〔I〕 Power Ace · Power Ace Cog · Power Scram

1. An Introduction to the Power Ace

The Power Ace is a narrow V-belt with a redesigned internal structure, delivering greatly increased transmission capabilities, along with upgrades in a number of other features, including speed and reliability. (Classified in JISK6368 as narrow V-belts).

Features

■Able to Realize the Miniaturization of Transmission Equipment, and Lower Costs.

The Power Ace is equipped with especially strong transmission capabilities, and only occupies about 1/3 of the space in transmission equipment occupied by standard V-belts.
Additionally, unlike chain or gear transmission, there is no need to apply oil to the equipment, thereby lowering equipment and maintenance costs.

■High-Speed Operations.

The Power Ace is equipped with especially strong transmission capabilities, and can cut transmission losses resulting from centrifugal forces. Ideal for use in high-speed operations, the belt can reach maximum speeds of 40m/s.

■Convenient Maintenance.

During operation, there is not much elongation of the Power Ace belt, so there is basically no need to perform retensioning. Additionally, there is no need to apply oil, as is necessary in chain or gear transmission, thereby saving maintenance time.

■Extended Service Life, Strong Reliability.

Thanks to its ideal shape, based firmly in transmission theory, and its top-quality manufacturing technologies, the Power Ace's service life has been extended, and there's almost no chance of malfunctions during operations.

■Outstanding Physical Attributes.

●Outstanding Resistance to Heat.

Generally, increases in a working environment's temperature mean drops in a belt's service life. Compared to traditional V belts, the Power Ace provides stronger resistance to high temperatures.

●Static Electricity Prevention.

The Power Ace meets RMA (U.S.A.) standards for keeping static electricity below 6MΩ, so that it can be used in transmission equipment at petroleum plants, mines, and other locations.

●Strong Resistance to Fire.

The Power Ace is especially equipped with chloroprene rubber, which has demonstrated strong fire-extinguishing performance. Don't miss out on this feature!

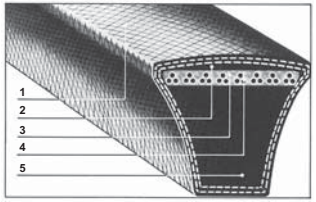
●Outstanding Oil Resistance.

Can even be used when a small amount of oil mist or other oil is present on its surface.

●Strong Climate and Ozone Resistance.

Able to be used without worries either outdoors or in seaside areas. However, if this belt is to be used under direct sunlight, please install a belt cover for protection.

Structure



1. Outer layer
2. Upper section of rubber
3. Insulating Rubber
4. Tensile Members
5. Lower section of rubber

●Tensile Members

Made of highly-elongated polyester fibers to minimize further elongation. There is also no need to worry about peeling of the fibers.

●Lower section of rubber

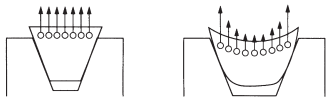
Thanks to its use of special chloroprene rubber, not much heat is released during use, thereby extending the belt's service life.

●Outer Layer of Canvas

Thanks to the use of a specially-knit canvas, even if the belt is wound around a pulley with a relatively small diameter, it will not have much of an effect on the fiber's tension. Nor will there be much warping, thereby effectively cutting down on transmission wear due to bending-related stress.
Additionally, this also is beneficial in protecting the belt's interior.

●Arched top

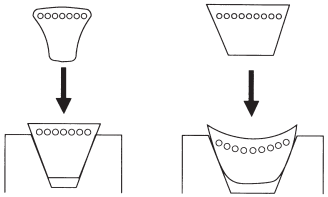
During operations, this can prevent the deformation of the belt, keeping the belt's tensile members in their proper location. Thus, force will be exerted evenly amongst all of the belt's tensile members, thereby extending the belt's service life.



Power Ace Standard V-Belt

●Concave Sides

After being wound around pulleys, the sides of the belt will form a straight line, ensuring even contact with the pulleys and enhanced transmission capabilities. Additionally, wear on the belt's sides will be distributed evenly, extending the belt's service life.



Power Ace Standard V-Belt

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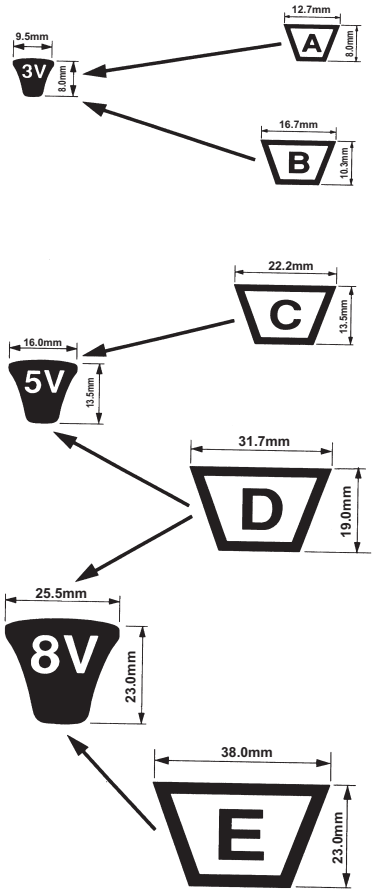
Types



(Note) The dimensions of the Power Ace's profile are its nominal size.

Table 1 Belt Dimensions

3V Type		5V Type		8V Type	
Designated code	Effective outer length (mm)	Designated code	Effective outer length (mm)	Designated code	Effective outer length (mm)
250	635	500	1270	1000	2540
265	673	530	1346	1060	2692
280	711	560	1422	1120	2845
300	762	600	1524	1180	2997
315	800	630	1600	1250	3175
335	851	670	1702	1320	3353
355	902	710	1803	1400	3556
375	953	750	1905	1500	3810
400	1016	800	2032	1600	4064
425	1080	850	2159	1700	4318
450	1143	900	2286	1800	4572
475	1207	950	2413	1900	4826
500	1270	1000	2540	2000	5080
530	1346	1060	2692	2120	5385
560	1422	1120	2845	2240	5690
600	1524	1180	2997	2360	5994
630	1600	1250	3175	2500	6350
670	1702	1320	3353	2650	6731
710	1803	1400	3556	2800	7112
750	1905	1500	3810	3000	7620
800	2032	1600	4064	3150	8001
850	2159	1700	4318	3350	8509
900	2286	1800	4572	3550	9017
950	2413	1900	4826	3750	9525
1000	2540	2000	5080	4000	10160
1060	2692	2120	5385	4250	10795
1120	2845	2240	5690	4500	11430
1180	2997	2360	5994	4750	12065
1250	3175	2500	6350	5000	12700
1320	3353	2650	6731	5600	14224
1400	3556	2800	7112		
		3000	7620		
		3150	8001		
		3350	8509		
		3550	9017		

When using a number of belts together, please make sure that matching sets are used.

Example

5V 1250

- 1250 — Designated code (Effective outer length (125 inches: 3175mm))
- 5V — Belt type (5V-type) (Top's width (5/8 of an inch: 16mm))