MAX SPARE
LIMITED
QUALITY. PRECISION. SPEED.

TECHNICAL CATALOGUE

MAX SPARE
LIMITED
QUALITY. PRECISION. SPEED.

QUALITY
PRECISION
SPEED

Max Spare (Formerly Spareage) was incorporated in 1959 for manufacturing of Hydraulic and Pneumatic Seals, Rotary Shaft Seals and 'O' Rings. Over the years, Max Spare has evolved as India's No. 1 Seal Manufacturer, catering to a wide spectrum of industries with different sealing needs. Max Spare with its emphasis on Quality and Technology is ISO 9001-2015 certified and exports its seals and 'O' rings to quality conscious markets in Europe and North America. Having mutually enriching alliances with leading seal manufacturer and stockiest in Europe, Canada and the United States, exports contribute more than 60% of the current sales.

MANUFACTURING PLANT

MAX SPARE
LIMITED
QUALITY. PRECISION. SPEED.

V-BELT MANUFACTURING FACILITY

About Max Spare V-Belt Facility ...

In its aspiration for constant growth and continuous product improvement and new addition, Max Spare entered into industrial power transmission Belts range by acquiring ''Nirlon'' the trusted brand name in V-Belts over decades. Maxspare Nirlon V-Belts offer wide range of Standard & Special Belts backed with Technical support to its customers.

Maxspare Nirlon V-Belt manufacturing plant is located in Khopoli (Raigad Dist.) in Maharashtra, Spread over 30,000 sq. mts. area having latest and sophasticated machines and advance manufacturing technique. Plant is also equipped with material and product testing Laboratory.

Max spare manufacturing facility is ISO9001:2015 certified and Max Spare Nirlon V-Belt is ISI Certified.

We, therefore encourage you to contact us with any specific requirement of yours, even though it may not be covered in this catalogue. We are confident of meeting your requirement.

Maxspare is continuously improving its ranges and reserve, the right to withdraw or modify any item shown in this catalogue without notice.

The information contained in this catalogue is based on many years of experience in the power transmission industries and also vast field experience. However, unknown parameters and conditions may restrict general statements during usage.

CERTIFICATIONS

QEC CERTIFICATION

CERTIFICATION

Quality Management System

Certificate of Approval

This is to certify that the QMS of

MAX SPARE LIMITED

EXPRESS DIVISION (SITE I):- OIL SEALS HOUSE, PLOT NO. A/403, 403/1, A/412 & A/413, RD.NO.28, LANE NO.4, WAGLE ESTATE, THANE- 400604, INDIA.

OEM DIVISION (SITE II):- SURVEY NO. 50, HISSA NO.1-2-3B/2B, AT- VILLAGE DAHIVALI, KHOPOLI PALI ROAD, PALI PHATA, POST- KHOPOLI, TALUKA-KHALAPUR, DISTRICT, RAIGAD- 410203, INDIA.

Has been assessed and found to meet the requirements of

ISO 9001:2015

This certificate is valid for the following scope of operations:
MANUFACTURE & SUPPLY OF SEALS MADE FROM POLYMERS, METAL- POLYMER OR FABRIC- POLYMER COMBINATIONS FOR HYDRAULIC, PNEUMATIC, ROTARY APPLICATIONS FOR INDUSTRIAL & AUTOMOTIVE SECTOR AND MANUFACTURE & SUPPLY OF " VEE BELTS." (POWER TRANSMISSION BELTS).

Authorised by: RN Cooke
Chief Executive

Date of Certificate Issue: 03 Novembe 2017
Certificate valid Until : 02 November 2018

Recertification audit before 30 September 2018. Certified since 03 November 2015.
This certificate is the property of QEC Certification and remains valid subject to satisfactory annual Surveillance audits. Certificate Number: QEC 52067140/17/Q

SN Registrars (Holdings) Limited
Registration House,
22b Church Street,
Rushden, Northamptonshire,
NN10 9YT, UK.
Tel : +44 (0) 1933 38 3261
Email: info@qec.co.uk
Web: www.qec.co.uk
Company Number : 07659067

IAF

QEC CERTIFICATION ISO 9001:2008 Member of SN Registrars (Holdings) Ltd

UKAS QUALITY MANAGEMENT 8327

For precise and updated information concerning the present certificate visit at www.qeccert.com

---

भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS

WESTERN REGIONAL OFFICE
Marks Department Mumbai – MUBO-I

Address : Manakalaya, E9 MIDC, Andheri East Mumbai 400093
Phones : 022-28329295, 28327892
Fax : 022-28364820
E-mail : mdm2@bis.org.in
Web : http://www.bis.org.in

ATTACHMENT TO LICENCE NO. CM/L- 3777684

CML NO	NAME OF THE LICENSEE WITH ADDRESS	PRODUCT	IS NO
3777684	MAX SPARE LIMITED S.NO. 50/ 1-2-3-B/2B, AT: VILLAGE DAHIVALI,TALUKA : KHALAPUR, DISTT : RAIGAD 401203 MAHARASHTRA	V-BELTS - ENDLESS V-BELTS FOR INDUSTRIAL PURPOSES - PART 1 : GENERAL PURPOSE -	IS 2494 : Part 1 : 1994

ENDORSEMENT NO. 7 Dated 13 Nov 2017

Renewed for a further period of one year from Twenty Eighth November Two Thousand and Seventeen to Twenty Seventh November Two Thousand and Eighteen.

Other terms and conditions of Licence remain the same.

(PAWAN KUMAR KANDOI)
Sc. E & Head

MAX SPARE LIMITED
QUALITY. PRECISION. SPEED.

SAFETY PRECAUTIONS

Please take all necessary precautions when power Transmission Products use.

Power Transmission Products

Use

Danger

» If you expect that a belt will fail and idle, free-run, or stop the system, thus causing a fatal or severe accident, please provide an extra safety device.
» Do not use a belt as a lifting or towing tool.

Warning

» If you expect that static electricity will come from the power transmission belt system, thus causing fire or malfunction of the controller, use an antistatic belt and set a neutralization apparatus in the system.

Caution

» Do not use a belt as an insulator. Contact us for information on insulation properties which vary in belt type.
» For a belt that touches food directly, use on that complies with the application food hygiene law of your country.
» Do not modify a belt, or its quality and performance could deteriorate.

Function & Performance

Caution

» Do not use a belt beyond its capacity or for an application than that specified by the catalog, design documents, etc. This can cause premature failure of the belt.
» If water, oil, chemical, paint, dust, etc. sticks to a belt or pulley, its power transmission could deteriorate and the belt may fail.
» A cogged belt makes louder noise during high-speed rotation. If this occurs, use a soundproof cover.

Storage & Transportation

Warning

» To store a heavy belt, use a suitable jig or stopper to prevent accidents such as belt toppling or tumbling.

Caution

» Use suitable equipment or carry/handle a heavy belt or pulley. Otherwise, back injury may result.
» Do not put weight on or bend a belt forcibly to carry or store it. Otherwise, it will produce defects or scratches to the belt, resulting in damage.
» Store the belt in low humidity and a temperature range or - 10^{0}C to 40^{0}C. Do not expose belts to direct sunlight.

Mounting & Operation

Danger

» Install a safety cover over rotating components including belt/pulley. Otherwise, hair, gloves and clothing can become entangled in the belt/pulley. If a belt/pulley breaks, fragments may cause injuries.
» Take the following precautions to maintain, inspect and replace a belt.
1) Turn off power and wait until the belt and pulley have stopped completely.
2) secure machinery so that it may not move during belt removal.
3) Use caution : Do not unintentionally turn on power.

Caution

» Use the same type of belts or pulleys as per OEM specification. Use of a different type may cause premature failure.
» Misalignment of the pulleys can damage the belt and result in flange failure. Make proper adjustments to system.
Loosen the belt tension when changing belts, Do not force or stretch a belt over the flange. Do not use a screw driver or other sharp objects into when replacing the belt as this will result in damage.
» Apply the appropriate belt tension as specified by the relevant catalog and design documents, etc. Inappropriate tension could result in damage of the belt and shaft.
» Take the following precautions to modify the pulley in use :
1) Remove burrs and maintain proper pulley angle;
2) Secure accurate dimensions after modification;
3) Maintain the pulley strength after modification.
» Before assembling the flange with the pulley, check for foreign materials between the pulley and flange. Fasten the flange with a caulking tool and so on. Inappropriate installation could result in the flange coming off.

Handling of Used items

Caution

» Do not burn belt, or hazardous gas could be produced.

MAX SPARE
LIMITED
QUALITY. PRECISION. SPEED.

INDEX

INDEX

Edition - 2013 (090813)

MAX SPARE LIMITED
QUALITY. PRECISION. SPEED.

STANDARD PRODUCT RANGE

Max Spare manufacture a wide range of V-belts in various lengths as below.
Below table also shows minimum and maximum length range.

	Section	Manufacturing Range		Length Interval	Length Designation
		Minimum Length	Maximum Length		
WRAPPED BELTS	Z/FHP	7.5"/9''	110''/112''	0.5''	Li/La
	A	16''	450''	1''	Li
	B	19''	598''	1''	Li
	C	32''	590''	1''	Li
	D	75''	590''	1''	Li
	E	100''	590''	1''	Li
	SPZ	630 mm	4500 mm	5 mm	Lp
	SPA	725 mm	5000 mm	5 mm	Lp
	SPB	1250 mm	15000 mm	5 mm	Lp
	SPC	1400 mm	15000 mm	5 mm	Lp
	3V	250''	112''	0.5''	La
	5V	50''	600''	0.5''	La
	8V	100''	590''	0.5''	La
COGGED BELTS	ZX	22''	100''	0.5''	Li
	AX	22''	250''	0.5''	Li
	BX	24''	250''	0.5''	Li
	CX	24''	250''	0.5''	Li
	XPZ	550 mm	4000 mm	5 mm	Lp
	XPA	600 mm	5000 mm	5 mm	Lp
	XPB	600 mm	6300 mm	5 mm	Lp
	XPC	600 mm	6300 mm	5 mm	Lp
	3VX	24''	250''	0.5''	La
	5VX	24''	250''	0.5''	La
	8VX	24''	250''	0.5''	La
AUTOMOTIVE	9.5/AVX 10	600 mm	3000 mm	5 mm	La
	12.5/AVX 13	600 mm	3000 mm	5 mm	La
	16.5/AVX 17	600 mm	3000 mm	5 mm	La

Note : Unlisted sections and sizes available on request.
Abbrevation : Li - Inner Length, Lp - Pitch Length, La - Outer Length, Le - Effective Length

STANDARD PRODUCT RANGE

	Section	Manufacturing Range		Length Interval	Length Designation
		Minimum Length	Maximum Length		
WRAPPED BELTS	AA	75''	350''	1''	Li
	BB	75''	350''	1''	Li
	CC	75''	350''	1''	Li
	PT6B	80''	400''	1''	Li
	PT6C	80''	400''	1''	Li
	HA	50''	110''	1''	Li
	HB	75''	350''	1''	Li
	HC	75''	350''	1''	Li
	HSPB	1900 mm	8000 mm	5 mm	Lp
	H3V	50''	110''	1''	La
	H5V	75''	600''	1''	La
COGGED BELTS	HAX	24''	150''	1''	Li
	HBX	24''	150''	1''	Li
	HCX	40''	150''	1''	Li
	HXPZ	600 mm	3500 mm	5 mm	Lp
	HXPA	600 mm	3500 mm	5 mm	Lp
	HXPB	600 mm	3500 mm	5 mm	Lp
	HXPC	600 mm	3500 mm	5 mm	Lp
	H3VX	24''	150''	1''	La
	H5VX	24''	150''	1''	La
	H8VX	40''	150''	1'	La'
POLY BELT	PH	600 mm	4000 mm	5 mm	Le
	PJ	600 mm	4000 mm	5 mm	Le
	PK	600 mm	4000 mm	5 mm	Le
	PL	600 mm	4000 mm	5 mm	Le
	PM	600 mm	4000 mm	5 mm	Le
SP. CONST. BELTS	**Flat Belt**		Top width Min - 5 mm Max - 100 mm	Thickness Min - 2 mm Max - 6 mm	Length Min - 500 mm Max - 2500 mm
	Variable Speed Cogged Belt		Top width Min - 5 mm Max - 100 mm	Thickness Min - 8 mm Max - 24 mm	Length Min - 500 mm Max - 3000 mm
	Special Contruction Belts : Heavy Duty - All sections Wrap & REC. For size range, pl refer Pg. No. 1 & 2				
	Antistiatic Oil & Heal Resistance (AOH) : All wrapped Belt Sections. For size range, pl refer Pg. No. 1 & 2				
	Fire Resistance * Antistatic (FRAS) : All wrapped Belts & REC. For size range, pl refer Pg. No. 1 & 2				

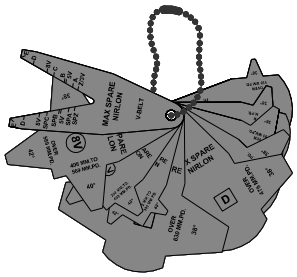
Note : Unlisted sections and sizes available on request.
Abbrevation : Li - Inner Length, Lp - Pitch Length, La - Outer Length, Le - Effective Length

PU - Belt : Round Belts - Dia 2mm to Dia 16mm

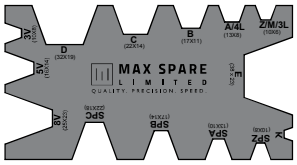
	Sections	Size	Length Range Min	Length Range Max
V - Belts	M	8 x 5	20''	185''
	Z	10 x 6	20''	185''
	A	13 x 8	20''	185''
	B	17 x 11	20''	185''
	C	22 x 14	20''	185''
	D	32 x 19	20''	185''

Maintenance Accessories of Maxspare Nirlon Belts.

Pulley Gauge

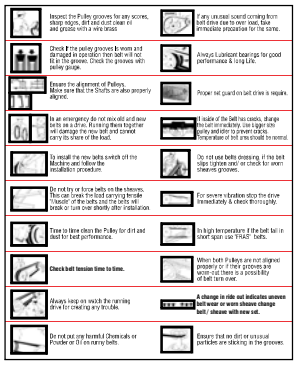


Angle Gauge



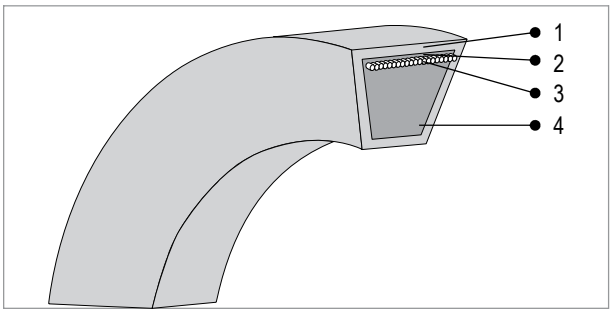
Belt Tensioner

Maintenance Guide Chart



Note : Unlisted sections and sizes available on request.
Abbrevation : Li - Inner Length, Lp - Pitch Length, La - Outer Length, Le - Effective Length

CLASSICAL BELTS



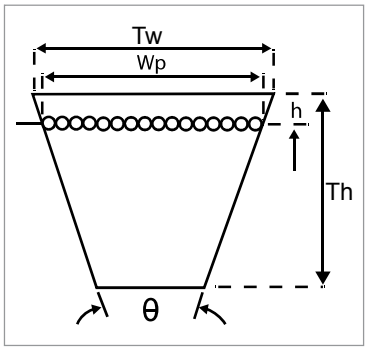
Max Spare Classical V-Belts are basic & commonly use in power transmission in all industries. The compound and construction of these belts gives required power rating and also increase factor of safety on critical drives.

Wrap Belt Construction -
1. Rubberised Fabric
2. Cushion Rubber
3. Polyester / Aramid Cord Layer
4. Base Rubber

Features:
- Top width to height ratio 1.6:1
- Temperature range: -18°C to + 80°C
- Maximum recommended belt speed is 30 m/sec
- Antistatic, Oil and Heat resistant

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.

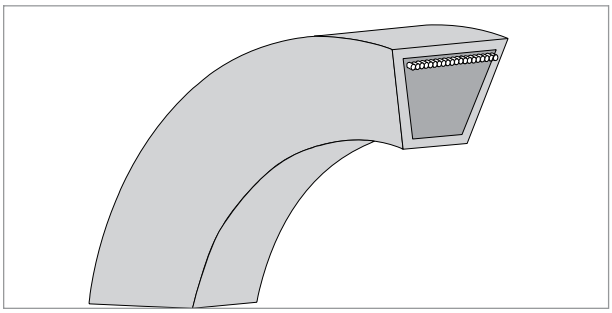
Standards, Dimensions & Product Range :
Max Spare manufacture the entire range of Classical V-belts. The nominal length designation for these belts is inside length (Li) in inches. The length conversion factors are mentioned in the specification sheet below.



Section	Dimentions		Angle (Deg.)	Pitch Width	Top to pitch	Belt Length Factor			Standard	Recommended Minimum Pulley	Manufacturing Range		
	Tw (mm)	Th (mm)		Wp (mm)	h (mm)	Lp to La mm	Li to Lp mm	Li to La mm		Diameter (mm)	Min (inch)	Max (inch)	Length Designation
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	16.0	450	Li
B	17	11	40	14.0	3.50	26	43	69	IS 2494, BS 3790, ISO 4184	112	19.0	598	Li
C	22	14	40	19.0	4.80	32	56	88	IS 2494, BS 3790, ISO 4184	180	32.0	598	Li
D	32	19	40	27.0	8.10	40	79	119	IS 2494, BS 3790, ISO 4184	355	75.0	598	Li
E	38	23	40	32.0	9.60	53	92	145	IS 2494	500	100.0	598	Li

For belt speed more than 30 m/s (pulleys must be dynamically balanced.)
Note : Unlisted sections and sizes available on request.
Abbrevation : Li - Inner Length, Lp - Pitch Length, La - Outer Length, Le - Effective Length

WEDGE BELTS



Wedge belts undergoes continous thrust on high power transmission working conditions with reduced space requirements. Wedge belts can transmit higher power upto 1.5 to 2 times the classical belts with the same top width. 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 cord is pre-strech before placing into the belt, It offers lower stretch properties in the drive. For the efficient performance of wedge drive it is essential that the proper tension to be maintained in the drive.

Applications :

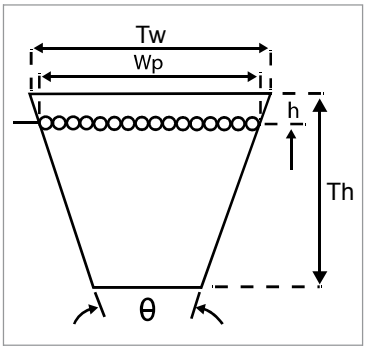
Wedge belts are widely used in all industrial applications from light duty drives of pumps to heavy duty stone crusher drives. In wedge belt drives, single belts can be replaced by banded belts without changing the pully configuration.

Feature :

- Maximum recommended belt speed 30 m/s (Pulley must be dynamically balanced)
- Permissible flex rate F = 100/sec
- Less deformation of the belt cross section when in contact with the pully ensures better contact between the belt flanks & the pulley grooves.
- Temperature Range: - 18°C to + 80°C

Maxspare manufacture the entire range of wedge belts.

The nominal length for wedge belts is designated as pitch length (Lp) in millimeter.

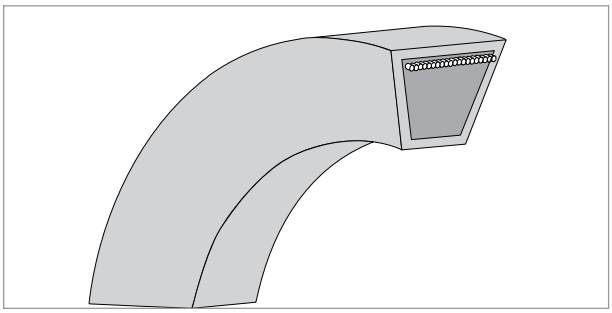


Standard Dimensions :

Section	Dimentions		Angle (Deg.)	Pitch Width	Top to pitch	Belt Length Factor			Standard	Recommended Minimum Pulley	Manufacturing Range		
	Tw (mm)	Th (mm)		Wp (mm)	h (mm)	Lp to La mm	Li to Lp mm	Li to La mm		Diameter (mm)	Min (mm)	Max (mm)	Length Designation
SPZ	10	8	40	8.5	2.00	13	37	50	BS 3790	63	630	4500	LP
SPA	13	10	40	11.0	2.75	18	45	63	BS 3790	90	725	5000	LP
SPB	17	14	40	14.0	3.50	28	60	88	BS 3790	140	1250	15000	LP
SPC	22	18	40	19.0	4.80	30	83	113	BS 3790	224	1400	15000	LP

Note : Unlisted sections and sizes available on request.
Abbrevation : Li - Inner Length, Lp - Pitch Length, La - Outer Length, Le - Effective Length

NARROW BELTS



Narrow belts are having high power transmission capability. These belts are manufactured according to specification RMA - IP 22.

Energy saving and compact design application.

Exchangeability is found between 3V and SPZ as well as between 5V and SPB sections. It is possible to use 3V & 5V section belts in pulleys of SPZ & SPB sections respectively but not recommended as the top width of the RMA standard pulleys are smaller section.

Applications :

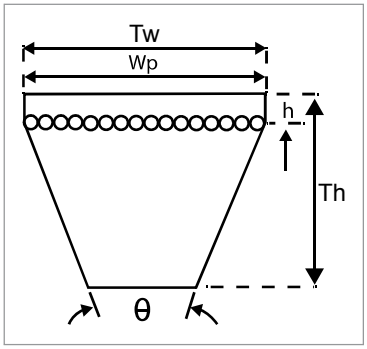
Narrow belts are mostly use in heavy duty drives. of pumps to heavy duty store crusher drives. eg. stone crushers.

