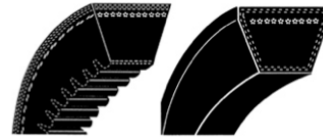


Notched V-Belts

- Slots that run perpendicular to belt's length
- Can replace standard V-belts
- Run cooler, last longer and higher efficiency
- 97% efficient



Notched vs. Standard V-Belt

NOTCHED V-BELTS



OVERVIEW

Approximately one-third of electric motors in the industrial and commercial sectors use belt drives. Notched V-belts can be used with the same pulleys as similarly rated V-belts. Notched V-belts can have a peak efficiency of 97 percent or more at time of installation. A notched belt reduces slip and allows the belt to bend around sheaves with less energy loss. Compared to the standard belt, the reduction of slippage on the sheave, offered by notched v-belts, can save as much as 5 percent motor power. Regular tension maintenance is important for obtaining maximum efficiency from belts. After the break-in period, belt tension should be checked every 3 to 6 months.

INCENTIVES

An incentive of **\$5 per horsepower**, max of \$50 per motor, is available for commercial and industrial customers replacing standard V-belt drives with notched V-belt drives in HVAC supply and return air fans operating at least 4,000 hours per year.

Visit idahopower.com/business for program details and requirements.

Payback

Notched V-belts may be used with existing pulley but typically cost 20-30 percent more than a standard V-belt. Due to the extended life of the v-belt, the life-cycle costs are negligible and the payback is typically less than 3 months with an incentive.

References

U.S. Department of Energy, Energy Tips: MOTOR SYSTEMS. Retrieved on August 8, 2016 from <http://www.nrel.gov/docs/fy13osti/56012.pdf>

U.S. Department of Energy, Notched V-Belts. Retrieved on August 8, 2016 from <https://ecenter.ee.doe.gov/EM/tools/Pages/NotchedVBelt.aspx>



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