

PREDATOR® POWERBAND®

Heavy duty, wrapped, aramid cord, joined V-belt

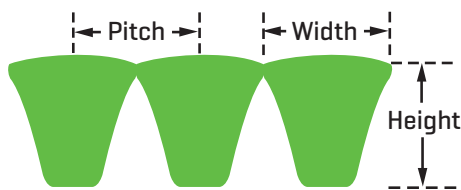


Maintenance & Energy Saving

Gates Predator® Powerband® offers a solution for drives where single belts vibrate, turn over or jump off the pulleys. It consists of several V-belts joined together by a permanent, high strength tie band, thus being tougher than all the belts taken separately.

Predator® Powerband® is especially designed for demanding applications and harsh environments, offering a high resistance to vibration.

Classical B and C sections are available on request.



SECTIONS & NOMINAL DIMENSIONS:			
	Pitch [mm]	Width [mm]	Height [mm]
SPB-P	19.00	17	13
SPC-P	25.50	22	18
3VP / 9JP	10.32	10	8
5VP / 15JP	17.46	17	13
8VP	28.58	26	23



Construction

- > Narrow cross-sections (classical on request).
- > Strong tie band joins the back of all belts.
- > Flex bonded aramid tensile cords.
- > Double layer bare back fabric cover.
- > Fibre-loaded compound for improved belt stability.
- > Gates Curves provide full contact with pulley grooves for uniform loading of cords, uniform wear and increased belt life.
- > Non self-igniting - the belt will not catch fire from heat build-up, even with severe slippage.
- > Static conductive - ISO 1813 (SPB & SPC Predator® Powerbands® only).

Advantages

- > Better resistance to vibrations.
- > High stability and smooth running on the toughest drives.
- > Maintenance free.
- > Up to 2.2 times more power than standard V-belts.
- > Aramid tensile cords easily handle shock loads.
- > Up to 35% reduced drive cost.
- > Up to 67% reduced drive width.
- > Up to 50% reduced drive weight.
- > Double layer bare back cover protects against slippage and punctures.
- > No increase in shaft load.
- > Replace MTO 8V drives with standard SPC pulleys.
- > Reduce overhung loads.
- > No need for constant re-tensioning.
- > Excellent problem solver.
- > Back idlers can be used.

Temperature Range

-35°C to +80°C

PREDATOR® POWERBAND® ORDERING CODE IS COMPOSED AS FOLLOWS:

2/SPB2120P

2 - Number of ribs

SPB - Section

2120 - Datum length [mm]

P - Predator®

2/5VP850

2 - Number of ribs

5V - Section

P - Predator®

850 - Effective length [1/10 inch]

NOTE:

For multiple Predator® belt drives matched belts must be ordered. See page 172 for more information on matched belts.

PREDATOR® POWERBAND®

SPBP		
Width 17mm	Height 13mm	Pitch 19.00mm
Belt Ref. (ISO)	Datum Length (mm)	Weight per Rib (kg)
#/SPB2120P	2120	0.68
#/SPB2240P	2240	0.72
#/SPB2360P	2360	0.76
#/SPB2500P	2500	0.81
#/SPB2650P	2650	0.85
#/SPB2800P	2800	0.90
#/SPB3000P	3000	0.97
#/SPB3150P	3150	1.02
#/SPB3350P	3350	1.08
#/SPB3550P	3550	1.15
#/SPB3750P	3750	1.21
#/SPB4000P	4000	1.29
#/SPB4250P	4250	1.38
#/SPB4500P	4500	1.46
#/SPB4750P	4750	1.54
#/SPB5000P	5000	1.62
#/SPB5300P	5300	1.72
#/SPB5600P	5600	1.81
#/SPB6000P	6000	1.94
#/SPB6300P	6300	2.04
#/SPB6700P	6700	2.17
#/SPB7100P	7100	2.30
#/SPB7500P	7500	2.43
#/SPB8000P	8000	2.59

= Number of ribs

Maximum number of ribs = 16

NOTE:

Operates on standard SPB pulleys.
 Not compatible with 5V pulleys.
 Predator® Powerbands® must be ordered as matched sets for multiple Predator® drives.
 See page 172 for more information on matched belts.
 SPBP Predator® Powerbands® are all black due to a coating used on the fabric to pass ISO 1813.
 Other belt lengths available on request (minimum order quantity may apply).