Feature :

- Maximum recommended belt speed 30 m/s (pulleys must be dynamically balanced.)
- Temperature Range: - 18° C to + 80° C

Dimensions :

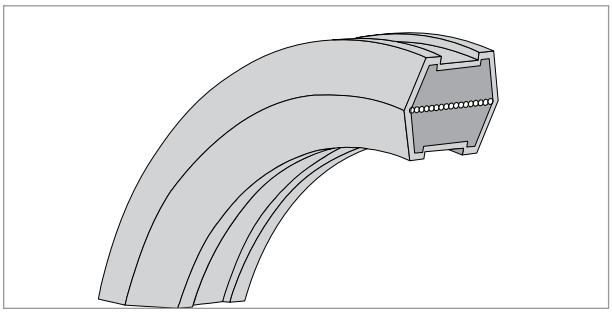
The standard length designation for Narrow belts is as follows :
Belt No 10 = outside length in inches.
5V 950 = 950 ÷ 10 = 95" outside length.



Section	Dimentions		Angle (Deg.)	Pitch Width (mm)	Belt Length Factor			Standard	Recommended Minimum Pulley	Manufacturing Range		
	Tw (mm)	Th (mm)			Lp to La mm	Li to Lp mm	Li to La mm		Diameter (mm)	Min (inch)	Max (inch)	Length Designation
3V	9.7	8	40	9.7	13	37	50	RMA IP 22	63	25	112	La
5V	15.8	14	40	15.8	25	60	85	RMA IP 22	140	50	600	La
8V	25.4	23	40	25.4	53	92	145	RMA IP 22	335	100	600	La

Note : Unlisted sections and sizes available on request.
Abbrevation : Li - Inner Length, Lp - Pitch Length, La - Outer Length, Le - Effective Length

HEXAGONAL BELTS



Hexagonal Belts are like Double V belts. The polyster tension cord is placed at the centre of the belt which provides extreme flexibility and low stretch properties. Because of this centre positioning of the cord these belts are not subject to any other forces like in the case of normal V belt.

Applications :

Hexagonal belts are use in the drive where several pulleys in same plane are to be driven in the clockwise and anti-clockwise direction simultaneously. These belts are used in rice mill.

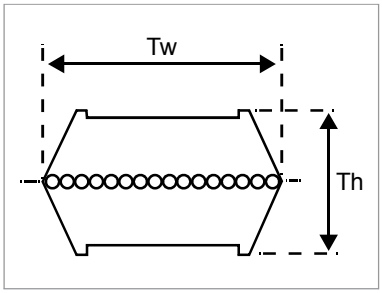
Feature :

- Maximum recommended belt speed 30 m/s (Pulley must be dynamically balanced)
- Temperature Range: -18^{0} C to $+80^{0}$ C

Drive Calculation :

Length of Hexagonal belt is considered as the effective length which is roughly the belt length at the centre. The drive calculation of Hexagonal Belts is different from general pulley drive. The effective lengths, rotational speed, transmission ratios and belts speed are determined by effective pulley diameters. Please contact us for assistance in using these belts.

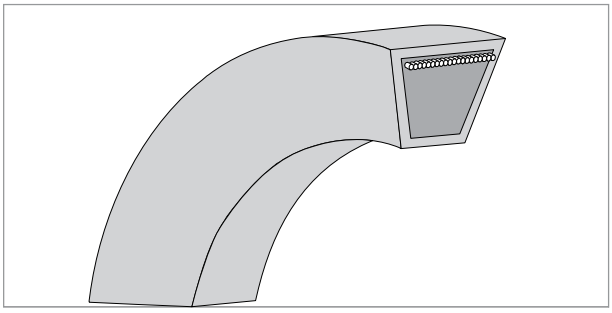
Section	Dimentions		Angle (Deg.)	Standard	Recommended Minimum Pulley	Manufacturing Range		
	Tw (mm)	Th (mm)			Diameter (mm)	Min (inch)	Max (inch)	Length Designation
AA	13	10	40	IS 11038, ISO 5289	80	75	350	Li
BB	17	14	40	IS 11038, ISO 5289	125	75	350	Li
CC	22	17	40	IS 11038, ISO 5289	224	75	350	Li



FRACTIONAL HORSE POWER BELTS (FHP/M)

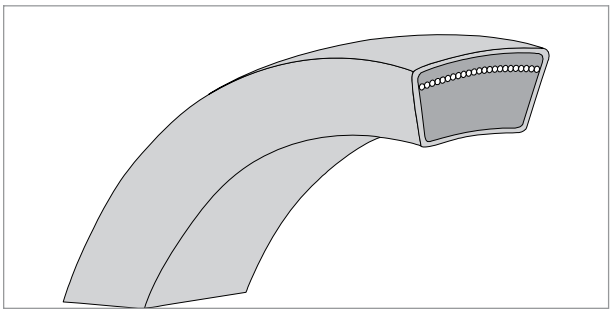
These belts are mainly used on Fractional Horse Power motors installed mainly in domestic appliances.

Series	2000
Top Width (mm)	10.0
Thickness (mm)	6.0
Angle (deg)	40.0
Range La (inches)	9" - 112"

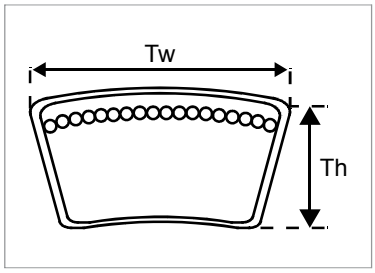


For belt speed more than 30 m/s (pulleys must be dynamically balanced.)
Note : Unlisted sections and sizes available on request.
Abbrevation : Li - Inner Length, Lp - Pitch Length, La - Outer Length, Le - Effective Length

HM BELTS



HM section belts are variable speed V-Belts, used in agricultural machineries.



Standard Dimensions :
The length of these belts are designated by pitch length in inches.

Cross Section Dimensions

Profile	HM	Standard
WP	47.30	IS 8777
W	50.80	IS 8777
T	22.20	IS 8777
B	7.60	IS 8777

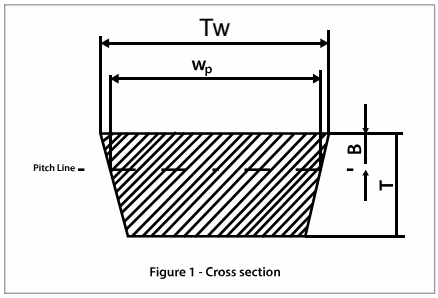
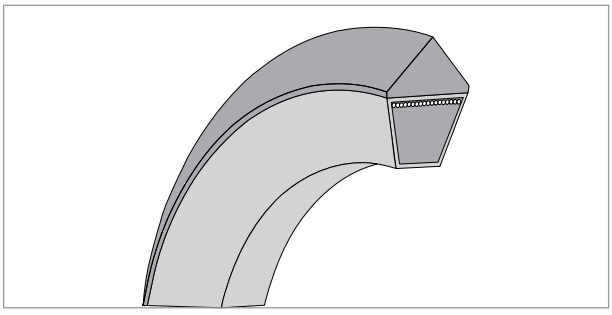


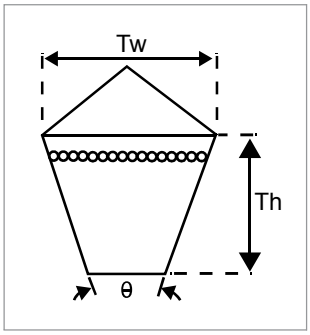
Figure 1 - Cross section

TOP PROFILE BELTS



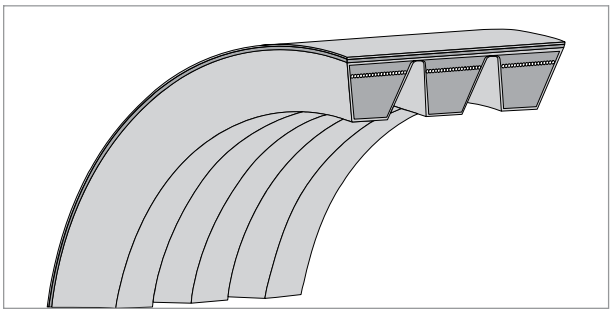
These belts are used as a dual function like to transmit the power and also to convey the material. Example in Ceramic industries, Food industries or Continuos Process Plants.

Section	Dimensions		Height of Pattern (mm)	Manufacturing Range		Length Designation
	Top Width (mm)	Thickness (mm)		Min (inch)	Max (inch)	
B (17 x 22)	17	22	11	80	400	Li
C (22 x 25)	22	25	11	80	400	Li



Note : Unlisted sections and sizes available on request.
Abbrevation : Li - Inner Length, Lp - Pitch Length, La - Outer Length, Le - Effective Length

BANDED BELTS



Maxspare Banded Belts are Joints of classical, wedge and Narrow belts. Each band contain specific nos of belts. Maximum five belts in one band is recommended.

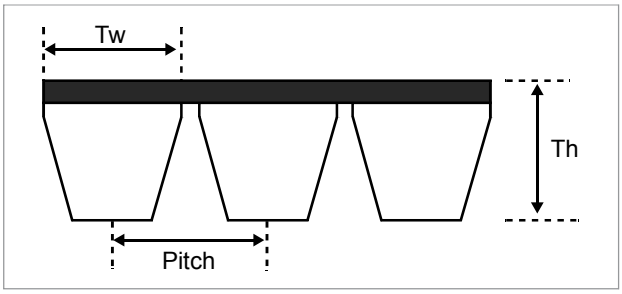
Applications :

Due to its robust construction Banded belts are used in severe vibrations, vertical shaft drives, Agricultural drives, conveyor systems etc.

Feature :

- Temperature Range: - 18° C to + 80° C
- Antistatic, Oil & Heat resistant
- FRAS belts are also available

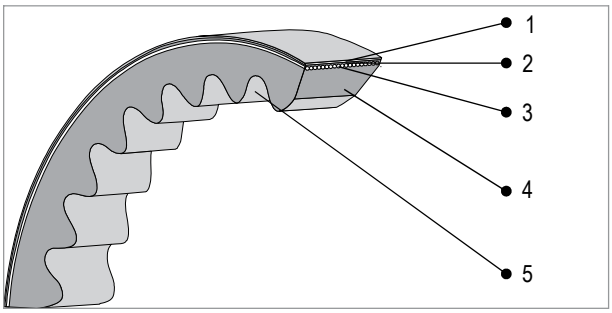
Note : Banded belts are high power belts. While using these belts it is recommended to use standard pulleys. (recommended for banded belts). We recommend that the customer should get back to us with details before using banded belts to enable us to provide the best solution. In proper design using banded belts can lead to premature failure of the drive systems.



Section	Dimentions		Angle (Deg.)	Pitch (mm)	Recommended Minimum Pulley Diameter (mm)	Manufacturing Range		Length Designation	Standard
	Tw (mm)	Th (mm)				Min (inch)	Max (inch)		
HA	13	10	40	15.9	80 de	50	110	Li	BS 3790
HB	17	13	40	19	130 de	75	350	Li	ISO 5291
HC	22	16	40	25.5	210 de	75	350	Li	ISO 5291
HSPB	17	16	40	19	160 dp	1900 mm	8000 mm	Lp	BS 3790
H3V	9.7	10	40	10.3	67 de	50	110	La	ISO 5290
H5V	15.8	16	40	17.5	180 de	75	600	La	ISO 5290

For belt speed more than 30 m/s (pulleys must be dynamically balanced.)
Note : Unlisted sections and sizes available on request.
Abbrevation : Li - Inner Length, Lp - Pitch Length, La - Outer Length, Le - Effective Length

RAW EDGE COGGED BELTS



Raw Edge Belts do not have fabric wrapping on the outer surface like wrapped belts. These belts are manufacture by slitting individual belts from rubber sleeve hence its called Raw Edge Belts.

Due to its simpler construction of these belts having cogs underside, helps to reduce the bending resistance of the belts and allowing them to operate on the smaller pulley diameter around approx 20% smaller.

This decreased bending resistance reduces mechanical losses and leads to improve working efficiency and reduced working temperature. Air turbulence around the cogs reduce further heat generation during working. These belts require a higher tension than the wrap belts to exhibit higher power transmission capability.

Cut Edge Belt Construction -

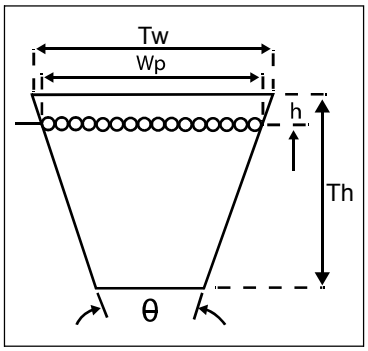
1. Rubberised Fabric
2. Cushion Rubber
3. Polyester / Aramid Cord Layer
4. Base Rubber
5. Bottom Cog

Raw Edge Belts are of three types :

a) REC Belts (Raw Edge Moulded Cogged Belts)
b) REP Belts (Raw Edge Plain Belts)
c) REL Belts (Raw Edge Laminated Belts)

Features :

- 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* (Pulley must be dynamically balanced)
- Antistatic, Oil & Heat resistant



Advantages :

The advantages of Raw Edge Moulded Cogged Belts over Wrap Belts are of great importance in following cases -

- Drives with very small pulley diameters.
- High ambient temperatures.
- High belt speeds.
- High level of power transmission.

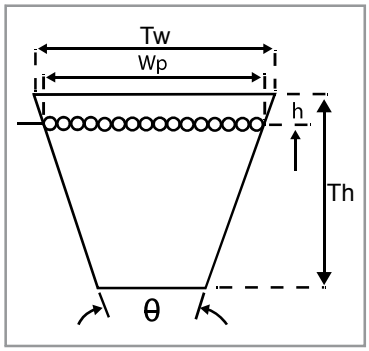
RAW EDGE CLASSICAL BELTS

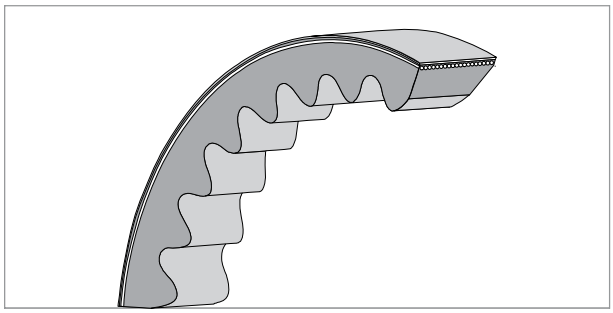
Section	Dimentions		Angle (Deg.)	Pitch Width	Top to pitch	Belt Length Factor			Standard	Recommended Minimum Pulley	Manufacturing Range		
	Tw (mm)	Th (mm)		Wp (mm)	h (mm)	Lp to La mm	Li to Lp mm	Li to La mm		Diameter (mm)	Min (inch)	Max (inch)	Length Designation
ZX	10	6	36	8.5	2.00	16	22	38	IS 2494, BS 3790	40	22	200	Li
AX	13	8	36	11.0	2.75	20	30	50	IS 2494, BS 3790	63	22	250	Li
BX	17	11	36	14.0	3.50	26	43	69	IS 2494, BS 3790	90	24	250	Li
CX	22	14	36	19.0	4.80	32	56	88	IS 2494, BS 3790	140	24	250	Li
DX	32	19	36	29	8.10	40	79	119	IS 2494, BS 3790	284	50	250	Li

For belt speed more than 30 m/s. Pulleys must be dynamically balanced.

Note : Unlisted sections and sizes available on request.
Abbrevation : Li - Inner Length, Lp - Pitch Length, La - Outer Length, Le - Effective Length

RAW EDGE WEDGE BELTS

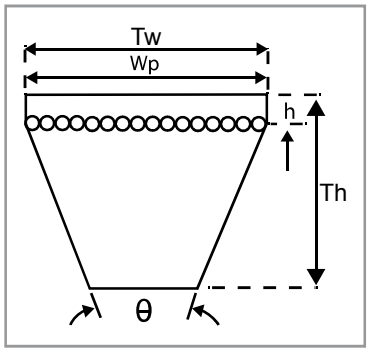


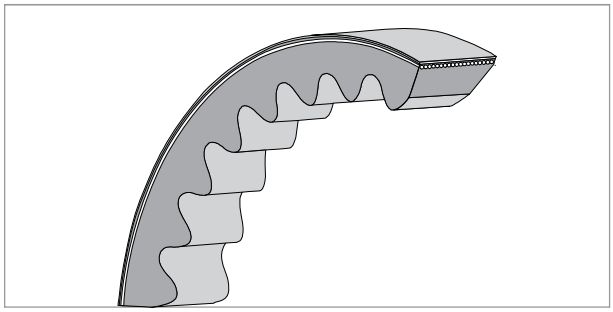


Section	Dimentions		Angle (Deg.)	Pitch Width	Top to pitch	Belt Length Factor			Standard	Recommended Minimum Pulley	Manufacturing Range	
	Tw (mm)	Th (mm)		Wp (mm)	h (mm)	Lp to La mm	Li to Lp mm	Li to La mm		Diameter (mm)	Min (mm)	Max (mm)
XPZ	10	8	36	8.5	2.00	13	37	50	BS 3790	56	600	4000
XPA	13	10	36	11.0	2.75	18	45	63	BS 3790	71	600	5000
XPB	17	14	36	14.0	3.50	28	60	88	BS 3790	112	600	6300
XPC	22	18	36	19.0	4.80	30	83	113	BS 3790	180	600	6300

For belt speed more than 30 m/s. Pulleys must be dynamically balanced.

RAW EDGE NARROW V - BELTS



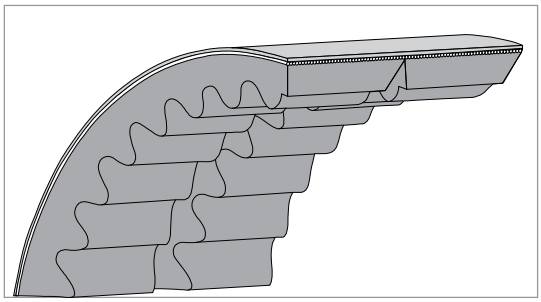


Section	Dimentions		Angle (Deg.)	Pitch Width	Belt Length Factor			Standard	Recommended Minimum Pulley	Manufacturing Range	
	Tw (mm)	Th (mm)		Wp (mm)	Lp to La mm	Li to Lp mm	Li to La mm		Diameter (mm)	Min (inch)	Max (inch)
3VX	9.7	8	38	9.7	13	37	50	RMA IP 22	56	24	250
5VX	15.8	14	38	15.8	25	60	85	RMA IP 22	112	24	250
8VX	25.4	23	38	25.4	53	92	145	RMA IP 22	254	24	250

For belt speed more than 30 m/s. Pulleys must be dynamically balanced.

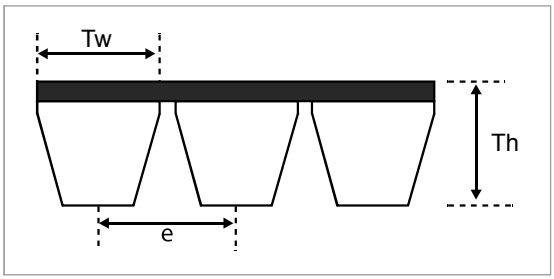
For belt speed more than 30 m/s (pulleys must be dynamically balanced.)
Note : Unlisted sections and sizes available on request.
Abbrevation : Li - Inner Length, Lp - Pitch Length, La - Outer Length, Le - Effective Length

RAW EDGE MOULDED COGGED BANDED BELTS

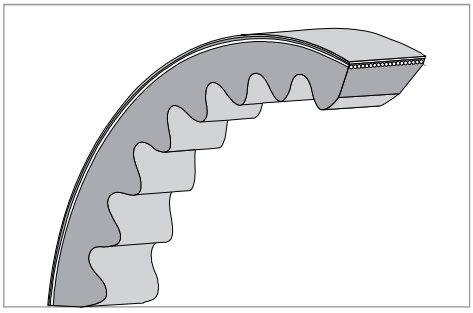


Standard : Conforms to ISO 5291, BS 3790, ISO 5290 & DIN 7753

Section	Dimentions		Angle (Deg.)	Pitch (mm)	Manufacturing Range		Length Designation
	Tw (mm)	Th (mm)			Min (inch)	Max (inch)	
HAX	13.0	10.0	38	15.9	24''	150"	Li
HBX	17.0	13.0	38	19.0	24''	150"	Li
HCX	22.0	16.0	38	25.5	40"	150"	Li
HXPZ	10.0	10.0	38	12.0	600 mm	3500 mm	Lp
HXPA	13.0	12.0	38	15.0	600 mm	3500 mm	Lp
HXPB	17.0	16.0	38	19.0	600 mm	3500 mm	Lp
H3VX	9.7	10.0	38	10.3	24"	150"	La
H5VX	15.8	16.0	38	17.5	24"	150"	La



RAW EDGE AUTOMOTIVE BELTS

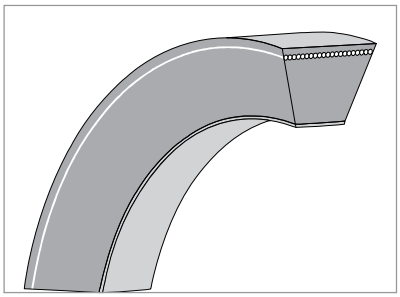


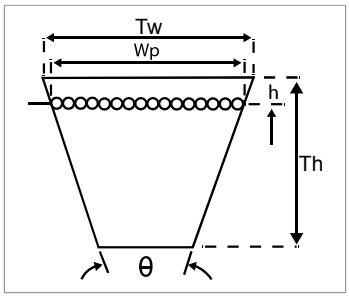
Section	Top Width (mm)	Thickness (mm)	Angle (Deg.)	Length (mm)		Length Designation
				From	To	
X9.5 / AVX10	10.0	8.0	38	500	3000	La
X12.5 / AVX13	13.0	10.0	38	500	3000	La
X13A	13.5	9.0	38	600	3000	Le
X17A	18.5	11.0	38	600	3000	Le

For belt speed more than 30 m/s (pulleys must be dynamically balanced.)
Note : Unlisted sections and sizes available on request.
Abbrevation : Li - Inner Length, Lp - Pitch Length, La - Outer Length, Le - Effective Length

RAW EDGE PLAIN BELTS

Special top fabric layer.
Specially treated & stabilised polyester cord.
Polychloroprene cushion rubber compound.
Fibre filled polychloroprene base compound.
Special bottom fabric layers.



