

9.0 LITER

GENERAC®

**INDUSTRIAL
POWER**

GENERAC 9.0L SPARK-IGNITED INDUSTRIAL ENGINE

GENERAC KNOWS ENGINES.

At Generac, we've been developing industrial-grade engines for over 20 years. Our new 9.0L spark-ignited V8 industrial engine is the latest result of that evolutionary process. The new 9.0L engine now serves as the heart of our 80 and 100 kW industrial power generation products and offers a host of improvements to increase durability, reliability and performance.

STELLITE® VALVE SEATS

Stellite is a high-chromium, cobalt-based steel that delivers superior protection against extreme temperatures, oxidation and corrosion.

Intake Seats

Stellite's high-wear resistance delivers an exceptional life for the intake seats in dry-fuel applications where reliability and dependability are paramount.

Exhaust Seats

Stellite protects against the corrosive, compromising effects of high-temperature exhaust gases on exhaust seats.

STAINLESS STEEL EXHAUST VALVES

Stainless steel exhaust valves provide durability and longevity in the high-temperatures. A 30° valve angle is used to minimize friction, resulting in reduced wear.

ROLLER LIFTER

The roller lifters wide-cam surface area stabilizes the valve train, minimizes the dynamic loads seen in industrial applications and allows higher valve spring pressures for maximum power and longevity.

CRANKSHAFT

One-piece, cast-iron crankshaft has an optimized stroke (4.25") for increased torque and power in demanding industrial applications. The high-performance, four-bolt main bearing caps add stability under extreme loads.

FORGED CONNECTING ROD

Designed specifically for heavy-duty use. During the forging process, grain structure is aligned on a molecular level that yields greater strength than a cast or machined part.

INTAKE VALVES

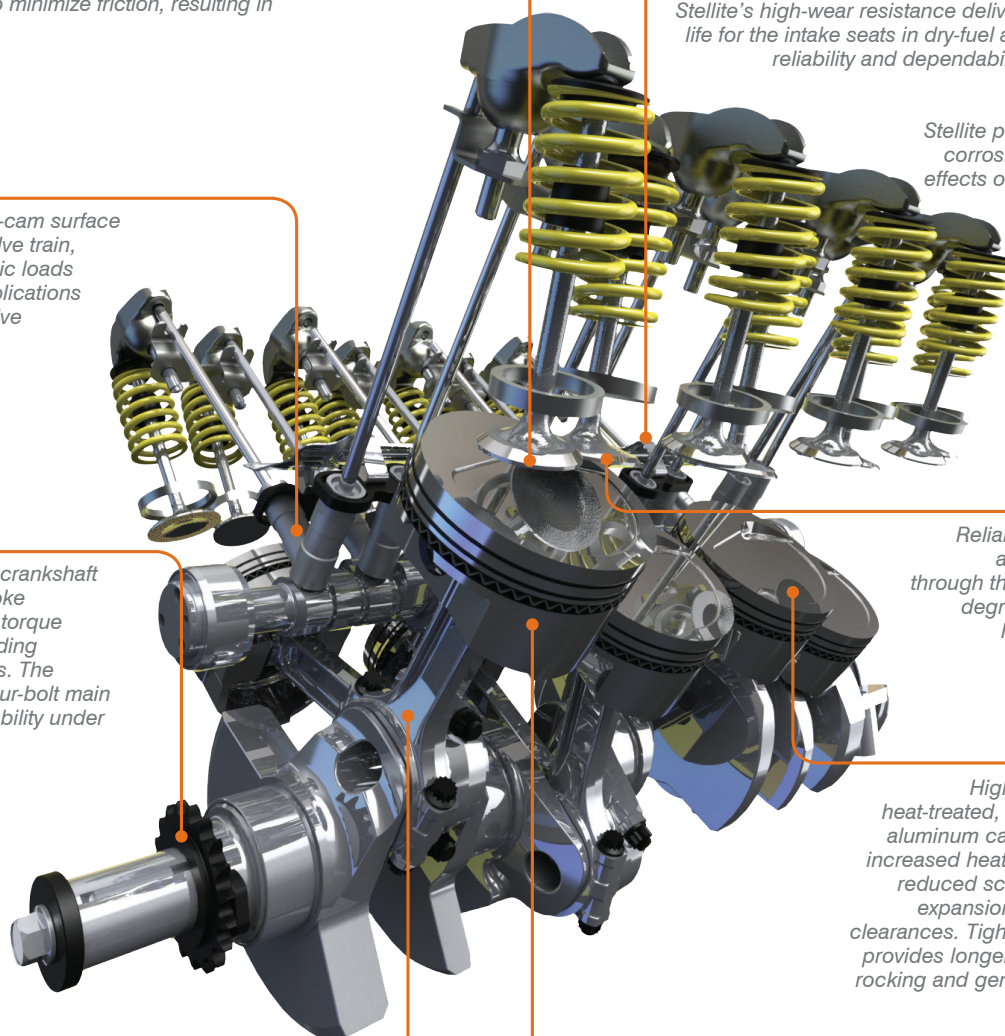
Reliability and durability are vastly improved through the ability to fight off degradation caused by high temperatures.

