

HY-T® Wedge Belts

A narrower cross section and stronger construction reduces drive costs



Part Number: 5V1400

5V	0.62 in. top width - Narrow profile
1400	140 in. nominal outside length
	Envelope uncogged construction shown

The savings start in the basic wedge or narrow design of the HY-T® Wedge belt. It has a narrower cross section than standard V-belts so it distributes stresses more uniformly to deliver more consistent, more reliable power transmission.

A wedge cross-section means the belts are narrower and weigh less. Narrower belts allow for the use of thinner and lighter sheaves, resulting in a more efficient drive.

The savings continue through the higher horsepower capacity provided by ContiTech HY-T® V-belt construction. Vytacord® tension members provide strength and dimensional stability. Higher horsepower capacity is also provided through a tough engineered rubber compound cushion, adding to belt strength.

HY-T® Wedge, with its narrow cross-section, makes it possible to achieve a required horsepower with fewer HY-T® Wedge belts than with standard V-belts, reducing sheave size, sheave costs and belt costs even more.

Since less power is required to run the smaller, lighter drives, more power gets to the load. Therefore, you may be able to downsize drive motors and/or increase drive efficiency for even more savings.

Matchmaker® performance

HY-T® Wedge belts eliminate mismatch problems as each Matchmaker® belt is mirrored in size and performance to every other HY-T® Wedge belt in that size, no matter when or where it was produced.

Cut-edge or envelope constructions provide optimum performance

HY-T® Wedge belts are produced with a highly engineered EPDM compound available in a cut-edge cogged construction for increased flexibility and heat dissipation with a broader temperature range than ever before (-40°F to 230°F/-40°C to 110°C). This belt can handle extremely high temperatures and is also available in envelope construction for drives where pulsation shock loads, high tension and long centers are involved.

HY-T® Wedge Cogged belts are high-horsepower belt constructions that are identified with a 3VX and 5VX prefix and are available in lengths up to 200 inches. The cogged construction provides the high flexibility required for short center distances. The cogs also provide a larger surface area to dissipate heat and prolong belt life. Improved material properties and advanced construction technology results in an average horsepower increase of 30% over standard "Classical" V-belt and wedge belts.

HY-T® Wedge envelope belts are identified with a 3V, 5V or 8V prefix and are recommended for drives where pulsation, shock loads, high tension and long centers are involved. It features a continuous V-section that is protected by a wide angle, synthetic fabric impregnated with high-quality engineered rubber compound. This unique envelope achieves the high-strength HY-T® Wedge belts need to withstand high loading forces. It also provides the torsional rigidity required in long center drives delivering the traction needed for accurate tracking and precision performance.

Applications

Narrow profile belts for compact, high horsepower drives, high-shock loading on short centers and small diameters. For designing compact, heavy-duty drives where space limitation is a factor.

Key features & benefits

- › Narrow profile provides savings through efficiency.
- › Greater horsepower than the Classical belt.
- › Strong Vytacord® (polyester) tensile members.
- › High-grade engineered rubber.
- › Heat, ozone and abrasion resistant.
- › Available in raw-edge construction with cogs or envelope construction.
- › Matchmaker® to eliminate mismatch.
- › Static conductive.*
- › Operates in a wide ambient temperature range (-40°F to 230°F/-40°C to 110°C).
- › EPDM construction (cut-edge cogged only).

*Drive conditions and service variables in combination with time in operation can result in a loss of static conductivity. It is recommended that a conductivity check be added to drive preventive maintenance programs where belt static conductivity is a requirement.

HY-T[®] Wedge Belts

Cross Sections and Lengths Available

Noncogged Sizes

Part #	Effective Length (in.)	Part #	Effective Length (in.)	Part #	Effective Length (in.)
3V					
3V250	25.0	3V475	47.5	3V900	90.0
3V265	26.5	3V500	50.0	3V950	95.0
3V280	28.0	3V530	53.0	3V1000	100.0
3V300	30.0	3V560	56.0	3V1060	106.0
3V315	31.5	3V600	60.0	3V1120	112.0
3V335	33.5	3V630	63.0	3V1180	118.0
3V355	35.5	3V670	67.0	3V1250	125.0
3V375	37.5	3V710	71.0	3V1320	132.0
3V400	40.0	3V750	75.0	3V1400	140.0
3V425	42.5	3V800	80.0		
3V450	45.0	3VX850	85.0		
5V					
5V500	50.0	5V1060	106.0	5V2000	200.0
5V560	56.0	5V1120	112.0	5V2120	212.0
5V630	63.0	5V1180	118.0	5V2240	224.0
5V670	67.0	5V1250	125.0	5V2360	236.0
5V710	71.0	5V1320	132.0	5V2500	250.0
5V750	75.0	5V1400	140.0	5V2650	265.0
5V800	80.0	5V1500	150.0	5V2800	280.0
5V850	85.0	5V1600	160.0	5V3000	300.0
5V900	90.0	5V1700	170.0	5V3150	315.0
5V950	95.0	5V1800	180.0	5V3350	335.0
5V1000	100.0	5V1900	190.0	5V3550	355.0
8V					
8V1000	100.0	8V1800	180.0	8V3150	315.0
8V1060	106.0	8V1900	190.0	8V3350	335.0
8V1120	112.0	8V2000	200.0	8V3550	355.0
8V1180	118.0	8V2120	212.0	8V3750	375.0
8V1250	125.0	8V2240	224.0	8V4000	400.0
8V1320	132.0	8V2360	236.0	8V4250	425.0
8V1400	140.0	8V2500	250.0	8V4500	450.0
8V1500	150.0	8V2650	265.0	8V4750	475.0
8V1600	160.0	8V2800	280.0	8V5000	500.0
8V1700	170.0	8V3000	300.0	8V5600	560.0