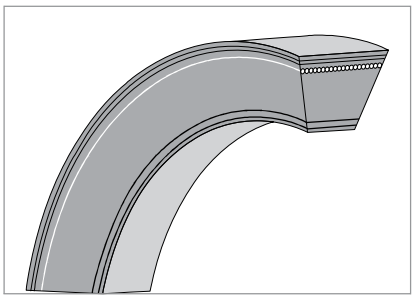


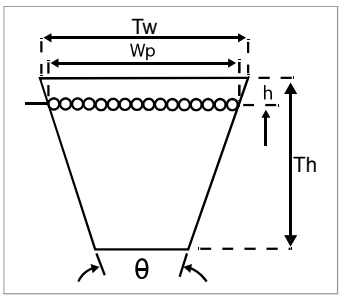
Construction :
The construction REP (Raw Edge Plain) belts is similar to Raw Edge Moulded Cogged belts except it has one special bottom fabric layer.

Standards, Dimensions & Product Range :
Same as that of REC (Raw Edge Moulded Cogged) belts (Refer Page 10 & 11)

RAW EDGE LAMINATED BELTS

Special top fabric layer
Spedicially treated & stabilised polyester cord
Polychloroprene cushion rubber compound
Fibre filled polychloroprene base compound.
Special bottom fabric layer.





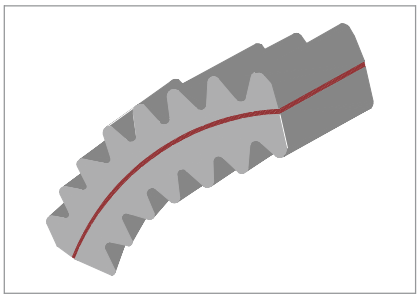
Construction :
Raw Edge Plain Belts (REP) may or may not have a fabric layer at the bottom, but Raw Edge Laminated Belts (REL) will have more than one bottom layer. As a result they are excellent in resistance to transverse compression.

Standards, Dimensions & Product Range :
Same as that of Raw Edge Cogged belts (Refer page 10 & 11)

DOUBLE COGGED BELTS

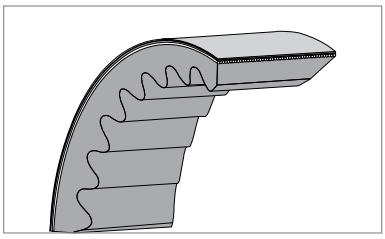
This special construction allows the use of belts on small pulley diameters due to increase flexibility.

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



For belt speed more than 30 m/s (pulleys must be dynamically balanced.)
Note : Unlisted sections and sizes available on request.
Abbrevation : Li - Inner Length, Lp - Pitch Length, La - Outer Length, Le - Effective Length

VARIABLE SPEED BELTS



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

Max Spare - Cogged Variable Speed Belts :
As per ISO 3410:1989 Standard

Section	Angel	Manufacturing Range		Length Designation
		Min (mm)	Max (mm)	
17 x 8	40	600	1262	Li
25 x 13	30	600	5000	Li
32 x 15	34	600	5000	Lp
38 x 18	30	800	5000	Lp
45 x 20	30	1000	5000	Lp
51 x 20	34	1500	5000	Lp
58 x 25	30	1500	5000	Lp
64 x 25	30	1500	5000	Lp

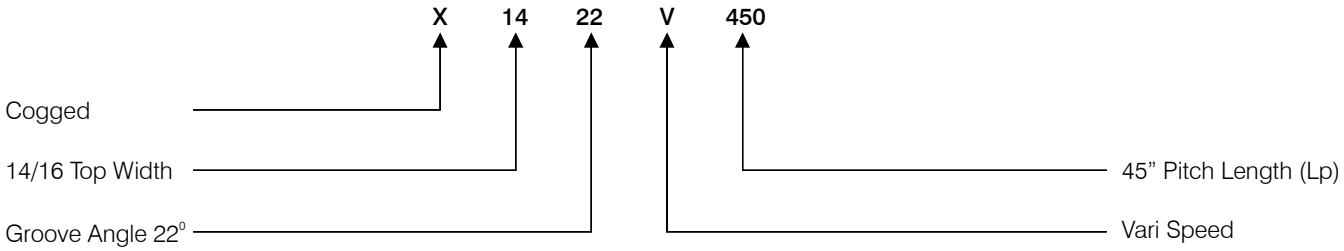
Note : Other non-standards sizes are also available.

Non-Standard Sizes

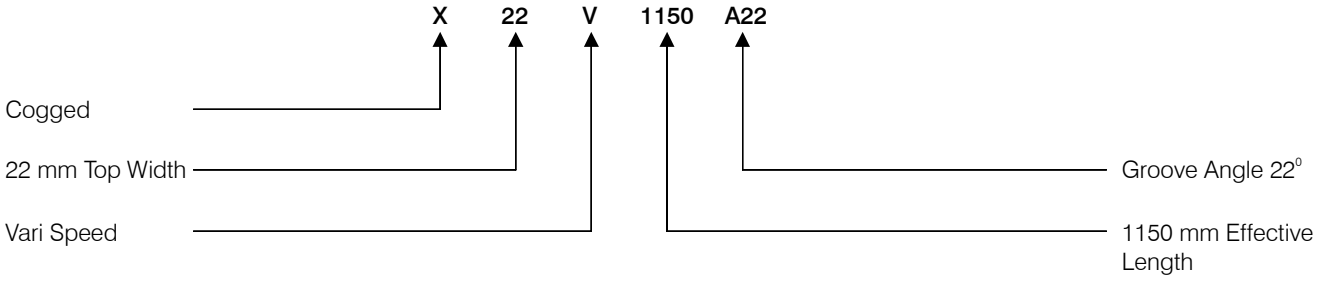
Section	Angel	Manufacturing Range		Length Designation
		Min (mm)	Max (mm)	
13 x 11	40	600	2500	La
15 x 09	40	600	5000	Lp
19 x 11	40	600	5000	Lp
21 x 09	40	600	2500	Lp
22 x 16	40	600	5000	Li
30 x 32	30	700	5000	Lp
33 x 22	30	1000	5000	La
38 x 23	26	1000	5000	La
40 x 20	30	1000	5000	Lp
68 x 24	32	1500	5000	Lp

Max Spare - Variable Speed Belts :

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



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



For belt speed more than 30 m/s (pulleys must be dynamically balanced.)
Note : Unlisted sections and sizes available on request.
Abbrevation : Li - Inner Length, Lp - Pitch Length, La - Outer Length, Le - Effective Length

VARIABLE SPEED BELTS

Max Spare - Variable Speed Belts :
Manufacturing Range : As per RMA IP 25/1991 Standard (Dimensions in mm)

Cross Section	Top Width (Nominal) (mm)	Thickness (Nominal) (mm)	Angel (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	5000
30V - A22 / 1922V	30	10	22	20	42	62	700	5000
37V - A22 / 2322V	37	11	22	23	46	69	700	5000
30V - A26 / 1926V	30	11	26	23	46	69	700	5000
46V - A26 / 2926V	46	13	26	27	55	82	700	5000
51V - A26 / 3226V	51	13	26	27	55	82	700	5000
40V - A30 / 2530V	40	15	30	30	65	95	700	5000
51V - A30 / 4430V	51	16	30	33	67	100	700	5000
70V - A30 / 4430V	70	18	30	37	77	114	700	5000
64V - A36 / 4036V	64	18	36	37	77	114	700	5000
70V - A36 / 4436V	70	18	36	37	77	114	700	5000
76V - A36 / 4836V	76	19	36	39	81	120	700	5000

REC / REP VARIABLE SPEED BELTS

Max Spare - Variable Speed Belts :
Manufacturing Range : Non- Standard Variable Speed Belts

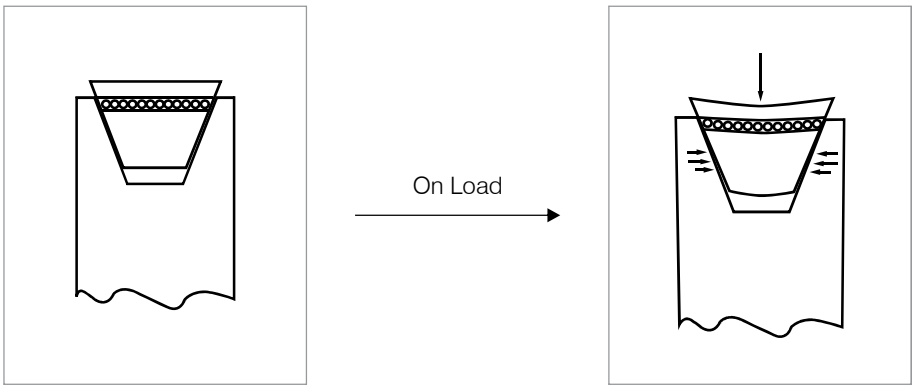
Thickness	Manufacturing Range		Length Designation
	Minimum (inch)	Maximum (inch)	
5.00 mm (REC / REP)	23.5	86	Li
8.00 mm (REC / REP)	24	200	Li
9.00 mm (REC / REP)	24	200	Li
10.00 mm (REC / REP)	24	200	Li
11.00 mm (REC / REP)	24	200	Li
12.00 mm (REC / REP)	24	200	Li
13.00 mm (REC / REP)	27	200	Li
14.00 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)	26	200	Li
18.00 mm (REC / REP)	26	200	Li
19.00 mm (REC / REP)	26	200	Li
20.00 mm (REC / REP)	26	200	Li
21.00 mm To 30.00 mm (REC)	26	200	Li
20.00 mm To 22.00 mm (REP)	26	200	Li

Note : These belts can be manufactured with following dimensions.
1. Top width : 10 mm - 82mm
2. Angle : 22^{0} - 60^{0}

For belt speed more than 30 m/s (pulleys must be dynamically balanced.)
Note : Unlisted sections and sizes available on request.
Abbrevation : Li - Inner Length, Lp - Pitch Length, La - Outer Length, Le - Effective Length

HEAVY DUTY V-BELTS

Maxspare Heavy Duty V-Belts has a long reputation for reliability on agricultural and industrial application. Maxspare Power Heavy Duty belt provides superior strength to prevent premature failure and destruction of the tensile strength. The cord are properly aligned, each of them carring its full share of load.
When torque is applied to the belts, they set deflected in the pulley groove (see below fig.)



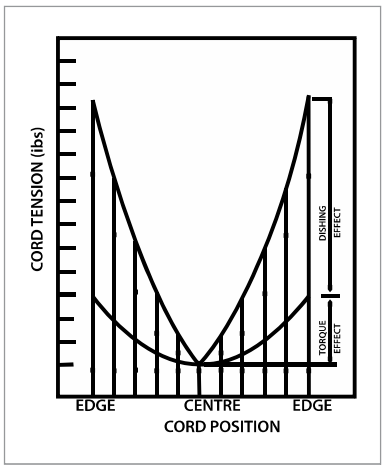
Deflection of Standard belt under load.

The Special Weave oil and heat resistant cover increases the angle facing the direction of pull load. As a result, the special Weave fabric develops even less stress amount of bending.

Sections and nominal dimensions Identification :
Durable MAX SPARE POWER HEAVY DUTY marking indicating type and dimensions.

Construction :
- All Cross - Section.
- The Special Weave oil and heat resistant cover protects the belt core from the toughest environments.
- The Vulcanised Superier-bonded tensile cords protects the belt core from the toughest environments.
- The Vulcanised Superior-bonded tensile cords provide superior resistance tensile and flexing forces, fatigue and shock loads.
- High-quality rubber compound protects the belt against heat, ozone and sun light.
- Anti Static properties provided to run in fire hazardeaus environment.

Features :
- Excellent performance/cost ratio.
- Reliability and efficiency.
- Long belt life reducing replacement and maintenance costs.
- Length Match System : All sizes meet Max Spare power Heavy duty Unilength Set tolerences.



Load distribution across tension member

ANTISTATIC OIL & HEAT RESISTANCE BELTS (AOH)

AOH belts are highly suitable in fire hazardous, oily and hot environment.

Features :

- Special material that resist oil, heat, sunlight, ozone, weathering and ageing.
- High power transmission capacity in comparison to regular belts.
- Belts are available in all sections.

FIRE RESISTANT & ANTISTATIC BELTS (FRAS)

In sensitive working environment like Coal mines & Petro chemical installations requires V-belts having fire resistant properties apart from normal anti-static properties.
Maxspare FRAS V-Belts are suitable and had proven for such sensitive working environments.
FRAS belts are comply with all requirement of IS 2494 part II &BS - 3790.

Dimensions & Range :

- All wrapped Belts & Cogged Belt Sections.
- Refer Page 1 & 2 for manufacturing range.

Features :

- Highly recommended for the Hazardeous (sensitive) working area.
- Maxspare offer any section size on demend.
- Maximum recommended belt speed - 30 m/s
  (Pulley must be dynamically balance)

Note : Unlisted sections and sizes available on request.
Abbrevation : Li - Inner Length, Lp - Pitch Length, La - Outer Length, Le - Effective Length

SET FREE CONCEPT

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

Set Free Concept is applicable for industrial belts which are produced in accordance with the standard BS 3790. Tolerances followed for Max Spare Set Free Belts are must 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.

Max Spare Set Free 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 15240 mm (600 inches)	± 6

Max Spare Set Free V-Belt Tensioning :

Max Spare Set Free 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 PIC Belts and tension them as per the procedure given on Page No. 84. 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 No. 85)

DRIVE DESIGN PROCEDURE FOR V-BELTS

Drive Design Procedure for V-Belts:

To obtain the 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)

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

STEP 2: Select Service Facter (K)

Service factor is obtained from Table1 on page 23

STEP 3: Calculate Design Power (Pd)

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

STEP 4: Select Belt Cross Section

Belt cross section is obtained from charts I, II & III on pages 24 to 26. When the point of intersection falls on or near the dividing line, feasibility of both cross section should be checked.

STEP 5: Select Pulley Pitch Diameters

Refer Tables 2 & 3 on pages 27 & 28 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 ©

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

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 22 on pages 29 to 71 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 23 & 24 on page 72 to 75 for arc of Contact Correction Factor & Belt Pitch Length Correction Factor respectively.

STEP 9: Find Number of Belts (N)

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

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

DRIVE DESIGN EXAMPLE (CLASSICAL)

Drive Design Example (Classical):

Condition 1: Prime mover A. C. motor; 80kW, 1450 r.p.m. (Driver)

Condition 2: Reciprocating pump, 345 r.p.m., 18 hours per day

Condition 3: Approximate centre distance 1175 mm

STEPS FORMULA

STEP 1 **Speed Ratio (S_R) = R/r**

STEP 2 **Service Facter (K) from Table1 on page 23**

STEP 3 **Design Power (Pd) = P x K**

STEP 4 **Belt Cross Section refer Chart I on page 24**

STEP 5 **Pulley pitch diameters from Tables 2 page 27**

STEP 6 **Belt Pitch length (Lp) & Centre dist. ©**

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

Choose the nearest standard Lp from page 1 & 2.

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

$$A = \frac{L}{4} - 03925\,(D + d)$$

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

STEP 7 **Power Rating (P) = Rated power + Additional power for speed ratio from Table 7 on page 34.**

STEP 8 **Arc of Contact Correction factor (Fc) from table 23 on page 72 and Power Correction Factors for Belt Pitch Length (Fd) from table 24 on page 73.**

STEP 9 Number of belts (N) = $\frac{Pd}{P \times Fc \times Fd}$

STEP 10 **Summary**

1. Smaller pulley fitted to prime mover.
2. Larger pully fitted to reciprocating pump.
3. Classical belts required.
4. Centre Distance.

CALCULATIONS

See above given condition 1 & 2

$S_R = R/r = 1450/345 = 4.20$

$K = 1.4$

$Pd = 80 \times 1.4 = 112kW$

Belt section indicated is "C"

$d = 200$ mm, $D = 840$ mm

$$Lp = 2\,(1175) + 1.57\,(840 + 200) + \frac{(840 - 200)^2}{4 \times 1175}$$

$Lp = 4069.95$ mm

Standard Lp = 4058 mm

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

$$A = \frac{4058}{4} - 0.3925\,(840 + 200)$$

$A = 1014.50 - 408.20 = 606.30$

$$B = \frac{(840 - 200)^2}{8} = 51200$$

$$C = 606.30 + \sqrt{(606.30)^2 - (51200.00)}$$

$C = 1169$ mm

$P = 9.24\,kW + 1.48\,kW$

$p = 10.72\,kW$

$Fc = 0.98$

$Fd = 1.01$

$$N = \frac{112}{10.72 \times 0.98 \times 1.01} = 10.56 \text{ (say 11 belts)}$$

- Smaller pulley of 200 mm pitch dia. with 11 grooves of "C" section.
- Larger pulley of 840 mm pitch dia, with 11 grooves of "C" section.
- 11 belts of "C" section each of 4058 mm pitch length.
- 1169 mm.

DRIVE DESIGN EXAMPLE (WEDGE)

Drive Design Example (Wedge):

Condition 1 : Norma torque A. C. electric motor 6.5kW, 1440 r.p.m. (Driver)

Condition 2 : Centrifugal pump, 765 r.p.m., continuous running

Condition 3 : Approximate centre distance 565 mm

STEPS FORMULA

STEP 1 **Speed Ratio (S_R) = R/r**

STEP 2 **Service Facter (K) from Table1 on page 23**

STEP 3 **Design Power (Pd) = P x K**

STEP 4 **Belt Cross Section refer Chart II on page 25**

STEP 5 **Pulley pitch diameters from Tables 2 page 27**

STEP 6 **Belt Pitch length (Lp) & Centre dist. ©**

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

Choose the nearest standard Lp from page 11.

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

$$A = \frac{L}{4} - 03925\,(D + d)$$

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

STEP 7 **Power Rating (P)** = Rated power + Additional power for speed ratio from Table 10 on page 41 & 42.

STEP 8 Arc of Contact Correction factor (Fc) from table no. 23 on page 72 and Power Correction Factors for Belt Pitch Length (Fd) from table 24 on page 74.

STEP 9 **Number of belts (N)** = $\frac{Pd}{P \times Fc \times Fd}$

STEP 10 **Summary**

1. Smaller pulley fitted to prime mover.
2. Larger pully fitted to reciprocating pump.
3. Classical belts required.
4. Centre Distance.

CALCULATIONS

See above given condition 1 & 2

$S_R = R/r = 1440/765 = 1.88$

$K = 1.2$

$Pd = 6.5 \times 1.2 = 7.80$ kW

Belt section indicated is "SPZ"

$d = 85$ mm, $D = 160$ mm

$$Lp = 2\,(565) + 1.57\,(160 + 85) + \frac{(160 - 85)^2}{4 \times 565}$$

$Lp = 1517.14$ mm

Standard Lp = 1505 mm

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

$$A = \frac{1505}{4} - 0.3925\,(160 + 85)$$

$= 376.25 - 96.16 \quad A = 280.09$

$$B = \frac{(160 - 85)^2}{8} = 703.13$$

$$C = 280.09 + \sqrt{(280.09)^2 - (703.13)}$$

$C = 558.92$ mm

$P = 1.81$ kW + 0.23 kW

$= 2.04$ kW

$Fc = 1.00$

$Fd = 0.99$

$$N = \frac{7.8}{2.04 \times 1.00 \times 0.99} = 3.86 \text{ (say 4 belts)}$$

- Smaller pulley of 85 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 1505 mm pitch length
- 559 mm.

DRIVE DESIGN EXAMPLE (RAW EDGE COGGED)

Drive Design Example (Raw Edge Cogged):

Condition 1 : Norma torque A. C. electric motor 80kW, 1450 r.p.m. (Driver)

Condition 2 : Centrifugal pump, 328 r.p.m., 18 hrs. per day

Condition 3 : Approximate centre distance 990 mm

STEPS FORMULA

STEP 1 **Speed Ratio (S_R) = R/r**

STEP 2 **Service Facter (K) from Table1 on page 23**

STEP 3 **Design Power (Pd) = P x K**

STEP 4 **Belt Cross Section refer Chart II on page 25**

STEP 5 **Pulley pitch diameters from Tables 3 page 28**

STEP 6 **Belt Pitch length (Lp) & Centre dist. ©**

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

Choose the nearest standard Lp from page 1 & 2.

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

$$A = \frac{L}{4} - 03925\,(D + d)$$

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

STEP 7 **Power Rating (P)** = Rated power + Additional power for speed ratio from Table 21 on page 66 to 68.

STEP 8 Arc of Contact Correction factor (Fc) from table 23 on page 72 and Power Correction Factors for Belt Pitch Length (Fd) from table 24 on page 73 to 75.

STEP 9 Number of belts (N) = $\frac{Pd}{P \times Fc \times Fd}$

STEP 10 **Summary**

1. Smaller pulley fitted to prime mover.
2. Larger pully fitted to reciprocating pump.
3. Cut Edge Cogged belts required.
4. Centre distance.

CALCULATIONS

See above given condition 1 & 2

$S_R = R/r = 1450/328 = 4.42$

$K = 1.4$

$Pd = 80 \times 1.4 = 112\,kW$

Belt section indicated is "XPB"

$d = 132$ mm, $D = 584$ mm

$$Lp = 2\,(990) + 1.57\,(584 + 132) + \frac{(584 - 132)^2}{4 \times 990}$$

$Lp = 3155.71$ mm

Standard $Lp = 3155$ mm

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

$$A = \frac{3155}{4} - 0.3925\,(584 + 132)$$

$$= 788.75 - 281.03 = 507.72$$

$$B = \frac{(584 - 132)^2}{8} = 25538.00$$

$$C = 507.72 + \sqrt{(507.72)^2 - (25538.00)}$$

$C = 990$ mm

$P = 8.08\,kW + 1.03\,kW$

$p = 9.11\,kW$

$Fc = 0.98$

$Fd = 0.98$

$$N = \frac{112}{8.08 \times 0.98 \times 0.98} = 14.43 \text{ (say 15 belts)}$$

- Smaller pulley of 132 mm pitch dia. with 15 grooves of "XPB" section.
- Larger pulley of 584 mm pitch dia. with 15 grooves of "XPB" section.
- 15 betls of "XPB" section each of 3155 mm pitch length
- 990 mm.

