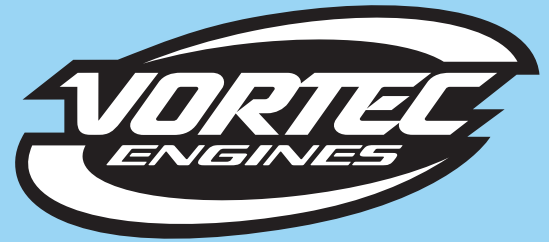




POWERTRAIN Industrial Engines



GM Powertrain takes its expertise in designing outstanding Vortec truck and SUV engines and leverages it to make sophisticated yet extremely durable industrial engines.

Applications

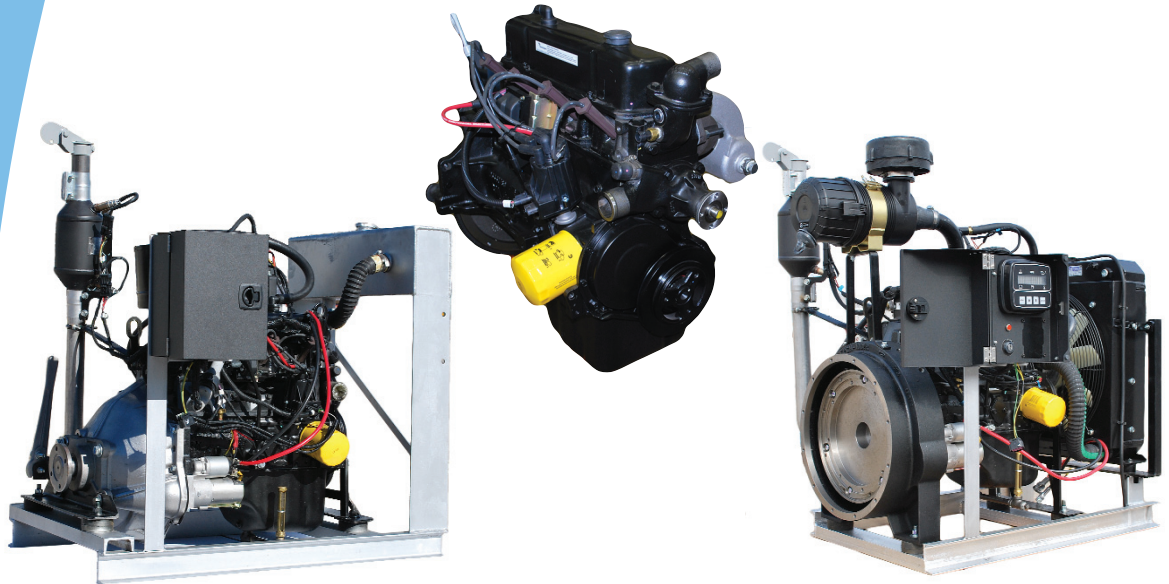
**Industrial, Agriculture
Construction & Oilfield**

- **Pumps** – Irrigation, Industrial, Hydraulic Sludge and Trash
- **Compressors** – Natural Gas and Air
- **Generators** – Prime Power, Standby and Co-Gen
- **Industrial Drives** – Forklifts, Manlifts, Street Sweepers, Wood Chippers, Chillers and Fans
- **Oil and Gas Production** – Gas Compressors, Pump Jacks, Vapor Recovery
- **Wind Machines**
- **Numerous Re-Power & Custom Applications**

Available Factory Installed Options

- Natural Gas and LPG Fuel Systems
- Ignition Systems
- Belt and Pulley Accessory Drives
- Starters and Alternators
- Spark Protected Ignition
- Exhaust Manifold Standard
- Mufflers
- SAE 3 Flywheel Housing and Direct Drives
- PTOs: Side Load and In-Line
- Instrument Panel w/ Gauges and Safety Shutdowns
- Electronic Governor
- Radiator and Heat Exchanger Cooling Systems
- Engine Mounting Frames and Enclosures
- Three Way Catalyst

Vortec™ 3.0L 4 Cylinder – 181 Cubic Inches



Features & Benefits

- EPA and California ARB emission certified
- Designed for propane and natural gas fuel
- Pistons have high silicon content for improved durability and noise reduction
- Integral harmonic balancer/crankshaft pulley for easier accessory drive dress
- Nodular iron crankshaft for increased strength and durability
- High Energy Ignition (HEI) distributor and coil are standard
- Composite front cover for noise reduction
- Sintered powder metal exhaust valve seat inserts for maximum durability
- World-class engine sealing system for superior leak protection
- State of the art coolant pump seal uses a combination of advanced materials to provide superb sealing action under extreme conditions
- Common GM Powertrain industrial engine rear face for easy housing installation



20 N. McCormick
Oklahoma City, OK 73127
405-601-1000

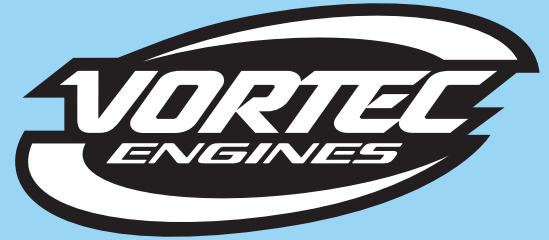
515 North I-27
Lubbock, TX 79403
806-762-0455

