



FAN CLUTCHES

Rockford® introduced its first on-highway Class 8 truck fan clutch over 25 years ago and has continued to apply and refine the technology for off-highway applications ever since. Today, our line of high-performance fan clutches continues to set the standard for reduction of fuel consumption and fan-generated noise, prolonged engine life, increased belt life and improved productivity.

Rockford's unique variable speed technology enables our fan clutches to respond to changes in the engine cooling demands by varying the fan speed. This is accomplished by using a stand-alone control system or through today's high-tech engines' ECMs. This allows the fan to slow down or speed up as necessary, utilizing less working horsepower from the engine and lowering fuel consumption.

Our patented fan clutch is offered in various sizes. Each fan clutch series number relates to its relative size within the product family. We currently offer fan clutches for engines from 400 to 4,000 horsepower which use cooling fans from 10 to 300 horsepower.

Benefits Include:

- › Increases fuel economy and usable horsepower
- › Reduces decibel rating for noise regulation
- › Reduces radiator sandblasting
- › Increases productivity
- › Permits programmed fan speed clipping at high engine speeds
- › Reduces fan blade erosion
- › Eliminates shock load on engine components
- › Reduces noise for enhanced operator comfort
- › Increases fan belt life
- › Speeds up engine warm-up in cold temperatures

TYPICAL SIZING DATA

Series	Description/Application	Cooling Fan	RPM
Series 5.25	The 5.25 Series is the original variable speed, air release Rockford fan clutch. This spring applied design continues to be an effective design suitable for on-highway and military applications.	10-50 Horsepower	1800-2600 RPM
Series 135	The Series 135 is a next generation on-highway variable speed Rockford fan clutch. This design offers the capability to interface with current or future electronic control technology. It offers the high speed and heat capacity necessary when using engines needing increased cooling capability.	10-90 Horsepower	1800-3000 RPM
Series 150	The Series 150 Rockford fan clutch is designed for lighter duty off-highway and industrial applications. This fan clutch is designed for significant efficiency gains and noise reduction where space limitations are critical.	10-40 Horsepower	900-2500 RPM
Series 170	The Series 170 Rockford fan clutch is designed for medium to lighter duty off-highway and industrial applications. This oil-actuated fan clutch enables vehicle efficiency gains and aids in noise reduction applications.	20-60 Horsepower	600-2100 RPM
Series 200	The Series 200 Rockford fan clutch is designed for medium duty off-highway applications and industrial applications. This fan clutch enables vehicle efficiency by minimizing parasitic load on the engine and reduced warm up time.	40-90 Horsepower	600-2100 RPM
Series 270	The Series 270 Rockford fan clutch is designed for heavy-duty off-highway applications. This fan clutch provides efficiency through on demand cooling in large applications. The effects of over cooling are reduced in cold weather applications.	80-150 Horsepower	900-1200 RPM
Series 370	The Series 370 Rockford fan clutch is designed for the largest applications. This is the newest addition to the Rockford product line. This fan clutch was developed to meet the cooling demands of the largest off-highway applications.	150-300 Horsepower	100-900 RPM

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GKN ROCKFORD, INC.

1200 Windsor Road
Loves Park
Illinois 61111
Tel.: +1 815-633-7460
Fax: +1 815-633-1311
www.rockfordpowertrain.com

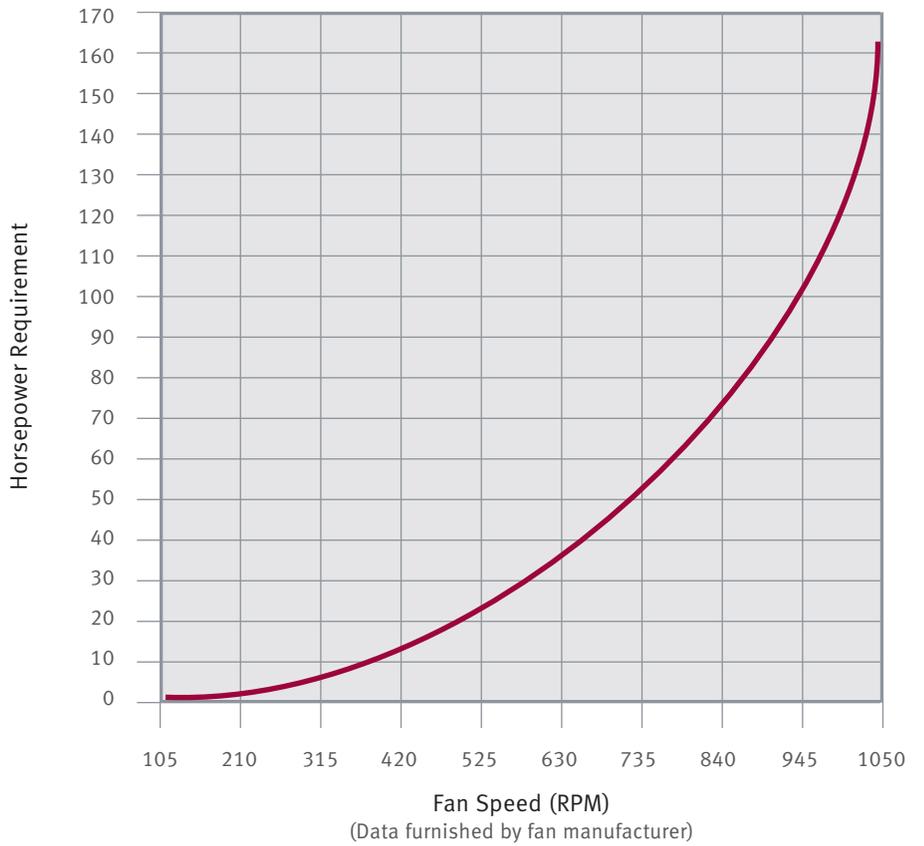
GKN WALTERSCHEID GMBH

Hauptstraße 150
D-53797 Lohmar
www.gkn-walterscheid.de
Tel.: +49 2246 12-0
Fax: +49 2246 12-3501
info@gkn-walterscheid.de