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

TYPE OF DRIVEN MACHINE	SERVICE FACTORS					
Examples	Working Hours Soft Start +			Working Hours 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 (upto 7.5 kW), Centrifugal compressors & pumps, Belt conveyors (uniformly located)	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 located). Generators & excitors, laundry machinery, fine shafts, machine tools, printing machinery saw mill & wood working machinery.	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. start, 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.

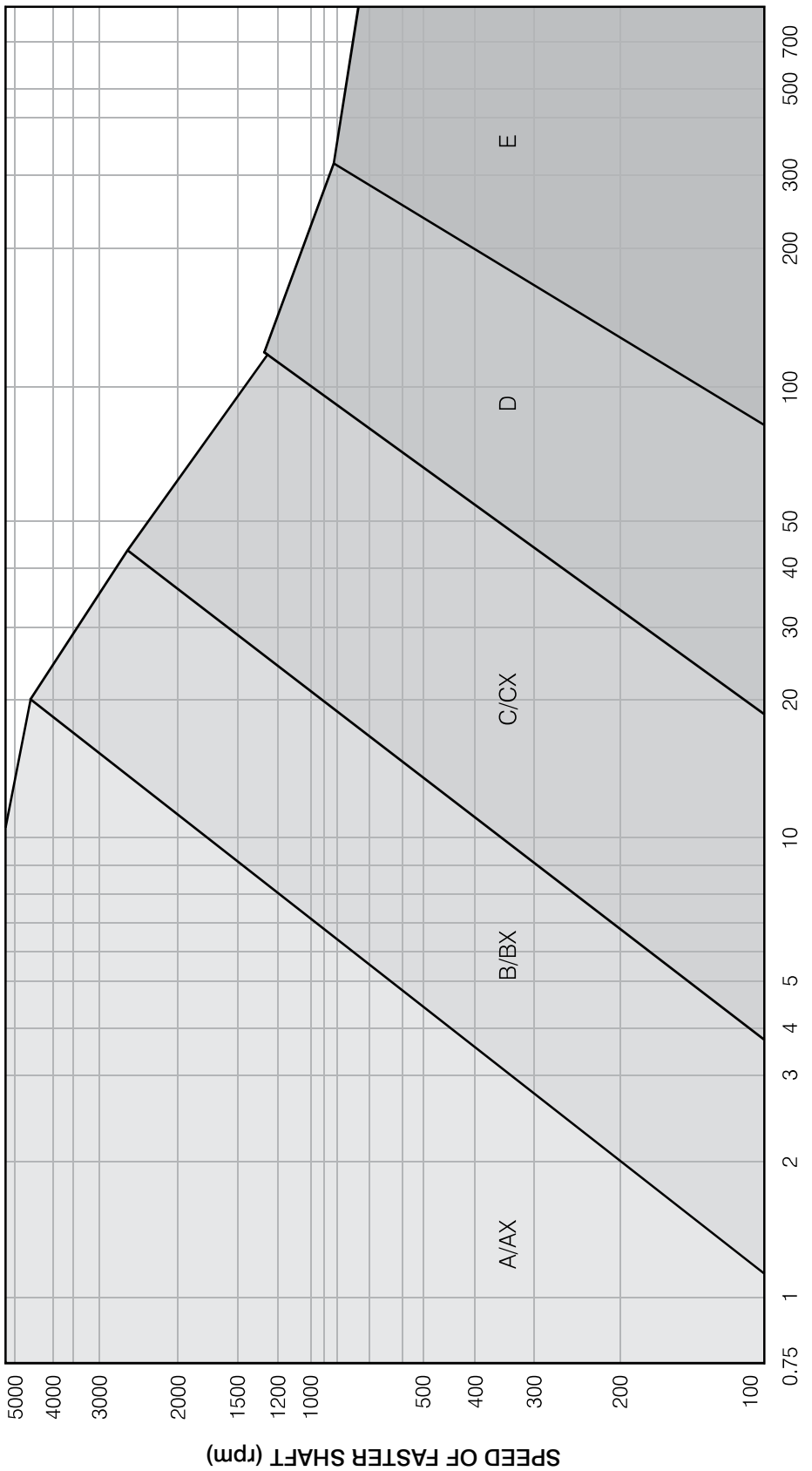
Special Conditions :

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 (inernal), 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, Max Spare Technical Services department should be consulted.

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

CHART 1 :
Selection of V-Belts Cross Section



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 2 :
Selection of V-Belts Cross Section

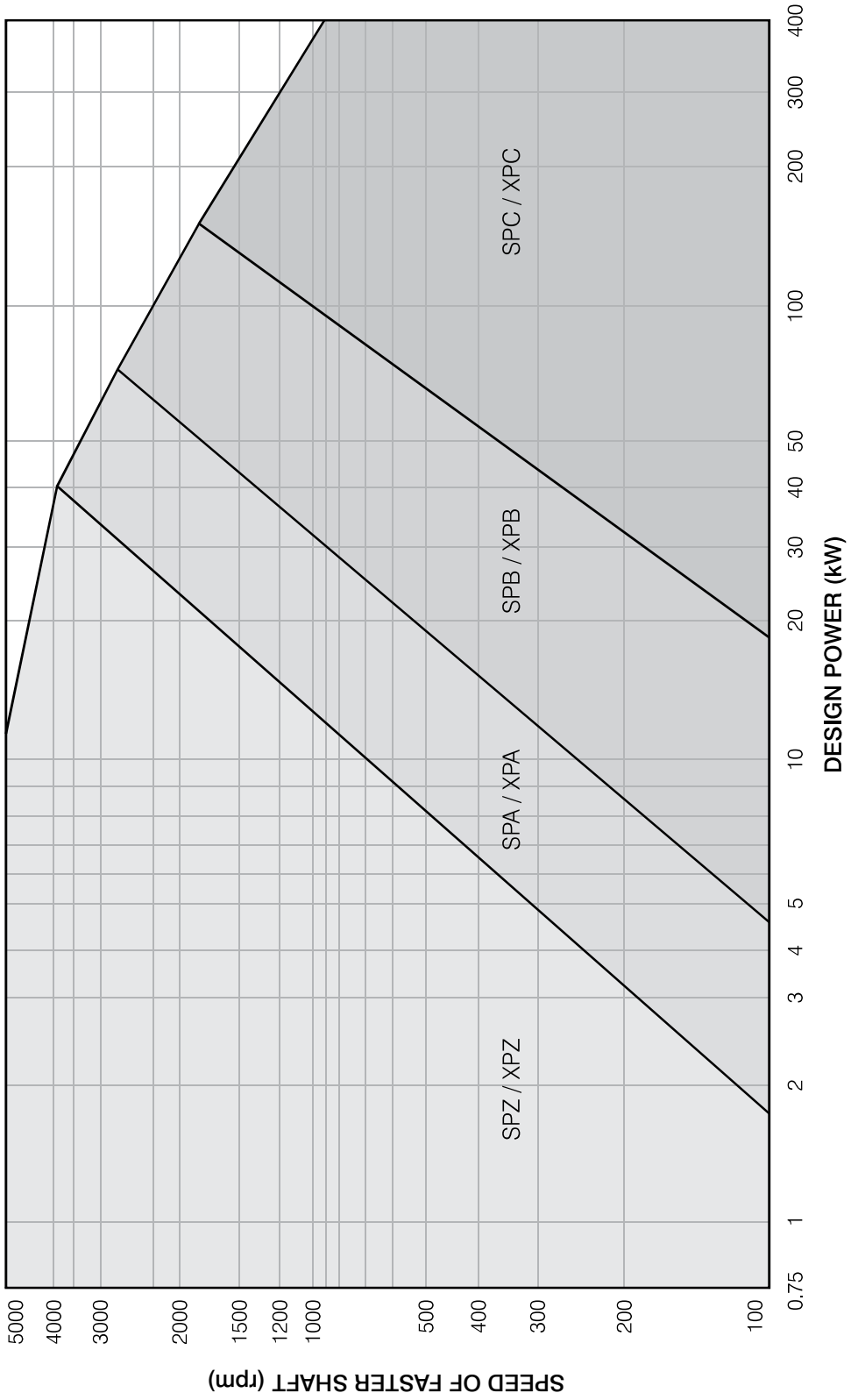


CHART 3 :
Selection of V-Belts Cross Section

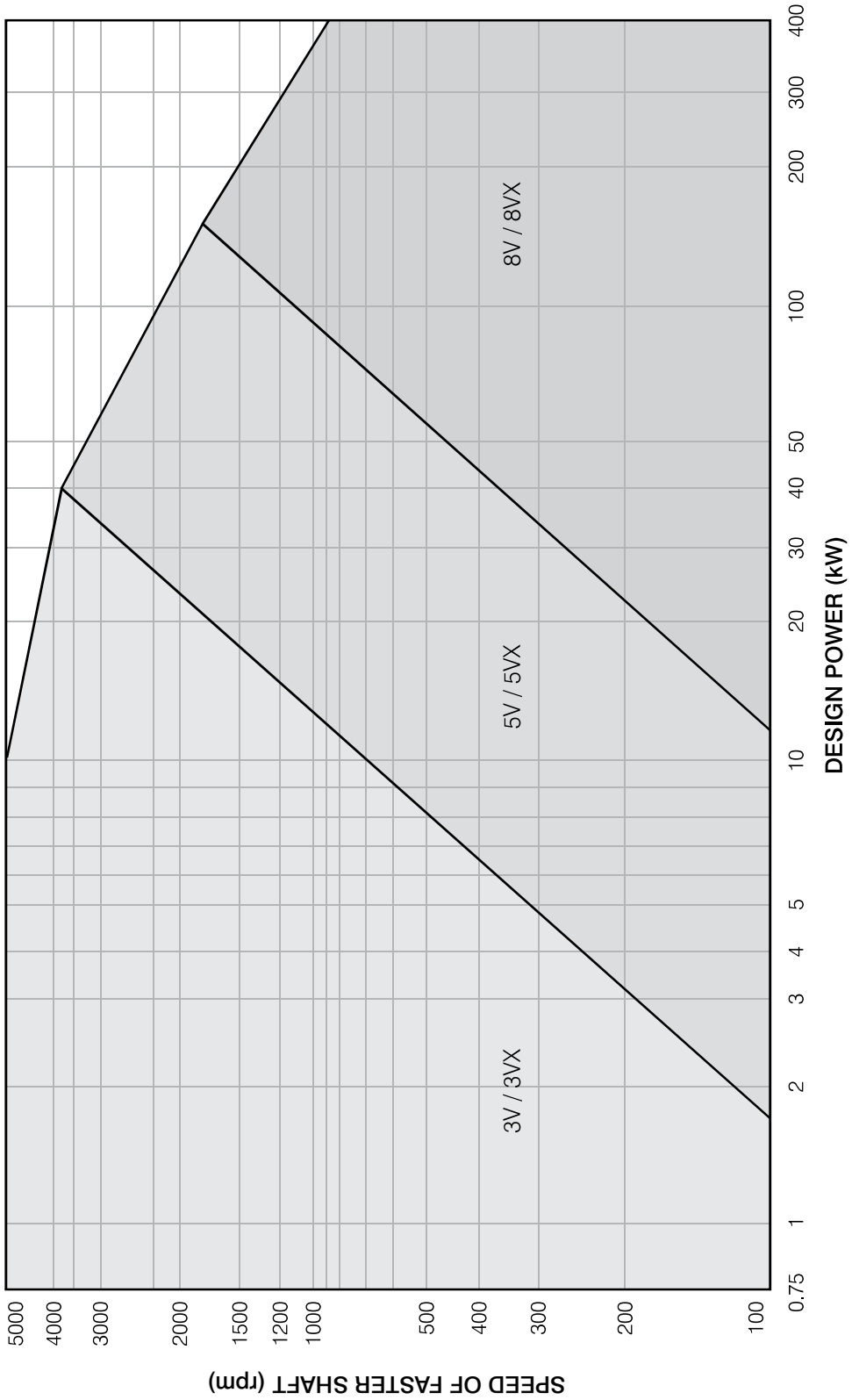


Table 2 : Standard Pulley Pitch Diameters for Faster Shaft

Z	A	B	C	D	E	SPZ/3V	SPA	SPB/5V	SPC	8V
50	71	112	180	355	500	63	90	140	224	335
53	75	118	190	375	560	67	95	150	236	355
56	80	125	200	400	630	71	100	160	250	375
60	85	132	212	425	670	75	106	170	265	400
63	90	140	224	450	710	80	112	180	280	425
67	95	150	236	475	750	85	118	190	300	450
71	100	180	250	500	800	90	125	200	315	475
75	106	170	265	530	860	95	132	212	335	500
80	112	180	280	560	900	100	140	224	355	530
85	118	190	300	600	950	106	150	236	375	560
90	125	200	315	630	1000	112	160	250	400	600
95	132	212	335	670	1120	118	170	265	450	630
100	140	224	355	710	1250	125	180	280	500	670
112	150	236	375	750	1400	132	190	315	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 Diameters 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 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	0.24	0.29	0.35	0.43	0.52	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	0.63	0.75	0.90	1.07	1.24	1.42	0.01	0.03	0.08	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	0.17	0.20	0.22	0.26	0.30	0.00	0.00	0.00	0.00
300	0.09	0.15	0.18	0.21	0.24	0.30	0.33	0.39	0.45	0.00	0.00	0.01	0.01
400	0.13	0.15	0.18	0.22	0.26	0.31	0.37	0.42	0.48	0.00	0.01	0.01	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	0.02	0.02
700	0.19	0.23	0.29	0.35	0.43	0.51	0.60	0.69	0.79	0.00	0.01	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	0.03	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
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	0.02	0.04	0.04
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	1.35	0.01	0.03	0.05	0.05
1400	0.28	0.37	0.47	0.59	0.72	0.87	1.03	1.18	1.37	0.01	0.03	0.05	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	1.12	1.26	1.47	0.01	0.03	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	0.06	0.06
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	0.07
1900	0.34	0.45	0.59	0.74	0.91	1.13	1.30	1.50	1.73	0.01	0.04	0.07	0.08
2000	0.36	0.47	0.62	0.79	0.96	1.14	1.37	1.58	1.82	0.01	0.05	0.08	0.08
2100	0.37	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	0.08	0.09
2300	0.39	0.52	0.69	0.87	1.07	1.29	1.53	1.77	2.05	0.01	0.05	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	0.09	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	0.10
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	0.10	0.11
2800	0.42	0.58	0.77	0.98	1.23	1.46	1.77	2.04	2.33	0.01	0.06	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	0.78	0.99	1.23	1.49	1.77	2.07	2.35	0.01	0.07	0.11	0.12
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	0.07	0.12	0.13
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	0.14
3500	0.47	0.66	0.88	1.13	1.41	1.71	2.03	2.34	2.68	0.02	0.08	0.13	0.15
3600	0.47	0.67	0.88	1.14	1.42	1.72	2.04	2.35	2.69	0.02	0.08	0.14	0.15
3700	0.48	0.68	0.90	1.17	1.45	1.77	2.10	2.42	2.77	0.02	0.09	0.14	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	1.83	2.16	2.46	2.81	0.02	0.09	0.15	0.16
4000	0.48	0.70	0.94	1.22	1.53	1.86	2.20	2.52	2.88	0.02	0.09	0.15	0.17
4100	0.49	0.70	0.95	1.22	1.53	1.91	2.20	2.53	2.89	0.02	0.10	0.16	0.17
4200	0.49	0.71	0.97	1.25	1.57	1.92	2.25	2.59	2.96	0.02	0.10	0.16	0.18
4300	0.50	0.71	1.00	1.27	1.58	1.93	2.29	2.65	2.97	0.02	0.10	0.17	0.18
4400	0.50	0.72	1.00	1.27	1.59	1.97	2.29	2.65	2.98	0.02	0.10	0.17	0.19
4500	0.50	0.73	1.00	1.30	1.63	1.98	2.34	2.65	2.99	0.02	0.11	0.17	0.19
4600	0.50	0.73	1.00	1.30	1.63	2.02	2.34	2.67	2.99	0.02	0.11	0.18	0.19
4700	0.50	0.75	1.02	1.33	1.66	2.03	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	2.04	2.40	2.74	3.00	0.02	0.11	0.18	0.20
4900	0.52	0.75	1.03	1.34	1.68	2.05	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	2.08	2.42	2.78	3.13	0.02	0.12	0.19	0.21
5100	0.52	0.76	1.05	1.37	1.71	2.12	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	2.13	2.50	2.80	3.15	0.03	0.12	0.20	0.22
5300	0.52	0.78	1.07	1.40	1.75	2.13	2.50	2.82	3.16	0.03	0.13	0.20	0.23
5400	0.52	0.78	1.07	1.40	1.76	2.15	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	2.16	2.53	2.85	3.18	0.03	0.13	0.21	0.23
5600	0.52	0.78	1.08	1.42	1.78	2.21	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	0.22	0.24
6000	0.53	0.84	1.11	1.47	1.83	2.22	2.54	2.89	3.19	0.03	0.14	0.24	0.25
6200	0.51	0.79	1.11	1.47	1.84	2.23	2.59	2.90	3.18	0.03	0.15	0.24	0.26
6400	0.51	0.79	1.12	1.47	1.85	2.24	2.60	2.89	3.15	0.03	0.15	0.25	0.27
6600	0.51	0.79	1.12	1.49	1.86	2.25	2.60	2.88	3.12	0.03	0.16	0.26	0.28
6800	0.50	0.79	1.13	1.50	1.87	2.25	2.60	2.87	3.08	0.04	0.16	0.26	0.29
7000	0.50	0.79	1.13	1.50	1.87	2.25	2.59	2.85	2.03	0.04	0.17	0.27	0.29
7200	0.48	0.79	1.13	1.50	1.88	2.24	2.58	2.82	2.97	0.04	0.17	0.28	0.31
7400	0.48	0.80	1.13	1.50	1.88	2.23	2.56	2.78	2.90	0.04	0.18	0.29	0.32
7600	0.46	0.77	1.12	1.50	1.88	2.22	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 5 : 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	0.78	1.00	1.13	1.25	1.37	1.53	0.02	0.08	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	2.65	2.96	3.39	3.76	4.24	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	0.02	0.02	0.02
200	0.24	0.32	0.40	0.44	0.48	0.52	0.58	0.01	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	0.46	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	1.21	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	0.41	0.45
2400	1.00	1.62	2.30	2.62	2.96	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	0.50
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	3.80	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	2.77	3.26	3.87	4.40	4.66	0.09	0.48	0.76	0.86
4500	0.92	1.83	2.77	3.23	3.88	4.40	4.66	0.10	0.49	0.78	0.88
4600	0.85	1.81	2.77	3.23	3.88	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	3.22	3.75	4.16	4.54	0.10	0.52	0.83	0.93
4900	0.82	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	4.40	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	1.14
6000	0.35	1.45	2.20	2.90	3.20	3.71		0.13	0.65	1.04	1.17

