91	165	0.99	220	1.01
105	0.92	170	0.99	225	1.01
110	0.93	175	0.99	230	1.01
115	0.94	180	1.00	240	1.02
125	0.95	185	1.00	250	1.02
130	0.96	190	1.00		



Drive Calculations:

The calculations for the length required is same as for the drive with two pulleys. However the following details are required to be noted when designing the same.

1) The required belt length is calculated using the standard procedure. (Lp)

2) If the belt has to be used with fixed centre distance, then double the installation allowance be added to the pitch length calculated above, i.e., $Lp_1 = Lp + 2y$
where, Lp_1 is the length considering installation allowances.
Lp is the pitch length calculated in step 1.
y is the installation allowance (see table no.29)

3) The next largest standard length Lp (standard) is to be chosen near to Lp_1, however care be taken to check that the belt can be adequately tensioned with the idler in the outermost position. Length of the belt for idler in the end position can be calculated as follows:
Ld (f) = Lp (standard) + 2x
where, Ld (f) is the length for idler end position that is after max. belt stretch (final). Lp (standard) is the standard length selected as above.

x is the take-up allowance (see table no.29)

No. of idlers	C4
0	1.00
1	0.91
2	0.86
3	0.81

No. of required belts :

$$N = \frac{Pxc2}{pxc1xc3xc4}$$

N = No. of required belts
P = Power in kW
p = Power rating of the belt
c1 = From above table
c2 = Service factor
c3 = Belt length factor
c4 = Idler correction factor as above

V-Flat Drives

The V - flat drive comprises of one grooved pulley & one flat pulley. V - flat drives are generally used where, under certain conditions intermittent loading & large moment of inertia have to be considered. The conversion from a flat drive to a V - flat drive is a relatively low cost exercise because of the presence of the existing flat pulley.

Pre-requisites for a V-flat drive:

1) The smaller pulley should always be V - grooved pulley.

2) When using single belts, only classical belts are to be used because of higher top width to height ratio (1.6:1).

3) Wedge belts should never be used on these drives because of their lower top width to height ratio (1.2 : 1), which makes these belts more vulnerable to turning on their sides.

4) PIX banded belts are more justifiable on these drives. The reinforced band over the belts provides the required lateral rigidity preventing the belt from turning over even under the extreme adverse conditions.

5) V-flat drives are economical when K lies between 0.5 & 1.15,

$$\text{where } K = \frac{(D_a - d_d / d_d)}{a}$$

Da = outside diameter of flat pulley (mm)
dd = pitch diameter of grooved pulley (mm)
da = outside diameter of grooved pulley (mm)
a = centre distance (mm)

The ideal drive is achieved when K = 0.85

The design procedure for V - flat drive is similar to that of normal V-belt drives, except that the arc of contact correction factor has to be modified.

$K = \frac{(D_a - d_d / d_d)}{a}$	B (degree)	c_1
0.00	180	0.75
0.07	176	0.76
0.15	170	0.77
0.22	167	0.79
0.29	163	0.79
0.35	160	0.80
0.40	156	0.81
0.45	153	0.81
0.50	150	0.82
0.57	146	0.83
0.64	143	0.84
0.70	140	0.85
0.75	137	0.85
0.80	134	0.86
0.85	130	0.86
0.92	125	0.84
1.00	120	0.82
1.07	115	0.80
1.15	110	0.78
1.21	106	0.77
1.30	100	0.73
1.36	96	0.72
1.45	90	0.70

Classical V-belts

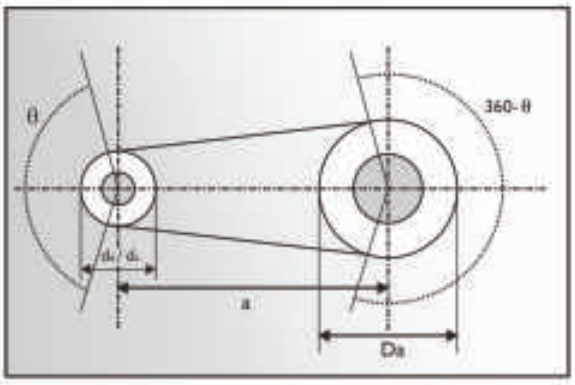
Section	Z	A	B	C	D	E
Dz	7	10	13	18	23	25

Banded belts

Section	SPZ/3V	SPA	SPB/5V	SPC	8V
Dz	13	18	23	36	41

Calculation of Pitch Length

$$Lp = 2a + 1.57 (d_d + D_a + D_z) + \frac{(D_a + D_z - d_d)^2}{4a}$$



Calculation of outside length for banded belt:

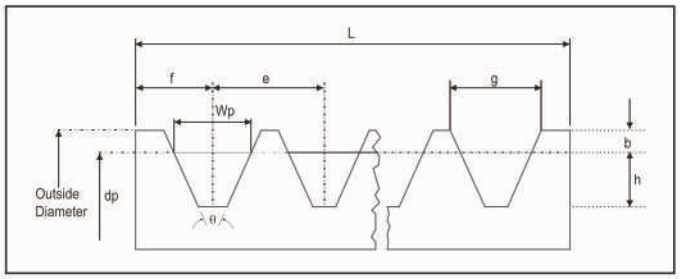
$$La = 2a + 1.57 (d_a + D_a + D_z) + \frac{(D_a + D_z - d_d)^2}{4a}$$

Based on above, the following recommendations are made to obtain the best from your V-flat drive.

	V-Belts	Banded Belts
Speed Ratio	$r = \frac{D_a}{d_d} \geq 3$	$r = \frac{D_a}{d_a} \geq 3$
Drive Centre Distance	$a = \frac{D_a - d_d}{0.85}$	$a = \frac{D_a - d_a}{0.85}$
"K" - Factor	$K = \frac{D_a - d_d}{a}$	$K = \frac{D_a - d_a}{a}$
	$0.5 \leq K \leq 1.15$	

Standard V-Grooved Pulleys

The maximum distance 'L' between the outside edges of the pulley, i.e. the face width is equal to (x-1) e + 2f (where x is the number of grooves).



Multi Grooved Pulley Cross Section

Cross Section Symbol	Groove Pitch Width (Wp)	Minimum Distance From Outside Diameter To Pitch Diameter (b) mm	Minimum Groove Depth Below Pitch Diameter (Note 4) (h) mm	Centre to Centre of Groove (see Note 2) (e) mm	Edge of Pulley to 1st Groove Centre (see Note 3) (f) mm	Pitch Diameter (dp) mm	Groove Angle (θ) mm	Minimum Top Width of Groove (g) mm
Z, SPZ, ZX, XPZ	8.5	2.0	9.0	12 ± 0.3	8.0 ± 1.0	Up to 80 Over 80	34 ± 0.5 38 ± 0.5	9.7 9.9
A, SPA, AX, XPA	11.0	2.75	11.0	15 ± 0.3	10.0 + 2.0 - 1.0	Up to 118 Over 118	34 ± 0.5 38 ± 0.5	12.7 12.9
B, SPB, BX, XPB	14.0	3.5	14.0	19 ± 0.4	12.5 + 2.0 - 1.0	Up to 190 Over 190	34 ± 0.5 38 ± 0.5	16.1 16.4
C, SPC, CX, XPC	19.0	4.8	19.0	25.5 ± 0.5	17.0 + 2.0 - 1.0	Up to 315 Over 315	34 ± 0.5 38 ± 0.5	21.9 22.3
D	27.0	8.1	19.9	37 ± 0.6	24.0 + 3.0 - 1.0	Up to 475 475 & over	36 ± 0.5 38 ± 0.5	32.3 32.6
E	32.0	9.6	23.4	44.5 ± 0.7	29.0 + 4.0 - 1.0	Up to 610 Over 610	36 ± 0.5 38 ± 0.5	38.8 39.3
3V, 3VX		0.64	8.0	10.3 ± 0.4	8.7 + 2.0 - 0.8	Up to 88 88 to 152 152 to 305 above 305	36 ± 0.5 38 ± 0.5 40 ± 0.5 42 ± 0.5	8.9
5V, 5VX		1.27	13.7	17.5 ± 0.4	12.7 + 3.0 - 1.0	Up to 254 254 to 406 above 406	38 ± 0.5 40 ± 0.5 42 ± 0.5	15.2
8V, 8VX		2.54	22.6	28.6 ± 0.4	19.0 + 6.0 -1.5	Up to 406 406 to 569	38 ± 0.5 40 ± 0.5	25.4

Note:

1) See figure for symbol.
2) The tolerance on dimension apply to the distance between the centre of any two grooves whether adjacent or not.
3) It is recommended that the tolerance on dimension should be taken into account in the alignment of the pulleys.
4) When the pulleys are to be used for V-Belts Z, A, B, C only, dimension 'h' may be reduced by 20 %.
5) Only above dimension pulleys should be used for Banded belts except for 'A' section, where e = 15.9 mm. The tolerance for side wobble and for run out (eccentricity), in mm per millimetre of pulley diameter shall be as follows :

   Pulley diameter < 500 mm ± 0.001 mm
   500 mm < Pulley diameter < 1500 mm ± 0.0015 mm
   Pulley diameter > 1500 mm ± 0.002 mm

Service Equipments

PIX Pulley Gauges

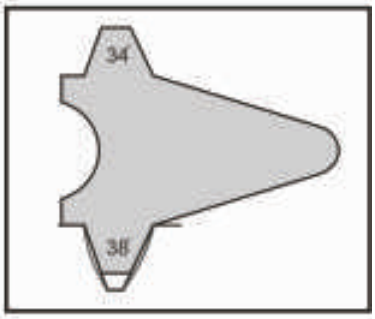
PIX Pulley Gauges are specially designed for checking the profiles of the grooves of various conventional and dual section pulleys.

Groove Checking Procedure

1. Identify the pulley gauge to be used according to section and its diameter.

2. Measure the groove by inserting the gauge. Identify if any clearance lies between the side wall of groove & the gauge.

3. Measure the present clearance using the Feeler Gauge.



PIX Length Finder

PIX Length Finder is used for checking the length where size on the belt is not clearly visible. It can also be used to confirm the size of the belt.

PIX has two types of Length finders
- Conventional
- Poly-V

The maximum belt length which can be measured with these length finders is 120 inches.

Belt length measurement procedure

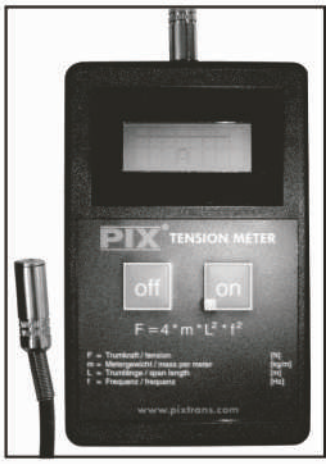
1. Place the belt on the upper half of the pulley which is fixed.

2. Slide down the lower half of pulley with the belt along the scale till the belt gets sufficiently stretched.

3. Marker at the lower position of the bottom half will show the reading in mm / inches.
   Note down the reading and compare this value with the belt size mentioned on the belt.

Service Equipments

PIX Digital Tension Meter



PIX Digital Tension Meter is used for the measurement of belt-tension in a drive. This digital version helps in correct tensioning of the drive resulting into optimum power transmission. It helps in reading the exact value of tension on the belts, thus helping the users to correct the tension, if it is not proper. This equipment works on frequency measurement phenomenon.

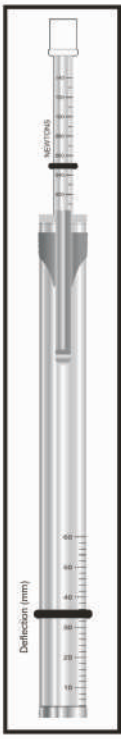
Advantages:

- Non-contact measurement with repeated accuracy
- Large range of measurement from 10Hz to 600Hz
- High level of accuracy
- Evaluation of the quality of measurement results
- Suppression of background noises
- Universal measuring head for convenient measurement
- Detachable measuring sensor for narrow spaces.

Technical Data:

Range of Measurement:	10 - 600 Hz
Measuring Precision:	10 - 400 Hz ± 1% 400 - 600 Hz ± 2% ± 1 digit
Measuring Method:	Non contact acoustic with background noise suppression
Voltage Supply:	2*1, 5V Mignon (LR06) AA
Power Consumption:	< 25mA
Display:	LCD 2 lines of 8 characters
Working Temperature:	0^0 to $+50^0$C
Storage Temperature:	-20 to $+60^0$C

PIX V-Belts Tension Tester



Proper belt tension is essential for optimum power transmission and also for the life of the belt. To ensure optimum V-belt drive operation, it is recommended to check the tension in the belts by measuring the deflection force value (N) with the help of a tension measuring device.

Belt tension in most of the drives can be checked with adequate reliability by means of PIX V-Belts Tension Tester.

Tension Measurement Procedure

1. Measure the span-length of the belt in mm. (refer sketch on the next page)

2. Tie a string or a thread on the two pulleys along with the length of the belt and mark the centre of the span on the belt.

Service Equipments

3. Calculate 1.5% of the span (say x) for belt length less than 1000 mm and 1.0% of the span for belt length more than 1000 mm. Adjust lower ring on the tension tester on the millimeter scale to coincide, "x" mm with the lower side of the ring. Adjust lower side of the upper ring at 0.00 N.

4. Place tension tester at the centre of the span of the belt. Apply force with the help of tension tester perpendicular to the span till the lower surface of the lower ring touches the string.

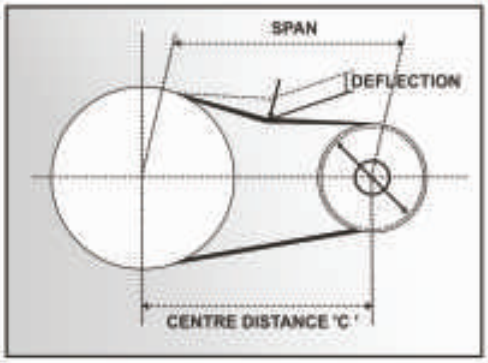
5. Read the deflection force value (N) on the Newton scale by taking reading at the lower side of the upper ring.

6. Compare the deflection force value (N) with the values given in the Table 'A'. The deflection force value (N) should lie between the minimum and maximum values given in the Table 'A'.

7. Deflection force less than the minimum recommended value in the range indicates an under-tensioned drive & deflection force higher than the maximum recommended value indicates an over-tensioned drive.

Important:

1) For new belts the deflection force value (N) should be kept at maximum.
2) Maximum deflection force value (N) is recommended for pulsating & shock loads.
3) It is recommended to re-check the belt tension after approximately 24 hours of running and adjust the tension, if necessary.



