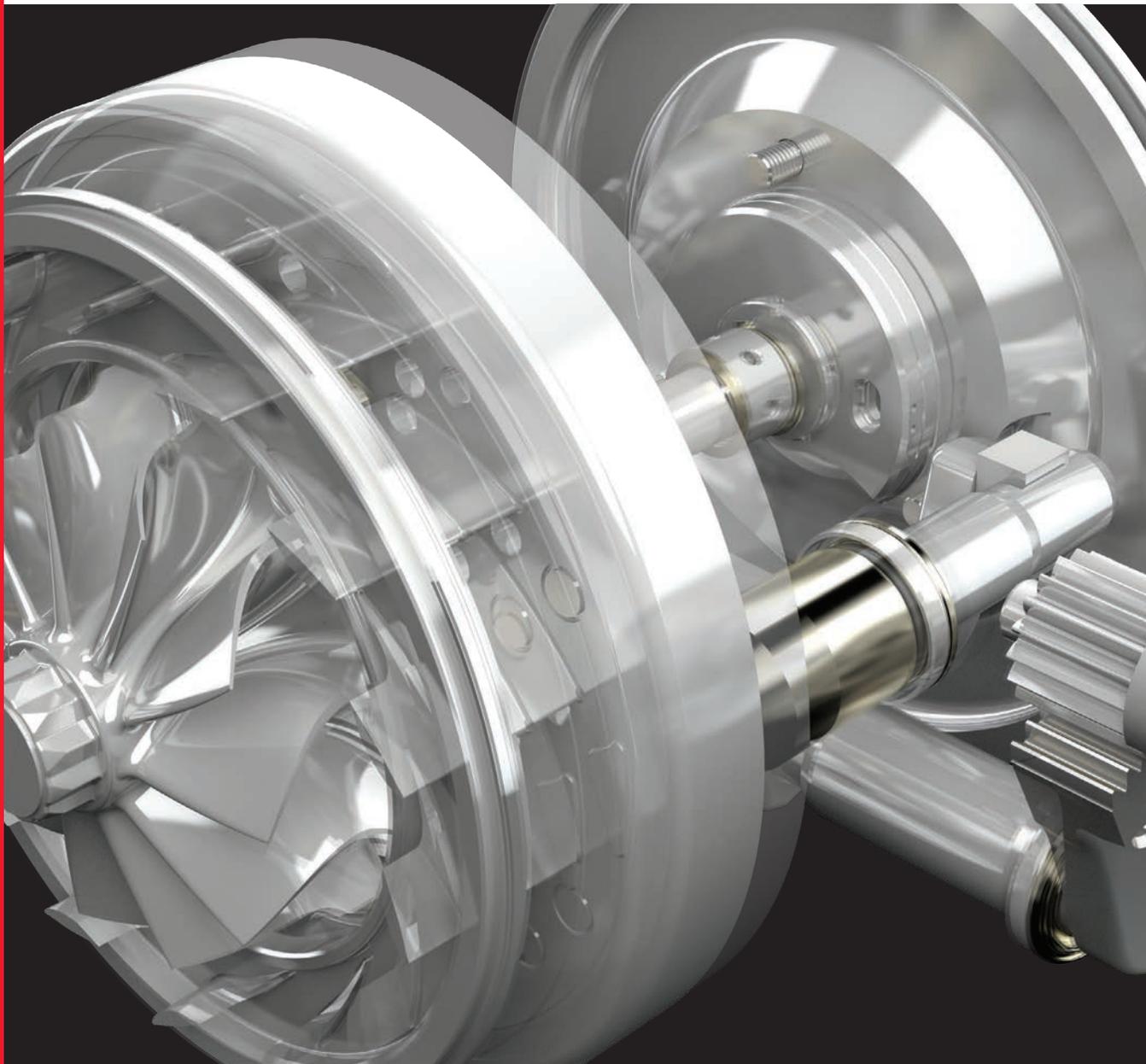




The Value of VG

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



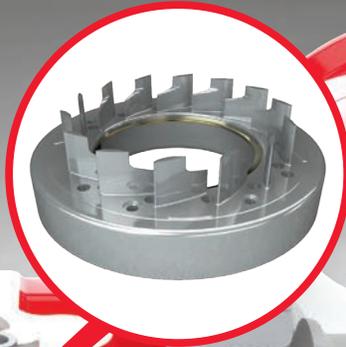
SHROUD PLATE

Precision machining allowing for seamless integration with nozzle ring