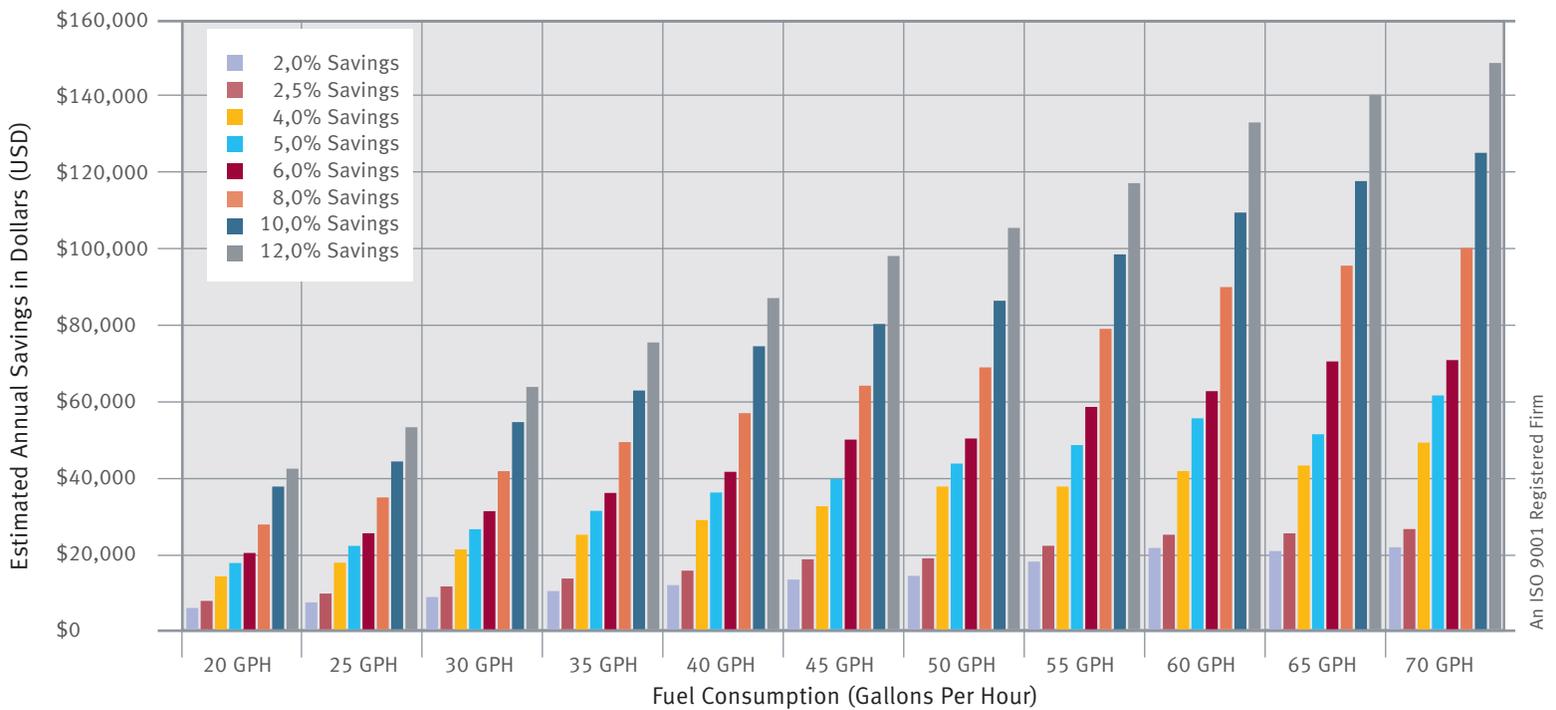
FAN BLADE RPM VS. HORSEPOWER

This graph, taken from actual test data, is intended to be used only for the expressed purpose of illustrating the rapid rise in fan horsepower requirements as related to fan speed. Actual fan horsepower requirements in any given application are dependent upon many variables not duplicated during the test, such as use of a shroud, shroud design and configuration, radiator proximity, etc.

Intended for illustrative purposes only.



TYPICAL FUEL COST SAVINGS BASED ON 6,000 HOURS/YEAR AT \$3.00/GALLON



Example:

An engine uses 40 GPH of fuel and the Rockford Fan Clutch gives an 8% fuel savings which yields 3.2 GPH fuel saved. (40 gal/hr * 8% = 3.2 gal/hr). If the cost of fuel is \$3.00/ gal then the saving per hour is \$9.6/hour. (3.2 gal/hr * 3)

Note

Reading the Chart shows the orange bar sits where 40 GPH & 8% intersect. The bar height reads at your dollar savings at 6000 hours of operation. This savings is \$57,600.