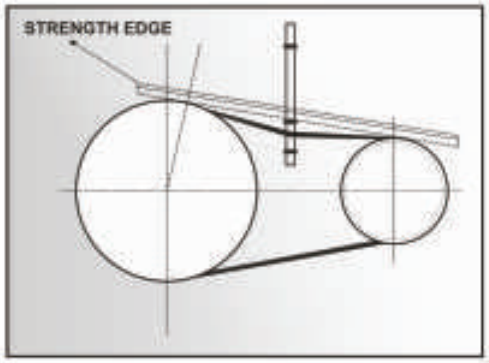


Table A

Deflection Force Required for Measuring Tension in V-Belt Drives

	Cross Section	Smaller Pulley Diameter (mm)	Condition 1 Deflection @ 1.0% of span, if span length is more than 1000 mm			Condition 2 Deflection @ 1.5% of span, if span length is less than 1000 mm		
			Required deflection force F at the centre of span for belt speed			Required deflection force F at the centre of span for belt speed		
			0 m/s to 10 m/s Range (N)	10 m/s to 20 m/s Range (N)	20 m/s to 30 m/s Range (N)	0 m/s to 10 m/s Range (N)	10 m/s to 20 m/s Range (N)	20 m/s to 30 m/s Range (N)
WRAPPED BELTS	**CLASSICAL BELTS**							
	Z	50-100	4-6	4-5	3-4	5-8	5-7	4-5
		100 & above	6-9	6-7	5-6	8-12	8-9	7-8
	A	71-140	8-12	7-10	6-8	11-16	9-13	8-11
		140 & above	12-18	10-14	8-12	16-24	13-19	11-16
	B	112-200	16-24	13-19	10-16	21-32	17-25	13-21
		200 & above	24-35	19-29	16-24	32-47	25-39	21-32
	C	180-400	31-46	26-38	20-31	41-61	35-51	27-41
		400 & above	46-70	38-58	31-46	61-93	51-77	41-61
	D	315-600	62-90	52-76	42-62	83-120	69-101	56-83
		600 & above	90-134	76-115	62-90	120-179	101-153	83-120
	E	450-915	108-160	90-137	73-109	144-213	120-183	97-145
		915 & above	160-240	137-205	109-160	213-320	183-273	145-213
	WEDGE / NARROW BELTS							
	SPZ / 3V	63-95	8-12	7-10	6-9	11-16	9-13	8-12
		95 & above	12-17	10-16	9-14	16-23	13-21	12-19
	SPA	90-140	14-20	12-17	10-14	19-27	16-23	13-19
		140 & above	20-31	17-26	14-22	27-41	23-35	19-29
	SPB / 5V	140-265	25-36	20-32	18-27	33-48	27-43	24-36
		265 & above	36-46	32-41	27-37	48-61	43-55	36-49
	SPC	224-355	46-66	38-58	32-52	61-88	51-77	43-69
		355 & above	66-85	58-76	52-70	88-113	77-101	69-93
	8V	335-520	81-107	68-90	56-73	108-143	91-120	75-97
		520 & above	107-167	90-140	73-113	143-223	120-187	97-151
CUT EDGE BELTS	**CLASSICAL V-BELTS**							
	ZX	40-100	5-7	5-6	3-5	6-9	6-8	5-6
		100 & above	7-10	7-8	6-7	9-14	9-11	8-9
	AX	63-140	9-14	8-12	7-9	12-18	11-15	9-12
		140 & above	14-21	12-16	9-14	18-28	15-21	12-18
	BX	90-200	18-28	15-22	12-18	25-37	20-29	15-25
		200 & above	28-40	22-33	18-28	37-54	29-44	25-37
	CX	140-400	36-53	30-44	23-36	48-71	40-58	31-48
		400 & above	53-81	44-67	36-53	71-107	58-89	48-71
	WEDGE / NARROW V-BELTS							
	XPZ / 3VX	56-95	9-14	8-12	7-10	12-18	11-15	9-14
		95 & above	14-20	12-18	10-16	18-26	15-25	14-21
	XPA	71-140	16-23	14-20	12-16	21-31	18-26	15-21
		140 & above	23-36	20-30	16-25	31-48	26-40	21-34
	XPB / 5VX	112-265	29-41	23-37	21-31	38-55	31-49	28-41
		265 & above	41-53	37-47	31-43	55-71	49-63	41-57
	XPC	180-355	53-76	44-67	37-60	71-101	58-89	49-80
		355 & above	76-98	67-87	60-81	101-130	89-117	80-107

Drive Design Software

PIX drive design software can offer drive solutions for wedge, narrow and classical V-belts in wrap and cut edge constructions. The main interface is divided in two parts namely:

Calculations:

There is a provision for calculating parameters viz. centre distance, pitch length, tensioning and power rating with minimum required input values.

PIX Wrapped and Cut edge Belts:

The compact screen has a provision for required input values to offer detailed calculations for new drive design and existing drive.

1. **Section selection:**
   The user has a choice to select from various sections or keep it unmarked to provide the scope for software to offer results for eligible sections.
2. **Design parameters:**
   Design ID – The software provides an unique identity for each drive calculations.
   Also we can choose from the various records saved earlier. There are two more fields which are not mandatory.
3. **Existing drive parameters:**
   This field is for verification of requirements of an existing drive.
4. **Design conditions:**
   It has provision for entering power, service factor and centre distance.
5. **Driver pulley and driven pulley:**
   The motor and follower rpm can be entered. The diameters can either be entered or selected from the range available.
6. **Special Conditions:**
   This field is to mention working temperature and conditions to offer suitable special construction belts.
7. **Idler:**
   The user can specify the idler position.

The recorded input data sheet can be saved and retrieved from the field "Design ID". The next button is to go for detailed calculation sheet. The type of customer can be selected from the drop down window and a specific record number can be allocated to get in final print sheet for easy identification. Also, there is a provision to get the center distance for user specified pitch length. The desired section results can be printed by ticking it. The main menu of the software in the beginning is shown as below.

The final output shall be available in the form of following report.

Drive Design Report

Report No.: PT/N/TS/ Print Date:

Name of Customer: Type of Customer:

Design Input :

Sr. No.	Design Input Parameters	Values	Unit
1	Motor Power		kW
2	Driver Speed		rpm
3	Driven Speed		rpm
4	Driver Pulley Dia		mm
5	Driven Pulley Dia		mm
6	Nominal Centre Distance		mm
7	Theoretical Pitch Length		mm
8	Drive application		
9	Special Condition		
10	Idler		

Design Output :

1	Design Power (Pd)		kW
2	Service Factor (K)		
3	Speed Ratio (Sr)		
4	Linear Speed (v)		m/s
5	Belt Section Selected		
6	Pitch Length of Standard Belt (Lp)		mm
7	Centre distance with standard Belts (C.D.)		mm
8	Power Rating (P)		kW
9	Arc of Contact Correction Factor (Fc)		
10	Length Correction Factor (Fd)		
11	Calculated no. of Belts (N)		
12	No. of Belts Considered (N)		
13	Centre Distance for Belt Stretch		mm
14	Centre Distance for Belt Installation		mm
15	Span Length		mm
16	Weight per meter		Kg/m
17	Dynamic Shaft Loading		Newton
18	Belt Reference		
19	Pulley Section		

Calculation for First Installation :

20	Static Belt Tension :		Newton
21	Frequency		Hz
22	Static Shaft Loading		Newton
23	Belt Deflection at the center of span length		mm
24	Deflection force required for measuring tension		Newton

Calculation for Re-tensioning :

25	Static Belt Tension		Newton
26	Frequency		Hz
27	Static Shaft Loading		Newton
28	Belt Deflection at the center of span length		mm
29	Deflection force required for measuring tension		Newton

PIX Drive Design Version 1.2.1

Maintenance of V-Belts

General guidelines for tensioning of V-Belt:

1) Ideal tension is the lowest tension at which the belt will not slip under peak load conditions.
2) Check tension frequently during the first two days of operation.
3) Over tensioning shortens belt and bearing life.
4) Keep belts free from foreign material which may cause slip.
5) Make V-drive inspection on a periodic basis.
6) Adjust tension when slipping. Never apply belt dressing as this will damage the belt and cause early failure.

Idlers:

An idler used in V-Belt drives is a wheel that is not 'loaded' and may be grooved/flat pulley used for various reasons such as:

a) To provide take up for fixed centre drives.

b) To clear obstruction.

c) To break up long spans where belt vibrations may be a problem.

d. To maintain tension to act as a clutching device.

Note:

Diameter of outside idler should be one and half times that of smaller pulley diameter or more and diameter of inside idler should be approximately same as that of smaller pulley diameter or more.

Installation & Take-up Allowance:

The limiting values for adjustment of centres for the two transmissions pulley shall be as follows:

Lower Limiting Value:

Nominal centre distance minus 1.5% Lp

Higher Limiting Value:

Nominal centre distance plus 3% Lp. Where Lp is the Pitch Length of the belt.

Storage of V-belts:

Maintaining the proper storage conditions at the users place as well as at the manufacturers place is an important parameter which requires due attention from the concerned. Under favourable storage conditions, PIX belts retain their initial serviceability and dimensions. Good storage facilities and practices will allow the users to achieve the best value from belts.

PIX V-belt should be stored in a cool & dry place with no direct sunlight. When stacked on shelves the stacks should be small enough to avoid excess weight on the bottom belts which may cause distortion. When stored in containers the container size & contents should be sufficiently limited to avoid distortion.

Don'ts:

Do not store the belts on floor unless a suitable container is provided. Belts may be exposed to moisture.

Do not store belts near windows which may permit exposure to sunlight or moisture. Do not store belts near radiators or heater.

Do not store belts in the vicinity of transformers & electrical motors. These devices may generate ozone. Do not store belts in heavy bent condition.

Methods of Storage:

The common method of storing the V-belts is to hang them in crescent shaped pegs or pin racks.

Long V-belt should be coiled for easy distortion free storage.

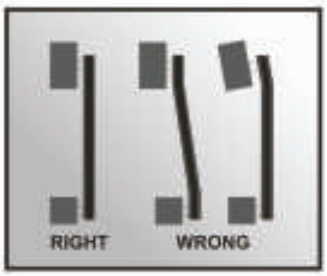
Variable speed belts are more sensitive to distortion. It is recommended that these belts should never be stored on pegs. These belts should be always stored on shelves.

Effects of Storage:

The shelf life of 6 years can be obtained if proper storage conditions are maintained i.e., ambient temperature not more than 30°C & relative humidity not more than 70%. If the storage temperature increases then the service expectancy from the belts gets reduced. Under rough estimates it can be said that for an increase of 20°C temperature above the standard temperature range the belt life will be reduced by 50%.

It is always recommended that if a drive is out of use for a prolonged period, then the belt tension should be relaxed & the necessary tension be provided when the drive is to be restarted.

DO'S AND DON'TS



1. Ensure perfect alignment of pulleys.

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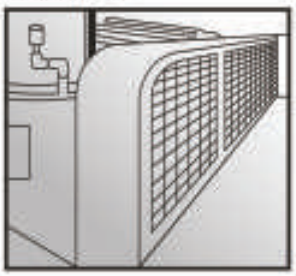

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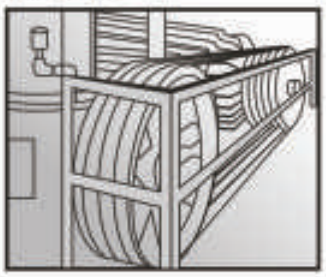
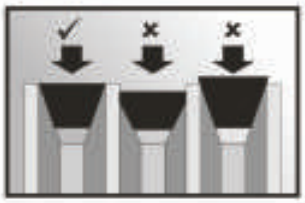


2. The grooves should be free from burrs, sharp edges, rust, oil and grease. The guard should be provided to prevent this.

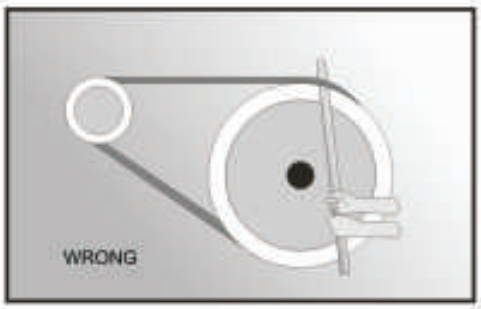
3. Belts used in multiple drive should be of same manufacturer.

4. For multiple drive, use as many V-belts required for better service life and low maintenance cost. For best results one should use Matched Set belts. The whole set should be replaced if one belt fails. PIX belts should not be lubricated.



5. A change in ride out indicates uneven belt wear or worn sheaves. Change belt/sheave with new set.

6. Pulley should be checked whether it is manufactured as per international standards or not, and should also be checked for worn out sheaves. Bearings should also be checked for lubrication.



7. Do not pry or roll V-belts into the pulley grooves, if done so, the belts get damaged internally as a result of which belt life is affected. Use drive take-up and installation allowances to enable the belts easily mounted on the pulleys.

8. If the groove angle is too large, the canvas cover is quickly worn out along the lower side walls and if possible, the upper canvas gets worn out.

PLEASE REMEMBER

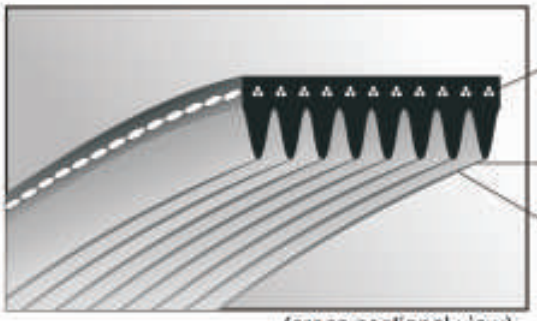
1. Belt dressing should never be done.
2. Proper ventilation of belts driving unit is a must.
3. Tensioning should be checked from time to time.

Trouble shooting (V-Belts)

PROBLEMS	CAUSES	REMEDIES
Belt Turn Over in Pulleys	a) Poor drive alignment b) Incorrect pulley groove or excessive wear in grooves c) Excessive belt flap d) Low belt tension e) Worn out belt f) Ingress of foreign material	a) Realign b) Modify or replace pulleys. c) Use an inside idler on slack side d) Re-tension e) Replace with new belts f) Use more effective drive guard
Excessive Wear	a) Incorrect pulley section b) Excessive wear in pulley groove c) Poor drive alignment d) Small pulley diameter below the recommended value e) Belt catching or protruding parts	a) Modify or replace pulleys b) Modify or replace pulleys c) Re-align d) Re-design using correct pulley diameter e) Remove protrusion or move drive away
Excessive Noise	a) Poor drive alignment b) Incorrect belt tension c) Overloaded drive d) Unbalanced pulleys	a) Re-align b) Re-tension c) Check drive details & re-design d) Re-design, if necessary balance the pulleys
Belt Swelling or Softening	Contamination by oil or other chemicals	Protect drive from contamination. Clean pulley grooves with petrol or alcohol before fitting new belts.
Un-usual Belt Stretch	a) Worn out badly damaged grooves b) Used belts with new belts on drive c) Belts from different manufacturers	a) Modify or replace pulleys b) Replace with completely new set of belts c) For a set, belts must be from one manufacturer
Belt Breaking after Fitment	a) Forcing belt over pulley when fitting, damaging cord & cover. b) Ingress of a foreign material c) Insufficient belts or wrong section for drive d) Drive stalled	a) Reduce drive centre distance to fit the belt b) Fit an effective guard c) Check drive design & fit correct no. or section of belts d) Ascertain cause & rectify
Cuts & Splits in the base	a) Outside idler pulley in use b) Pulley diameter too small c) Ambient temperature too high d) Ambient temperature too low e) Abnormal belt slip f) Contamination by oil or chemical	a) Replace with inside idler pulley on the slack side of drive b) Re-design using recommended minimum pulley pitch diameters c) Ensure good ventilation and protect the belts from direct heat. Contact us for better solution. d) Warm surrounding drive area e) Check drive design to ensure correct no. of belts, redesign if necessary, check drive tension f) Protect drive from contamination
Severe Belt Vibration	a) Drive has sufficient belts b) Centre distance more than recommended c) High shock loading d) Too low belt tension e) Un-balanded pulleys	a) Check drive design & modify if necessary b) Shorten centre distance, use an inside idler in the drive slack side c) Use Banded belts or an inside idler pulley in the slack side d) Re-tension the belt e) Balance the pulleys
Cannot be retensioned	a) Insufficient allowance for stretch in drive design b) Excessive stretch caused by insufficient belts or wrong belt section for drive c) Incorrect belt length d) Belt from different manufacturers used on the same drive	a) Get sufficient allowance for take-up b) Review drive design and modify if necessary c) Use belt of proper length d) For use in a set, belts must be from same manufacturer

Ribbed Belts (RMA/MPTA IP-26)

V-ribbed belts, also termed as Poly V-belts, can be described as flat cord-reinforced transmissions belts with length wise running triangular-shaped ribs with a top angle of 40°. This construction leads to good support for all cords in the reinforcement and therefore an even load distribution is achieved.



(cross sectional view)

Applications:

The smallest profile PH is used in miniature drives and the next larger PJ in household equipment drives. The profile PK is mainly used in automotive applications and also used in industrial applications, while the larger profiles PL and PM are used in industrial and agricultural applications.

The applications include:

House Keeping Electrical Appliances:

Dryers, Health keeping equipments.

Work Tools:

Harvester combines, Power driven sprayers and Engines for work tools.

Machine Tools:

N C lathes, Milling machines, Drilling machines and Grinding machines.

Industrial Machines:

High speed Printing Machines, Flour Grinders, Agitators, Air blowers, Generators, P U Compressors.

Others:

Broadcasting Equipment Drives & Hovercrafts.

