The Value of VG
Variable Geometry Turbos
The Value of VG

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