Table 5 : 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	1.81	2.00	2.17	2.40	2.61	3.07	0.01	0.08	0.11	0.14
950	2.12	2.30	2.15	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	0.26
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	0.38	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	1.87	0.01	0.03	0.05	0.06
400	1.02	1.20	1.21	1.32	1.46	1.49	2.33	0.01	0.04	0.07	0.08
500	1.28	1.40	1.51	1.65	1.83	1.99	2.63	0.01	0.05	0.09	0.10
600	1.43	1.57	1.71	1.86	2.06	2.25	3.01	0.01	0.06	0.10	0.12
700	1.67	1.83	2.00	2.17	2.40	2.63	3.53	0.02	0.08	0.12	0.14
800	1.91	2.09	2.28	2.29	2.75	3.00	3.75	0.02	0.09	0.14	0.16
900	1.99	2.18	2.38	2.32	2.88	3.15	4.10	0.02	0.10	0.16	0.18
950	2.10	2.30	2.51	2.39	3.04	3.33	4.33	0.02	0.10	0.16	0.18
1000	2.21	2.42	2.64	2.47	3.20	3.50	5.02	0.02	0.11	0.17	0.19
1100	2.33	2.56	2.79	3.54	3.38	3.70	5.13	0.02	0.12	0.19	0.21
1200	2.54	2.79	3.04	3.68	3.69	4.04	5.32	0.03	0.13	0.21	0.23
1300	2.75	3.03	3.30	3.82	3.99	4.37	5.41	0.03	0.14	0.22	0.25
1400	2.80	3.09	3.37	3.84	4.08	4.47	5.59	0.03	0.15	0.24	0.27
1450	2.90	3.20	3.49	3.91	4.23	4.63	5.64	0.03	0.15	0.25	0.28
1500	3.00	3.31	3.61	4.97	4.37	4.78	5.73	0.03	0.16	0.26	0.29
1600	3.10	3.41	3.73	4.02	4.51	4.94	5.82	0.03	0.17	0.28	0.31
1700	3.29	3.62	4.96	4.15	4.79	5.25	6.00	0.04	0.18	0.29	0.33
1800	3.49	3.84	4.20	4.27	5.06	5.56	6.17	0.04	0.19	0.31	0.35
1900	3.50	3.85	4.22	4.27	5.10	5.58	6.19	0.04	0.21	0.33	0.37
2000	3.68	4.05	4.44	5.39	5.37	5.87	6.36	0.04	0.22	0.35	0.39
2100	3.75	4.13	4.51	5.42	5.46	5.96	6.41	0.05	0.23	0.36	0.41
2200	3.93	4.33	4.73	5.54	5.72	6.24	6.57	0.05	0.24	0.38	0.43
2300	4.02	4.50	4.91	5.62	5.93	6.53	6.74	0.05	0.25	0.41	0.45
2400	4.09	4.50	4.91	5.63	5.93	6.63	6.80	0.05	0.26	0.42	0.47
2500	4.25	4.69	5.12	5.59	6.18	6.73	6.87	0.05	0.27	0.43	0.49
2600	4.28	4.72	5.15	6.62	6.20	6.74	6.89	0.06	0.28	0.45	0.51
2700	4.45	4.90	5.35	5.84	6.44	7.00	7.04	0.06	0.28	0.47	0.53
2800	4.61	5.00	5.55	6.05	6.68	7.26	7.19	0.06	0.30	0.48	0.54
2850	4.69	5.10	5.65	6.16	6.68	7.28	7.26	0.06	0.31	0.49	0.55
2900	4.69	5.10	5.65	6.16	6.78	7.28	7.26	0.06	0.31	0.50	0.56
3000	4.70	5.14	5.65	6.17	6.78	7.32	8.27	0.06	0.32	0.52	0.58
3100	4.71	5.17	5.66	6.17	6.79	7.33	8.27	0.07	0.34	0.54	0.60
3200	4.84	5.34	5.80	6.32	6.93	7.49	8.41	0.07	0.35	0.55	0.62
3300	4.89	5.50	5.88	6.32	7.14	7.73	8.41	0.07	0.36	0.57	0.64
3400	4.89	5.50	5.88	6.32	7.14	7.54	8.43	0.07	0.37	0.59	0.66
3500	4.96	5.52	5.99	6.41	7.15	7.49	9.20	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	5.55					0.11	0.53	0.85	0.95
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 6 : 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	1.50	2.03	2.29	2.58	2.94	3.55	3.65	4.01	0.03	0.12	0.27	0.28
950	1.94	2.48	2.82	3.17	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	0.40	0.46	0.51	0.57	0.63	1.02	1.24	0.00	0.02	0.04	0.04
200	0.65	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	1.63	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	3.18	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	7.66	0.08	0.41	0.65	0.74
1800	2.81	3.72	4.36	5.09	5.78	6.54	7.25	7.79	0.09	0.41	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	6.88	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	2.95	4.20	4.86	5.59	5.47	7.32	8.40	8.76	0.11	0.56	0.89	1.00
2400	2.96	4.20	4.86	5.59	5.50	7.32	8.40	9.10	0.12	0.58	0.95	1.04
2500	2.98	4.30	4.98	5.74	6.65	7.52	8.40	9.11	0.12	0.60	0.97	1.09
2600	2.98	4.30	4.98	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	0.13	0.65	1.04	1.17
2800	3.21	4.63	5.36	5.98	6.77	7.89	8.61	9.21	0.14	0.68	1.08	1.21
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	3.05	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	7.32		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	6.89	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	1.85	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 6 : 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	4.35	4.70	5.12	5.53	5.90	6.41	7.40	0.02	0.17	0.29	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	8.02	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	1.19	1.34	0.00	0.02	0.04	0.03
200	1.62	1.74	1.88	2.02	2.16	2.34	2.68	0.01	0.06	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	3.12	3.37	3.62	3.91	4.51	0.02	0.10	0.15	0.17
500	3.32	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	6.30	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	0.40	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	0.07	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	9.57	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	12.00	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			0.13	0.65	1.04	1.17
2800	9.89	10.98	11.35	11.88	12.31			0.14	0.68	1.08	1.20
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	9.78	10.41						0.15	0.75	1.20	1.35
3200	9.78	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 7 : 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	7.65	8.47	9.28	10.09	0.08	0.38	0.63	0.70
950	5.62	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	1.02	0.01	0.03	0.04	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	1.56	1.92	2.10	2.28	2.49	2.70	2.94	3.28	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	4.48	0.03	0.14	0.23	0.25
300	2.35	2.90	3.22	3.54	3.87	4.24	4.64	5.04	0.03	0.17	0.27	0.31
350	2.74	3.38	3.76	4.13	4.52	4.95	5.41	5.58	0.04	0.20	0.32	0.36
400	3.13	3.87	4.29	4.72	5.16	5.65	6.19	6.10	0.05	0.23	0.36	0.41
450	3.23	4.02	4.48	4.95	5.41	5.94	6.51	6.77	0.05	0.25	0.41	0.46
500	3.59	4.47	4.98	5.50	6.01	6.60	7.23	7.07	0.06	0.28	0.45	0.51
550	3.77	4.71	5.26	5.81	6.36	6.99	7.67	7.86	0.06	0.31	0.50	0.56
600	4.10	5.14	5.74	5.98	6.94	7.63	8.37	8.33	0.07	0.34	0.54	0.61
650	4.46	5.57	6.22	6.87	7.52	8.26	9.00	9.09	0.07	0.37	0.59	0.66
700	4.51	5.66	6.35	7.02	7.69	8.47	9.28	9.84	0.08	0.40	0.63	0.71
750	4.83	6.06	6.80	7.52	8.24	9.08	9.94	10.09	0.08	0.41	0.68	0.76
800	4.97	6.26	7.02	7.77	8.52	9.38	10.25	10.80	0.09	0.45	0.72	0.81
850	5.28	6.65	7.46	8.26	9.05	9.97	10.93	11.18	0.10	0.48	0.77	0.87
900	5.59	7.04	7.90	8.74	9.59	10.55	11.58	11.88	0.10	0.51	0.81	0.92
950	5.60	7.08	7.95	8.81	9.67	10,64	11.67	12.50	0.11	0.54	0.86	0.97
1000	5.90	7.45	8.37	9.27	10.18	11.20	12.28	12.69	0.11	0.57	0.91	1.02
1050	5.98	7.58	8.52	9.45	10.37	11.42	12.52	13.36	0.12	0.59	0.95	1.07
1100	6.27	7.94	8.93	9.90	10.86	11.96	13.12	13.60	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	9.78	10.86	11.91	13.10	14.35	15.56	0.15	0.74	1.18	1.32
1350	7.07	9.02	10.19	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	9.88	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	17.88	0.20	1.02	1.63	1.85
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	16.05	17.35	18.12	0.23	1.16	1.86	2.09
2100	8.40	10.84	12.19	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	0.25	1.22	1.95	2.19
2200	8.42	11.68	12.26	13.61	14.35	16.00	17.90	18.02	0.25	1.24	1.99	2.24
2250	8.43	11.69	12.29	13.58	14.29	16.00	16.89	18.01	0.26	1.27	2.04	2.29
2300	8.44	11.90	12.29	13.56	14.28	15.98	16.73		0.27	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		0.28	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		0.29	1.40	2.26	2.54
2550	8.25	10.70	11.76	13.33	13.94				0.29	1.44	2.31	2.60
2600	8.24	10.69	11.75	13.16	13.91				0.30	1.47	2.35	2.65
2650	8.21	10.65	11.65	13.12	13.61				0.31	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	13.60				0.32	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					0.33	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					0.34	1.67	2.67	3.00
3000	7.40	9.39	10.55	11.86					0.35	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 7 : 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	11.12	11.94	12.98	14.00	15.79	16.20	18.58	0.06	0.38	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	20.60	22.68	23.13	24.46	26.56	0.16	0.82	1.31	1.48
2850								0.32	1.61	2.58	2.92
50	1.16	1.22	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	6.67	7.47	8.10	9.34	0.03	0.17	0.27	0.31
350	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	11.18	11.41	13.14	0.05	0.25	0.41	0.46
500	8.68	9.29	10.11	11.55	12.35	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	16.20	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	0.10	0.45	0.72	0.81
850	13.13	14.06	15.26	16.44	17.60	19.01	21.70	0.10	0.81	0.75	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	14.71	15.77	17.10	18.39	19.64	21.16	23.99	0.12	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	18.62	20.60	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	24.10	26.54	0.17	0.85	1.36	1.53
1550	18.79	19.71	21.36	22.36	23.48	24.70	26.43	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	20.92	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 8 : 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	17.42	20.12	22.10	24.52	26.89	29.20	30.32	33.65	34.92	0.23	1.14	1.78	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	1.07	1.20	1.25	1.41	1.52	1.62	1.72	0.01	0.02	0.05	0.05
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	4.08	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	6.65	7.28	7.90	8.17	9.14	9.50	0.05	0.23	0.36	0.41
160	5.01	5.37	6.17	6.75	7.47	8.17	8.87	9.20	10.26	10.70	0.05	0.26	0.42	0.47
180	5.54	5.95	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	9.81	10.54	11.55	12.56	13.07	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	8.59	9.88	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	9.40	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	0.86	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	16.93	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	0.12	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	16.18	17.96	19.71	21.45	22.38	24.86	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	19.18	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	21.68	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	1.52
560	13.65	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	19.82	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	16.35	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	0.21	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	0.25	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	0.26	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	23.10	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	32.22	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

Table 8 : 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
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	30.85	33.63	36.24	37.19	40.95	41.75	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	42.08	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	1.78	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	3.26
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	21.32	24.36	26.71	29.21	32.14	34.89	37.42	38.21	41.80	42.31	0.38	1.88	3.02	3.39
1180	21.36	24.44	26.87	29.37	32.32	35.04	37.55	38.31	41.85	42.34	0.38	1.92	3.07	3.45
1200	21.49	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	21.62	25.06	27.12	29.66	32.59	35.26	37.73	38.41	41.84	42.31	0.40	1.98	3.17	3.56
1240	21.75	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	21.85	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	21.96	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	22.05	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	22.14	25.81	27.67	30.15	32.99	35.54	37.79	38.22	41.14	41.12	0.41	2.14	3.43	3.86
1340	22.22	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	22.29	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	22.34	26.09	27.84	30.27	33.03	35.46	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 8 : 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	38.64	40.35	44.01	46.81	49.43	51.85	54.57	58.98		0.23	1.12	1.82	2.05
950	44.72	45.72	49.48	51.60						0.31	1.54	2.46	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	0.05
40	3.49	3.98	4.02	4.34	4.64	4.95	5.32	6.07	6.53	0.02	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	6.48	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	9.12	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	14.21	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	17.04	18.39	20.92	19.12	0.05	0.26	0.42	0.47
180	13.20	13.85	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	29.58	27.15	0.08	0.39	0.62	0.71
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	20.28	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	30.60	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	27.46	29.55	31.61	33.22	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	27.82	29.27	32.05	34.55	36.88	39.14	41.91	47.11	44.72	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	0.76	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	37.32	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	46.08	49.04	54.37	53.26	0.18	0.91	1.46	1.64
580	34.00	35.77	39.22	41.96	44.58	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	55.88	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	40.32	44.01	46.81	49.43	51.85	54.57	58.98		0.22	1.14	1.82	2.05
720	39.30	40.93	44.68	47.45	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	40.43	42.10	45.91	48.66	51.18	53.45	55.90	59.50		0.24	1.23	1.98	2.22
780	41.10	42.68	46.45	49.18	51.65	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 9 : 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	54.83	59.00	61.69	0.38	1.92	3.07	3.45
950	31.55	37.41	43.41	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	0.04	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	0.10
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	16.70	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	28.88	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	23.95	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	24.95	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	0.19	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	35.40	41.36	44.76	47.94	51.01	54.62	57.97	0.31	1.53	2.45	2.76
580	25.09	30.15	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	2.73	3.05
640	26.62	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	46.48	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	3.62
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	48.72	-	-	-	-	-	0.53	2.63	4.21	4.73
980	31.73	37.52	43.36	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	31.85	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	4.72	5.32
1100	31.78	37.17	42.11	45.50	-	-	-	-	-	0.60	3.01	4.82	5.42
1120	31.69	36.78	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	40.76	-	-	-	-	-	-	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	35.81	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 9 : 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
900								0.51	2.60	4.15	4.68
20	3.88	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	8.28	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	22.52	0.04	0.22	0.35	0.39
100	16.45	17.53	18.62	18.57	21.03	23.81	27.42	0.05	0.28	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	1.20
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	70.92	0.18	0.93	1.49	1.67
360	47.31	50.17	52.95	53.72	60.04	66.68	74.48	0.20	0.99	1.58	1.77
380	49.12	52.05	54.86	55.67	62.05	68.68	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	61.22	63.76	65.64	71.76	77.39	-	0.27	1.37	2.19	2.46
520	59.14	62.07	64.78	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	2.82
600	62.49	65.06	67.28	70.68	75.47	-	-	0.33	1.64	2.63	2.95
620	63.03	66.47	-	-	-	-	-	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 10 : 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	0.48	0.68	0.88	0.99	1.10	1.22	1.32	0.01	0.06	0.09	0.09
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	1.57	1.81	2.02	2.24	2.45	0.02	0.13	0.19	0.23
2850	1.38	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	0.16	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	0.56	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	0.96	1.07	1.06	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	0.16
1000	0.62	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	2.16	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	0.27	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	0.04	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	0.54
3500	1.62	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	0.48	0.60
3800	1.61	2.42	3.31	3.78	4.26	4.71	5.17	0.05	0.35	0.50	0.61

Table 10 : 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
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	0.56	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	4.80	5.40	5.88	0.07	0.45	0.64	0.76
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	1.82	2.83	3.92	4.50	5.05	5.58	6.10	0.07	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	2.85	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	0.53	0.74	0.90
5800	1.84	2.90	4.03	4.62	5.18	5.72	6.63	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	1.84	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	6.20	0.10	0.65	0.90	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	5.63	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	5.96	5.38	5.82	0.11	0.74	1.05	1.29
8000	1.57	2.76	3.91	4.46	5.94	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	2.50	3.63	4.13	4.54	4.86	5.10	0.14	0.79	1.13	1.38

Table 10 : Section SPZ/3V : Power Rating P (kW) for Arc of Contact 180^0

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	1.52	1.87	2.02	2.19	2.40	2.61	3.04	3.42	0.01	0.06	0.08	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	8.22	9.39	10.52	0.04	0.26	0.37	0.46
100	0.28	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	0.65	0.70	0.77	0.83	0.96	1.09	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	0.01	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	2.82	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	4.12	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	3.54	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	3.03	3.58	3.88	4.21	4.62	5.03	5.81	6.58	0.02	0.14	0.20	0.24
1600	3.26	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	4.72	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	0.20	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	5.86	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	8.08	9.05	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	0.39	0.47
3000	5.28	6.22	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	7.05	7.61	8.29	8.91	10.07	11.07	0.05	0.30	0.42	0.52
3300	5.67	6.66	7.16	7.73	8.40	9.03	10.16	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	0.58
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	0.05	0.34	0.49	0.60

Table 10 : Section SPZ/3V : Power Rating P (kW) for Arc of Contact 180^0

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
3800	6.20	7.25	7.78	8.36	9.12	9.64	10.83	11.67	0.05	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	10.01	11.01	11.53	0.06	0.39	0.55	0.65
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	11.01	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	10.85	-	0.07	0.44	0.62	0.76
4800	6.97	8.04	8.54	9.17	9.71	10.22	10.85	-	0.07	0.44	0.63	0.77
4900	6.98	8.16	8.54	9.17	9.71	10.20	10.65	-	0.06	0.45	0.64	0.77
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	0.45	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	8.22	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	8.36	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	0.67	0.95	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	1.31

Table 11 : 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	3.35	0.02	0.13	0.21	0.26
950	1.45	1.95	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	0.55	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	1.57	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	0.25
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	1.95	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	2.98	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	2.65	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	2.08	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	7.08	0.06	0.37	0.52	0.64
1800	2.25	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	0.65	0.79
2200	2.70	3.74	4.95	5.55	6.24	6.92	7.68	8.61	0.07	0.47	0.67	0.82
2300	2.78	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	7.36	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	9.81	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	3.12	4.36	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

Table 11 : 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
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	0.12	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	.014	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	7.08	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	3.32	5.29	7.08	8.05	8.97	9.88	10.72	11.67	0.16	1.03	1.50	1.82
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	5.03	6.90	7.79	8.57	9.55	10.05	10.74	0.18	1.18	1.65	2.02
5500	3.33	5.02	6.89	7.79	8.55	9.41	10.00	10.18	1.18	1.18	1.68	2.06
5600	3.24	5.00	6.83	7.64	8.17	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	10.36	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	4.10	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	1.86	2.32
6300	2.90	4.52	6.07	6.75	7.37	7.83	8.18	-	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	7.48	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 11 : 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	4.42	5.14	5.97	6.82	7.89	9.01	0.03	0.15	0.19	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	1.18	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	6.82	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	0.28	0.34
950	4.79	5.71	6.61	7.67	8.79	10.08	11.49	0.03	0.20	0.29	0.36
1000	5.07	6.04	7.00	8.12	9.21	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	9.89	11.20	12.78	14.48	16.33	0.05	0.32	0.46	0.56
1600	7.49	8.91	10.29	11.89	13.54	1534	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	0.65
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	0.09	0.54	0.76	0.94
2600	10.60	12.48	14.22	16.09	17.82	19.55	20.62	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	14.94	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	0.70	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	10.70	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	12.86	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	12.22	13.33	-	-	-	-	-	0.16	1.04	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	2.24

Table 12 : 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	4.92	5.77	6.32	6.91	7.59	0.04	0.33	0.48	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	9.01	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	1.02	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	7.12	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	12.73	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	1.39
1700	6.78	8.02	9.26	11.66	12.83	13.99	15.34	0.13	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	1.35	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	14.15	15.54	16.68	18.43	0.17	1.09	1.55	1.90
2400	8.41	9.95	11.43	14.38	15.77	17.12	18.66	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	15.84	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	18.86	20.22	0.25	1.61	2.29	2.80
3500	9.40	11.27	12.82	16.04	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	20.84	0.26	1.71	2.42	2.97
3700	9.42	11.25	13.04	16.08	17.36	18.47	20.57	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	9.91	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	12.46	15.12	16.11	17.89	-	0.30	1.94	2.76	3.38
4200	8.89	10.69	12.23	14.71	16.00	17.71	-	0.31	1.99	2.82	3.46
4300	8.86	10.65	12.11	14.60	15.58	17.19	-	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	14.16	14.30	-	0.33	2.13	3.03	3.71
4600	8.24	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	3.39	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	7.77	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	4.52

Table 12 : 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	17.60	0.05	0.31	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	24.04	26.20	27.41	-	-	-	0.21	1.35	1.92	2.32
100	1.41	1.57	1.70	1.98	2.30	2.66	2.84	3.07	0.01	0.05	0.06	0.08
200	2.67	2.87	3.12	3.64	4.25	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	13.80	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	11.82	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	26.21	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	1.21	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	2.30
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	23.98	-	-	-	-	-	0.23	1.47	2.08	2.56
3200	21.65	22.65	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	19.81	-	-	-	-	-	-	-	0.29	1.89	2.69	3.30

Table 13 : 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	15.96	17.95	19.41	21.33	23.21	0.14	0.90	1.30	1.57
900	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	32.82	38.81	0.29	1.86	2.65	3.25
2850	20.62	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	0.08	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	6.28	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	7.27	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	16.12	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	0.78	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	23.96	26.31	28.63	0.18	1.16	1.64	2.03
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	35.86	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	32.41	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	38.92	0.29	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	32.28	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	40.70	0.38	2.44	3.47	4.25
1950	20.66	26.07	31.77	35.60	37.61	40.54	41.75	0.39	2.51	3.56	4.36
2000	20.73	26.14	31.80	35.62	37.79	40.65	41.79	0.40	2.57	3.65	4.48
2050	20.75	26.17	32.00	35.65	37.91	40.69	43.11	0.41	2.64	3.74	4.59

Table 13 : Section SPC : Power Rating P (kW) for Arc of Contact 180^0

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
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	26.86	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	40.61	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	5.58
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	34.74	35.12	-	-	0.52	3.34	4.75	5.82
2650	21.18	26.40	31.30	33.65	34.40	-	-	0.52	3.41	4.82	5.93
2700	21.17	26.33	30.94	34.14	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	19.90	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	6.71
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	4.05	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	17.58	-	-	-	-	-	0.70	4.50	6.39	7.80

Table 13 : 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	36.22	41.70	47.28	53.20	0.14	0.90	1.28	1.57
950	32.03	34.88	40.32	45.42	51.01	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	3.87	5.20	6.38
50	2.41	2.60	3.05	3.48	3.99	4.58	5.25	0.01	0.06	0.09	0.11
100	4.44	4.84	5.65	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	0.28	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	29.09	30.65	35.59	40.32	45.66	51.41	57.36	0.16	1.03	1.48	1.78
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	-	0.28	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	-	-	-	0.2	2.06	2.92	3.58
1650	44.24	47.29	52.59	55.59	-	-	-	2.12	2.12	3.69	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	44.47	46.60	-	-	-	-	-	0.42	2.70	3.83	4.70
2150	44.50	45.45	-	-	-	-	-	0.42	2.72	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 14 : 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	31.32	38.40	41.84	45.21	48.52	52.40	56.18	61.06	64.59	74.10	82.35	0.26	1.83	2.60	3.18
950	32.09	35.77	39.37	48.01	52.17	56.18	60.03	64.47	68.68	73.95	77.62	86.13	93.33	0.38	2.48	3.51	4.32
1450	40.16	44.55	48.70	57.96	61.97	66.25	69.44	72.63	75.11	-	77.79	-	-	0.59	3.79	5.38	6.61
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	8.85	0.02	0.13	0.19	0.23
100	4.75	5.25	5.75	6.99	7.61	8.23	8.83	9.57	10.30	11.28	11.91	13.92	16.05	0.04	0.26	0.38	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	9.91	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	20.10	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	26.56	28.66	30.83	33.41	35.96	39.32	41.81	48.31	55.37	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	47.60	50.59	58.27	66.50	0.20	1.31	1.86	2.27
550	21.07	23.47	25.85	31.71	33.58	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	36.88	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	42.98	46.16	49.91	53.57	58.33	61.80	70.60	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	46.46	50.14	53.74	57.94	62.01	67.20	70.92	80.06	88.88	0.30	2.09	2.97	3.64
850	29.92	32.91	36.24	44.29	48.17	51.94	55.61	59.86	63.95	69.12	73.11	82.49	90.92	0.31	2.22	3.15	3.87
900	30.57	34.07	37.51	46.34	50.38	54.29	58.09	62.47	68.67	71.95	75.67	84.52	92.42	0.38	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	88.13	93.33	0.38	2.48	3.52	4.32
1000	33.02	36.79	41.48	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	59.48	63.47	67.87	72.04	77.05	80.56	88.04	93.20	0.42	2.74	3.90	4.70
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	45.23	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	5.90
1350	38.77	43.06	47.88	57.44	61.71	65.63	69.17	72.90	76.04	79.25	81.89	-	-	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	57.96	62.97	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	39.27	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 15 : 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	0.20	0.27	0.34	0.36	0.43	0.50	0.58	0.66	0.75	0.84	0.00	0.02	0.02	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	1.15	1.31	1.49	0.02	0.04	0.05	0.08
2850	0.53	0.68	0.83	1.00	1.17	1.40	1.63	1.87	2.11	2.38	0.02	0.07	0.11	0.14
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	0.31	0.32	0.36	0.43	0.50	0.58	0.66	0.75	0.84	0.01	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	0.72	0.81	0.91	1.03	0.01	0.02	0.03	0.05
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	0.05	0.07
1300	0.34	0.43	0.51	0.58	0.69	0.80	0.93	1.07	1.19	1.37	0.01	0.03	0.05	0.07
1400	0.35	0.44	0.55	0.60	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	0.59	0.68	0.73	0.87	1.02	1.19	1.37	1.54	1.74	0.01	0.05	0.07	0.11
1900	0.42	0.55	0.68	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	0.59	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	1.19	1.42	1.90	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	0.78	0.93	1.11	1.33	1.56	1.82	2.09	12.35	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