Size Designation:

Size: 550 J 8

550	J	8
55" Effective Length, Le	J Section	No. of Ribs

Size: 10 PJ 1397

10	PJ	1397
No. of Ribs	PJ Section	1397 mm Effective Length, Le

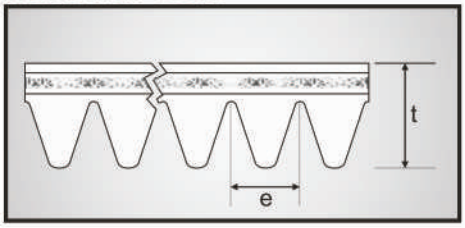
Characteristics:

- Good flexibility with high power carrying capacity per unit width.
- Low stretch
- Temperature up to +100°C
- Speed ratios over 1 : 30 are possible
- High maximum belt speed up to 50m/s.
- Only five sections cover the large power range from 0.1 kW up to more than 600 kW.
- Combines the advantages of flat belts with those of V-belts.
- Antistatic, Oil and Heat resistant
- ATEX certified FRAS belts are also available

Note: All PIX Ribbed Belts are Noise Free.

Standard Product Range

PIX-X'ceed®
Industrial Belts



Range:

Section	Belt Thickness (mm) t	Rib Pitch (mm) e	Recommended Min Pulley Diameter (mm)	Range (mm)		
				No. of Ribs	Effective Length (mm)	
					Min	Max
PH	2.9	1.60	13	2 to 280	280	5080
PJ	3.8	2.34	20	2 to 220	280	5080
PK	5.8	3.56	50	2 to 145	280	5080
PL	7.6	4.70	75	2 to 96	280	5080
PM	13.3	9.40	180	2 to 45	280	5080

PIX-X'ceed® FORCE
Automotive Belts

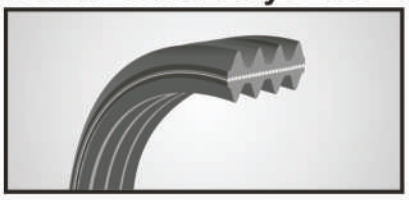
Range:

Section	Belt Thickness (mm) t	Rib Pitch (mm) e	Recommended Min Pulley Diameter (mm)	Range (mm)		
				No. of Ribs	Effective Length (mm)	
					Min	Max
PK	4.5	3.56	50	2 to 145	280	5080
PK*	4.8	3.56	50	2 to 145	280	5080

* In EPDM construction.

SPECIAL CONSTRUCTION BELTS

PIX-X'ceed® DS
Double Sided Poly Belts



Range:

Section	No. of Ribs	Size (Effective Length)	
		Min (mm)	Max (mm)
DPK	2 to 13	1195	3105
DPL	2 to 11	1200	3105

- Absolutely flexible
- Used on drive with pulleys rotating in both clockwise and anticlockwise directions
- Transmits the power from both the sides.

PIX-X'ceed® EL
Elasticated Belt (PJ)

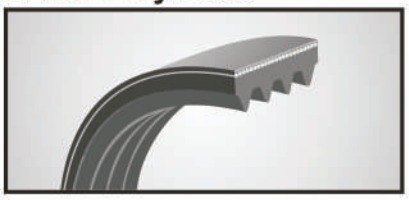
Range:

Section	No. of Ribs	Size	
		Min (mm)	Max (mm)
EL nPJ	2 to 20	600	3105

Specially designed poly belts of PJ section for washing machines. These belts are with elastic properties which are useful in certain applications like washing machines.

Construction:
Top Layer: Transversely aligned fibres filled CR
Tension Member: Treated nylon cord
Base Rubber: Special CR compound

PIX-X'ceed®
EPDM Poly Belts



- Working Temperature up to 130ºC
- Abrasion & Flex cracking resistance is very high
- Longer service life as compared to regular
- Dimensional stability is good
- Higher power transmission

Applications: Automobiles, High Speed Engines

Drive Design Procedure for Ribbed Belts

This Design Manual should be used for industrial drive calculation with two standard pulleys only. Please contact us to know about more complex drive designs.

STEP 1

Application Data

1. Type of machine to be driven
2. Nominal Power (kW), P
3. Type & nominal speed of motor
4. Driven Shaft speed
5. Duty cycle category
6. Approximate centre distance

STEP 2

Determine the service factor & the design power

1. To determine the service factor (K) refer table 30 on page no.87
2. Design power : Pd = P x K

STEP 3

Select the Ribbed Belt Section

Refer to the cross section selection chart IV on page 87

STEP 4

Select the effective diameter of the small pulley (de)

Refer table 31 on page 89

STEP 5

Determine the speed ratio

$S_R = R / r$

R = speed of faster shaft

r = speed of slower shaft

STEP 6

Calculate the Large pulley effective diameter (De)

dp = de + (2 x h), for h refer page 89

$Dp = dp \times S_R$

De = Dp - (2 x h)

Select the nearest pulley diameter from table 32 on page 90

Dp = Pitch Diameter of large pulley in mm

STEP 7

Calculate the belt linear speed

$$v = \frac{\pi \times dp \times n}{60000} \text{ m/s}$$

where,

dp: Pitch Diameter of smaller pulley in mm

n: Speed of faster shaft (rpm)

STEP 8

Calculate the effective belt length

$$Le = 2C + \left[\frac{\pi}{2} \times (De+de)\right] + \frac{(De-de)^2}{4C}$$

STEP 9

Calculate the centre distance corresponding to the standard effective length

$$C = \frac{X}{4} + \left[\frac{1}{2} \times \sqrt{\frac{X^2}{4} - \frac{(De-de)^2}{2}}\right]$$

$$\text{where } X = Le - \left[\frac{\pi}{2} \times (De+de)\right]$$

STEP 10

Calculate the number of belt ribs

1. Determine the length correction factor, Cl
2. Determine the arc of contact on the small pulley

$$a = 180 - \left[\frac{60 \times (De - de)}{C}\right]$$

3. Determine the arc of contact correction factor, Ca
4. Determine the speed ratio correction factor, Cr
5. Determine the basic power rating per rib (BPR)
   (Please refer appropriate tables for BPR)
6. Calculate the corrected power rating per rib (CPR)
   CPR = (BPR + Cr) x Cl x Ca
7. Calculate the number of belt ribs

$$\text{Number} = \frac{\text{Design power}}{\text{CPR}}$$

(If the no. of Ribs comes in fraction, use next whole no.)

Drive Design Example for Ribbed Belts

This Design Manual should be used for industrial drive calculation with two standard pulleys only. Please contact us to know about more complex drive designs.

STEP 1

Application Data

1. Type of driven machine: Printing Machine
2. Nominal Power P: 20 kW
3. Type & nominal speed of motor: DC Motor,1450 rpm
4. Driven Shaft speed: 884 rpm
5. Duty cycle category: Continuous, 24 hrs / day
6. Approximate centre distance: 500 mm

STEP 2

Determine the service factor & the design power

1. To determine the service factor (K) refer table 30 on Page no. 87 K=1.5
2. Design power: Pd = P x K
   Pd = 20 x 1.5
   Pd = 30 kW

STEP 3

Select Ribbed Belt Section

Section selected from the chart IV on page 87 is PL (Pd=30 kW, n=1450)

STEP 4

Select the effective diameter of the small pulley (de)

Refer to table 31 on page 89 de = 140 mm

STEP 5

Determine the speed ratio

$S_R = n/N$ $S_R = 1450 / 884$

n = speed of faster shaft $S_R = 1.64$

N = speed of slower shaft

STEP 6

Calculate the large pulley effective diameter (De)

dp = de + (2 x h) dp = 140 + (2 x 2.3)

for h refer Page no. 89 dp = 144.6 mm

Dp = dp x S_R Dp = 144.6 x 1.64

Dp = 237.14 mm

De = Dp - (2 x h) De = 237.14 - (2 x 2.3)

De = 232.54 mm

Select the nearest pulley diameter from table 32 on page no. 90

Recommended standard pulley diameter De = 236 mm

STEP 7

Calculate the belt linear speed

$$V = \frac{\pi \times dp \times n}{60000} \text{ m/s}$$

V = 3.14 x 144.60 x 1450 / 60000

V = 10.97 m/s

STEP 8

Calculate the effective belt length

$$Le = 2C + \frac{\pi}{2} x (De+de) + \frac{(De-de)^2}{4C}$$

$$Le = 2 \times 500 + \left[1.57 (236+140)\right] + \frac{(236 - 140)^2}{4 \times 500}$$

Le = 1594.92 mm

Standard effective length, Le = 1595 mm

STEP 9

Calculate the centre distance corresponding to the standard effective length

$$C = \frac{X}{4} + \left[\frac{1}{2} x \sqrt{\frac{X^2}{4} - \frac{(De-de)^2}{2}}\right]$$

where $X = Le - \left[\frac{\pi}{2} x (De+de)\right]$

X = 1595 - [1.57 x (236 +140)]

X = 1004.68

$$C = \frac{1004.68}{4} + \left[0.5 \times \sqrt{\frac{(1004.68)^2}{4} - \frac{(236-140)^2}{2}}\right]$$

C = 500 mm

STEP 10

Calculate the number of ribs

1. Determine the length correction factor from table 43, page no. 96
C l = 0.95

2. Determine the arc of contact on the small pulley

$$a = 180 - \left[\frac{60 \times (De - de)}{C}\right]$$

$$a = 180 - \left[\frac{60 (236 - 140)}{500}\right]$$

a = 168.50°

3. Determine the arc of contact correction factor from table 44, page no. 96 Ca = 0.96

4. Determine the speed ratio correction factor from table 42, page no. 96 Cr = 0.120

5. Determine the basic power rating per rib (BPR) from table 41, page no. 95 = 2.291 kW

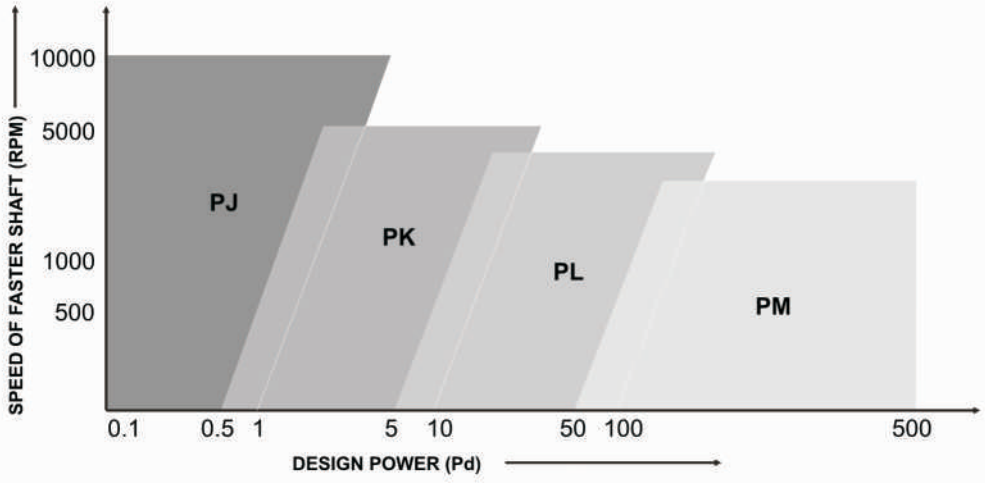
6. Calculate the corrected power rating per rib (CPR)
CPR = (BPR+Cr) x Cl x Ca = (2.291+0.12) x 0.95 x 0.96
CPR = 2.199 kW / rib

7. Calculate the number of belt ribs
Number = Design power / Corrected Power Rating
= 30 / 2.199 = 13.64, Standard no. of ribs = 14

Table 30: Service Factor Selection

Motor Class / Driven Machine	Class A D.C.Motors Shunt wound A.C. Motors Normal Torque Synchronous or Asynchronous DC Brushless Motors IC Engines Speed > 700 rpm Turbines			Class B DC Motors Compound & Series wound AC Motors High Torque Vector Control Reluctance motors IC engines single cylinder Speed < 700 rpm Line shafts, clutches		
DUTY CYCLE CLASS	**< 10H**	**10 - 16H**	**> 16 H**	**< 10 H**	**10 - 16 H**	**> 16 H**
CLASS 1 : LOW EVEN TORQUE Vacuum Cleaners, liquid agitators, belt-conveyors, blowers, centrifugal fans, light conveyors	1.0	1.1	1.2	1.1	1.2	1.3
CLASS 2 : MEDIUM EVEN TORQUE Food agitators, mixers, laundry machines, generators, machine tools, blenders	1.1	1.2	1.3	1.2	1.3	1.4
CLASS 3 : TORQUE Bakery & woodwork m/c, brick m/c, rotary-compressors, pumps, heavy duty conveyors, exciters, printing m/c, spraying m/c, axial fan	1.2	1.3	1.4	1.3	1.4	1.5
CLASS 4 : VERY UNEVEN TORQUE Hammer mills, cement works, piston compr-essors, bucket elevators, hoists, flour mills, piston pumps, winches, paper mills	1.4	1.5	1.6	1.5	1.6	1.8
CLASS 5 : VERY UNEVEN TORQUE WITH OVERLOADS Crushers, grinder m/c, ball grinders, dredging m/c, agricultural m/c, industrial rubber machinery (Calenders, extruders, mixers)	1.6	1.7	1.8	1.7	1.8	2.0

Chart IV - Cross Section Selection



Pulley Groove Dimensions - Millimeters

Cross Section	Minimum Recommended Outer Diameter	Groove Angle ± 0.25 Degrees	S_g	r_t +0.15 -0.00	2a	r_b	h_g Minimum	d_B ±0.001	S_e
H / PH	13	40	1.60 ± 0.03	0.15	0.58	0.30 +0.00 -0.15	1.04	1.00	2.0 +0.5 -0.3
J / PJ	20	40	2.34 ± 0.03	0.20	0.76	0.40 +0.00 -0.15	1.77	1.50	3.0 +0.8 -0.4
K / PK	40	40	3.56 ± 0.05	0.25	0.96	0.50 +0.00 -0.15	3.16	3.00	3.0 +1.5 -0.0
L / PL	75	40	4.70 ± 0.05	0.40	1.54	0.40 +0.00 -0.15	4.63	4.00	10.0 +2.0 -1.0
M / PM	180	40	9.40 ± 0.08	0.75	2.88	0.75 +0.00 -0.25	9.74	7.00	13.0 +3.0 -1.0

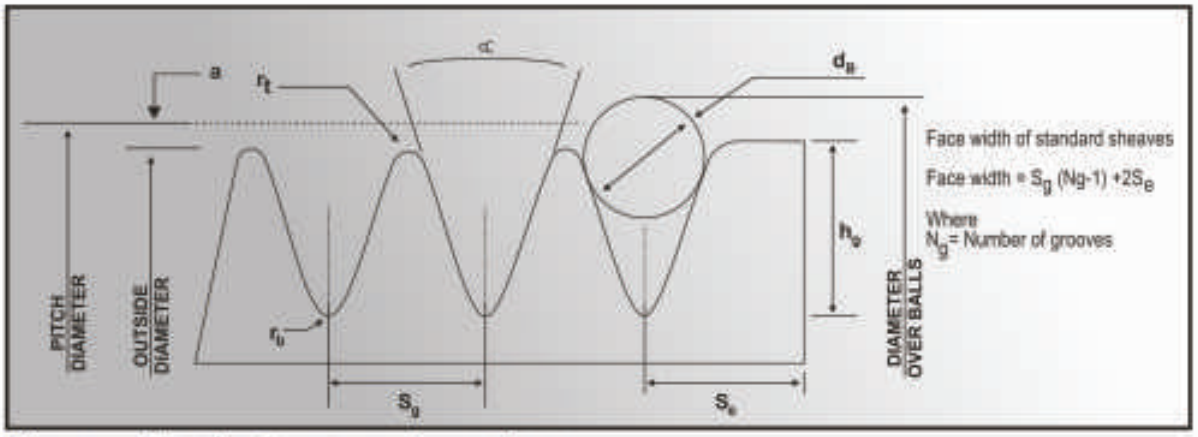


Figure : Standard groove dimensions

Definition of Small Pulley Effective Diameter (mm)

Pitch Diameter (mm) = Effective Diameter (mm) + (2 x h)

Belt Section	PJ	PK	PL	PM
h (mm)	1.05	1.6	2.3	2.6

Table 31
Determination of Small Pulley effective diameter (de)