SPCP		
Width 22mm	Height 18mm	Pitch 25.50mm
Belt Ref. (ISO)	Datum Length (mm)	Weight per Rib (kg)
#/SPC3000P	3000	1.39
#/SPC3150P	3150	1.46
#/SPC3350P	3350	1.56
#/SPC3550P	3550	1.65
#/SPC3750P	3750	1.74
#/SPC4000P	4000	1.86
#/SPC4250P	4250	1.98
#/SPC4500P	4500	2.09
#/SPC4750P	4750	2.23
#/SPC5000P	5000	2.35
#/SPC5300P	5300	2.49
#/SPC5600P	5600	2.63
#/SPC6000P	6000	2.82
#/SPC6300P	6300	2.96
#/SPC6700P	6700	3.14
#/SPC7100P	7100	3.33
#/SPC7500P	7500	3.52
#/SPC8000P	8000	3.76
#/SPC8500P	8500	3.99
#/SPC9000P	9000	4.23
#/SPC10000P	10000	4.70
#/SPC10600P	10600	4.98
#/SPC11200P	11200	5.26

= Number of ribs

Maximum number of ribs = 12

NOTE:

Operates on standard SPC pulleys.
 Predator® Powerbands® must be ordered as matched sets for multiple Predator® drives.
 See page 172 for more information on matched belts.
 SPCP Predator® Powerbands® are all black due to a coating used on the fabric to pass ISO 1813.



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PREDATOR® POWERBAND®

3VP / 9JP

Width 10mm Height 8mm Pitch 10.32mm

Belt Ref. (RMA)	Belt Ref. (ISO)	Effective Length (mm)	Weight per Rib (kg)
#/3VP450		1145	0.13
#/3VP475		1205	0.13
#/3VP500		1270	0.14
#/3VP530		1345	0.15
	#/9JP1400	1400	0.15
#/3VP560		1420	0.15
	#/9JP1500	1500	0.17
#/3VP600		1525	0.17
#/3VP630	#/9JP1600	1600	0.18
#/3VP670	#/9JP1700	1700	0.19
#/3VP710	#/9JP1800	1800	0.20
#/3VP750	#/9JP1900	1905	0.21
	#/9JP2000	2000	0.23
#/3VP800		2030	0.23
	#/9JP2120	2120	0.24
#/3VP850		2160	0.24
	#/9JP2240	2240	0.25
#/3VP900		2285	0.25
	#/9JP2360	2360	0.26
#/3VP950		2415	0.27
	#/9JP2500	2500	0.29
#/3VP1000		2540	0.29
	#/9JP2650	2650	0.30
#/3VP1060		2690	0.30
	#/9JP2800	2800	0.32
#/3VP1120		2845	0.32
#/3VP1180	#/9JP3000	3000	0.34
	#/9JP3150	3150	0.36
#/3VP1250		3175	0.36
#/3VP1320	#/9JP3350	3350	0.38
#/3VP1400	#/9JP3550	3555	0.40

= Number of ribs

Maximum number of ribs = 10 (3VP), 30 (9JP)

NOTE:

Operates on standard 3V pulleys.

Not compatible with SPZ pulleys.

ISO 9JP Predator® Powerbands® available on request.

Predator® Powerbands® must be ordered as matched sets for multiple Powerband drives.

See page 172 for more information on matched belts.



Predator® Matching System

For more information on Gates Predator® matching system turn to page 172.

