The Value of VG
Variable Geometry Turbos
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Holset Variable Geometry Turbochargers (Holset VGT™) work by maximizing the boost pressure over the widest possible field of engine operation. Other turbos offer a fixed amount of pressure that does not vary based on performance needs. Cummins owns 5 patents on the Holset VGT alone. This means a better performance for your turbo and your engine. What exactly does that mean for you? Just look at the benefits of the Holset VGT below:

**Benefits of VG Turbo**

**Increases Fuel Economy**
Reduces vehicle running cost

**Improves Engine Operating Range**
Maximizes the boost across engine running range and reduces gear shifts

**Enhances Compression Brake Capacity**
Improves engine braking and increases brake pad life

**Improves Durability and Reliability**
Drives down total cost of ownership

**Increases Control of Exhaust Gas Recirculation (EGR)**
Meets emission regulations & ensures proper air temperature cooling to decrease EGR and EGR failures

**Improves Throttle Response**
Allows quick spool up of turbo pressure
SHROUD PLATE
Precision machining allowing for seamless integration with nozzle ring

NOZZLE RING
Patented design allows for fluid movement with the shroud plate

IMPELLER
Designed specifically for your application to increase the longevity of your turbo

TURBINE HOUSING
Enhanced engineering specifications allows for optimal durability

ACTUATOR
Robust design enables optimal controlled air flow allowing for increased engine performance

COMPRESSOR HOUSING
The use of superior materials and testing allows the Holset housing to withstand the increased temperatures and pressures of an EGR engine