	Design Power (kW)															
n(rpm)	0.25	0.5	1	2	4	7	10	20	30	50	75	100	125	150	175	200
100	45	60	75	95	125	160	180	224	250	315	355	400	450	500	500	500
300	40	50	63	80	106	125	140	180	212	250	280	315	355	355	400	400
500	35	45	60	75	95	112	125	160	180	224	250	280	315	315	355	355
750	35	45	56	67	85	106	118	150	170	200	224	250	280	280	315	315
1000	30	40	50	63	80	95	106	132	150	190	200	224	250	250	280	280
1500	30	35	45	60	71	85	95	125	140	170	180	200	212	224	236	250
2000	30	35	45	56	67	80	90	112	125	150	170	180	200	212	224	224
3000	25	30	40	50	60	71	80	100	112	132	150	160	170	180	190	200
4000	25	30	35	45	56	67	71	90	100	118	132	140	150	160	170	180
5000	20	30	35	40	50	60	67	80	95	106	125	132	140	150		
6000	20	25	30	40	50	56	63	75	85	100	112	125				
7000	20	25	30	40	45	56	60	75	85	95	106	118				
8000	20	25	30	35	45	50	56	71	80	90	100	112				
9000	20	20	30	35	40	50	56	67	75	85	95					
10000	20	20	30	35	40	45	50	63	75	80	90					

Table 32: Standard Pulleys

Effective Diameter (mm)	SECTION PJ no. of ribs 4,8,12,16,20	SECTION PK no. of ribs 6,8,10,12,16,20	SECTION PL no. of ribs 6,8,10,12,16,20	SECTION PM no. of ribs 6,10,16,20
20	●			
25	●			
30	●			
35	●			
40	●			
45	●			
50	●			
56	●	●		
60	●	●		
63	●	●		
67	●	●		
71	●	●		
75	●	●	●	
80	●	●	●	
85	●	●	●	
90	●	●	●	
95	●	●	●	
100	●	●	●	
106	●	●	●	
112	●	●	●	
118	●	●	●	
125	●	●	●	
132	●	●	●	
140	●	●	●	
150		●	●	
160	●	●	●	
170		●	●	
180	●	●	●	●
190		●	●	●
200	●	●	●	●
212		●	●	●
224	●	●	●	●
236		●	●	
250	●	●	●	●
280	●	●	●	●
315	●	●	●	●
355	●	●	●	●
400	●	●	●	●
450		●	●	●
500		●	●	●
560				●
630			●	●
710				●
800			●	

Table 33:
Section PJ: Basic Power Rating Per Rib (kW) for Small Pulley Effective Diameter (mm)

speed of the small pulley rpm

de	20	25	30	32	35	40	45	50	56	60	63	67	71	75	80	85	90	95	100	112	118	125	132	140	160	180	200	224	250	280	315	355	400
100	0.048	0.007	0.010	0.010	0.011	0.014	0.015	0.017	0.021	0.023	0.024	0.025	0.027	0.030	0.032	0.034	0.037	0.038	0.038	0.045	0.048	0.051	0.054	0.058	0.067	0.074	0.084	0.094	0.104	0.119	0.110	0.151	0.170
200	0.010	0.014	0.017	0.020	0.023	0.027	0.031	0.035	0.041	0.045	0.147	0.251	0.254	0.058	0.062	0.067	0.070	0.075	0.080	0.091	0.095	0.101	0.107	0.114	0.131	0.147	0.165	0.182	0.204	0.232	0.240	0.294	0.330
300	0.013	0.021	0.025	0.030	0.034	0.040	0.045	0.054	0.061	0.065	0.071	0.075	0.080	0.087	0.091	0.100	0.105	0.111	0.118	0.134	0.141	0.151	0.158	0.170	0.195	0.220	0.244	0.271	0.305	0.341	0.370	0.433	0.487
400	0.017	0.025	0.034	0.039	0.045	0.054	0.062	0.070	0.081	0.087	0.094	0.100	0.102	0.114	0.123	0.131	0.114	0.144	0.157	0.177	0.187	0.197	0.210	0.221	0.254	0.288	0.321	0.360	0.400	0.450	0.500	0.569	0.636
500	0.022	0.034	0.042	0.048	0.055	0.066	0.076	0.087	0.100	0.110	0.114	0.123	0.132	0.141	0.152	0.161	0.172	0.181	0.194	0.219	0.231	0.244	0.260	0.274	0.314	0.357	0.395	0.494	0.494	0.555	0.620	0.701	0.785
560	0.023	0.037	0.050	0.054	0.061	0.074	0.085	0.098	0.112	0.122	0.129	0.139	0.147	0.155	0.168	0.180	0.192	0.201	0.214	0.244	0.257	0.272	0.287	0.304	0.350	0.397	0.441	0.525	0.552	0.618	0.690	0.780	0.872
600	0.026	0.042	0.051	0.058	0.065	0.079	0.090	0.104	0.120	0.312	0.137	0.147	0.158	0.165	0.180	0.191	0.205	0.218	0.230	0.260	0.272	0.291	0.308	0.328	0.374	0.421	0.471	0.610	0.590	0.660	0.730	0.831	0.931
700	0.030	0.047	0.062	0.068	0.076	0.092	0.106	0.121	0.138	0.150	0.160	0.171	0.183	0.195	0.207	0.220	0.235	0.253	0.267	0.300	0.318	0.337	0.358	0.380	0.434	0.491	0.544	0.628	0.681	0.761	0.850	0.959	0.930
720	0.031	0.048	0.063	0.070	0.079	0.094	0.110	0.124	0.142	0.155	0.164	0.174	0.188	0.200	0.215	0.230	0.244	0.258	0.274	0.308	0.327	0.347	0.367	0.390	0.445	0.504	0.560	0.694	0.701	0.781	0.860	0.984	1.072
800	0.035	0.053	0.070	0.076	0.086	0.104	0.121	0.137	0.157	0.172	0.180	0.195	0.208	0.221	0.236	0.254	0.270	0.287	0.301	0.342	0.361	0.384	0.404	0.431	0.495	0.555	0.620	0.774	0.772	0.861	0.950	1.082	1.100
900	0.040	0.059	0.076	0.086	0.097	0.117	0.135	0.154	0.176	0.190	0.203	0.217	0.233	0.147	0.264	0.284	0.300	0.321	0.338	0.381	0.402	0.428	0.454	0.481	0.550	0.621	0.690	0.821	0.860	0.961	1.040	1.200	1.210
960	0.041	0.061	0.082	0.090	0.103	0.123	0.143	0.165	0.187	0.204	0.215	0.232	0.247	0.263	0.281	0.301	0.321	0.341	0.360	0.404	0.428	0.454	0.480	0.511	0.587	0.662	0.734	0.855	0.914	1.020	1.130	1.275	1.343
1000	0.043	0.064	0.086	0.095	0.106	0.128	0.150	0.170	0.195	0.212	0.223	0.240	0.257	0.273	0.292	0.312	0.331	0.353	0.371	0.422	0.445	0.474	0.501	0.531	0.612	0.685	0.764	1.008	0.950	1.058	1.170	1.321	1.420
1200	0.051	0.075	0.103	0.112	0.128	0.153	0.177	0.202	0.231	0.251	0.267	0.285	0.306	0.325	0.348	0.372	0.395	0.420	0.441	0.501	0.530	0.560	0.594	0.631	0.721	0.814	0.904	1.156	1.121	1.247	1.380	1.545	1.471
1400	0.060	0.089	0.119	0.130	0.148	0.177	0.205	0.234	0.268	0.290	0.307	0.330	0.353	0.372	0.404	0.430	0.457	0.485	0.514	0.578	0.610	0.650	0.685	0.730	0.834	0.937	1.040	1.187	1.285	1.426	1.560	1.754	1.711
1440	0.061	0.091	0.121	0.133	0.151	0.182	0.211	0.240	0.241	0.297	0.317	0.340	0.362	0.384	0.414	0.441	0.470	0.500	0.527	0.595	0.627	0.665	0.704	0.745	0.854	0.962	1.067	1.304	1.317	1.460	1.600	1.792	1.932
1600	0.065	0.100	0.134	0.146	0.167	0.200	0.233	0.265	0.304	0.330	0.350	0.374	0.400	0.425	0.458	0.488	0.520	0.550	0.581	0.655	0.691	0.734	0.779	0.821	0.942	1.058	0.170	1.441	1.445	1.596	1.760	1.943	1.972
1800	0.075	0.111	0.150	0.165	0.187	0.224	0.260	0.297	0.340	0.369	0.390	0.418	0.445	0.475	0.511	0.544	0.581	0.615	0.650	0.731	0.771	0.820	0.865	0.917	1.050	0.176	1.300	1.576	1.592	1.755	1.920	2.114	2.125
2000	0.082	0.124	0.165	0.180	0.207	0.246	0.287	0.327	0.375	0.405	0.431	0.461	0.491	0.523	0.564	0.600	0.641	0.679	0.717	0.807	0.850	0.901	0.954	1.010	1.151	0.290	0.421	1.702	1.734	1.902	2.070	2.260	2.292
2200	0.090	0.133	0.180	0.198	0.226	0.270	0.314	0.357	0.410	0.444	0.471	0.504	0.540	0.574	0.614	0.654	0.700	0.741	0.781	0.880	0.928	0.984	1.037	1.101	1.252	1.400	1.541	1.822	1.864	2.038	2.200	2.384	2.426
2400	0.096	0.145	0.193	0.215	0.245	0.293	0.340	0.387	0.444	0.482	0.511	0.547	0.584	0.622	0.665	0.710	0.758	0.803	0.847	0.951	1.004	1.064	1.123	1.187	1.352	1.507	1.654	1.932	1.988	2.160	2.300	2.480	2.526
2600	0.104	0.156	0.210	0.232	0.265	0.315	0.366	0.419	0.480	0.520	0.550	0.590	0.630	0.667	0.718	0.765	0.815	0.863	0.910	1.024	1.077	1.141	1.204	1.275	1.445	1.608	1.762	2.036	2.100	2.267	2.480	2.578	2.588
2800	0.111	0.166	0.225	0.247	0.282	0.337	0.394	0.448	0.514	0.556	0.587	0.632	0.674	0.716	0.768	0.820	0.872	0.923	0.971	1.093	1.151	1.217	1.284	1.359	1.537	1.704	1.860	2.075	2.200	2.359	2.510	2.585	2.608
2880	0.114	0.171	0.231	0.254	0.290	0.345	0.403	0.460	0.526	0.572	0.605	0.647	0.692	0.735	0.788	0.840	0.892	0.947	0.995	1.120	1.180	1.247	1.314	1.391	1.573	1.745	1.902	2.130	2.237	2.391	2.540	2.590	2.585
3000	0.118	0.180	0.241	0.265	0.301	0.360	0.420	0.477	0.547	0.594	0.627	0.671	0.717	0.763	0.819	0.874	0.928	0.981	1.035	1.160	1.220	1.291	1.361	1.440	1.624	1.798	1.957	2.215	2.288	2.390	2.540	2.588	
3200	0.125	0.190	0.253	0.281	0.320	0.383	0.444	0.507	0.580	0.630	0.665	0.713	0.763	0.808	0.865	0.924	0.981	1.040	1.093	1.228	1.292	1.365	1.437	1.518	1.710	1.886	2.071	2.287	2.364	2.432	2.550	2.554	
3400	0.132	0.201	0.270	0.297	0.337	0.405	0.470	0.535	0.614	0.665	0.704	0.754	0.804	0.855	0.916	0.974	1.037	1.097	1.153	1.293	1.360	1.434	1.510	1.594	1.790	1.969	2.124	2.354	2.425	2.491	2.520		
3600	0.140	0.211	0.284	0.314	0.374	0.427	0.495	0.554	0.646	0.700	0.740	0.794	0.845	0.896	0.965	1.025	1.090	1.153	1.213	1.356	1.424	1.504	1.580	1.667	1.865	2.045	2.201	2.407	2.474	2.528			
3800	0.146	0.223	0.300	0.330	0.392	0.448	0.521	0.595	0.680	0.735	0.778	0.833	0.888	0.944	1.011	1.077	1.143	1.208	1.275	1.418	1.490	1.571	1.650	1.737	1.937	2.115	2.266	2.448	2.504	2.547			
4000	0.154	0.234	0.314	0.345	0.410	0.470	0.545	0.621	0.712	0.770	0.815	0.870	0.931	0.977	1.056	1.127	1.195	1.261	1.325	1.478	1.554	1.634	1.714	1.804	2.006	2.180	2.324	2.478	2.520	2.544			
4200	0.160	0.245	0.328	0.360	0.426	0.491	0.570	0.651	0.743	0.804	0.852	0.911	0.972	1.031	1.101	1.175	1.245	1.314	1.381	1.538	1.611	1.695	1.778	1.868	2.067	2.235	2.371	2.494	2.522	2.517			
4400	0.167	0.252	0.343	0.376	0.437	0.512	0.595	0.677	0.775	0.840	0.887	0.950	1.012	1.073	1.148	1.221	1.295	1.366	1.435	1.595	1.670	1.757	1.840	1.928	2.127	2.290	2.410	2.498	2.502				
4500	0.170	0.260	0.347	0.384	0.446	0.522	0.607	0.692	0.790	0.856	0.905	0.968	1.032	1.094	1.171	1.245	1.318	1.391	1.461	1.623	1.702	1.784	1.867	1.957	2.155	2.313	2.425	2.498	2.488				
4600	0.174	0.263	0.355	0.390	0.463	0.633	0.620	0.705	0.807	0.874	0.923	0.987	1.052	1.114	1.195	1.267	1.341	1.415	1.485	1.650	1.727	1.814	1.897	1.987	2.181	2.334	2.440	2.487					
4800	0.179	0.274	0.370	0.404	0.480	0.554	0.644	0.732	0.838	0.906	0.957	1.021	1.091	1.156	1.236	1.314	1.390	1.465	1.538	1.704	1.781	1.869	1.951	2.038	2.228	2.370	2.457	2.463					
5000	0.185	0.283	0.382	0.422	0.498	0.574	0.667	0.761	0.869	0.940	0.993	1.062	1.130	1.194	1.277	1.357	1.437	1.511	1.587	1.755	1.834	1.922	2.001	2.088	2.269	2.400	2.465						
5200	0.194	0.297	0.397	0.437	0.514	0.595	0.691	0.787	0.897	0.972	1.027	1.097	1.167	1.235	1.321	1.402	1.483	1.560	1.635	1.804	1.881	1.972	2.050	2.134	2.308	2.420	2.465						
5400	0.201	0.306	0.411	0.452	0.522	0.616	0.715	0.814	0.927	1.005	1.061	1.134	1.204	1.276	1.362	1.442	1.525	1.605	1.681	1.851	1.930	2.014	2.095	2.175	2.336	2.434	2.451						
5500	0.204	0.311	0.419	0.460	0.532	0.626	0.727	0.826	0.943	1.020	1.077	1.150	1.224	1.294	1.381	1.465	1.547	1.627	1.702	1.874	1.951	2.035	2.114	2.195	2.352	2.437	2.441						
5600	0.207	0.314	0.426	0.467	0.548	0.636	0.738	0.840	0.957	1.036	1.094	1.167	1.242	1.314	1.402	1.485	1.569	1.618	1.725	1.896	1.974	2.058	2.136	2.214	2.365	2.437	2.425						
5800	0.211	0.325	0.438	0.482	0.565	0.657	0.764	0.867	0.987	1.067	1.125	1.202	1.277	1.350	1.441	1.524	1.611	1.690	1.768	1.937	2.015	2.098	2.173	2.247	2.381	2.234							
6000	0.218	0.337	0.452	0.497	0.581	0.675	0.784	0.892	1.015	1.098	1.159	1.237	1.314	1.387	1.479	1.565	1.651	1.732	1.808	1.976	2.054	2.134	2.200	2.277	2.395	2.420							
6200	0.224	0.344	0.464	0.512	0.597	0.695	0.807	0.918	1.045	1.128	1.190	1.270	1.347	1.425	1.516	1.605	1.690	1.771	1.847	2.015	2.090	2.169	2.237	2.300	2.400	2.397							
6400	0.232	0.356	0.477	0.526	0.615	0.716	0.830	0.941	1.074	1.158	1.222	1.301	1.383	1.460	1.551	1.642	1.727	1.808	1.885	2.051	2.124	2.197	2.263	2.321	2.398								
6600	0.239	0.366	0.491	0.542	0.632	0.735	0.853	0.967	1.100	1.179	1.251	1.335	1.412	1.493	1.588	1.677	1.764	1.846	1.922	2.084	2.155	2.225	2.284	2.337	2.390								
6800	0.245	0.375	0.505	0.555	0.647	0.755	0.875	0.992	1.129	1.217	1.282	1.365	1.448	1.525	1.623	1.713	1.797	1.880	1.954	2.111	2.181	2.247	2.302	2.344	2.375								
7000	0.251	0.386	0.518	0.570	0.664	0.770	0.897	1.015	1.156	1.246	1.310	1.397	1.480	1.560	1.654	1.747	1.833	1.913	1.987	2.143	2.205	2.267	2.314	2.351	2.350								
7200	0.255	0.396	0.531	0.584	0.680	0.792	0.919	1.040	1.183	1.275	1.341	1.428	1.512	1.592	1.687	1.779	1.863	1.943	2.017	2.167	2.225	2.281	2.323	2.351									
7400	0.264	0.405	0.544	0.597	0.695	0.812	0.940	1.064	1.208	1.302	1.370	1.456	1.541	1.621	1.718	1.810	1.893	1.974	2.044	2.187	2.245	2.294	2.327	2.344									
7600	0.269	0.412	0.557	0.612	0.700	0.830	0.960	1.087	1.235	1.328	1.397	1.484	1.571	1.650	1.747	1.840	1.922	2.001	2.070	2.208	2.256	2.301	2.328	2.334									
7800	0.274	0.423	0.570	0.627	0.711	0.847	0.982	1.110	1.260	1.355	1.425	1.512	1.600	1.681	1.776	1.867	1.950	2.027	2.095	2.224	2.270	2.305	2.321	2.315									
8000	0.281	0.433	0.581	0.640	0.725	0.866	1.001	1.134	1.285	1.382	1.452	1.542	1.627	1.710	1.804	1.895	1.977	2.051	2.115	2.234	2.275	2.304	2.311	2.294									
8200	0.282	0.442	0.594	0.654	0.742	0.885	1.022	1.157	1.310	1.406	1.477	1.568	1.655	1.737	1.833	1.921	2.001	2.071	2.134	2.244	2.280	2.300	2.297										
8400	0.291	0.451	0.606	0.666	0.755	0.903	1.042	1.179	1.334	1.432	1.502	1.594	1.680	1.763	1.858	1.945	2.022	2.092	2.151	2.250	2.280	2.091	2.277										
8600	0.300	0.460	0.618	0.681	0.772	0.920	1.061	1.200	1.355	1.456	1.527	1.618	1.705	1.788	1.881	1.964	2.041	2.111	2.164	2.254	2.277	2.276	2.251										
8800	0.302	0.470	0.630	0.694	0.786	0.937	1.089	1.221	1.380	1.480	1.552	1.645	1.730	1.811	1.904	1.987	2.061	2.125	2.175	2.257	2.267	2.258											
9000	0.309	0.479	0.642	0.706	0.801	0.955	1.101	1.241	1.402	1.502	1.575	1.667	1.754	1.831	1.925	2.006	2.077	2.138	2.186	2.251	2.257	2.235											
9200	0.314	0.488	0.653	0.720	0.814	0.972	1.120	1.264	1.424	1.525	1.598	1.690	1.775	1.856	1.944	2.023	2.094	2.150	2.192	2.245	2.240												
9400	0.320	0.496	0.666	0.733	0.830	0.987	1.140	1.283	1.445	1.547	1.620	1.713	1.797	1.876	1.964	2.041	2.107	2.160	2.198	2.235	2.220												
9600	0.328	0.504	0.677	0.745	0.844	1.004	1.156	1.302	1.678	1.568	1.642	1.733	1.818	1.892	1.981	2.055	2.118	2.166	2.201	2.222	2.197												
9800	0.331	0.515	0.690	0.757	0.857	1.022	1.170	1.321	1.488	1.490	1.661	1.753	1.837	1.912	1.998	2.070	2.127	2.170	2.200	2.204													
10000	0.339	0.523	0.700	0.770	0.872	1.037	1.193	1.341	1.507	1.610	1.681	1.773	1.852	1.930	2.011	2.080	2.135	2.172	2.197	2.181													

