

GEARS AND PARTS

Gearing and pumping your engine

GEARS AND SHAFTS

Classic V delivers strategic outsourcing solutions for critical powertrain components.

With Variable Valve Timing (VVT) playing a decisive role in internal combustion engine efficiency and emission control, the timing gears governing these systems demand micron-level precision and repeatability.



LUBRICATING OIL PUMP ASSEMBLIES

Classic V specializes in the outsourced manufacturing of both gear-type and rotor-type oil pumps for demanding automotive and industrial applications.

WATER PUMPS

Classic V delivers high-reliability water pump manufacturing engineered to match the complete service life of the engine. Produced in a dedicated, state-of-the-art facility, our cooling systems integrate premium graded cast iron (CI) housings, high-grade imported mechanical seals, and heavy-duty integral bearing shafts.



OIL FILTER ASSEMBLIES

Classic V specializes in the precision contract manufacturing of both spin-on and cartridge-type filter assemblies.

To eliminate surface leaks and ensure effortless cartridge replacement during servicing, our filter adaptors and mounting heads are precision-machined within micron-level tolerances across dedicated Special Purpose Machines (SPMs), CNC turning centers, and multi-axis machining centers.

HYDRAULIC PUMPS

Classic V delivers fully customized hydraulic pump manufacturing tailored to meet specific fluid power prerequisites. Engineered for precision and adaptability, our pump architectures can be tuned across key operating parameters—including output power, acoustic dampening, operational smoothness, and volumetric performance.

Classic V hydraulic pumps deliver duty-cycle reliability across demanding industrial sectors, including automotive, machine tools, earthmoving, construction, and agriculture.

Key Technical Specifications & Capabilities

- **Displacement Range:** 4 to 22 cm³/rev
- **Duty Rating:** Engineered for severe-duty and continuous-duty cycles
- **Continuous Operating Pressure:** Rated for continuous operation up to 220 bar
- **Drive Shaft Configurations:** Wide selection including splined, keyed, and tapered shafts
- **Porting Flexibility:** Configurable with threaded or flanged inlet and outlet ports
- **Acoustic & Dynamic Control:** Optimized gear/fluid dynamics for low noise and minimal vibration
- **Volumetric Efficiency:** Consistently high volumetric output across full thermal and load envelopes





CONNECTING RODS

Classic V deliver High-Precision CNC Connecting Rods

WATER SEPARATORS

At Classic V, we deliver heavy-duty fuel-water separator assemblies that eliminate one of the primary causes of diesel engine breakdown: moisture in the fuel supply.





CNC TURNED AND MACHINED COMPONENTS

Classic V provides end-to-end outsourcing solutions for high-precision machined components. Backed by advanced manufacturing infrastructure—including CNC turning centers, 4-axis Vertical Machining Centers (VMCs), and extensive secondary operation machinery—we deliver complex, tailor-made parts across diverse industries.

Quality assurance is integral to our delivery model. Every component undergoes rigorous dimensional verification using coordinate measuring machines (CMM) and high-accuracy contour measuring systems to guarantee exact tolerances and zero-defect compliance.