4452 Canyon Dr.
Amarillo, TX 79109
806-355-8228

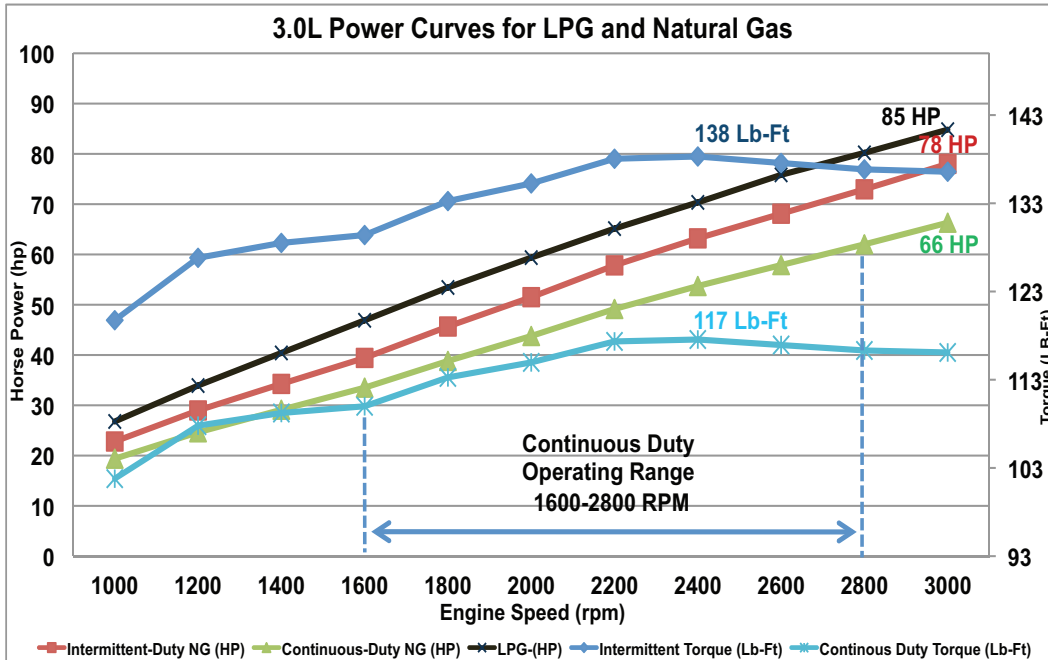
Buck's Engines combines over 50 years of engine application experience with General Motors' expertise in designing outstanding Vortec engines and utilizes this partnership to manufacture extremely durable industrial engines.



POWERTRAIN Industrial Engines



Vortec™ 3.0L 4 Cylinder – 181 Cubic Inches



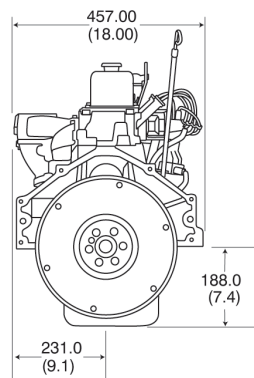
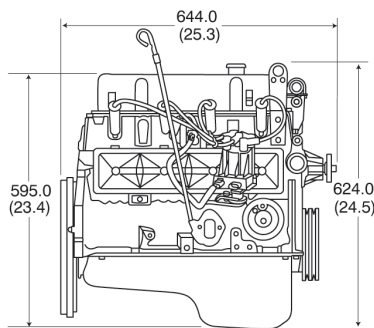
Power and torque values provided by Buck's Engines per SAE1349. Actual power levels may vary depending on fuel selection and quality, calibration, application, altitude and ambient air temperatures.

CONTINUOUS BRAKE HORSEPOWER

FOR HIGH PLAINS IRRIGATION APPLICATION

GEARHEAD	1x1	6x5	5x4	4x3	3x2
ENGINE RPM	1760	2112	2200	2346	2640
BHP	37	46	48	51	58

RATED @ 3200 FT ELEVATION WITH NATURAL GAS FUEL



Horsepower:

- 83 hp @ 3000 rpm (Gasoline)
- 75 hp @ 3000 rpm (Propane)
- 71 hp @ 3000 rpm (Natural Gas)

Torque:

- 163 lb-ft @ 1600 rpm (Gasoline)
- 147 lb-ft @ 1600 rpm (Propane)
- 139 lb-ft @ 1600 rpm (Natural Gas)

Specifications and Materials

- **Type:** 3.0L L4
- **Displacement:** 181 cld (2966.59 cc)
- **Compression Ratio:** 9.25:1
- **Valve Configuration:** Overhead /Pushrod Actuated
- **Valve Lifters:** Hydraulic Flat Tappet
- **Bore x Stroke:** 4.00 x 3.60 in (101.60 x 91.44 mm)
- **Main Bearing Caps:** 2-Bolt
- **Balance Method:** Internal
- **Intake Manifold:** Single Bore
- **Firing Order:** 1-3-4-2
- **Oil Pan Capacity:** 4 qt without oil filter
- **Fuel Type:** Gasoline, Propane or Natural Gas
- **Engine Rotation:** Clockwise (from the front)
- **Paint Protection:** Painted
- **Shipping Weight:** 363 lb (165 kg)
- **Block:** Cast Iron
- **Cylinder Head:** Cast Iron
- **Intake Manifold:** Cast Iron
- **Exhaust Manifold:** Cast Iron
- **Final Assembly:** Oklahoma City, OK USA

Manufactured with US, North American and Global Sourced Content