PIX

Table 34:
SECTION PJ:Speed Ratio Correction Factor (Cr)

speed of small pulley in rpm

Speed Ratio	1.00 to 1.01	1.02 to 1.04	1.05 to 1.09	1.10 to 1.16	1.17 to 1.26	1.27 to 1.40	1.41 to 1.65	above 1.66
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
560	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
700	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
720	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
800	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
900	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
960	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
1000	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
1200	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
1400	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
1440	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
1600	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02
1800	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02
2000	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
2200	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
2400	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02
2600	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02
2800	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.03
2880	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.03
3000	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.03
3200	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03
3400	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03
3600	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.03
3800	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04
4000	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04
4200	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04
4400	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.04
4500	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.04
4600	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.04
4800	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.05
5000	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.05
5200	0.00	0.01	0.01	0.02	0.03	0.04	0.04	0.05
5400	0.00	0.01	0.01	0.02	0.03	0.04	0.04	0.05
5500	0.00	0.01	0.01	0.02	0.03	0.04	0.04	0.05
5600	0.00	0.01	0.02	0.02	0.03	0.04	0.05	0.05
5800	0.00	0.01	0.02	0.02	0.03	0.04	0.05	0.06
6000	0.00	0.01	0.02	0.02	0.03	0.04	0.05	0.06
6200	0.00	0.01	0.02	0.03	0.03	0.04	0.05	0.06
6400	0.00	0.01	0.02	0.03	0.03	0.04	0.05	0.06
6600	0.00	0.01	0.02	0.03	0.04	0.04	0.05	0.06
6800	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.06
7000	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07
7200	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07
7400	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07
7400	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07
7600	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07
7800	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07
8000	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.08
8200	0.00	0.01	0.02	0.03	0.04	0.06	0.06	0.08
8400	0.00	0.01	0.02	0.03	0.05	0.06	0.07	0.08
8600	0.00	0.01	0.02	0.04	0.05	0.06	0.07	0.08
8800	0.00	0.01	0.02	0.04	0.05	0.06	0.07	0.08
9000	0.00	0.01	0.02	0.04	0.05	0.06	0.07	0.09
9200	0.00	0.01	0.02	0.04	0.05	0.06	0.07	0.09
9400	0.00	0.01	0.03	0.04	0.05	0.06	0.08	0.09
9600	0.00	0.01	0.03	0.04	0.05	0.07	0.08	0.09
9800	0.00	0.01	0.03	0.04	0.05	0.07	0.08	0.09
10000	0.00	0.01	0.03	0.04	0.05	0.07	0.08	0.10

Table 35:
Length Correction Factor (Cl)

Effective Length	Correction Factor
Up to 200	0.60
200 - 350	0.80
350 - 500	0.85
500 - 700	0.90
700 - 900	0.95
900 - 1200	1.00
1200 - 1500	1.05
1500 - 2000	1.10
2000 - 2500	1.15
above 2500	1.20

Table 36:
Arc of Contact Correction Factor (Ca)

Arc of Contact on Small Pulley	Correction Factor
100	0.72
110	0.76
120	0.80
130	0.84
140	0.88
150	0.91
160	0.94
170	0.97
180	1.00
190	1.02
200	1.05
210	1.07
220	1.09
230	1.11

Table 37:
Section PK: Basic Power Rating Per Rib (kW) for Small Pulley Effective Diameter (mm)

speed of the small pulley rpm	de	50	56	60	63	67	71	75	80	85	90	95	100	106	112	118	125	132	140	100	160	200	224	250	280	315	355	400	450	500	560	630
	100	0.022	0.031	0.034	0.037	0.041	0.047	0.051	0.057	0.064	0.068	0.074	0.080	0.087	0.094	0.101	0.107	0.114	0.125	0.144	0.167	0.191	0.215	0.244	0.275	0.314	0.354	0.401	0.454	0.504	0.567	0.636
	200	0.044	0.056	0.064	0.074	0.082	0.091	0.100	0.110	0.120	0.132	0.144	0.154	0.167	0.180	0.193	0.207	0.221	0.240	0.281	0.325	0.365	0.414	0.470	0.531	0.602	0.684	0.774	0.874	0.975	1.091	1.225
	300	0.065	0.084	0.094	0.104	0.120	0.132	0.145	0.160	0.175	0.192	0.210	0.225	0.244	0.262	0.282	0.304	0.324	0.351	0.411	0.475	0.535	0.610	0.689	0.778	0.881	1.002	1.134	1.280	1.424	1.597	1.794
	400	0.081	0.106	0.125	0.138	0.154	0.171	0.190	0.211	0.230	0.251	0.275	0.295	0.321	0.344	0.368	0.398	0.425	0.460	0.540	0.621	0.701	0.800	0.902	1.021	1.157	1.312	1.484	1.673	1.861	2.084	2.337
	500	0.100	0.132	0.154	0.170	0.190	0.211	0.231	0.258	0.284	0.310	0.334	0.361	0.391	0.424	0.455	0.490	0.525	0.567	0.665	0.765	0.866	0.985	1.112	1.255	1.425	1.612	1.825	2.054	2.281	2.550	2.850
	560	0.111	0.147	0.170	0.187	0.211	0.235	0.256	0.286	0.314	0.345	0.374	0.402	0.435	0.471	0.502	0.544	0.584	0.630	0.741	0.851	0.961	1.094	1.234	1.394	1.581	1.792	2.024	2.280	2.530	2.822	3.156
	600	0.118	0.153	0.181	0.200	0.225	0.250	0.275	0.305	0.335	0.366	0.398	0.428	0.465	0.501	0.538	0.581	0.621	0.670	0.791	0.908	1.025	1.167	1.314	1.488	1.685	1.910	2.157	2.427	2.691	3.000	3.351
	700	0.134	0.176	0.208	0.230	0.258	0.287	0.315	0.351	0.385	0.424	0.460	0.495	0.536	0.580	0.622	0.671	0.718	0.771	0.914	1.048	1.184	1.344	1.518	1.714	1.941	2.196	2.478	2.784	3.082	3.428	3.817
	720	0.138	0.184	0.212	0.235	0.265	0.294	0.325	0.361	0.408	0.434	0.472	0.506	0.551	0.594	0.636	0.687	0.737	0.794	0.934	1.077	1.214	1.380	1.558	1.761	1.992	2.254	2.541	2.855	3.158	3.511	3.905
	800	0.150	0.201	0.234	0.261	0.291	0.324	0.354	0.394	0.436	0.478	0.520	0.560	0.608	0.655	0.704	0.758	0.814	0.872	1.031	1.187	1.341	1.521	1.717	1.938	2.193	2.475	2.792	3.130	3.454	3.834	4.251
	900	0.166	0.224	0.261	0.285	0.324	0.361	0.395	0.444	0.489	0.534	0.578	0.624	0.677	0.731	0.784	0.845	0.908	0.976	1.152	1.324	1.494	1.696	1.911	2.157	2.437	2.751	3.092	3.462	3.811	4.214	4.651
	960	0.176	0.237	0.276	0.305	0.345	0.382	0.421	0.470	0.518	0.565	0.611	0.662	0.718	0.777	0.831	0.897	0.963	1.036	1.221	1.404	1.585	1.799	2.025	2.286	2.581	2.911	3.260	3.651	4.015	4.430	4.871
	1000	0.180	0.246	0.286	0.316	0.356	0.394	0.438	0.487	0.537	0.585	0.637	0.685	0.746	0.805	0.861	0.932	1.001	1.077	1.268	1.455	1.644	1.864	2.104	2.371	2.674	3.015	3.384	3.777	4.148	4.566	5.013
	1200	0.211	0.288	0.334	0.372	0.421	0.467	0.515	0.575	0.635	0.694	0.753	0.811	0.882	0.950	1.021	1.101	1.191	1.273	1.498	1.720	1.940	2.196	2.474	2.782	3.131	3.514	3.925	4.357	4.754	5.180	5.687
	1400	0.244	0.329	0.385	0.424	0.481	0.536	0.592	0.659	0.730	0.798	0.864	0.934	1.012	1.094	1.172	1.264	1.355	1.462	1.721	1.971	2.225	2.518	2.825	3.170	3.560	3.981	4.420	4.881	5.257	5.652	6.010
	1440	0.250	0.337	0.395	0.435	0.495	0.551	0.607	0.677	0.745	0.818	0.888	0.955	1.040	1.122	1.203	1.300	1.394	1.501	1.754	2.027	2.281	2.581	2.896	3.250	3.644	4.067	4.511	4.954	5.348	5.732	6.065
	1600	0.273	0.368	0.431	0.480	0.541	0.604	0.666	0.743	0.823	0.900	0.977	1.051	1.144	1.235	1.323	1.428	1.530	1.650	1.940	2.224	2.500	2.824	3.165	3.541	3.955	4.396	4.851	5.285	5.647	5.975	6.189
	1800	0.300	0.407	0.477	0.530	0.600	0.671	0.742	0.826	0.914	1.000	1.085	1.170	1.271	1.375	1.470	1.587	1.700	1.831	2.151	2.461	2.765	3.115	3.484	3.884	4.316	4.769	5.210	5.611	5.907	6.111	
	2000	0.329	0.447	0.525	0.582	0.660	0.737	0.814	0.907	1.004	1.098	1.191	1.285	1.394	1.506	1.613	1.742	1.865	2.008	2.356	2.690	3.020	3.396	3.781	4.199	4.643	5.082	5.497	5.830	6.023		
	2200	0.354	0.484	0.568	0.631	0.714	0.802	0.885	0.988	1.092	1.194	1.296	1.395	1.518	1.635	1.754	1.892	2.024	2.181	2.555	2.914	3.261	3.656	4.057	4.481	4.922	5.341	5.702	5.936			
	2400	0.381	0.520	0.611	0.681	0.774	0.864	0.954	1.063	1.178	1.286	1.396	1.506	1.637	1.765	1.892	2.038	2.184	2.347	2.745	3.124	3.489	3.901	4.311	4.734	5.158	5.532	5.811				
	2600	0.405	0.553	0.654	0.728	0.824	0.925	1.021	1.140	1.262	1.381	1.497	1.614	1.752	1.890	2.024	2.180	2.334	2.507	2.924	3.325	3.704	4.125	4.535	4.950	5.344	5.660	5.825				
	2800	0.431	0.590	0.696	0.776	0.881	0.984	1.088	1.216	1.345	1.470	1.594	1.718	1.864	2.012	2.155	2.320	2.481	2.665	3.101	3.517	3.902	4.328	4.734	5.131	5.477	5.711					
	2880	0.440	0.605	0.711	0.795	0.901	1.007	1.115	1.245	1.377	1.505	1.634	1.761	1.911	2.058	2.209	2.375	2.536	2.724	3.171	3.590	3.978	4.404	4.805	5.191	5.515	5.710					
	3000	0.454	0.625	0.738	0.822	0.934	1.043	1.154	1.287	1.425	1.558	1.691	1.822	1.977	2.130	2.280	2.451	2.624	2.814	3.270	3.690	4.087	4.511	4.906	5.287	5.555						
	3200	0.477	0.655	0.777	0.867	0.985	1.101	1.217	1.359	1.504	1.645	1.784	1.921	2.084	2.244	2.402	2.581	2.758	2.953	3.425	3.862	4.256	4.670	5.045	5.364	5.572						
	3400	0.500	0.690	0.817	0.910	1.034	1.158	1.280	1.430	1.581	1.728	1.872	2.017	2.187	2.354	2.518	2.705	2.891	3.094	3.575	4.015	4.406	4.808	5.151	5.415							
	3600	0.522	0.724	0.855	0.954	1.084	1.214	1.340	1.497	1.655	1.810	1.960	2.112	2.288	2.462	2.632	2.825	3.014	3.224	3.711	4.150	4.537	4.917	5.222	5.417							
	3800	0.543	0.754	0.891	0.995	1.131	1.266	1.400	1.566	1.728	1.890	2.045	2.202	2.385	2.565	2.741	2.941	3.134	3.347	3.841	4.279	4.651	5.003	5.256								
	4000	0.564	0.784	0.929	1.035	1.178	1.320	1.455	1.629	1.800	1.966	2.130	2.291	2.480	2.660	2.844	3.048	3.244	3.466	3.966	4.387	4.743	5.058	5.255								
	4200	0.584	0.812	0.962	1.075	1.224	1.370	1.515	1.691	1.866	2.041	2.210	2.376	2.570	2.756	2.942	3.150	3.350	3.567	4.064	4.481	4.813	5.086	5.211								
	4400	0.602	0.842	0.995	1.116	1.268	1.421	1.571	1.754	1.936	2.112	2.286	2.456	2.655	2.845	3.036	3.245	3.448	3.666	4.157	4.560	4.862	5.083									
	4500	0.612	0.854	1.016	1.135	1.292	1.445	1.598	1.784	1.966	2.147	2.325	2.497	2.697	2.893	3.082	3.294	3.495	3.714	4.201	4.591	4.877	5.066									
	4600	0.622	0.870	1.031	1.154	1.311	1.468	1.623	1.811	2.000	2.183	2.361	2.535	2.737	2.933	3.124	3.339	3.540	3.758	4.240	4.621	4.888	5.046									
	4800	0.640	0.897	1.063	1.190	1.352	1.516	1.677	1.870	2.064	2.250	2.431	2.610	2.817	3.015	3.207	3.422	3.624	3.841	4.308	4.662	4.891										
	5000	0.657	0.922	1.098	1.225	1.395	1.562	1.724	1.922	2.121	2.314	2.500	2.680	2.891	3.092	3.284	3.496	3.700	3.914	4.364	4.684	4.867										
	5200	0.675	0.947	1.127	1.260	1.434	1.605	1.774	1.977	2.180	2.375	2.564	2.748	2.960	3.162	3.355	3.571	3.768	3.975	4.407	4.691	4.818										
	5400	0.691	0.971	1.157	1.293	1.472	1.647	1.820	2.029	2.235	2.432	2.624	2.811	3.025	3.228	3.421	3.633	3.828	4.031	4.435	4.675											
	5500	0.697	0.987	1.171	1.310	1.491	1.666	1.844	2.053	2.261	2.461	2.655	2.841	3.054	3.260	3.451	3.661	3.854	4.054	4.444	4.664											
	5600	0.705	0.996	1.186	1.325	1.508	1.687	1.861	2.077	2.287	2.488	2.682	2.871	3.084	3.291	3.481	3.690	3.880	4.075	4.447	4.641											
	5800	0.720	1.017	1.212	1.354	1.544	1.727	1.904	2.123	2.337	2.542	2.737	2.925	3.141	3.343	3.535	3.737	3.924	4.108	4.447	4.585											
	6000	0.735	1.040	1.238	1.385	1.578	1.765	1.945	2.167	2.384	2.590	2.787	2.975	3.192	3.392	3.580	3.778	3.964	4.131	4.428												
	6200	0.748	1.060	1.264	1.414	1.610	1.800	1.985	2.211	2.425	2.634	2.834	3.024	3.237	3.436	3.620	3.812	3.981	4.142	4.386												
	6400	0.760	1.080	1.287	1.441	1.640	1.834	2.021	2.248	2.470	2.678	2.876	3.065	3.278	3.472	3.652	3.837	3.991	4.142	4.344												
	6600	0.770	1.100	1.311	1.465	1.668	1.864	2.055	2.288	2.508	2.718	2.917	3.104	3.314	3.503	3.673	3.852	4.001	4.132													
	6800	0.784	1.117	1.333	1.490	1.695	1.895	2.090	2.321	2.544	2.754	2.952	3.137	3.344	3.528	3.694	3.861	3.994	4.106													
	7000	0.791	1.134	1.352	1.515	1.721	1.924	2.120	2.353	2.574	2.785	2.981	3.166	3.365	3.546	3.705	3.857	3.979	4.072													
	7200	0.802	1.148	1.372	1.536	1.745	1.951	2.146	2.381	2.605	2.815	3.010	3.190	3.385	3.557	3.705	3.845	3.951	4.021													
	7400	0.810	1.163	1.390	1.555	1.770	1.974	2.175	2.406	2.631	2.838	3.031	3.208	3.396	3.561	3.701	3.825	3.911	3.961													
	7600	0.819	1.177	1.407	1.574	1.790	1.997	2.194	2.430	2.652	2.860	3.048	3.221	3.403	3.560	3.685	3.796	3.864														
	7800	0.826	1.190	1.422	1.591	1.808	2.017	2.217	2.452	2.674	2.877	3.064	3.228	3.403	3.550	3.664	3.755	3.804														
	8000	0.831	1.200	1.436	1.607	1.828	2.037	2.237	2.472	2.690	2.890	3.071	3.231	3.396	3.532	3.633	3.706															
	8200	0.836	1.211	1.445	1.621	1.841	2.051	2.252	2.485	2.702	2.897	3.074	3.227	3.385	3.507	3.590	3.646															
	8400	0.841	1.220	1.460	1.631	1.854	2.065	2.262	2.497	2.710	2.902	3.072	3.220	3.368	3.475	3.544	3.574															
	8600	0.845	1.227	1.470	1.644	1.866	2.078	2.277	2.506	2.717	2.901	3.067	3.205	3.339	3.431	3.482																
	8800	0.845	1.234	1.477	1.651	1.877	2.085	2.285	2.512	2.718	2.899	3.056	3.186	3.305	3.382	3.415																
	9000	0.850	1.236	1.485	1.661	1.884	2.091	2.291	2.515	2.717	2.891	3.038	3.156	3.264	3.325																	
	9200	0.850	1.242	1.490	1.664	1.890	2.095	2.292	2.514	2.708	2.877	3.017	3.127	3.217	3.258																	
	9400	0.850	1.245	1.491	1.670	1.891	2.102	2.291	2.510	2.696	2.858	2.988	3.088	3.161																		
	9600	0.847	1.246	1.495	1.671	1.894	2.102	2.290	2.503	2.685	2.835	2.956	3.042	3.087																		
	9800	0.849	1.248	1.498	1.675	1.896	2.099	2.286	2.492	2.668	2.813	2.918	2.994	3.028																		
	10000	0.846	1.248	1.496	1.673	1.892	2.095	2.278	2.472	2.646	2.779	2.875	2.934																			

