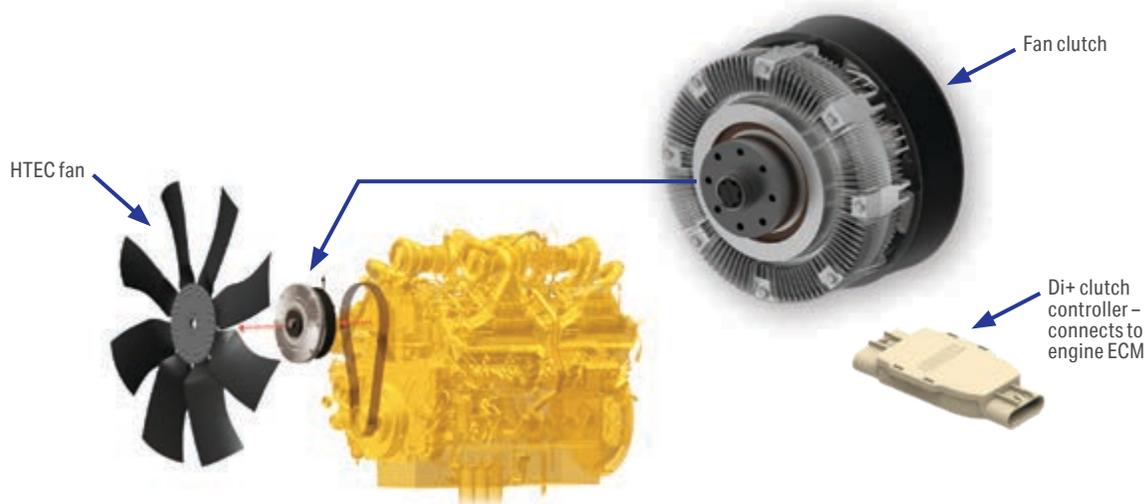


## Horton Fan Clutch



## Promote engine efficiency and reduce maintenance requirements

Help promote engine efficiency with the Horton Fan Clutch, a viscous fan clutch exclusively supplied through Komatsu distribution channels for use on Komatsu trucks.

The variable-speed fan drive receives real-time data directly from the engine's control module (ECM) and adjusts the fan speed to only what is needed, enabling precise control and optimal operating temperatures.

Precise fan speed control is achieved through a closed-loop viscous design, which means that the rotation is moved by fluid rather than mechanical interaction, minimizing wear components and providing for infinitely variable speeds.

Completely sealed and air cooled to eliminate the need for additional hoses or oil, this drive can also help reduce contamination caused by engine oil leaks. The fan is composed of a special thermoset composite material — the highest strength-to-weight ratio among all materials currently used in fans.

### Help lower your total cost of ownership with:

- Reduced maintenance requirements
- Simple, clean design for straightforward installation
- Few components to replace with no solenoid valve or additional hoses

### Engineered for engine efficiency

- Variable-speed drive may help reduce fuel usage up to 4%\*
- Low fan speed minimizes parasitic loss in horsepower
- Proper engine temperature in ambient ranges

### Focus on sustainability and protection

- Closed system is completely sealed to help prevent engine oil leaks, or dust and debris ingress
- No hydraulic oil lines for cooling or operation helps reduce the risk of contaminating oil leaks
- Low fan speeds supports reduced operating noise

\* Fuel savings and other benefits are dependent upon mine profile and certain environmental factors, including (but not limited to) idle time, ambient temperature, altitude, coasting time, haul cycle, truck-limited vs. shovel-limited operations, average engine load factor (% time at full load), engine age and individual operator. Certain benefit results are based solely from bench-testing by Horton. Komatsu does not guarantee that you will see the same results.

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