Table 15 : 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
3700	0.61	0.78	0.96	1.16	1.39	1.65	1.92	2.20	2.48	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	0.22
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	0.65	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	0.67	0.87	1.09	1.33	1.60	1.88	2.20	2.51	2.80	3.08	0.03	0.11	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	1.12	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	0.31
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	1.45	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	1.23	1.53	1.84	2.16	2.46	2.73	2.92	3.03	0.05	0.18	0.27	0.41
7400	0.70	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	0.98	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	0.46
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	1.82	2.15	2.40	-	-	-	0.07	0.21	0.30	0.48

Table 16 : 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	0.66	0.86	1.07	1.29	1.40	1.51	1.64	1.77	1.88	2.04	2.19	2.35	2.56	2.76	3.12	0.02	0.08	0.12	0.16
950	0.82	1.04	1.32	1.63	1.80	1.92	2.05	2.25	2.40	2.60	2.70	3.01	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	2.62	2.89	3.12	3.36	3.63	3.88	4.18	4.54	4.90	5.59	0.04	0.16	0.24	0.37
2850	1.39	1.98	2.61	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	0.47	0.71
100	0.16	0.19	0.23	0.28	0.30	0.32	0.32	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	1.21	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	0.02	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	0.16
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	1.04	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	2.07	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	0.96	1.30	1.64	2.01	2.19	2.37	2.59	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	3.48	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	1.46	1.85	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	0.18	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	0.44
1900	1.24	1.62	2.08	2.58	2.82	3.06	3.44	3.62	3.89	4.21	4.51	4.85	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	3.05	3.30	3.50	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	2.26	2.94	3.52	3.50	3.83	4.15	4.40	4.70	5.16	5.55	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	6.67	7.45	0.08	0.29	0.41	0.64
2600	1.34	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	3.18	3.48	3.80	4.15	4.40	4.77	5.20	5.60	5.90	6.43	6.88	7.68	0.08	0.31	0.45	0.69
2800	1.38	1.94	2.51	3.21	3.52	3.83	4.19	4.54	4.88	5.26	5.63	6.04	6.52	6.98	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	0.47	0.73
2900	1.42	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	7.25	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	5.65	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	1.42	2.10	2.80	3.59	3.90	4.20	4.65	4.90	5.36	5.75	6.15	6.55	7.02	7.43	8.15	0.11	0.40	0.58	0.90
3600	1.42	2.11	2.82	3.59	3.95	4.25	4.69	5.00	5.40	5.80	6.20	6.80	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	7.18	-	0.11	0.42	0.81	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	0.86	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	5.28	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	0.76	1.23
4900	1.33	2.11	2.96	3.76	4.13	4.52	4.88	5.36	5.36	5.89	6.13	-	-	-	-	0.15	0.56	0.81	1.26
5000	1.30	2.09	2.99	3.75	4.12	4.50	4.86	5.35	5.50	5.85	6.11	-	-	-	-	0.16	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	1.32
5200	1.27	2.07	3.73	3.70	4.22	4.82	4.82	5.46	5.46	-	-	-	-	-	-	0.16	0.60	0.86	1.33
5300	1.26	2.05	2.72	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	4.78	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	3.86	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	1.07	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	0.70	0.99	1.54

Table 17 : 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	2.18	2.38	2.56	2.77	2.98	3.19	3.79	4.35	4.63	4.90	5.23	5.55	6.22	6.98	0.03	0.11	0.18	0.28
950	2.18	2.80	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	8.72	9.25	9.79	10.73	12.18	0.07	0.26	0.37	0.57
2850	4.17	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	1.11
100	0.37	0.42	046	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	1.08	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	0.13	0.20
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	6.09	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	3.07	3.41	3.67	4.33	4.97	5.29	5.60	5.98	6.32	7.11	7.98	0.04	0.14	0.2	0.32
900	2.09	2.58	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	2.69	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	2.63	3.15	3.45	3.75	4.05	4.39	4.73	5.11	6.04	6.94	7.34	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	12.18	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	9.09	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	4.08	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	14.08	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	11.50	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	11.24	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	11.25	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	-	0.13	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	11.55	12.05	12.45	12.84	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	4.62	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	8.94	9.09	10.20	11.94	-	-	-	-	-	-	0.19	0.71	1.02	1.55
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	7.11	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	4.82	5.99	6.52	6.93	7.80	8.21	8.74	9.05	10.00	-	-	-	-	-	-	-	0.19	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	5.78	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	6.94	7.60	7.96	8.65	-	-	-	-	-	-	-	-	-	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	1.21	1.89
4900	4.66	5.74	6.32	7.86	7.34	7.84	8.23		-	-	-	-	-	-	-	-	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	1.98

Table 18 : 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	5.27	5.76	6.69	7.59	8.65	9.77	11.03	12.45	13.24	14.02	15.70	17.47	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	12.36	13.89	15.62	16.56	17.50	19.46	21.47	23.28	26.99	0.07	0.32	0.45	0.70
1450	8.23	9.07	9.89	11.48	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	1.38	2.10
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	0.02	0.02	0.02	0.04
100	1.08	1.18	1.28	2.78	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	15.49	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	0.06	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	16.42	18.38	20.40	22.28	26.49	0.07	0.28	0.41	0.62
900	6.01	6.59	7.19	8.35	9.47	10.80	12.20	13.76	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	8.45	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	22.48	23.03	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	26.99	-	-	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	-	-	-	0.15	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	22.06	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	0.61	0.86	1.33
1850	9.76	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

Table 18 : 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
2000	10.25	11.28	12.30	14.23	16.02	17.98	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	17.42	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	16.92	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	18.98	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	23.56	-	-	-	-	-	-	-	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	17.67	19.29	20.82	22.68	-	-	-	-	-	-	-	0.21	0.80	1.15	1.78
2450	11.47	12.64	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	13.84	15.90	17.75	19.65	21.33	22.70	-	-	-	-	-	-	-	0.22	0.83	1.20	1.87
2550	11.52	12.73	13.90	15.91	17.76	19.70	21.34	-	-	-	-	-	-	-	-	0.21	0.85	1.22	1.89
2600	11.81	12.78	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	1.95
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	18.27	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	12.46	13.74	14.90	16.89	18.47	-	-	-	-	-	-	-	-	-	-	0.27	1.01	1.46	2.26
3100	12.56	13.86	14.91	16.97	18.48	-	-	-	-	-	-	-	-	-	-	0.27	1.03	1.48	2.30
3150	12.60	13.10	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	-	-	-	-	-	-	-	-	-	-	0.29	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	2.46
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 19 : 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	0.67	0.73	0.80	0.99	1.21	1.37	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	0.02	0.08	0.11	0.13
1450	1.08	1.27	1.42	1.78	2.19	2.42	2.64	2.87	3.11	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	6.65	10.90	12.06	0.04	0.23	0.32	0.41
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	2.71	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	1.75	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	4.21	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	0.02	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	2.20	2.42	2.64	2.88	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	2.24	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	4.01	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	0.24
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	1.35	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	7.85	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	0.18	0.27	0.33
2500	1.59	1.90	2.14	2.73	3.40	3.76	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	2.27	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	6.65	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	12.06	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	4.42	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	3.60	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

Table 19 : 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
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	7.86	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	10.44	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	6.60	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	6.60	6.15	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	2.76	3.15	4.10	5.13	5.69	6.23	6.77	7.28	8.48	9.69	10.83	12.38	13.55	14.71	0.05	0.35	0.50	0.81
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	0.84
4700	2.39	2.92	3.29	4.29	5.39	5.96	6.54	7.09	7.63	8.06	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	-	0.05	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	6.93	7.29	7.83	9.07	10.25	11.51	12.89	14.11	-	0.06	0.40	0.56	0.70
5100	2.50	3.06	3.46	4.53	5.67	6.28	6.88	7.46	8.02	9.29	10.51	11.80	13.16	-	-	0.06	0.41	0.58	0.71
5200	2.51	3.07	3.49	4.57	5.71	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	3.08	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	7.60	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	0.80
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	3.78	8.94	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	12.26	-	-	-	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	10.29	-	-	-	-	0.09	0.56	0.78	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	9.10	10.31	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	4.15	5.49	6.84	7.50	8.12	8.41	8.11	-	-	-	-	-	-	0.11	0..67	0.95	1.17

Table 20 : 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	0.95	1.13	1.33	1.75	2.14	2.63	2.87	3.16	0.02	0.13	0.19	0.21
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	4.17	5.66	7.10	8.79	9.61	10.58	0.06	0.54	0.76	0.94
100	0.18	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	2.05	2.15	2.63	2.87	3.16	0.02	0.13	0.19	0.23
800	1.06	1.24	1.48	2.00	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	3.42	3.72	4.09	0.03	0.18	0.26	0.32
1000	1.25	1.47	1.75	2.60	2.88	3.55	3.88	4.27	0.03	0.19	0.27	0.33
1100	1.41	1.66	1.98	3.79	3.23	3.97	4.33	4.76	0.03	0.21	0.30	0.36
1200	1.50	1.77	2.12	3.97	3.47	4.27	4.65	5.12	0.04	0.23	0.32	0.40
1300	1.58	1.88	2.25	3.14	3.70	4.55	4.97	5.47	0.04	0.25	0.35	0.43
1400	1.67	1.98	2.37	3.23	3.92	4.84	5.28	5.81	0.04	0.27	0.38	0.46
1450	1.71	2.03	2.44	4.31	4.03	4.97	5.43	5.98	0.04	0.27	0.39	0.48
1500	1.75	2.08	2.48	3.58	4.14	5.11	5.58	6.16	0.04	0.28	0.40	0.49
1600	1.89	2.25	2.69	3.75	4.46	5.50	6.01	6.61	0.05	0.30	0.43	0.53
1700	1.97	2.35	2.81	3.92	4.68	5.77	6.31	6.94	0.05	0.32	0.46	0.56
1800	2.04	2.44	2.93	4.08	4.89	6.04	6.60	7.26	0.05	0.32	0.48	0.59
1900	2.12	2.53	3.04	4.24	5.11	6.30	6.89	7.58	0.06	0.36	0.51	0.63
2000	2.30	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	3.95	5.32	6.66	8.24	9.02	9.92	0.08	0.49	0.70	0.86
2700	3.77	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	0.78	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	9.46	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	1.16
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

Table 20 : 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
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	12.16	13.31	0.12	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	0.13	0.89	1.26	1.55
4800	3.87	4.79	5.91	8.17	10.26	12.64	13.78	15.05	0.13	0.91	1.29	1.56
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	10.61	13.04	14.19	15.47	0.15	0.97	1.37	1.68
5200	4.02	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	0.17	1.05	1.51	1.85
5700	4.13	5.16	6.44	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	8.96	11.26	13.74	14.88	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	4.21	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	11.61	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	1.88	2.35

Table 20 : 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	3.73	4.54	5.32	6.13	7.05	8.03	9.17	0.02	0.13	0.19	0.21
950	4.88	5.58	7.01	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	0.03	0.27	0.39	0.48
2850	2.56	15.20	17.61	19.88	22.37	24.78	27.13	0.08	0.54	0.78	0.94
100	0.64	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	4.82	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	0.21
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	0.04	0.21	0.30	0.36
1200	6.10	7.95	8.65	9.86	11.32	12.86	14.62	0.04	0.24	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	8.95	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	13.36	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	0.55	0.69
2200	10.28	12.41	14.48	16.53	18.81	21.15	23.64	0.06	0.42	0.59	0.71
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
2900	12.71	15.37	17.96	20.06	22.54	24.92	27.22	0.08	0.55	0.76	0.98
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	23.67	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

Table 20 : 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
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	0.88	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	1.59
4900	17.61	20.44	22.63					0.14	0.95	1.32	1.62
5000	17.68	20.60	22.49					0.15	0.97	1.37	1.68
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	20.80						0.16	1.00	1.41	1.75
5400	18.18	20.85						0.16	1.02	1.45	1.78
5500	18.22	20.60						0.16	1.04	1.48	1.82
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	1.56	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	1.19	1.69	2.08
6500	18.24							0.20	1.23	1.75	2.14

Table 21 : 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	2.86	3.26	3.71	4.16	4.68	5.32	5.96	7.24	0.04	0.27	0.41	0.50
950	3.75	4.27	4.87	5.47	6.16	7.07	7.86	9.56	0.06	0.39	0.55	0.68
1450	5.51	6.28	7.17	8.08	9.09	10.36	11.61	14.13	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	2.04
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	0.92	1.02	1.15	1.27	1.44	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	0.16	0.21
400	1.72	1.95	2.21	2.47	2.78	3.15	3.53	4.26	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	0.63
950	3.75	4.27	4.87	5.47	6.17	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	0.76
1200	4.65	5.29	6.04	6.79	7.65	8.71	9.76	11.87	0.08	0.49	0.72	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	10.07	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	14.13	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	16.96	20.29	0.14	0.90	1.28	1.57
2300	8.19	9.36	10.72	12.09	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	0.18	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	13.75	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	1.98
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	26.78	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	.023	1.47	2.09	2.56

Table 21 : 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
3700	11.75	13.47	15.43	17.36	19.51	22.12	24.62	29.32	0.23	1.51	2.13	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	23.36	25.73	30.47	0.25	1.64	2.32	2.85
4100	12.48	14.31	16.39	18.43	20.68	43.38	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	24.29	28.76	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	21.98	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	24.85	27.42	31.77	0.30	1.92	2.73	3.35
4800	13.46	15.46	17.68	19.83	22.17	24.91	27.45	31.84	0.30	1.86	2.79	3.42
4900	13.70	15.71	17.98	20.16	22.53	25.31	27.60	32.30	0.31	2.00	2.85	3.49
5000	13.75	15.77	18.05	20.22	22.58	25.33	27.85	32.13	0.32	2.05	2.95	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	28.30	-	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	23.20	-	-	-	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	16.50	18.80	20.95	22.20	-	-	-	0.38	2.45	3.48	4.28

Table 21 : 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	8.51	10.01	11.64	13.49	15.65	18.07	20.72	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	19.45	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	46.39	-	-	0.18	1.16	1.65	2.02
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	4.74	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	5.10	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	15.13	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	15.22	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	19.45	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	36.98	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	0.10	0.70	0.98	1.21
1800	19.96	23.38	26.95	30.90	35.27	39.86	45.12	0.11	0.71	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	42.94	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	1.51
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	26.70	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	45.56	-	-	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	39.72	-	-	-	-	0.20	1.31	1.86	2.28
3300	31.36	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	2.48
3600	32.83	37.20	-	-	-	-	-	0.23	1.47	2.09	2.56
3700	33.57	38.00	-	-	-	-	-	0.23	1.50	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	34.65	38.84	-	-	-	-	-	0.25	1.64	2.32	2.85
4100	34.74	-	-	-	-	-	-	0.26	1.68	2.38	2.92
4200	34.77	-	-	-	-	-	-	0.26	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 22 : 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	18.63	21.84	23.64	0.08	0.49	0.71	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	44.92	0.16	1.02	1.44	1.77
2850	31.78	37.46	43.75	49.78	55.61	-	-	.031	2.03	2.84	3.46
50	0.73	0.87	1.04	1.21	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	0.02	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	2.25	0.31
300	4.14	4.96	5.95	7.00	8.23	9.65	10.47	0.03	0.21	0.30	0.37
350	4.82	5.78	6.96	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	0.51
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	0.08	0.42	0.60	0.73
650	8.74	10.49	12.58	14.83	17.41	20.39	22.08	0.08	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	19.98	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	11.28	13.53	16.21	19.10	22.38	26.17	28.30	0.09	0.61	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	17.22	20.64	24.27	28.39	33.10	35.73	0.12	0.77	1.20	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	16.16	19.38	23.19	27.23	31.81	36.99	39.88	0.14	0.88	1.25	1.51
1300	16.74	20.06	23.99	28.18	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	43.32	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	18.46	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	48.40	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	28.40	33.81	39.34	45.34	51.79	55.19	0.21	1.40	1.94	2.38

Table 22 : Section XPC : Power Rating P (kW) for Arc of Contact 180^0

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
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	2.52
2100	25.36	30.22	35.38	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	57.65	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	34.16	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	0.28	1.79	2.49	3.04
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	2.80	3.42
2850	31.78	37.48	43.75	49.78	55.61	-	-	0.31	2.00	2.84	3.48
2900	32.28	38.05	44.41	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	3.64
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	-	-	-	0.35	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	4033	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 22 : 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	37.98	42.94	48.49	54.54	0.08	0.46	0.70	0.85
950	33.68	38.80	44.32	49.57	55.56	60.06	68.78	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	1.75
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	0.01	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	18.88	21.33	0.03	0.18	0.25	0.31
300	11.28	13.07	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	29.17	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	25.30	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	0.57
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	54.31	60.86	0.09	0.56	0.80	0.98
850	30.41	35.09	40.15	45.02	50.64	58.82	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	60.06	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	0.10	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	43.25	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	65.64	70.04	-	-	-	0.17	1.12	1.59	1.95
1650	52.55	59.10	66.03	71.38	-	-	-	0.18	1.17	1.64	2.02
1700	53.97	60.65	67.03	72.19	-	-	-	0.18	1.19	1.68	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	70.71	-	-	-	-	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	69.31	-	-	-	-	-	0.24	1.61	2.24	2.71

Table 23 : Arc of Contact Factors (Fc)

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 24 : 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
692	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
2590	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	0.95
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
5676	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
13080	1.14
14070	1.15
15080	1.17
16080	1.80

Table 24 : Pitch Length Correction Factors (Fd)

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

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
4205	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

Table 24 : Pitch Length Correction Factors (Fd)

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 1808	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
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	3666	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	5703	0.98
8V 2365	6007	0.99
8V 2505	6363	1.00
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 25 : Installation & Take - up Allowances

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

Pitch Length (mm)	Minimum Take-up Allowance x (mm)	Installation Allowances 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

Table 25 : Installation & Take - up Allowances

Length Designation	Outside Length (mm)	Minimum Take-up Allowance x (mm)	Installation Allowances 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 25 : Installation & Take - up Allowances (Banded Belts)

Pitch Length (mm)	Minimum Take-up Allowance x (mm)	Installation Allowances 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

Patch Length (mm)	Minimum Take-up Allowance x (mm)	Installation Allowances y (mm)		
		HSPZ	HSPA / HSPB	HSPC
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

Length Designation	Outside Length (mm)	Minimum Take-up Allowance x (mm)	Installation Allowances y (mm)		
			H3V	H5V	H8V
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

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

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 changes 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 addition bending stresses in the belt, leading to drastic reduction in the belt life. However, under the condition 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 idle 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. 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 80 .

Outside idlers should always be flat one because they run on the back of the belt. Outside idlers invariably increase the arc of 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 Max Spare 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 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 figure below .

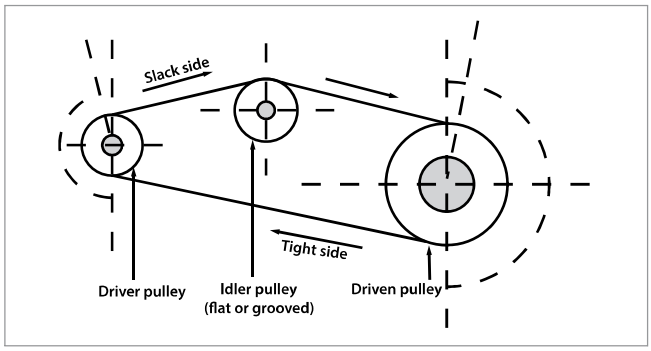
On drives where inside idler are used to break long spans, it is suggested that a grooved pulley be used because the usage of flat idler can result in transverse vibrations leading to the belt turnover .

Minimum diameter recommended for idlers

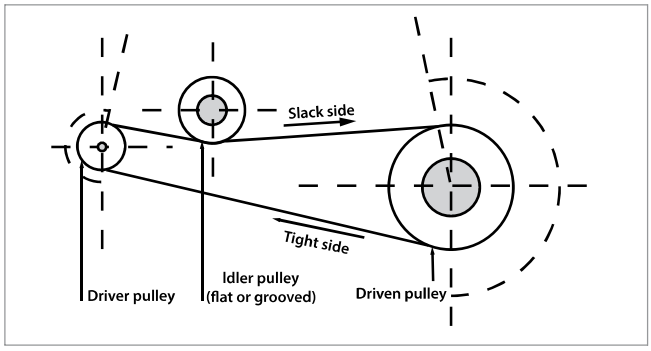
Inside Idler > smallest loaded pulley in the drive system or smallest permissible pulley diameter for section used.

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 dimension 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 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 = addition 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 decrease the service life of belts. To 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 Calculation :

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., Lp1 = Lp +2y Where, Lp is the length considering installation allowances. Lp is the pitch length calculated in step 1 .
3. The next largest standard length Lp (standard) is to be chosen near To Lp1, 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 is the standard length selected as above .