PIX

Table 38:
SECTION PK:Speed Ratio Correction Factor (Cr)

speed of small pulley in rpm	Speed Ratio	1.00 to 1.03	1.04 to 1.08	1.09 to 1.15	1.16 to 1.24	1.25 to 1.48	1.49 to 2.00	2.01 to 2.75	above 2.76
	100	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
	200	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02
	300	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.02
	400	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.03
	500	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.04
	560	0.00	0.01	0.02	0.02	0.03	0.04	0.04	0.05
	600	0.00	0.01	0.02	0.02	0.03	0.04	0.04	0.05
	700	0.00	0.01	0.02	0.03	0.04	0.04	0.05	0.06
	720	0.00	0.01	0.02	0.03	0.04	0.05	0.05	0.06
	800	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.06
	900	0.00	0.01	0.02	0.04	0.05	0.06	0.06	0.07
	960	0.00	0.01	0.03	0.04	0.05	0.06	0.07	0.08
	1000	0.00	0.01	0.03	0.04	0.05	0.06	0.07	0.08
	1200	0.00	0.02	0.03	0.05	0.06	0.08	0.09	0.10
	1400	0.00	0.02	0.04	0.06	0.08	0.09	0.10	0.11
	1440	0.00	0.02	0.04	0.06	0.08	0.09	0.10	0.12
	1600	0.00	0.02	0.04	0.06	0.09	0.10	0.11	0.13
	1800	0.00	0.02	0.05	0.07	0.10	0.12	0.13	0.15
	2000	0.00	0.03	0.05	0.08	0.11	0.13	0.14	0.16
	2200	0.00	0.03	0.06	0.09	0.12	0.14	0.16	0.18
	2400	0.00	0.03	0.06	0.10	0.13	0.15	0.17	0.19
	2600	0.00	0.04	0.07	0.11	0.14	0.17	0.18	0.21
	2800	0.00	0.04	0.08	0.11	0.15	0.18	0.20	0.23
	2880	0.00	0.04	0.08	0.12	0.16	0.18	0.20	0.23
	3000	0.00	0.04	0.08	0.12	0.16	0.19	0.21	0.24
	3200	0.00	0.04	0.09	0.13	0.17	0.21	0.23	0.26
	3400	0.00	0.05	0.09	0.14	0.18	0.22	0.24	0.28
	3600	0.00	0.05	0.10	0.15	0.19	0.23	0.26	0.29
	3800	0.00	0.05	0.10	0.15	0.21	0.24	0.27	0.31
	4000	0.00	0.05	0.11	0.16	0.22	0.26	0.28	0.32
	4200	0.00	0.06	0.11	0.17	0.23	0.27	0.30	0.34
	4400	0.00	0.06	0.12	0.18	0.24	0.28	0.31	0.36
	4500	0.00	0.06	0.12	0.18	0.24	0.29	0.32	0.36
	4600	0.00	0.06	0.12	0.19	0.25	0.29	0.33	0.37
	4800	0.00	0.06	0.13	0.19	0.26	0.31	0.34	0.39
	5000	0.00	0.07	0.14	0.20	0.27	0.32	0.35	0.41
	5200	0.00	0.07	0.14	0.21	0.28	0.33	0.37	0.42
	5400	0.00	0.07	0.15	0.22	0.29	0.35	0.38	0.44
	5500	0.00	0.07	0.15	0.22	0.30	0.35	0.39	0.45
	5600	0.00	0.08	0.15	0.23	0.30	0.36	0.40	0.45
	5800	0.00	0.08	0.16	0.23	0.31	0.37	0.41	0.47
	6000	0.00	0.08	0.16	0.24	0.32	0.38	0.43	0.49
	6200	0.00	0.08	0.17	0.25	0.33	0.40	0.44	0.50
	6400	0.00	0.09	0.17	0.26	0.35	0.41	0.45	0.52
	6600	0.00	0.09	0.18	0.27	0.36	0.42	0.47	0.53
	6800	0.00	0.09	0.18	0.28	0.37	0.44	0.48	0.55
	7000	0.00	0.09	0.19	0.28	0.38	0.45	0.50	0.57
	7200	0.00	0.10	0.19	0.29	0.39	0.46	0.51	0.58
	7400	0.00	0.10	0.20	0.30	0.40	0.47	0.52	0.60
	7600	0.00	0.10	0.21	0.31	0.41	0.49	0.54	0.62
	7800	0.00	0.11	0.21	0.32	0.42	0.50	0.55	0.63
	8000	0.00	0.11	0.22	0.32	0.43	0.51	0.57	0.65
	8200	0.00	0.11	0.22	0.33	0.44	0.53	0.58	0.66
	8400	0.00	0.11	0.23	0.34	0.45	0.54	0.60	0.68
	8600	0.00	0.12	0.23	0.35	0.46	0.55	0.61	0.70
	8800	0.00	0.12	0.24	0.36	0.48	0.56	0.62	0.71
	9000	0.00	0.12	0.24	0.36	0.49	0.58	0.64	0.73
	9200	0.00	0.12	0.25	0.37	0.50	0.59	0.65	0.75
	9400	0.00	0.13	0.25	0.38	0.51	0.60	0.67	0.76
	9600	0.00	0.13	0.26	0.39	0.52	0.62	0.68	0.78
	9800	0.00	0.13	0.26	0.40	0.53	0.63	0.69	0.79
	10000	0.00	0.14	0.27	0.41	0.54	0.64	0.71	0.81

Table 39:
Length Correction Factor (Cl)

Effective Length	Correction Factor
Up to 1000	0.90
1000 - 1400	0.95
1400 - 2000	1.00
2000 - 2300	1.05
2300 - 2500	1.10
above 2500	1.15

Table 40:
Arc of Contact Correction Factor (Ca)

Arc of Contact on Small Pulley	Correction Factor
100	0.72
110	0.76
120	0.80
130	0.84
140	0.88
150	0.91
160	0.94
170	0.97
180	1.00
190	1.02
200	1.05
210	1.07
220	1.09
230	1.11

Table 41:
Section PL: Basic Power Rating Per Rib (kW) for Small Pulley Effective Diameter (mm)