5VP / 15JP

Width 17mm Height 13mm Pitch 17.46mm

Belt Ref. (RMA)	Belt Ref. (ISO)	Effective Length (mm)	Weight per Rib (kg)
	#/15JP1400	1400	0.40
	#/15JP1500	1500	0.43
#/5VP600		1525	0.44
#/5VP630	#/15JP1600	1600	0.45
#/5VP670	#/15JP1700	1700	0.47
#/5VP710	#/15JP1800	1800	0.54
#/5VP750	#/15JP1900	1900	0.55
	#/15JP2000	2000	0.57
#/5VP800		2030	0.57
	#/15JP2120	2120	0.60
#/5VP850		2160	0.62
#/5VP870		2210	0.64
	#/15JP2240	2240	0.65
#/5VP900	#/15JP2360	2285	0.65
	#/15JP2360	2360	0.67
#/5VP950		2415	0.68
	#/15JP2500	2500	0.70
#/5VP1000		2540	0.71
	#/15JP2650	2650	0.75
#/5VP1060		2690	0.76
	#/15JP2800	2800	0.80
#/5VP1120		2845	0.81
#/5VP1180	#/15JP3000	3000	0.85
	#/15JP3150	3150	0.90
#/5VP1250		3175	0.91
#/5VP1320	#/15JP3350	3350	0.96
#/5VP1400	#/15JP3550	3555	1.02
	#/15JP3750	3750	1.07
#/5VP1500		3810	1.09
	#/15JP4000	4000	1.15
#/5VP1600		4065	1.17
	#/15JP4250	4250	1.23
#/5VP1700		4320	1.25
	#/15JP4500	4500	1.29
#/5VP1800		4570	1.31
	#/15JP4750	4750	1.37
#/5VP1900		4825	1.40
	#/15JP5000	5000	1.45
#/5VP2000		5080	1.48
#/5VP2030		5155	1.50
	#/15JP5300	5300	1.54
#/5VP2120		5385	1.57
	#/15JP5600	5600	1.64
#/5VP2240		5690	1.67
#/5VP2360	#/15JP6000	5995	1.77
	#/15JP6300	6300	1.84
#/5VP2500		6350	1.85
	#/15JP6700	6700	1.95
#/5VP2650		6730	1.96
	#/15JP7100	7100	2.08

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5VP / 15JP Cont.			
Width 17mm		Height 13mm	Pitch 17.46mm
Belt Ref. (RMA)	Belt Ref. (ISO)	Effective Length (mm)	Weight per Rib (kg)
#/5VP2800		7110	2.08
	#/15JP7500	7500	2.19
#/5VP3000		7620	2.22
#/5VP3150	#/15JP8000	8000	2.35
#/5VP3350	#/15JP8500	8510	2.50
#/5VP3550	#/15JP9000	9015	2.63

= Number of ribs
Maximum number of ribs = 16

NOTE:

Operates on standard 5V pulleys.
Not compatible with SPB pulleys.
ISO 15JP Predator® Powerbands® available on request.
Predator® Powerbands® must be ordered as matched sets for multiple Powerband® drives.
See page 172 for more information on matched belts.

8VP		
Width 26mm	Height 23mm	Pitch 28.58mm
Belt Ref. (RMA)	Effective Length (mm)	Weight per Rib (kg)
#/8VP1000	2540	1.77
#/8VP1060	2690	1.89
#/8VP1120	2845	2.01
#/8VP1180	2995	2.12
#/8VP1250	3175	2.27
#/8VP1320	3355	2.39
#/8VP1400	3555	2.54
#/8VP1500	3810	2.73
#/8VP1600	4065	2.88
#/8VP1700	4320	3.07
#/8VP1800	4570	3.30
#/8VP1900	4825	3.48
#/8VP2000	5080	3.64
#/8VP2120	5385	3.86
#/8VP2240	5690	4.09
#/8VP2360	5995	4.28
#/8VP2500	6350	4.55
#/8VP2650	6730	4.81
#/8VP2800	7110	5.15
#/8VP3000	7620	5.49
#/8VP3150	8000	5.80
#/8VP3350	8510	6.17
#/8VP3550	9015	6.51
#/8VP3750	9525	6.85
#/8VP4000	10160	7.31
#/8VP4250	10795	7.76
#/8VP4500	11430	8.22
#/8VP4750	12065	8.71
#/8VP5000	12700	9.17
#/8VP5600	14225	10.34
#/8VP6000	15240	11.10

= Number of ribs
Maximum number of ribs = 12

NOTE:

Operates on standard 8V pulleys.
Predator® Powerbands® must be ordered as matched sets for multiple Powerband® drives.
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