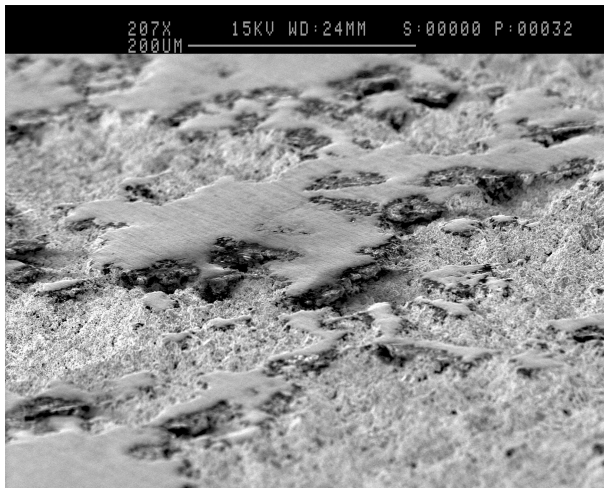




GRAB THE POWER™

The world's first and only belt-friendly, ultra-hard coating for pulleys that **dramatically** increases V-belt grip, pulley and belt life, and transferred power

Belts grip—and slip—at the microscopic level. By providing a microscopic, belt-friendly surface, Vulcan Grip's engineered micro-texture provides the micro-traction that V-belts love.



A scanning electron photomicrograph of Vulcan Grip, shown here at 150× magnification

Imagine how poorly your car's brakes would perform if you drove on a road made of smooth steel. Yet, this is precisely what V-belts, which are made of vulcanized rubber just like tires, have long had to grip against.

Think of Vulcan Grip as an asphalt road surface for V-belts! Since the invention of the rubber V-belt in 1917, pulleys have lacked this micro-size, belt-friendly, ultra-hard road surface... until now.

With Vulcan Grip's engineered micro-texture you get:

- **More power:** Vulcan Grip's grippy micro-textured surface substantially increases power transfer. More power is made available to the business end of your machine.

- **Greater productivity:** What could a small, 10-percent speed improvement, all day every day, do for your productivity?

Seemingly small slip rates cause *huge* losses in delivered power (torque times speed). What could a 20–25% improvement in machine power do for your bottom line?

- **Greater reliability:** By providing “friendly friction,” Vulcan Grip's tough, corrosion-resistant cermet composition virtually eliminates pulley wear. By eliminating slippage, pulleys coated with Vulcan Grip don't eat belts like conventional pulley drives. Drives run cooler so even bearings are happier.

- **Substantial savings:** You spend less on fuel, pulleys, belts, and mechanics labor.

- **Fire safety:** In the event of a catastrophic drive system lockup, Vulcan Grip's micro-texture abrades the belt—like a skidding tire—rather than rubbing it and generating high frictional temperatures that can lead to a belt-initiated fire.



FAQ

What is V-belt slippage?

Slippage occurs when a V-belt loses traction and partially slides along the pulley groove surface, resulting in power loss, part wear, and potentially dangerous heat buildup.

What problems are caused by slippage?

- Belts and expensive pulleys wear—and wear out.
- Fuel is wasted.
- Excessive heat can destroy bearings and gearboxes and cause belt fires.
- A lot of engine power is converted into waste heat.
- Productivity suffers!

What causes belt slippage?

- Worn pulleys
- Worn or glazed belts
- Pulley misalignment
- Improper tensioning
- Undersized pulleys for the power being transferred
- Oily or greasy belts

Where should Vulcan Grip be used?

Vulcan Grip is ideal for any high-horsepower V-belt drive system where belts run hot or where slippage and wear are problems. Many of these systems use multi-groove belts and operate in dusty, dirty environments.

Common examples include:

- Grain combines

- Forage harvesters
- Animal feed mixers
- Mobile pump systems
- Cone, jaw, double-row, and impact rock crushers
- Vibrating grizzly rock feeders

How much does it cost?

Vulcan Grip may “seem” expensive, but is very cost effective. It *saves* you money by:

1. **Fuel savings:** Our 800-hp test machines save an average of 20–50 gallons of fuel *per day*.
2. **Increased production:** More power transferred equals more productivity.
3. **Fewer replacement parts:** A pulley with Vulcan Grip will probably be the last pulley you buy.
4. **Replacement belts:** By eliminating slip, belts last *much* longer and run cool to the touch.
5. **Maintenance labor:** Whether you hire a shop to service your machine or you provide your own labor, labor is expensive.
6. **Core rebate:** We buy rebuildable cores of many popular pulleys.

What if my belt must slip for over-load protection?

If your belts must slip in the event of a severe power overload, we can “dial back” on the pulley surface coefficient of friction while retaining Vulcan Grip’s ultra-hardness and abrasion and corrosion resistance.