speed of the small pulley rpm

de	75	80	85	90	95	100	106	112	118	125	132	140	150	160	170	180	190	200	212	224	236	250	280	315	355	400	450	500	560	630	800
100	0.079	0.088	0.097	0.102	0.112	0.123	0.134	0.144	0.154	0.167	0.179	0.194	0.211	0.227	0.244	0.261	0.279	0.294	0.316	0.335	0.356	0.380	0.430	0.488	0.554	0.627	0.708	0.788	0.886	0.987	1.265
200	0.149	0.169	0.184	0.200	0.218	0.233	0.256	0.275	0.297	0.320	0.342	0.370	0.403	0.435	0.470	0.502	0.535	0.568	0.607	0.642	0.684	0.729	0.825	0.937	1.061	1.205	1.361	1.516	1.695	1.911	2.420
300	0.119	0.242	0.268	0.291	0.319	0.344	0.372	0.401	0.432	0.466	0.501	0.541	0.588	0.648	0.685	0.734	0.781	0.830	0.885	0.941	1.001	1.065	1.200	1.371	1.553	1.761	1.987	2.212	2.474	2.784	3.509
400	0.284	0.316	0.350	0.378	0.412	0.443	0.488	0.526	0.566	0.610	0.652	0.706	0.769	0.835	0.895	0.960	1.020	1.065	1.160	1.235	1.310	1.396	1.579	1.790	2.031	2.300	2.591	2.880	3.221	3.612	4.529
500	0.349	0.388	0.427	0.471	0.510	0.550	0.600	0.646	0.692	0.750	0.803	0.870	0.944	1.025	1.103	1.181	1.259	1.336	1.427	1.518	1.611	1.716	1.941	2.201	2.496	2.821	3.176	3.525	3.936	4.402	5.475
560	0.385	0.428	0.472	0.520	0.563	0.607	0.662	0.719	0.770	0.831	0.892	0.962	1.052	1.138	1.223	1.311	1.390	1.481	1.586	1.686	1.788	1.904	2.156	2.442	2.750	3.125	3.515	3.901	4.349	4.854	6.000
600	0.409	0.455	0.502	0.551	0.601	0.651	0.708	0.762	0.821	0.888	0.952	1.002	1.119	1.214	1.307	1.380	1.488	1.580	1.687	1.780	1.906	2.030	2.296	2.601	2.946	3.324	3.741	4.146	4.614	5.142	6.332
700	0.472	0.525	0.578	0.638	0.692	0.746	0.813	0.881	0.946	1.020	1.100	1.164	1.291	1.400	1.507	1.610	1.715	1.820	1.945	2.071	2.196	2.337	2.641	2.990	3.384	3.814	4.281	4.734	5.252	5.836	7.094
720	0.482	0.536	0.588	0.652	0.710	0.767	0.833	0.903	0.971	1.050	1.128	1.216	1.325	1.435	1.544	1.651	1.761	1.869	1.998	2.129	2.250	2.400	2.711	3.069	3.470	3.910	4.385	4.845	5.379	5.963	7.232
800	0.499	0.568	0.658	0.720	0.782	0.841	0.920	0.993	1.070	1.156	1.241	1.340	1.460	1.581	1.703	1.820	1.937	2.058	2.200	2.340	2.479	2.638	2.981	3.370	3.810	4.286	4.800	5.291	5.851	6.468	7.744
900	0.589	0.657	0.730	0.801	0.873	0.940	1.025	1.090	1.191	1.286	1.380	1.491	1.623	1.762	1.895	2.000	2.157	2.291	2.445	2.601	2.755	2.932	3.310	3.741	4.218	4.738	5.288	5.812	6.405	7.032	8.270
960	0.625	0.698	0.773	0.848	0.926	1.000	1.083	1.173	1.260	1.363	1.463	1.581	1.722	1.866	2.009	2.148	2.288	2.427	2.594	2.720	2.921	3.110	3.502	3.955	4.458	5.000	5.571	6.111	6.711	7.342	8.519
1000	0.649	0.722	0.801	0.882	0.958	1.032	1.128	1.220	1.311	1.415	1.522	1.640	1.790	1.937	2.085	2.229	2.374	2.518	2.691	2.860	3.027	3.221	3.631	4.098	4.614	5.167	5.752	6.303	6.890	7.534	8.854
1200	0.760	0.853	0.942	1.040	1.128	1.220	1.327	1.410	1.544	1.670	1.791	1.933	2.111	2.285	2.457	2.621	2.795	2.961	3.161	3.360	3.562	3.779	4.249	4.750	5.352	5.961	6.550	7.151	7.742	8.294	
1400	0.870	0.974	1.082	1.189	1.295	1.401	1.521	1.650	1.775	1.913	2.059	2.220	2.419	2.617	2.812	3.000	3.200	3.387	3.614	3.835	4.052	4.306	4.824	5.401	6.021	6.620	7.201	7.812	8.317	8.700	
1440	0.892	1.000	1.112	1.218	1.327	1.432	1.563	1.691	1.820	1.965	2.109	2.275	2.479	2.685	2.882	3.081	3.279	3.471	3.701	3.929	4.151	4.403	4.937	5.521	6.142	6.781	7.403	7.924	8.400	8.730	
1600	0.979	1.095	1.219	1.337	1.460	1.575	1.716	1.856	1.994	2.155	2.313	2.493	2.721	2.943	3.160	3.376	3.587	3.780	4.048	4.287	4.490	4.800	5.360	5.970	6.608	7.237	7.820	8.266	8.588		
1800	1.085	1.219	1.350	1.482	1.616	1.748	1.902	2.059	2.211	2.390	2.564	2.764	3.011	3.255	3.491	3.710	3.959	4.186	4.451	4.712	4.968	5.257	5.847	6.472	7.104	7.691	8.181	8.477			
2000	1.120	1.328	1.482	1.623	1.771	1.913	2.088	2.252	2.421	2.615	2.809	3.025	3.292	3.554	3.810	4.062	4.310	4.551	4.838	5.111	5.379	5.679	6.281	6.903	7.500	8.002	8.346				
2200	1.289	1.446	1.604	1.762	1.922	2.078	2.261	2.446	2.630	2.824	3.010	3.278	3.562	3.841	4.112	4.381	4.642	4.900	5.196	5.479	5.755	6.059	6.660	7.256	7.785	8.167					
2400	1.385	1.557	1.728	1.898	2.065	2.236	2.433	2.630	2.824	3.034	3.251	3.516	3.820	4.115	4.400	4.682	4.955	5.217	5.522	5.814	6.090	6.396	6.978	7.522	7.991						
2600	1.478	1.663	1.849	2.027	2.211	2.390	2.600	2.810	3.014	3.251	3.484	3.746	4.062	4.375	4.672	4.966	5.245	5.512	5.820	6.111	6.387	6.682	7.230	7.700							
2800	1.570	1.767	1.963	2.157	2.350	2.539	2.761	2.953	3.200	3.448	3.692	3.966	4.295	4.619	4.890	5.225	5.510	5.779	6.089	6.376	6.637	6.921	7.411	7.775							
2880	1.608	1.805	2.010	2.205	2.402	2.595	2.826	3.050	3.270	3.522	3.771	4.051	4.387	4.713	5.021	5.321	5.590	5.878	6.185	6.467	6.729	7.000	7.464	7.777							
3000	1.663	1.869	2.077	2.282	2.484	2.681	2.880	3.150	3.376	3.633	3.890	4.176	4.515	4.847	5.160	5.461	5.749	6.016	6.319	6.597	6.846	7.101	7.519	7.747							
3200	1.747	1.968	2.185	2.401	2.613	2.820	3.060	3.310	3.545	3.814	4.080	4.370	4.722	5.059	5.376	5.678	5.961	6.221	6.516	6.772	7.002	7.228	7.545								
3400	1.835	2.062	2.293	2.515	2.710	2.952	3.210	3.460	3.703	3.962	4.256	4.556	4.913	5.252	5.571	5.868	6.145	6.398	6.671	6.900	7.108	7.289	7.484								
3600	1.918	2.156	2.392	2.625	2.810	3.083	3.349	3.600	3.860	4.146	4.422	4.726	5.089	5.428	5.742	6.032	6.300	6.538	6.788	6.996	7.157	7.288									
3800	1.994	2.200	2.490	2.733	2.972	3.200	3.478	3.743	4.006	4.292	4.575	4.884	5.246	5.583	5.891	6.171	6.421	6.641	6.861	7.031	7.151	7.217									
4000	2.068	2.329	2.586	2.834	3.081	3.321	3.602	3.874	4.140	4.436	4.721	5.028	5.389	5.720	6.020	6.281	6.511	6.708	6.891	7.016	7.081										
4200	2.140	2.412	2.678	2.933	3.189	3.432	3.719	4.000	4.265	4.583	4.858	5.158	5.513	5.833	6.130	6.381	6.568	6.732	6.872	6.945											
4400	2.210	2.490	2.762	3.026	3.289	3.538	3.831	4.109	4.380	4.684	4.965	5.272	5.617	5.923	6.190	6.411	6.590	6.680	6.806												
4500	2.248	2.529	2.800	3.071	3.332	3.587	3.883	4.165	4.410	4.739	5.021	5.321	5.684	5.964	6.219	6.422	6.585	6.694	6.753												
4600	2.280	2.565	2.842	3.118	3.380	3.638	3.935	4.210	4.490	4.789	5.070	5.370	5.704	5.995	6.233	6.429	6.571	6.659													
4800	2.290	2.638	2.922	3.201	3.471	3.730	4.030	4.315	4.586	4.882	5.159	5.450	5.789	6.038	6.252	6.414	6.516														
5000	2.410	2.688	3.001	3.279	3.554	3.811	4.112	4.401	4.670	4.966	5.233	5.512	5.812	6.059	6.241	6.361	6.402														
5200	2.462	2.770	3.083	3.351	3.628	3.891	4.195	4.479	4.746	5.032	5.294	5.560	5.838	6.051	6.200	6.274															
5400	2.515	2.828	3.127	3.420	3.696	3.952	4.264	4.546	4.810	5.090	5.341	5.588	5.841	6.019	6.122																
5500	2.542	2.855	3.159	3.448	3.729	3.993	4.294	4.577	4.835	5.110	5.358	5.595	5.832	5.992	6.073																
5600	2.568	2.901	3.187	3.479	3.760	4.022	4.325	4.602	4.860	5.130	5.388	5.590	5.817	5.959	6.016																
5800	2.617	2.930	3.240	3.536	3.812	4.078	4.375	4.651	4.901	5.158	5.381	5.585	5.771	5.870																	
6000	2.658	2.982	3.288	3.582	3.862	4.126	4.420	4.686	4.925	5.169	5.374	5.554	5.702																		
6200	2.690	3.020	3.332	3.627	3.902	4.163	4.451	4.710	4.938	5.165	5.349	5.504	5.602																		
6400	2.715	3.056	3.371	3.663	3.941	4.196	4.474	4.721	4.937	5.148	5.290	5.430																			
6600	2.760	3.068	3.400	3.667	3.970	4.219	4.488	4.723	4.922	5.111	5.245	5.331																			
6800	2.788	3.120	3.430	3.721	3.988	4.228	4.499	4.711	4.894	5.061	5.163	5.214																			
7000	2.805	3.139	3.451	3.737	4.000	4.233	4.481	4.689	4.852	4.991	5.067																				
7200	2.825	3.162	3.467	3.748	4.002	4.229	4.461	4.650	4.796	4.905	4.942																				
7400	2.848	3.174	3.473	3.750	3.992	4.211	4.430	4.602	4.724	4.801																					
7600	2.858	3.180	3.480	3.742	3.981	4.186	4.388	4.540	4.634	4.678																					
7800	2.862	3.184	3.470	3.731	3.958	4.152	4.332	4.461	4.530																						
8000	2.860	3.177	3.461	3.714	3.929	4.102	4.266	4.369	4.409																						
8200	2.856	3.166	3.442	3.680	3.890	4.047	4.188	4.261																							
8400	2.846	3.151	3.421	3.647	3.834	3.982	4.095	4.140																							
8600	2.832	3.129	3.387	3.600	3.775	3.901	3.990																								
8800	2.809	3.100	3.349	3.551	3.705	3.811	3.871																								
9000	2.786	3.066	3.301	3.488	3.624	3.710	3.738																								
9200	2.755	3.028	3.245	3.418	3.537	3.580																									
9400	2.720	2.981	3.188	3.338	3.432	3.471																									
9600	2.680	2.927	3.117	3.250	3.324																										
9800	2.632	2.867	3.039	3.151	3.201																										
10000	2.586	2.804	2.959	3.048	3.072																										

PIX

Table 42:
SECTION PL:Speed Ratio Correction Factor (Cr)

speed of small pulley in rpm

Speed Ratio	1.00 to 1.02	1.03 to 1.06	1.07 to 1.08	1.09 to 1.16	1.17 to 1.26	1.27 to 1.40	1.41 to 1.74	above 1.75
100	0.000	0.000	0.000	0.000	0.010	0.010	0.010	0.010
200	0.000	0.000	0.010	0.010	0.010	0.010	0.020	0.020
300	0.000	0.000	0.010	0.010	0.020	0.020	0.020	0.030
400	0.000	0.010	0.010	0.020	0.020	0.030	0.030	0.040
500	0.000	0.010	0.010	0.020	0.030	0.030	0.040	0.050
560	0.000	0.010	0.020	0.020	0.030	0.040	0.050	0.050
600	0.000	0.010	0.020	0.020	0.030	0.040	0.050	0.060
700	0.000	0.010	0.020	0.030	0.040	0.050	0.060	0.070
720	0.000	0.010	0.020	0.030	0.040	0.050	0.060	0.070
800	0.000	0.010	0.020	0.030	0.040	0.050	0.060	0.080
900	0.000	0.010	0.020	0.040	0.050	0.060	0.070	0.090
960	0.000	0.010	0.030	0.040	0.050	0.060	0.080	0.090
1000	0.000	0.010	0.030	0.040	0.050	0.070	0.080	0.090
1200	0.000	0.020	0.030	0.050	0.060	0.080	0.100	0.110
1400	0.000	0.020	0.040	0.060	0.080	0.090	0.110	0.130
1440	0.000	0.020	0.040	0.060	0.080	0.100	0.120	0.140
1600	0.000	0.020	0.040	0.060	0.090	0.110	0.130	0.150
1800	0.000	0.020	0.050	0.070	0.100	0.120	0.150	0.170
2000	0.000	0.030	0.050	0.080	0.110	0.140	0.160	0.190
2200	0.000	0.030	0.060	0.090	0.120	0.150	0.180	0.210
2400	0.000	0.030	0.060	0.100	0.130	0.160	0.190	0.230
2600	0.000	0.040	0.070	0.110	0.140	0.180	0.210	0.250
2800	0.000	0.040	0.080	0.110	0.150	0.190	0.230	0.260
2880	0.000	0.040	0.080	0.120	0.160	0.190	0.230	0.270
3000	0.000	0.040	0.080	0.120	0.160	0.200	0.240	0.280
3200	0.000	0.040	0.090	0.130	0.170	0.220	0.260	0.300
3400	0.000	0.050	0.090	0.140	0.180	0.230	0.280	0.320
3600	0.000	0.050	0.100	0.150	0.190	0.240	0.290	0.340
3800	0.000	0.050	0.100	0.150	0.210	0.260	0.310	0.360
4000	0.000	0.050	0.110	0.160	0.220	0.270	0.320	0.380
4200	0.000	0.060	0.110	0.170	0.230	0.280	0.340	0.400
4400	0.000	0.060	0.120	0.180	0.240	0.300	0.360	0.420
4500	0.000	0.060	0.120	0.180	0.240	0.300	0.360	0.430
4600	0.000	0.060	0.120	0.190	0.250	0.310	0.370	0.430
4800	0.000	0.060	0.130	0.190	0.260	0.320	0.390	0.450
5000	0.000	0.070	0.140	0.200	0.270	0.340	0.410	0.470
5200	0.000	0.070	0.140	0.210	0.280	0.350	0.420	0.490
5400	0.000	0.070	0.150	0.220	0.290	0.360	0.440	0.510
5500	0.000	0.070	0.150	0.220	0.300	0.370	0.450	0.520
5600	0.000	0.080	0.150	0.230	0.300	0.380	0.450	0.530
5800	0.000	0.080	0.160	0.230	0.310	0.390	0.470	0.550
6000	0.000	0.080	0.160	0.240	0.320	0.410	0.490	0.570
6200	0.000	0.080	0.170	0.250	0.330	0.420	0.500	0.590
6400	0.000	0.090	0.170	0.260	0.350	0.430	0.520	0.600
6600	0.000	0.090	0.180	0.270	0.360	0.450	0.530	0.620
6800	0.000	0.090	0.180	0.280	0.370	0.460	0.550	0.640
7000	0.000	0.090	0.190	0.280	0.380	0.470	0.570	0.660
7200	0.000	0.100	0.190	0.290	0.390	0.490	0.580	0.680
7400	0.000	0.100	0.200	0.300	0.400	0.500	0.600	0.700
7600	0.000	0.100	0.210	0.310	0.410	0.510	0.620	0.720
7800	0.000	0.110	0.210	0.320	0.420	0.530	0.630	0.740
8000	0.000	0.110	0.220	0.320	0.430	0.540	0.650	0.760
8200	0.000	0.110	0.220	0.330	0.440	0.550	0.660	0.770
8400	0.000	0.110	0.230	0.340	0.450	0.570	0.680	0.790
8600	0.000	0.120	0.230	0.350	0.460	0.580	0.700	0.810
8800	0.000	0.120	0.240	0.360	0.480	0.590	0.710	0.830
9000	0.000	0.120	0.240	0.360	0.490	0.610	0.730	0.850
9200	0.000	0.120	0.250	0.370	0.500	0.620	0.750	0.870
9400	0.000	0.130	0.250	0.380	0.510	0.630	0.760	0.890
9600	0.000	0.130	0.260	0.390	0.520	0.650	0.780	0.910
9800	0.000	0.130	0.260	0.400	0.530	0.660	0.790	0.930
10000	0.000	0.140	0.270	0.410	0.540	0.680	0.810	0.950

Table 43: Length Correction Factor (Cl)

Effective Length	Correction Factor
Up to 1300	0.90
1300 - 1750	0.95
1750 - 2500	1.00
2500 - 3750	1.05
3750 - 4500	1.10
4500 - 5250	1.15
above 5250	1.20

Table 44: Arc of Contact Correction Factor (Ca)

Arc of Contact on Small Pulley	Correction Factor
100	0.72
110	0.76
120	0.80
130	0.84
140	0.88
150	0.91
160	0.94
170	0.97
180	1.00
190	1.02
200	1.05
210	1.07
220	1.09
230	1.11