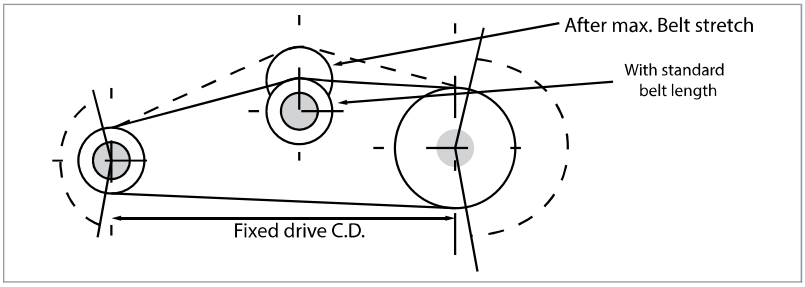
   X is the take – up allowance (see table no. 25)

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 K W
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 comprise of one groove pulleys & 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. Max Spare banded belts are more justifiable on these drives. The reinforced band over the belts provided the required lateral rigidity preventing the belts from turning over even under the extreme adverse conditions .
5. V - flat drives are economical when K lies between 0.5 & 1.15,

   $$\text{where } K = \frac{(Da - dd/da)}{a}$$

   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.

$K = \frac{(D_a - d_d / d_a)}{a}$	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	0.80
1.21	106	0.78
1.30	100	0.73
1.36	96	0.72
1.45	90	0.70

Calculated V – Belts

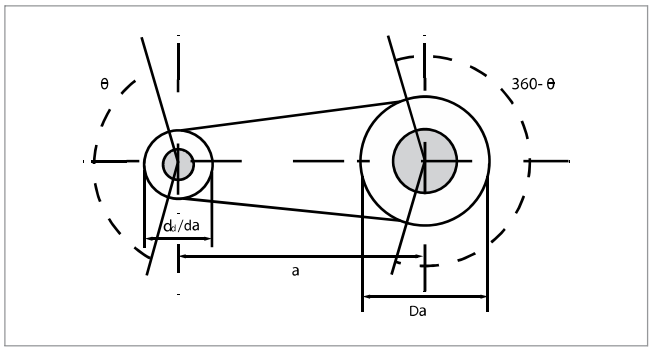
Section	Z	A	B	C	D	E
DZ	7	10	13	18	23	25

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 :

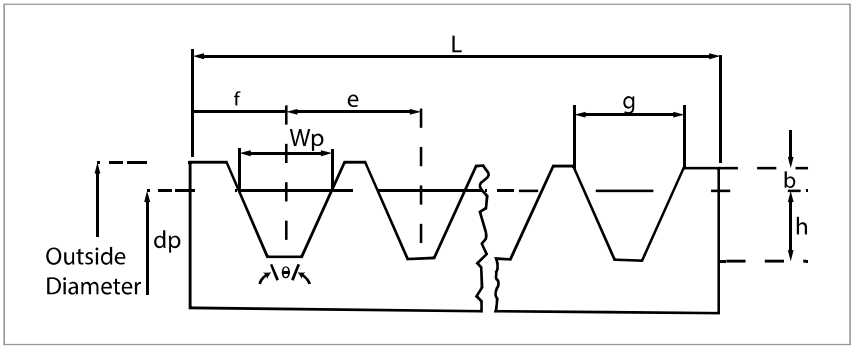
$$Lq = 2a + 1.57\,(d_a + D_a + D_z) + \frac{(D_a + D_z - d_a)^2}{4a}$$

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 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 610 610 & Over	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 aligment 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 are to be used for Banded belts except for "A" section ,where e = 15.9mm. The tolerance for side wobble and for run out (eccentricity) ,in mm per millimeter of pulley diameter shall be as follows :

Pulley diameter < 500 ± 0.001mm

500 mm < Pulley diameter < 1500mm ± 0.0015

Pulley diameter > 1500mm ± 0.002

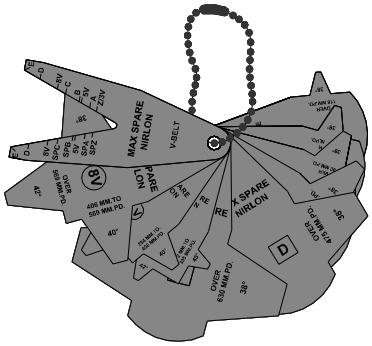
ACCESSORIES OF MAX SPARE NIRLON V BELTS

MAXSPARE V-BELT TENSION TESTER

Proper belt tension is vital to the operation of the drive and the life of the belts. To ensure optimum V-belt drive operation, it is recommended to check the tension in the belt with the help of tension measuring device.

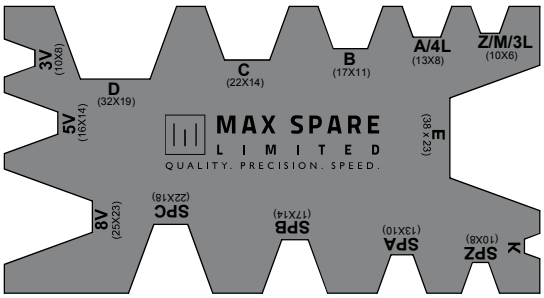
MAXSPARE PULLEY GAUGES

Maxspare Pulley Gauges are designed for checking profiles of the grooves of various conventional and dual section pulleys. Identify the pulley gauge to be used according to section and its diameter.



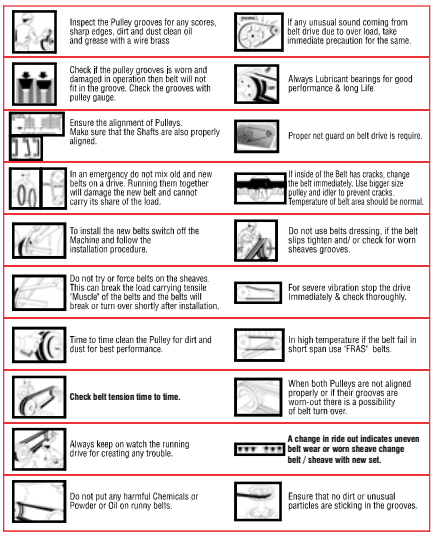
ANGLE GAUGE

Angle Gauge is a simple tool to determine the section of a V-Belt. If the belt marking or labelling is not visible belt would be inserted on Angle Gauge for deciding the exact belt profile and size.



INSTALLATION & MAINTENANCE CHART

Comprises of maintenance tips which helps in maintaining healthy condition of the drive.



BELT TOOL KIT

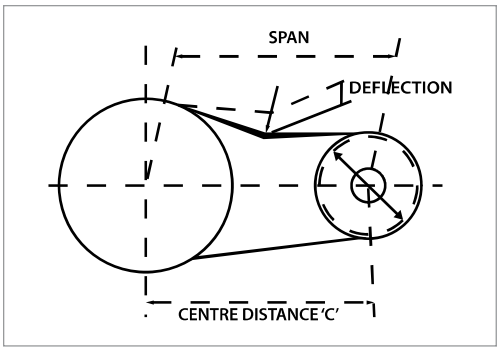
Consisting of pulley gauge, tension tester, measuring tape, angle gauge and Belt guide.

Tension Measurement Procedure :

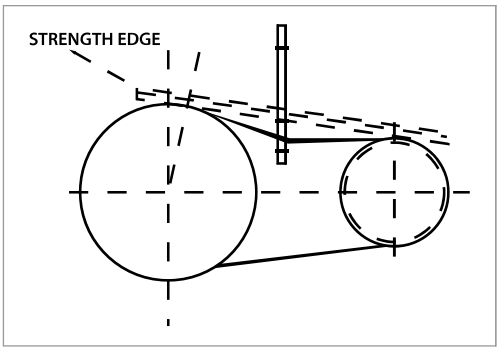
1. Measure the span – length of the belts in mm . (refer sketch on the next page)
2. Tie a string or a thread on the two pulleys along with the length of the belt and mark the centre of the span on the belt .
3. Calculate 1.5 % of the span (say x) for belt length less than 1000 mm and 1.0 % of the span 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 0.00N
4. Place tension tester at the centre of the span of the belt . Apply forces with the help of tension perpendicular to the span till the lower surface of the loer sing 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 forces less than the minimum recommended value in the range indicates an under – tensioned drive & deflrction 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 's recommended to re – check the belt tension after approximately 24 hours of running and adjust the, if necessary .



Deflection force value span



Deflection force value strength edge

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	50-100 100 & above	4-6 6-9	4-5 6-7	3-4 5-6	5-8 8-12	5-7 8-9	4-5 7-8
	A	71-140 140 & above	8-12 12-18	7-10 10-14	6-8 8-12	11-16 16-24	9-13 13-19	8-11 11-16
	B	112-200 200 & above	16-24 24-35	13-19 19-29	10-16 16-24	21-32 32-47	17-25 25-39	13-21 21-32
	C	180-400 400 & above	31-46 46-70	26-38 38-58	20-31 31-46	41-61 61-93	35-51 51-77	24-41 41-61
	D	315-600 600 & above	62-90 90-134	52-76 76-115	42-62 62-90	83-120 120-179	69-101 101-153	56-83 83-120
	E	450-915 915 & above	108-160 160-240	90-137 137-205	73-109 109-160	144-213 213-320	120-183 183-273	97-145 145-213
	WEDGE / NARROW BLETS							
	SPZ / 3V	63-95 95 & above	8-12 12-17	7-10 10-16	6-9 9-14	11-16 16-23	9-13 13-21	8-12 12-19
	SPA	90-140 140 & above	14-20 20-31	12-17 17-26	10-14 14-22	19-27 27-41	16-23 23-35	13-19 19-29
	SPB / 5V	140-265 265 & above	25-36 36-46	20-32 32-41	18-27 27-37	33-48 48-61	27-43 43-55	24-36 36-49
	SPC	224-355 355 & above	46-66 66-85	38-58 58-76	32-52 52-70	61-88 88-113	51-77 77-101	43-69 69-93
	8V	335-520 520 & above	81-107 107-167	68-90 90-140	56-73 73-113	108-143 143-223	91-120 120-187	75-97 97-151
CUT EDGE BELTS	**CLASSICAL V-BELTS**							
	ZX	40-100 100 & above	5-7 7-10	5-6 7-8	3-5 6-7	6-9 9-14	6-8 9-11	5-6 8-9
	AX	63-140 140 & above	9-14 14-21	8-12 12-16	7-9 9-14	12-18 18-28	11-14 15-21	9-12 12-18
	BX	90-200 200 & above	18-28 28-40	15-22 22-33	12-18 18-28	25-37 37-54	20-29 29-44	15-25 25-37
	CX	140-400 400 & above	36-53 53-81	30-44 44-67	23-36 36-53	48-71 71-107	40-58 58-89	31-48 48-71
	WEDGE / NARROW BLETS							
	XPZ / 3VX	56-95 95 & above	9-14 14-20	8-12 12-18	7-10 10-16	12-18 18-26	11-15 15-25	9-14 14-21
	XPA	71-140 140 & above	16-23 23-36	14-20 20-30	12-16 16-25	21-31 31-48	18-26 26-40	15-21 21-34
	XPB / 5VX	112-265 265 & above	29-41 41-53	23-37 37-47	21-31 31-43	38-55 55-71	31-49 49-63	28-41 41-57
	XPC	180-355 355 & above	53-76 76-98	44-67 67-87	37-60 60-81	71-101 101-130	58-89 89-117	49-80 80-107

General guidelines for tensioning of V-Belt :

1) Local tension is the lowest tension a 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 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 us for fixed centre drives
b) To clear obstruction
c) To break up long spans were 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 a 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% L.p.

Higher Limiting Value :

Nominal centre distance plus 3% L.p. Where L.p. is set 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 concerned. Under favourable storage conditions. Max Spare belts retains their initial serviceability and dimensions. Good storage facilities and practices will allow then users to achieve the best values from belts.

Max Spare V-belt should be stored in a cool & dry place with no directed 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 on 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 storage the V-belts is to hang them in crescent shaped pegs or pin racks.

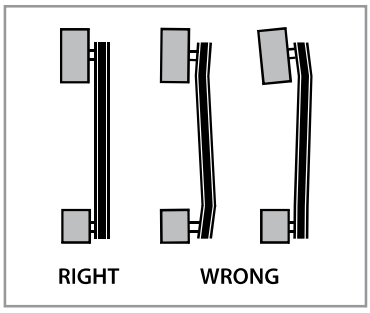
Long V-belt should be coiled for easy distortion free storage.

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

Effect of Storage :

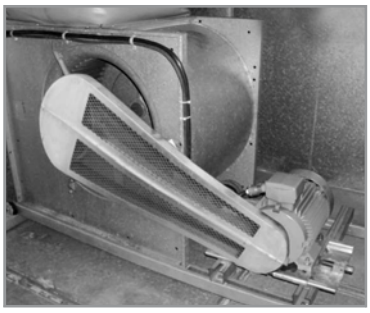
The shelf life of 6 years can be obtained if proper storage conditions are maintained i.e. ambient temperature not more that 30^{0}C & relative humidity not more that 70%. If the storage temperature increases than the service expectancy from the belts gets reduced. Under rough estimates it can be said that for an increase of 20^{0}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 prolonged period , then the belt tension should be relaxed & the necessary tension be provided when the drive is to be restarted.

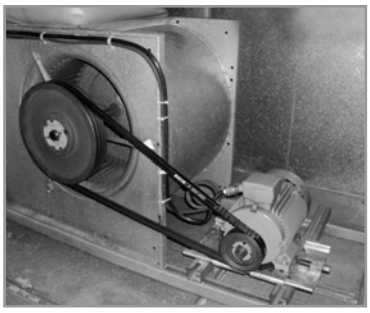


1. Ensure perfect alignment of pulley's.

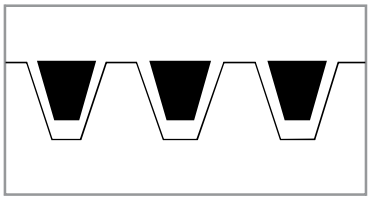
Correct



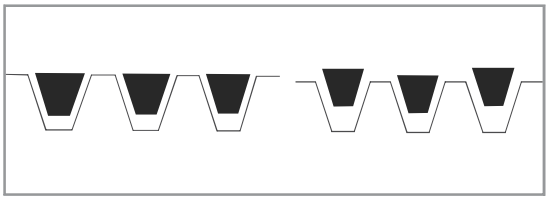
In-correct



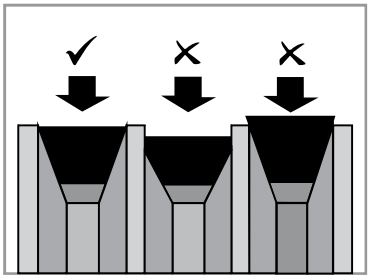
2.The grooves should be free from burrs, sharp edges, rust, oil and grease. The guard should be provided to prevent this.



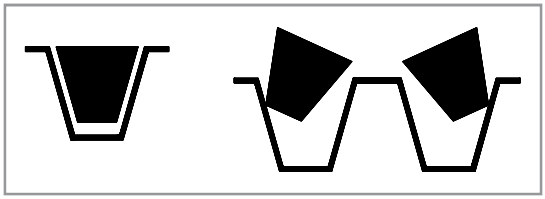
3. Belts used in multiple drive should be of same manufacturer



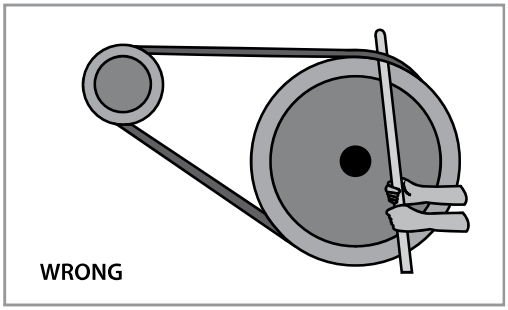
4. For multiple drive, use as many V-belts, required for better service life and low maintenance cost. For best results one should use Matched Set belts. The whole set should be replaced in one belt fails.
Max Spare belts should not be lubricated.



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 worm out sheaves. Bearings should also be checked for lubrication.



7. Do not pry or rail V-belts into the pulley grooves, if done so, the belts get damage internally as a result of which belt 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 worm out along the lower side walls, the upper canvas gets worn out.

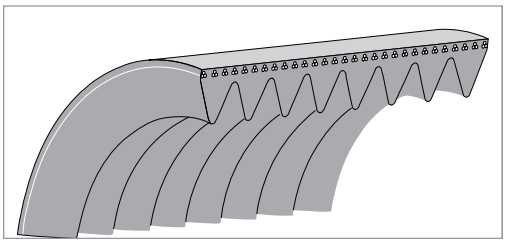
Please Remember

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.

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) Worm 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
Best Swelling or Softening	Contamination by oil or other chemicals	Protect drive from contamination. Clean pulley grooves with perfect 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 manufactures	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 fiting, damaging cord & cover b) Ingress of foreign material c) Insufficient belts or wrong section for drive d) Drive stalled	a) Replace 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 of belts, 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 * modify if necessary b) Shorten centre distance, use an inside idler in the drive slack side c) Use Branded belts or an inside idler pulley in the stack side d) Re-tension the belt e) Balance the pulleys
Cannot be retensioned	a) Insufficient allowance for stretch an drive design b) Excessive stretch caused by insufficient belts or wrong belt section for drive c) Incorrect belt length d) Belt form difference manufactures 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 manufacture

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 40^0. This construction leads to good support for all cords in the reinforcement and therefore an even load distribution is achieved.



(Cross Sectional View)

High tensile tension member across full width of belt for maximum utilisation of face width.

Ribbed driving surface for maximum area of contact and reduced face pressure.

Special rubber compound for high frictional grip and maximum tractive effort.

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.

Advantages of Poly Belt :

- More efficient as compare to regular V Belt.
- Cooler run on the drive and less heat generation on the drive.
- Low Slippage.
- Low Noise.
- Very small pulley can be used.
- No length variation.
- Surface contact of area is more as compare to regular single belt.
- Can save electricity.
- More flexible, because of thin belt.
- Poly belt is thinner and consequently has a less bending strain and resulting stress as well as lower hysteresis loss.
- Poly V belt drive is more smooth.
- Poly belt can be used on compact drive.
- A single belt can drive several accessories; Surpentine belt installation.
- Poly belt can be used on high speed drive.

Characteristics :

- Good Flexibility with high power carrying capacity per unit width.
- Low stretch.
- Temperature upto $+100^0$ 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 upto more than 600 kW.
- Combines the advantages of flat belts with those of V-belts.
- Antistatic, Oil and Heat resistant.

Size Designation :

Size : 550 J 8

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

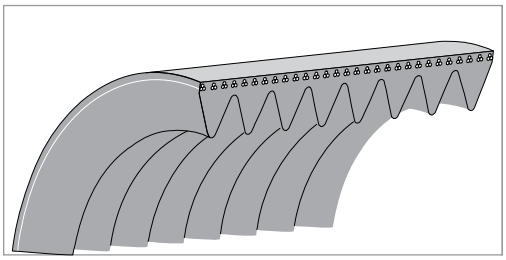
Size : 10 PJ 1397

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

Note : All Max Spare Ribbed Belts are Noise Free.

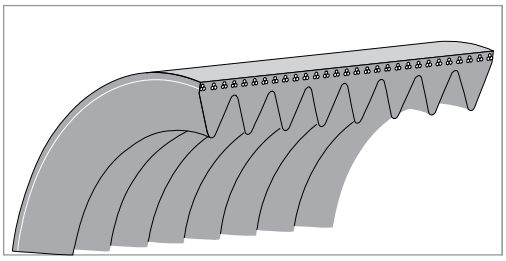
STANDARD PRODUCT RANGE

INDUSTRIAL BELTS



Section	Belt Thickness (mm) t	Rib Pitch (mm) e	Recommended Min Pulley Diameter (mm)	Range (mm) Effective Length (mm)	
				Min	Max
PH	2.90	1.60	13	600	4000
PJ	3.80	2.34	20	600	4000
PK	5.80	3.56	50	600	4000
PL	7.60	4.70	75	600	4000
PM	13.3	9.40	180	600	4000

AUTOMOTIVE BELTS



Section	Belt Thickness (mm) t	Rib Pitch (mm) e	Recommended Min Pulley Diameter (mm)	Range (mm) Effective Length (mm)	
				Min	Max
PK	4.5	3.56	50	550	6000

Note : All Max Spare Ribbed Belts are Noise Free.