ALUMINUM PISTON

High-performance, T6 heat-treated, hypereutectic 390 aluminum cast pistons provide increased heat dissipation, while reduced scuffing and thermal expansion allows for tighter clearances. Tight piston clearance provides longer ring life, reduces rocking and generates less noise.

METRIC PISTON RING

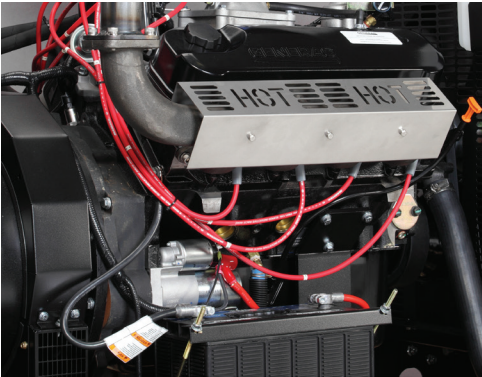
Our thin piston-ring pack maintains less surface area, holds a tighter seal and conforms to the cylinder wall which minimizes friction and creates a ring package with increased stability.



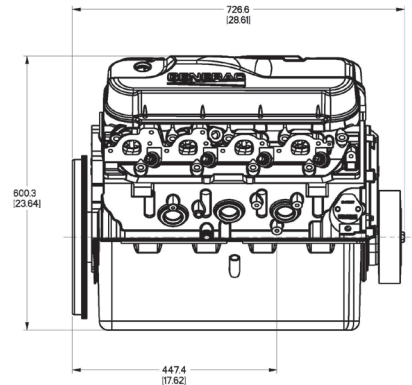
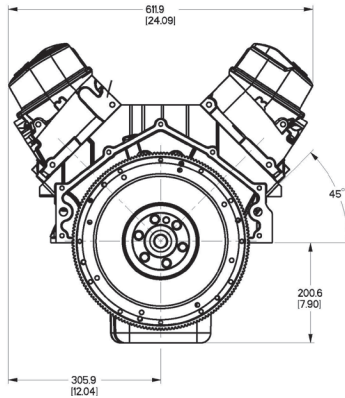
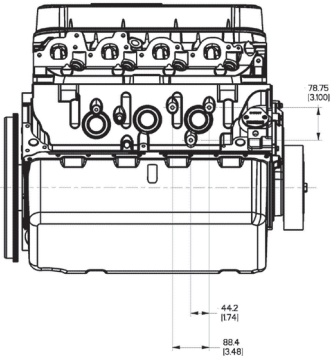
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FEATURES & BENEFITS

- Designed specifically as a genset engine for dry fuel, with hardened, 30° valve seats and alloy valves for long valve life
- Roller tappets for low friction and long camshaft life with fully adjustable valve lash
- Special lift and long-duration camshaft designed for high power output and fuel efficiency for 1800 RPM generator applications
- Skirt-coated, hypereutectic aluminum cast pistons with a metric ring-pack for long life, low friction and efficient fuel usage
- Cast crankshaft is precision-balanced for long bearing life
- High-capacity oil pan for lower temperatures and longer oil life
- Four-bolt bearing caps for increased strength and rigidity
- Die-cast valve and timing covers resist warping for superior sealing.



SPECIFICATIONS



Type	90° V8
Number of cylinders	8
Displacement	540 in ³
Displacement	8.9 L
Compression ratio LP/NG	10.5
Bore	4.5"
Stroke	4.25"
Intake air	Naturally aspirated
Valves per cylinder	2
Valve configuration	OHV
Value lifters	Roller hyd
Exhaust seat material	Hardened
Main bearing cap # of bolts	4

Block material	Cast iron
Cylinder head material	Cast iron
Crankshaft	Cast
Pistons	Aluminum alloy
Operating speed	1800 RPM
Piston speed @ 1800 RPM	1275 ft/min
Connecting rods	Forged
Intake manifold	Dual plane
Gaskets	Non-asbestos
Crankcase oil capacity	8.5 qts.
Fuel types	NG-Propane
Engine rotation	CCW-Flywhl
Horsepower @ 1800 RPM	149

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