Table 45:
Section PM: Basic Power Rating Per Rib (kW) for Small Pulley Effective Diameter (mm)

speed of the small pulley rpm	de	180	190	200	212	224	250	280	315	355	400	450	500	560	630	700
	100	0.631	0.687	0.741	0.807	0.871	1.012	1.174	1.354	1.568	1.810	2.071	2.330	2.641	3.000	3.353
	200	1.187	1.293	1.397	1.524	1.648	1.920	2.228	2.574	2.981	3.445	3.945	4.441	5.032	5.711	6.381
	300	1.712	1.867	2.021	2.204	2.384	2.781	3.232	3.740	4.332	5.004	5.730	6.443	7.291	8.267	9.225
	400	2.217	2.417	2.620	2.860	3.099	3.614	4.200	4.861	5.631	6.500	7.435	8.352	9.440	10.677	11.878
	500	2.705	2.953	3.198	3.495	3.784	4.418	5.136	5.944	6.880	7.940	9.064	10.172	11.466	12.930	14.340
	560	2.990	3.265	3.536	3.865	4.190	4.890	5.685	6.574	7.610	8.774	10.010	11.212	12.621	14.195	15.702
	600	3.177	3.471	3.760	4.110	4.455	5.200	6.044	6.991	8.086	9.312	10.620	11.890	13.363	15.006	16.565
	700	3.637	3.973	4.308	4.708	5.104	5.955	6.924	8.001	9.242	10.630	12.091	13.501	15.114	16.885	18.530
	720	3.727	4.072	4.414	4.826	5.231	6.104	7.096	8.200	9.466	10.885	12.375	13.808	15.444	17.236	18.884
	800	4.084	4.464	4.840	5.290	5.735	6.690	7.772	8.971	10.349	11.878	13.472	14.992	16.705	18.549	20.202
	900	4.519	4.937	5.354	5.855	6.344	7.400	8.590	9.905	11.400	13.052	14.753	16.352	18.126	19.969	21.547
	960	4.774	5.216	5.660	6.185	6.705	7.815	9.068	10.441	12.005	13.720	15.473	17.105	18.882	20.693	22.182
	1000	4.940	5.400	5.857	6.402	6.941	8.084	9.377	10.795	12.396	14.150	15.932	17.572	19.350	21.120	22.531
	1200	5.748	6.284	6.811	7.443	8.061	9.381	10.847	12.440	14.208	16.090	17.933	19.548	21.154	22.519	
	1400	6.504	7.108	7.704	8.411	9.101	10.561	12.171	13.885	15.744	17.645	19.405	20.810			
	1440	6.648	7.264	7.874	8.595	9.302	10.782	12.414	14.148	16.015	17.905	19.632	20.966			
	1600	7.207	7.871	8.527	9.299	10.052	11.625	13.330	15.109	16.971	18.771	20.276				
	1800	7.850	8.571	9.274	10.100	10.900	12.554	14.310	16.087	17.855	19.411					
	2000	8.435	9.198	9.940	10.808	11.641	13.338	15.094	16.792	18.356						
	2200	8.954	9.750	10.521	11.415	12.264	13.966	15.660	17.201							
	2400	9.401	10.221	11.011	11.912	12.762	14.421	15.995	17.283							
	2600	9.776	10.609	11.401	12.292	13.128	14.696	16.075								
	2800	10.071	10.903	11.687	12.555	13.345	14.772									
	2880	10.165	10.990	11.769	12.622	13.391	14.742									
	3000	10.281	11.101	11.855	12.682	13.412	14.641									
	3200	10.402	11.194	11.911	12.671	13.314										
	3400	10.433	11.180	11.840	12.511	13.044										
	3600	10.363	11.050	11.635	12.192											
	3800	10.188	10.798	11.290												
	4000	9.905	10.422													

Table 46:
SECTION PM:Speed Ratio Correction Factor (Cr)

speed of small pulley in rpm

Speed Ratio	1.00 to 1.01	1.02 to 1.04	1.05 to 1.06	1.07 to 1.14	1.15 to 1.24	1.25 to 1.48	1.49 to 2.00	above 2.01
100	0.00	0.01	0.01	0.02	0.03	0.05	0.06	0.07
200	0.00	0.01	0.02	0.04	0.07	0.09	0.11	0.14
300	0.01	0.02	0.03	0.06	0.10	0.14	0.17	0.20
400	0.01	0.02	0.04	0.08	0.14	0.19	0.23	0.27
500	0.01	0.03	0.05	0.10	0.17	0.24	0.29	0.34
560	0.01	0.03	0.06	0.11	0.19	0.26	0.32	0.38
600	0.01	0.03	0.06	0.12	0.20	0.28	0.34	0.41
700	0.01	0.04	0.08	0.14	0.24	0.33	0.40	0.47
720	0.01	0.04	0.08	0.15	0.24	0.34	0.41	0.49
800	0.02	0.04	0.09	0.16	0.27	0.38	0.46	0.54
900	0.02	0.05	0.10	0.18	0.30	0.43	0.52	0.61
960	0.02	0.05	0.10	0.19	0.32	0.45	0.55	0.65
1000	0.02	0.05	0.11	0.20	0.34	0.47	0.57	0.68
1200	0.02	0.06	0.13	0.24	0.41	0.57	0.69	0.81
1400	0.03	0.08	0.15	0.28	0.47	0.66	0.80	0.95
1440	0.03	0.08	0.16	0.29	0.49	0.68	0.83	0.97
1600	0.03	0.09	0.17	0.32	0.54	0.76	0.92	1.08
1800	0.04	0.10	0.19	0.36	0.61	0.85	1.03	1.22
2000	0.04	0.11	0.22	0.41	0.68	0.95	1.15	1.35
2200	0.04	0.12	0.24	0.45	0.74	1.04	1.26	1.49
2400	0.05	0.13	0.26	0.49	0.81	1.13	1.38	1.62
2600	0.05	0.14	0.28	0.53	0.88	1.23	1.49	1.76
2800	0.06	0.15	0.30	0.57	0.95	1.32	1.61	1.89
2880	0.06	0.16	0.31	0.58	0.97	1.36	1.65	1.94
3000	0.06	0.16	0.32	0.61	1.01	1.42	1.72	2.03
3200	0.06	0.17	0.35	0.65	1.08	1.51	1.84	2.16
3400	0.07	0.18	0.37	0.69	1.15	1.61	1.95	2.30
3600	0.07	0.19	0.39	0.73	1.22	1.70	2.07	2.43
3800	0.08	0.21	0.41	0.77	1.28	1.80	2.18	2.57
4000	0.08	0.22	0.43	0.81	1.35	1.89	2.30	2.70

Table 47: Length Correction Factor (Cl)

Effective Length	Correction Factor
Up to 2750	0.95
2750 - 3750	1.00
3750 - 5000	1.05
5000 - 7000	1.10
7000 - 9000	1.15
above 9000	1.20

Table 48: Arc of Contact Correction Factor (Cr)

Arc of Contact on Small Pulley	Correction Factor
100	0.72
110	0.76
120	0.80
130	0.84
140	0.88
150	0.91
160	0.94
170	0.97
180	1.00
190	1.02
200	1.05
210	1.07
220	1.09
230	1.11

Installation & Maintenance

1) Make sure that the power is off and machine stops completely before setting the belt or during maintenance.

2) Do not use excessive force to set the belt. Reduce centre distance by using the motor slide for smooth setting, when using the tension pulley the belt should be loosened beforehand.

3) Make sure that oil does not stick to the belt while setting the belt.

4) When the centre distance is long or when using PJ or PK type with small pitches make sure that you do not miss-set the belt by a ridge.

5) Tension the drive properly.

6) With multi belt system make sure that the pulley groove dimensions are perfect.

7) Check if the pulley groove is worn or damaged in operation if the pulley tip gets smaller (sharpened) replace the pulley, since it can cause shortened belt life.

Installation Procedure

The following installation procedure should be strictly adhered to achieve the satisfactory performance from the ribbed belt drive.

1) Switch off the main supply before beginning with the exercise of installation.

2) Bring the pulleys closer to each other so that the belt can be removed easily.

3) Inspect the pulley grooves for any scores , sharp edges, dirt & rust. Clean them as required.

4) Ensure the alignment of pulleys. Make sure that the shafts are also properly aligned.

5) Mount the ribbed belt with no tension. Make sure that the ribs have been properly seated in the grooves.

6) Tension the ribbed belts as per the procedure given below.

7) Give some running time to the drive so that the belts are properly seated in the grooves.

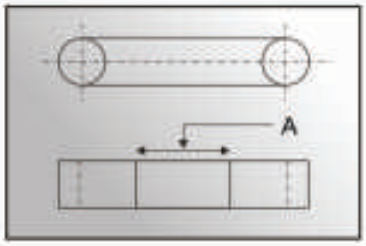
8) Guard the drive properly.

Tensioning Procedure

It is imperative that to achieve the best from your ribbed belt drive, a proper tension be maintained in the drive. Under or over tensioning can cause the ribbed belt to fail prematurely. The following steps should be worked out to ensure the proper tension in the drive.

1) Fit the belt on the pulleys with no tension.

2) Draw two perpendicular lines across the belt at about 80% of the belt span between the pulleys as shown in the figure. Say for example the lines are placed 1000 mm apart. (A).



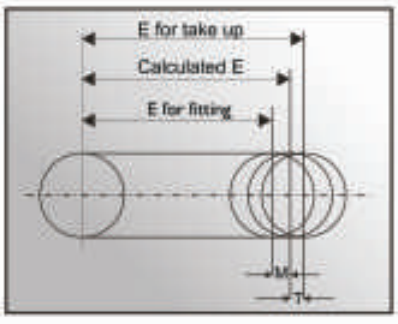
3) Increase the distance between two lines by 0.5 to 0.75% i.e. by 5 to 7.5 mm for an initial spacing of 1000 mm, so that the (A) now becomes 1007.5 mm.

4) Run the drive under load for about 10 minutes.

5) Check the tension of the belt (spacing between two lines) & readjust if necessary.

Installation & Take-up allowances

L (mm)	PJ		PK		PL		PM	
	M	T	M	T	M	T	M	T
< 750	-10	+10	-11	+13				
750 to 1200	-10	+15	-12	+16	-15	+20		
1200 to 2000	-15	+20	-16	+22	-20	+20		
2000 to 3500	-20	+30	-23	+32	-30	+35	-40	+50
3500 to 5000					-40	+50	-50	+70



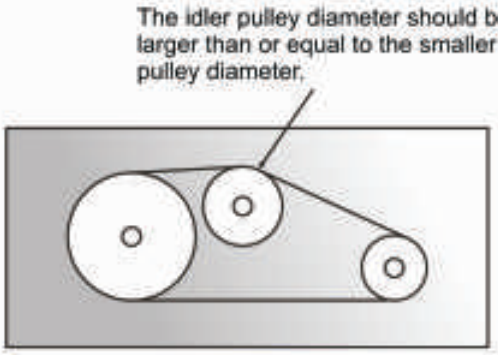
How to Use the Idler Pulley

Be careful when you use the idler pulley since it might cause misalignment or shorten the belt service life through flex fatigue. The idler pulley is used when the pulley is fixed, when you want to reduce vibration, or to increase the contact angle of the small pulley. When you use an idler pulley, please follow the instructions given below. Please contact us if you use an outside idler, in particular, since it considerably reduces the belt service life.

Instructions to Use the Idler Pulley

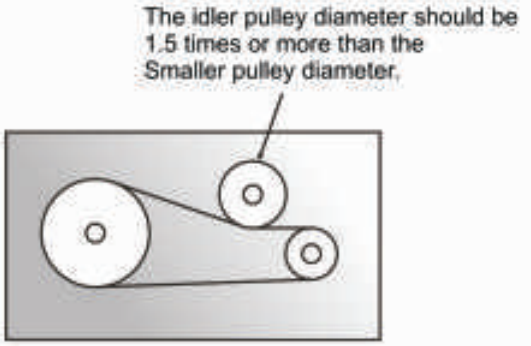
- Use the idler pulley on the slack side of the belt.
- Use the idler pulley at inside of the belt, rather than outside.
- Do not place the idler pulley close to other pulleys.
- The idler pulley should be flat, without any flanges.
- Do not use the belt for clutching device using idler.
- Correct the power transmission capacity if the contact angle might be changed.

1. When using the inside idler pulley



- Use an idler pulley with grooves.
- Position of the idler pulley should be near to the large pulley in order to maintain the contact angle of smaller pulley.

2. When using the outside idler pulley.



- Use the flat idler pulley without any crown.
- Position of the idler pulley should be near to the small pulley.
- Minimum idler pulley diameter is shown in the table below.

Idler Pulley Minimum Diameter

Belt Type	J	PK	L	M
Minimum Diameter	50	90	150	300

Trouble Shooting

PROBLEMS	CAUSES	REMEDIES
Ribbed belt breaking after a short period of running	a) Forcing the belt over pulley during installation. b) Overloaded drive c) Ingress of foreign body d) Drive stalled	a) Use proper installation techniques b) Re-check the drive design c) Fit an effective guard d) Check for lubrication
Cuts and splits in the ribs	a) Pulley diameter too small b) Ambient temperature too high c) Abnormal belt slip d) Contamination by chemicals	a) Re-design using the min. recommended diameter. b) Ensure good ventilation c) Check drive tension d) Protect the drive
Severe belt vibrations	a) Overloaded drive b) Centre distance more than recommended c) High shock loading d) Too low belt tension e) Unbalanced pulleys	a) Redesigning drive may be necessary. b) Use an inside idler on the slack side. c) Use an inside idler on the slack side d) Re-tension the drive e) Balance the pulleys
Cannot be re-tensioned	a) Insufficient allowance for re-tensioning b) Excessive stretch caused by overloaded drive c) Incorrect belt length	a) Modify the drive b) Re-design the drive c) Use belt of proper length
Excessive wear or ribs	a) Starting torque too high b) Incorrect pulleys c) Excessive wear of grooves d) Poor drive alignment e) Smaller than recommended minimum pulley diameter f) Belt catching on protruding parts g) Wrong section of belt for pulleys h) Too low belt tension	a) Re-design the drive b) Re-machine the pulleys c) Re-machine pulleys d) Re-align the pulleys e) Re-design using correct pulley diameters f) Remove protrusions g) Correct the belt section h) Re-tension the drive
Excessive Noise	a) Contamination by oil, grease or chemicals	a) Protect the drive

Conversion Constants

Length

Inches x 25.4	=	Millimetres
Inches x 0.0254	=	Metres
Feet x 0.3048	=	Metres

Force

Kilogram Force (Kgf) x 9.81	=	Newton (N)
Pound Force (lbf) x 4.45	=	Newton (N)

Torque

Kilogramforce metre (Kgf - m) x 9.81	=	Newton Metre (N-m)
Pound feet (lbf - ft) x 1.36	=	Newton Metre (N-m)
Pound Inches (lbf - in) x 0.113	=	Newton Metre (N-m)

Power

Horse Power (HP) x 0.746	=	Kilowatt (kW)
Cheval-vapeur (CV) x 0.735	=	Kilowatt (kW)
Pferdestarke (PS) x 0.735	=	Kilowatt (kW)

Speed

Feet/Minute (ft/min) x0.00508	=	Meter/Sec. (m/s)

Mass

Kilogram (kg) x 2.205	=	Pound (lb)
Pound (lb) x0.454	=	Kilogram (Kg)

Useful Formulae:

Belt Speed (V) : V (m/s)	=	$5.236 \times d \times n \text{ (rev/min)} / 10^3$
Power (P) : P (kW)	=	$\frac{\text{Torque (N-M)} \times n \text{ (rev/min)}}{9550}$
	=	Belt effective tension (N) x V/105
Torque (T) (N-M)	=	$\frac{9550\ P}{n}$
Belt effective tension (Te) : Te (N)	=	$\frac{2000\ T}{d}$
Static tension (Ts) : Ts (N)	=	32 x F x B Where F is the force required to deflect a belt 15 mm per meter of span, 'B' is no. of belts.
Centrifugal Tension (Tc) : Tc (N)	=	$2mV^2$
Dynamic tension (TD) : TD(N)	=	Ts - Tc

Abbreviations:

Physical Quantity	Symbol	Unit
Power	P	Kilowatt (kW)
Torque	T	Newton-Metre (N-m)
Force	F	Newton (N)
Rotational speed	n	Rev / min
Pulley pitch diameter	d	Millimetre (mm)
Belt speed	V	Metre per second (m/s)

Questionnaire

Dear Customer,
Kindly fill in the below given form and mail it back to enable us to find an optimum solution for your drive.

Details of Prime Mover

HP or kW rating
Method of starting
Type of drive machine
Maximum HP or kW requirement
Operation hours per day

Driving pulley pitch dia.	**If, fly wheel is used, give its dimensions:**
Driven pulley pitch dia.	Whether drive is V-V / V-Flat type
Driving shaft r.p.m.	Whether drive is exposed to
Driven shaft r.p.m.	1) Heat 2) Moisture 3) Vibration
Centre distance between pulleys	4) Corrosive liquids 5) Hazardous vapours
Minimum Maximum	(Tick where necessary)

Pulley Details (Driver)	Pulley Details (Driven)
Top Width	
Groove depth	
Mean Groove Spacing	
Groove Angle	
No. of grooves	

Details of previous belt used

Section & Size
Make
Batch Code
No. of belts used
Service life
Expected life of belt
Condition of drive
Alignment - OK / Not OK
Pulley worn out - Yes / No
Tensioning - OK / Not OK
Belt Installation method followed - Yes / No
Nature of failure

Idlers (Tick ✓ Where necessary)

Inside / Outside
Flat / Grooved
Diameter of idlers
On slack / on tight side
Tensioning - Spring tensioning / Screw tensioning

Signature & date:
Name & designation:
Name of the Company:
Address:
Phone : **Fax :**

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Attended by:
Remarks:

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