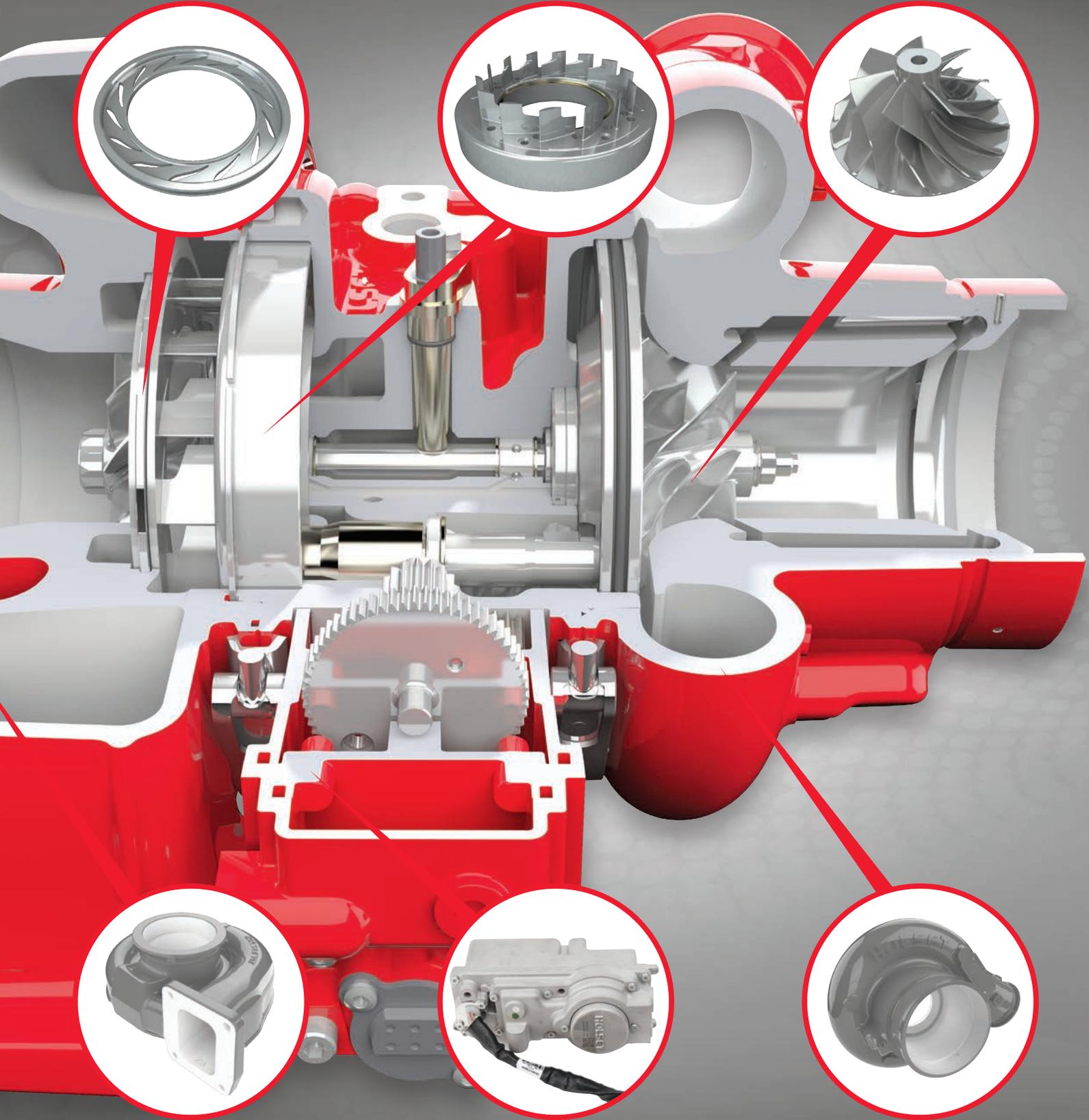
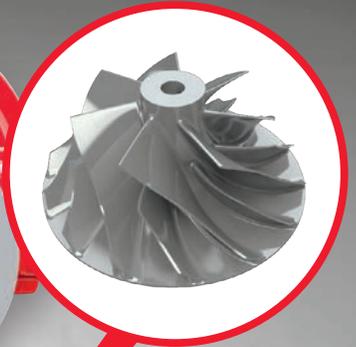
NOZZLE RING

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





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