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 the driven.
2. Nominal power (kW), P
3. Type & nominal speed of motor
4. Driven Shaft speed
5. Duly cycle category
6. Approximate centre distance

STEP 2: Determine the service factor & the design power

1. To determine the service factor (K) refer table B on page No. 93
2. Design power : Pd = P x k

STEP 3 : Select the ribbed Belt Section

Refer to the cross section selection chart IV on page 93

STEP 4: Select the effective diameter of the small pulley (de)

Refer table 26 on page 95

STEP 5: Determine the speed ratio

SR = R/r
R = speed of slower shaft
r = speed of slower shaft

STEP 6: Calculate the Large pulley effective diameter (De)

dp = de + (2 x h) for h refer page 95
Dp = dp x Sr
De = Dp - (2 x h)
Select the nearest pulley diameter from table 27 on page 96
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 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 : 20kW
3. Type & nominal speed of motor. DC Motor, 1450 rpm
4. Driven Shaft speed = 884 rpm
5. Duly 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 B on page No. 93 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 93 is
PL (Pd = 30 kW, n = 1450)

STEP 4: Select the effective diameter of the small pulley (de)

Refer table 26 on page 95 da = 140 mm

STEP 5: Determine the speed ratio

Sr = n/N Sr = 1450 / 884
n = speed of faster shaft Sr = 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. 95 dp = 144.6 mm
Dp = dp x Sr 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 27 on page No. 96
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

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

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

Le = 1594.92 mm

Standard effective length. Le = 1594 mm

STEP 9: Calculate the centre distance corresponding to the standard effective length

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

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

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 belt ribs

1. Determine the length correction factor, from table 38 pg. no.102 Cl = 0.95
2. Determine the arc of contact on the small pulley

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

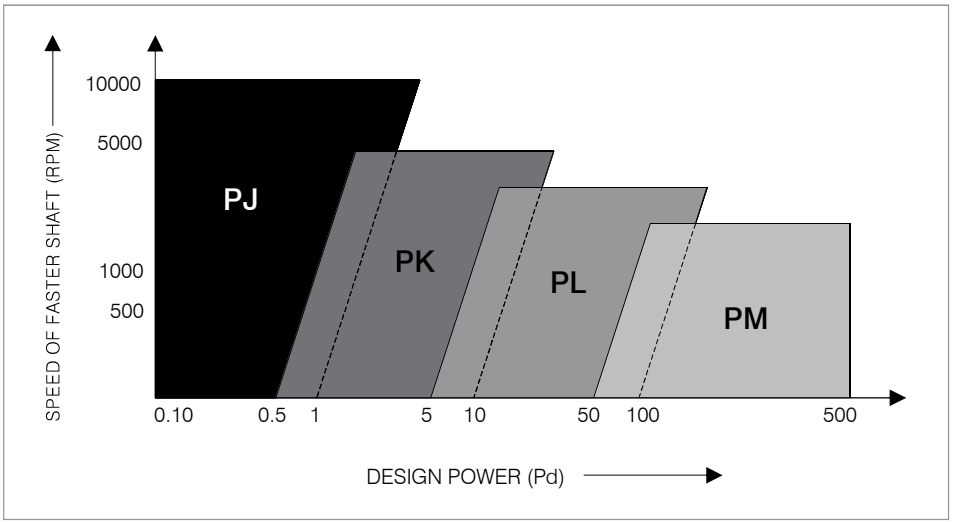
$$a = 180 - \left[\frac{60 \times (236 - 140)}{C}\right]$$

   a = 168.500
3. Determine the arc of contact correction factor from table 39 page no. 102 Ca = 0.96
4. Determine the speed ratio correction factor from table 37. Page no. 102 Cr = 0.120
5. Determine the basic power rating per rib (BPR) from table 36 page no.101 = 2.291 kW
6. Calculate the corrected power rating per rib (CPR)
   CPR = (BPR + Cr) x Cl x Ca = (2.21 + (2.91 + 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 B

Motor Class / Drive 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 D. C. Motors Compound & Series wound A. C. motors High Torque Vector Control Reluctance Motors IC Engines single cylinder Speed > 700 rpm Line shafts, clutches		
DUTY CYCLE CLASS	**< 10H**	**10-16H**	**> 16H**	**< 10H**	**10-16H**	**> 16H**
CLASS1 : 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/s rotary-compressors, pumps heavy duly 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 compression, 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 Crushes, grinder m/s, ball grinders, dredging m/c, agricultural m/s 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 - MM

Cross Section	Minimum Recommended Outer Diameter	Groove Angle ±0.25 Degrees	Sg	rt + 0.15 - 0.00	2a	rb	hg minimum	dB ± 0.001	Se
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

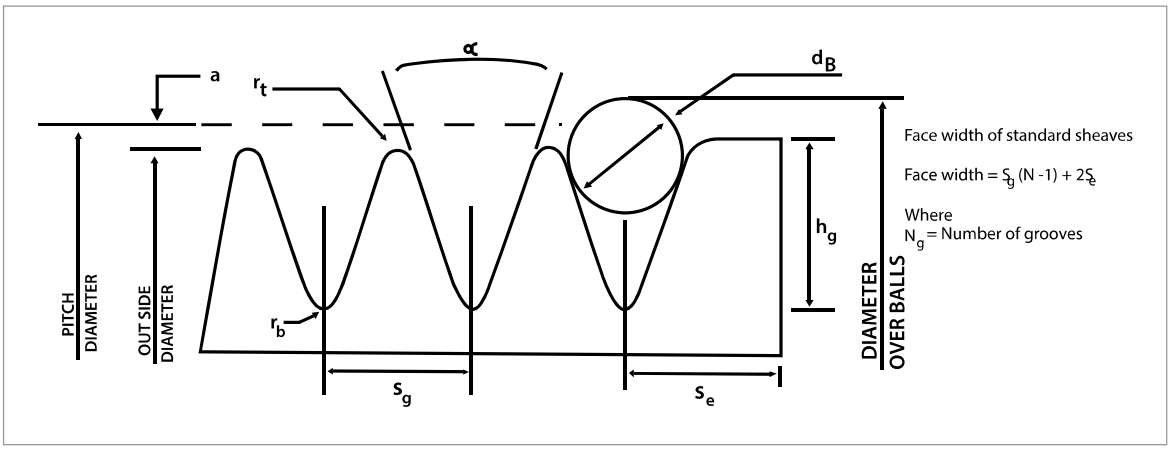


Figure : Standard Groove Dimensions

Definition of Small Pulley Effective Diameter (mm):

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

Belt Section	h (mm)
PJ	1.05
PK	1.6
PL	2.0
PM	2.6

Table 26 : 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 27 : 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 28 : Section PJ : Basic Power Rating Per Rib (kW) for Small Pulley Effective Diameter (mm)

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	0.54	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	0.0254	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	0.224	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	0.114	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	0.110	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	0.114	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	0.241	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	0.840	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	0.154	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	1.750	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	1.221	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	0.292	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	0.143	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	1.304	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	0.377	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	0.704	0.807	0.874	0.923	0.987	1.052	1.114	1.195	1.267	1.341	1.415	1.485	1.650	1.721	1.814	1.897	1.987	2.181	2.334	2.440	2.870					
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	1.867	1.951	2.038	2.228	2.370	2.457	2.467					
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	1.857	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	2.436	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	0.785	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	2.300	2.376	2.395	2.420							
6200	0.224	0.344	0.664	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	2.367	2.300	2.400	2.397							
6400	0.232	0.356	0.477	0.526	0.615	0.717	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	1.265	1.448	1.525	1.623	1.713	1.797	1.880	1.954	2.111	2.181	2.247	2.307	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	0.571	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	2.078	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	1.854	1.954	2.022	2.292	1.151	2.250	2.280	2.091	2.277										
8600	0.300	0.460	0.618	0.681	0.777	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	1.677	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	2.168	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													

Speed of the small pulley in rpm

Table 29 : Section PJ : Speed Ratio Correction Factor (Cr)

Speed of the 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	0.01	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
2500	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03
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	0.01	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	0.03	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	0.09
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	0.02	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 30
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
700-800	0.95
900-1200	1.00
1200-1500	1.05
1500-2000	1.10
2000-2500	1.15
Above 2500	1.20

Table 31
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 32 : Section PK : Basic Power Rating Per Rib (kW) for Small Pulley Effective Diameter (mm)

de	50	56	60	63	67	71	75	80	85	90	95	100	106	112	118	125	132	140	160	180	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	0.352	0.411	0.475	0.535	0.710	0.689	0.778	0.881	1.002	1.131	1.280	1.424	1.597	1.794
400	0.080	0.108	0.125	0.138	0.154	0.171	0.190	0.211	0.230	0.251	0.275	0.295	0.321	0.344	0.366	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	2.254	2.281	2.250	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	0.580	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	0.178	0.208	0.230	0.256	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	1.841	2.168	2.478	2.784	3.082	3.428	3.817
720	0.138	0.184	0.212	0.235	0.365	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	2.485	2.792	3.130	3.444	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	0.574	0.624	0.677	0.731	0.784	0.845	0.908	0.976	1.152	1.324	1.494	1.695	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	0.585	0.611	0.622	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	1.445	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	0.285	0.334	0.372	0.412	0.467	0.515	0.575	0.635	0.694	0.753	0.811	0.882	0.950	1.021	1.101	1.181	1.273	1.498	1.720	1.945	2.196	2.474	2.782	3.131	3.514	3.925	4.357	4.754	5.180	5.607
1400	0.244	0.329	0.385	0.424	0.481	0.536	0.592	0.659	0.730	0.796	0.865	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	4.861	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	1.764	2.027	2.281	2.581	2.896	3.250	3.644	4.067	4.511	4.954	5.346	5.732	6.065
1600	0.273	0.366	0.431	0.480	0.541	0.604	0.666	0.743	0.823	0.990	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	3.851	4.285	5.600	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	5.900	6.111	
2000	0.329	0.447	0.529	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	4.373	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	0.695	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	2.655	3.101	3.517	3.902	4.326	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	2.206	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	1.588	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	0.844	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	2.285	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	3.956	4.387	4.743	5.056	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	4.484	4.813	5.086	5.211								
4400	0.602	0.842	0.995	1.116	1.266	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	4.562	5.083										
4500	0.612	0.844	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	3.335	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	1.22	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	3.766	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	0.805	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	1.041	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	3.954	4.131	4.428												
6200	0.746	1.060	1.264	1.414	1.610	1.800	1.985	2.211	2.425	2.634	2.835	3.024	3.267	3.436	3.620	3.812	3.981	4.142	4.395												
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	4.334												
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	3.975	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	3.825	3.711	3.961														
7600	0.819	1.177	1.407	1.574	1.790	1.997	2.194	2.430	2.650	2.860	3.045	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	1.826	2.037	2.237	2.472	2.690	2.890	3.071	3.231	3.396	3.352	3.633	3.706															
8200	0.836	1.211	1.444	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	3.365	3.475	3.544	3.574															
8600	0.845	1.224	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	1.650	1.877	2.085	2.285	2.512	2.818	2.899	3.056	3.186	3.305	3.382	3.415																
9000	0.850	1.238	1.485	1.661	1.884	2.091	2.291	2.515	2.717	2.891	3.038	3.156	3.264	3.225																	
9200	0.850	1.242	1.490	1.664	1.890	2.095	2.292	2.524	2.270	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	2.834	2.956	3.042	3.987																		
9800	0.849	1.248	1.497	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	2.275	2.472	2.643	2.779	2.875	2.934																			

Speed of the small pulley in rpm

Table 33 : Section PK : Speed Ratio Correction Factor (Cr)

Speed of the 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	0.01	0.01	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	0.03	0.04	0.04
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	0.03	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	0.13
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	0.06	0.08	0.11	0.12	0.14	0.16
2200	0.00	0.03	0.06	0.09	0.12	0.14	0.16	0.18
2400	0.00	0.04	0.06	0.10	0.14	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	0.08	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	0.07	0.15	0.22	0.30	0.35	0.39	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	0.51
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	0.19	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	0.45	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	0.48	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	0.58	0.62	0.71
9000	0.00	0.12	0.24	0.36	0.48	0.58	0.64	0.73
9200	0.00	0.13	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 34
Length Correction Factor (Cl)

Effective Length	Correction Factor
Up to 200	0.90
1000-1400	0.95
1400-2000	1.00
2000-2300	1.05
2300-2500	1.10
Above 2500	1.15

Table 35
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 36 : Section PL : Basic Power Rating Per Rib (kW) for Small Pulley Effective Diameter (mm)

Speed of the small pulley in 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	0.997	1.265
200	0.149	0.167	0.184	0.200	0.280	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	0.936	1.061	1.205	1.361	1.515	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	1.897	2.012	2.474	2.284	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	1.085	1.160	1.235	1.310	1.396	1.597	1.790	2.031	2.300	2.591	2.880	3.221	3.612	4.529
500	0.349	0.386	0.427	0.471	0.510	0.550	0.600	0.646	0.691	0.751	0.803	0.870	0.944	1.025	1.103	1.181	1.259	1.336	1.427	1.519	1.611	1.716	1.941	2.201	2.496	2.821	3.176	3.525	3.936	4.402	4.575
560	0.385	0.428	0.472	0.520	0.563	0.607	0.662	0.719	0.770	0.831	0.812	0.962	1.1052	1.139	1.223	1.311	1.390	1.480	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	0.889	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	1.184	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	0.558	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	0.588	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	6.469	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	0.690	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	2.149	2.288	2.427	2.247	2.720	2.921	3.110	3.502	3.955	4.458	5.000	5.571	6.111	6.711	7.342	8.590
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	4.088	4.614	5.167	5.752	6.303	6.890	7.534	8.654
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	3.552	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	7.281	7.812	8.317	8.700	
1440	0.892	1.000	1.112	1.208	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	1.005	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	4.046	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	3.564	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	1.912	2.086	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	2.619	2.836	3.041	3.276	3.562	3.841	4.117	4.381	4.642	4.900	5.196	5.474	5.755	6.059	6.660	7.256	7.785	8.167					
2400	1.385	1.557	1.728	1.808	2.065	2.236	2.433	2.630	2.824	3.010	3.268	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	7.951						
2600	1.478	1.663	1.849	2.027	2.211	2.390	2.600	2.812	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	7.991						
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	3.057	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	3.982	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	4.563	4.850	5.158	5.513	5.833	6.190	6.361	6.568	6.732	6.872	6.945											
4400	2.210	2.490	2.762	3.026	3.260	3.538	3.831	4.109	4.380	4.684	4.965	5.272	5.617	5.923	1.190	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	5.664	5.964	6.219	6.422	6.585	6.694	6.753												
4600	2.280	2.565	2.842	3.119	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	5.769	6.038	6.252	6.414	6.516														
5000	2.410	2.688	3.001	3.279	3.554	3.881	4.112	4.401	4.670	4.966	5.233	5.512	5.812	6.059	6.241	6.361	6.400														
5200	2.462	2.770	3.063	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	3.697	3.962	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	5.356	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	5.368	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	3582	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	2.735	3.058	3.371	3.663	3.941	4.196	4.474	4.721	4.937	5.148	5.290	5.430																			
6600	2.760	3.088	3.400	3.667	3.970	4.219	4.488	4.728	4.922	5.111	5.245	5.331																			
6800	2.788	3.120	3.430	3.721	3.988	4.288	4.490	4.711	4.894	5.061	5.163	5.214																			
7000	2.805	3.139	3.451	3.731	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	3.134	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	2.562	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	2.556	3.166	3.442	3.680	3.820	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	3.870																								
9000	2.786	3.060	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	2.532	2.867	3.039	3.151	3.201																										
10000	2.588	2.804	2.959	3.048	3.072																										

Table 37 : Section PL : Speed Ratio Correction Factor (Cr)

Speed of the 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	0.020	0.020	0.020	0.020	0.030
400	0.000	0.010	0.010	0.020	0.030	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	0.160	0.210
2400	0.000	0.030	0.060	0.090	0.120	0.150	0.180	0.210
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	0.660	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	0.350	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 38
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 39
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 40 : Section PM : Basic Power Rating Per Rib (kW) for Small Pulley Effective Diameter (mm)

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	2.740	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	3.785	4.418	5.136	5.945	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	15.000	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	16.88	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	11.630	12.192											
3800	10.188	10.798	11.290												
4000	9.905	10.422													

Speed of the small pulley in rpm

Table 41 : Section PM : Speed Ratio Correction Factor (Cr)

Speed of the 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 42
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 43
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

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 which 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 worm or damaged in operation if the pulley tip gets smaller (sharpened) replace the pulley, since it can cause shortened belt life.

Installation Procedure

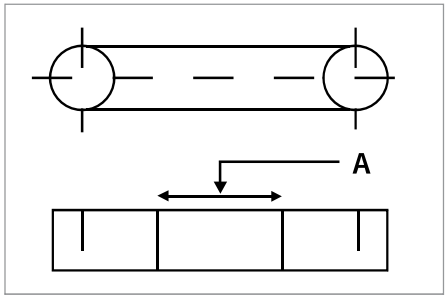
The following installation procedure should be strictly adhered to achieve the satisfactory performance from the ribbed belt drive.

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) Inspected 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) Gives some running time to the drive so that the belts are property seated in the grooves.
8) Guard the drive properly.

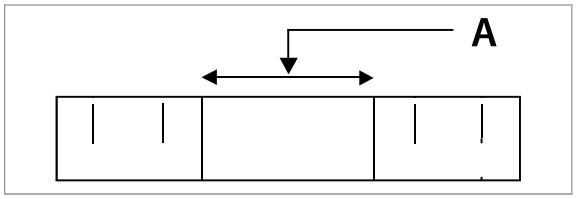
Tensioning Procedure

It is imperative that be achieve 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 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 pulley's as shown in the figure. Say for example the lines are placed 1000 mm apart.(A)



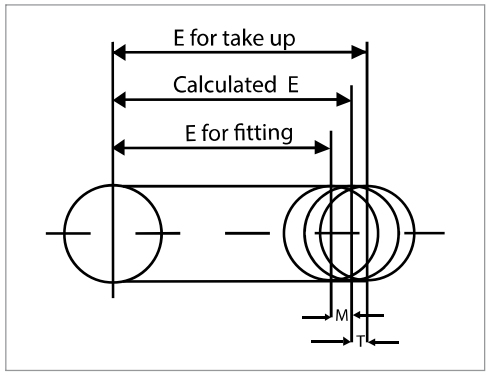
3) Increase the distance between two lines by 0.5 to 0.75% i.e. by 5 to 7.5 mm for an initial spacing of 1000 mm. so that the (A) now becomes 1007.5 mm



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	PJ		PK		PL		PM	
(mm)	M	T	M	T	M	T	M	T
<750	-10	+10	-11	+13				
750 to1200	-10	+15	-12	+16	-16	+20		
1200 to 2000	-15	+20	-16	+20	-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 :

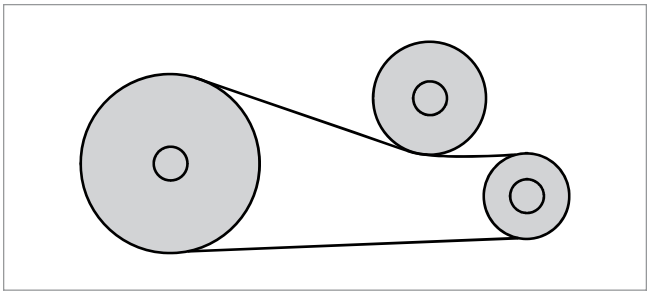
Be careful when you use the idler pulley since it mighe cause misalignment or shorten the belt service life through flex fatigue . The idler pulley is used when the pulley is fixed , when you want to reduce vibration , or to increase the contact angle of the small pulley . When you use an idler pulley , 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

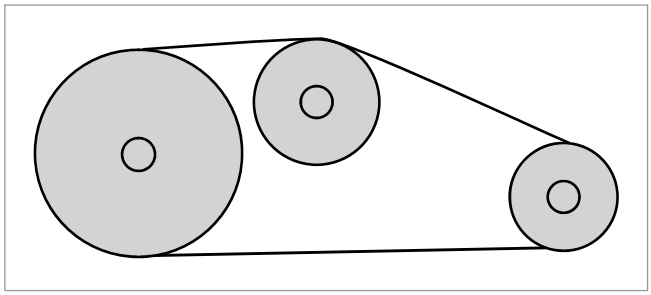
The idler pulley diameter should be larger than or equal to the smaller pulley diameter .



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

2. When using the outside idler pulley

The idler pulley diameter should be 1.5 times or more than the smaller pulley diameter .



- Use the flat idler pulley without any crown .
- Position of the idler puller 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

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) Top low belt tension e) Unbalanced pulleys	a) Redesigning drive may be necessary b) Use and inside idler on the stack side c) Use and inside idler on the stack 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 pulley's 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, greases or chemicals	a) Protect the drive

CONVERSION CONSTANTS

Length

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

Force

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

Torque

Kilogramforce metre (Kgf - m) x 9.81	=	Newton Metres (N -m)
Pound Feet (bf - ft) x 1.36	=	Newton Metres (N - m)
Pound Inches (bf - in) x 0.0113	=	Newton Metre (N - m)

Power

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

Speed

Feet /Minute (ft/min) x 0.00508	=	Meter/ Sec (mins.)

Mass

Kilogram (kg) x 2.205	=	Pound (lb)
Pound (lb) x 0.454	=	Kilogram (Kg)

Useful Formulate

Belt Speed (V) - V (m/s) = $5.236 \times d \times n \text{ (rev/min)} \; 10^{5}$

Power (P) : P (kW) = $\dfrac{\text{Torque (N-M)} \times n \text{ (rev/min)}}{9550}$

= Belt effective tension (N) x V//105

Torque (T) (N -M) = $\dfrac{9000\ P}{n}$

Belt effective tension (Te) : Te (N) = $\dfrac{2000\ T}{d}$

Static tension (Ts) : Ts (N) = 32 x F x B
Where F is the force required to deflct 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)

MAX SPARE LIMITED
QUALITY. PRECISION. SPEED.

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

Details of previous belt used	**Idlers (Tick ✓ Where necessary)**
Section & Size :	Inside / outside :
Make :	Flat / Grooved :
Batch Code :	Diameter of idlers :
No. of belts used :	On stack / on tight side :
Service life :	Tensioning - Spring tensioning / Screw tensioning :
Expected life of belt :	
Condition of drive :	
Alignment - OK / Not OK :	
Pulley worm out - Yes / No :	
Tensioning - OK / Not Ok :	
Belt Installation method following - Yes / No :	
Nature of failure :	

Signature & Date :	**For OFFICE USE ONLY**
	Attached by :-
Name & Designation :	Remarks :
Name of the Company :	
Address :	
Tel.: **Email:**	

Note: Pl make photocopies for your regular use.

MAX SPARE
LIMITED
QUALITY. PRECISION. SPEED.

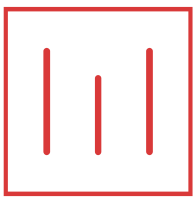
NOTES

MAX SPARE
LIMITED
QUALITY. PRECISION. SPEED.

NOTES

MAX SPARE
LIMITED
QUALITY. PRECISION. SPEED.

NOTES



MAX SPARE LIMITED

Oil Seal House, Plot No. A-403, Road No. 28, Wagle Estate, Thane (W) - 400604. INDIA.

Tel.: +91-22-2222 5555 | Fax: +91-22-2582 3991

Email: sales@maxspare.com | Website: www.maxspare.com

IS 2494 - (Part 1)

CM/L-3777684

IN TECHNICAL COLLABORATION WITH
UKSEALS & POLYMERS LTD. (ENGLAND)