



A worldwide leader in engine airflow management, Horton, Inc. provides the broadest line of variable, on/off and multispeed fan drives engineered to save fuel, reduce noise and maximize performance. With 60 years of experience, Horton is well regarded for its commitment to innovation, reliability and the environment.

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### Horton Holding, Inc. Celebrates Its 60th Anniversary Company has evolved since humble beginnings to become industry leader

Chances are that Horton is part of your everyday life. You encounter Horton products daily when your mail and consumer goods are transported to your town by truck, when you ride a transit bus, when your child rides a school bus, when your home or workplace is under construction, when the food on your table is produced by the agricultural industry.

Horton, Inc., a leading provider of premium engine cooling solutions worldwide, celebrates its 60th anniversary in September 2011. From its humble beginnings with three employees and no machines, in 1951, the Horton of today has an international presence and state-of-the-art technical centers for development and testing that include specialized test cells, a dynamometer with ram air provisions, a wind tunnel and a cooling system simulator.

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### Horton's second annual Ross Pusateri, Sr. Sales Achievement Award presented to Pusateri Sales

Horton, Inc. presented Pusateri Sales of Canton, Ohio, with the



Horton, Inc. — Pusateri Award

Fall 2011

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second annual Ross Pusateri, Sr. Sales Achievement Award. Pusateri Sales, a family-owned business, has been a manufacturer's representative for Horton for 30 of Pusateri's 40 years and sells Horton products in Indiana, Kentucky, Michigan, Ohio, Pennsylvania and West Virginia.

(from left to right) Hugh K. Schilling, chairman of the board, Horton Holding, Inc.; Ross Pusateri, Jr., vice president, Pusateri Sales; Michael Pusateri, sales representative, Pusateri Sales; Craig Meyer, sales representative, Pusateri Sales; Ken Brandt, northeast regional manager, Horton, Inc.; Geert Henk Touw, president and CEO, Horton, Inc.

"I like to say that Pusateri Sales has been representing Horton since before fan clutches were cool," says Ross Pusateri, Jr., vice president at Pusateri Sales. "My father, Ross Pusateri, Sr., for whom Horton named this award, admired Horton and its founder, Hugh Schilling. My father's passion for representing Horton continues at Pusateri Sales. It is a pleasure representing Horton."

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## Horton Achieves ISO 14001 Certification

Horton has attained ISO 14001 Environmental Management System Certification for its Roseville, Minn., Britton, S.D., and Carmel, Ind. facilities. The Schweinfurt, Germany facility received ISO 14001 certification in 2010.

ISO 14001:2004 is a global specification covering processes and practices necessary to limit environmental impact through significantly reduced energy and raw materials consumption and lower production of waste materials. The standard was created to help all types of organizations to protect the environment, prevent pollution and improve their environmental performance.



"Horton, which celebrates its 60th anniversary this year, strives to be an environmentally friendly company. One of our customers encouraged us to become ISO 14001 certified. We expedited the process, which typically takes 12 to 18 months, completing it in six months," says Tom Wollin, director of quality, Horton, Inc. "Now, we are encouraging our suppliers to join us in becoming ISO 14001 certified. We're particularly proud of this achievement."

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## TECH TIPS Identifying Slip/Heat Issues, Causes and Remedies

When signs of slip/heat are visible on a fan drive, it's an indication of an underlying problem. The remedies are as varied as the causes. In most cases, the damage is not covered under warranty.

Slip/heat incidences can be found in all applications with on/off and two-speed fan drives. The following are signs of a slip/heat issue:

- Heat cracks going past the perimeter of



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\* ISO/TS 16949, ISO 14001 and ISO 9001 Certified  
\*\* ISO 14001 and ISO 9001 Certified

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the fan mounting disc

- A bubbled appearance in the fan mounting disc
- Excessive friction facing wear
- Worn fan mounting friction disc (FMFD) or piston friction disc (PFD)
- Premature fan mounting disc failure

The underlying causes of slip/heat damage are diverse and include:

- The incorrect fan drive for the application
- A fan drive paired with a fan that is too large
- Fan obstruction
- The wrong repair kit used during maintenance
- Low air pressure from a restricted air line, solenoid valve or solenoid valve filter assembly
- System air leak
  - Internal to the fan drive
  - Internal to the solenoid valve and filter assembly
  - Within the air line supplying air to solenoid valve or from solenoid valve to the fan drive
  - Leakage at air line fittings
- Excessive cycling of the fan drive due to a mechanical or electrical problem, or an improper setting, such as:
  - Overcharged air-conditioning Freon
  - Blocked airflow caused by a restriction in front of the radiator
  - Poor or loose electrical connection
  - Faulty thermal or air temperature switch, solenoid valve or engine control module (ECM)
  - Improper temperature control or ECM setting

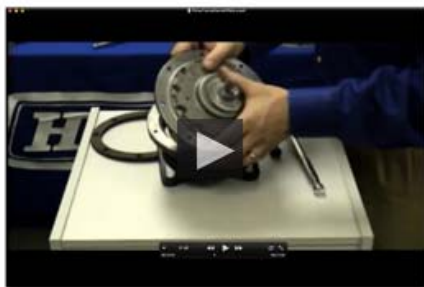
[>> Remedies and Repairs – Read More](#)

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## **TECH TIPS** **PolarForce® Two-Speed Conversion Kit Video**

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## **Save 40 Percent** **The Right Tool for the Right Job**

The FMFD removal tool is the right tool for the right job. It is compatible with Horton's DriveMaster® and DM Advantage® On/Off and Two-Speed Fan Drives. It makes regular seal and liner maintenance more efficient. The FMFD removal tool can also be used when retrofitting a fan drive with the DM Advantage Super or PolarForce® Two-Speed Conversion Kits. It is compatible with all Horton high-torque, spring-engaged fan clutches including both 2.56 inch(65.02 mm) and 5 inch (127 mm) pilot designs.



To assist our customers with maintenance and fan drive conversions, Horton has reduced the price of the FMFD removal tool by 40 percent.\*

*\*Limited time offer. Ask your Horton representative for details.*

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