

ROTATING RIGHT

## GM 3.0L VORTEC ENGINE

GM

### POWERTRAIN Industrial Engines

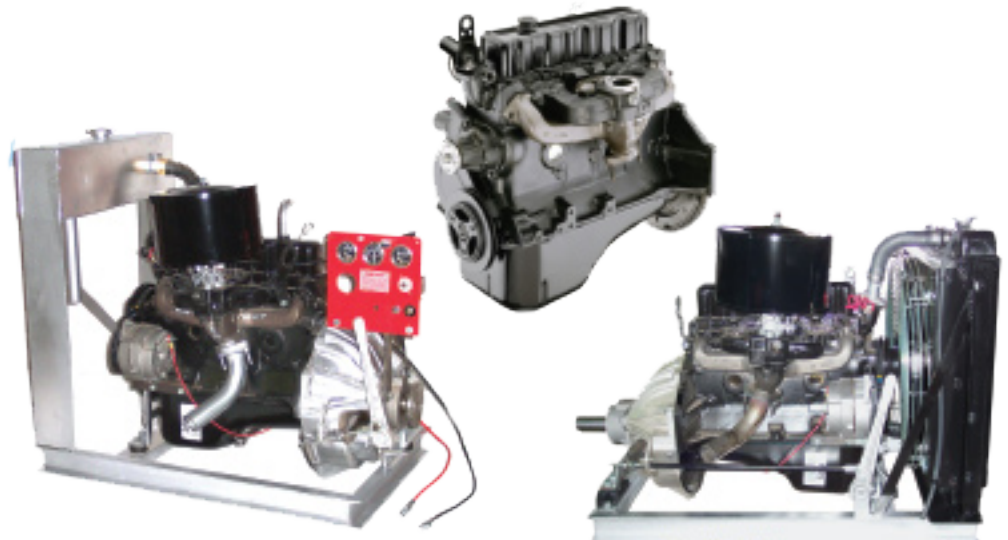


GM Powertrain takes its expertise in designing outstanding Vortec truck and SUV engines and leverages it to make sophisticated yet extremely durable industrial engines.

#### 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:

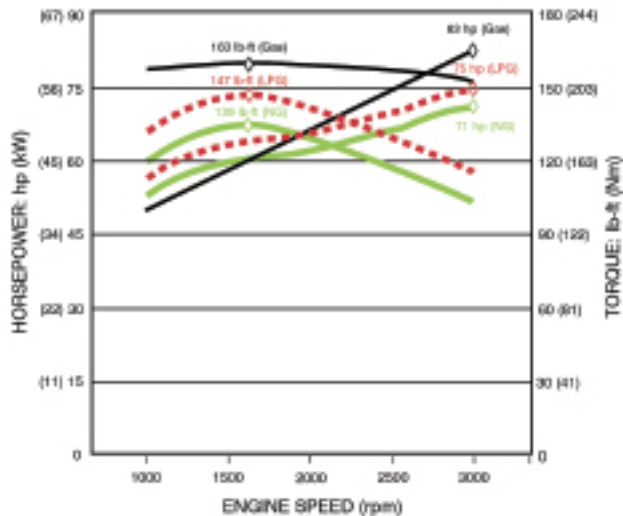
- Designed for gasoline, propane and natural gas fuel.
- Intake/exhaust manifolds are standard.
- Pistons have high silicon content for improved durability and noise reduction.
- Integral harmonic balancer/crankshaft pulley for easier accessory drive dress.
- Nodular iron crankshaft for increased strength and durability.
- High Energy Ignition (HEI) distributor and coil are standard.
- Sintered powder metal exhaust valve seat inserts for enhanced 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.



# POWERTRAIN Industrial Engines



## Vortec™ 3.0L 4 Cylinder – 181 Cubic Inches



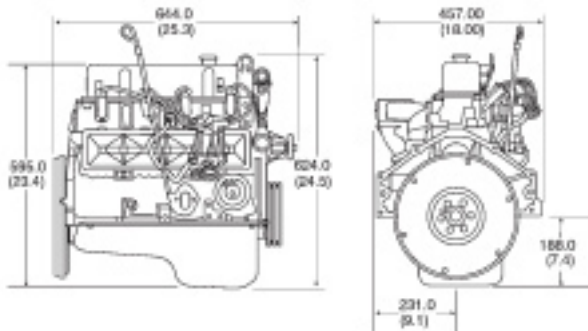
Power and torque figures provided by GM Powertrain per SAE J1995. Actual power levels may vary depending on fuel selection and quality, calibration, application, altitude and ambient air temperatures.

### CONTINUOUS BRAKE HORSEPOWER

FOR HIGH PLAINS IRRIGATION APPLICATION

GEARHEAD	1x1	6x5	5x4	4x3	3x2
ENGINE RPM	1760	2112	2200	2346	2640
BHP	32	38	40	42	48

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:

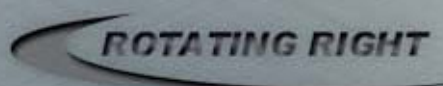
- 163 lb-ft @ 1600 rpm (Gasoline)
- 147 lb-ft @ 1600 rpm (Propane)
- 139 lb-ft @ 1600 rpm (Natural Gas)

### 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: Lubbock, TX USA

Manufactured with US, North American and Global Sourced Content

Information may vary by model and application. All specifications, options and product availability based upon the latest information available at time of publication. To ensure our customers have access to the highest quality products available we reserve the right to make product improvements and changes anytime without prior notice and Vortec™ trademarks are property of General Motors Corporation. ©2005 1/05



**Head Office:**  
6120 Davies Road  
Edmonton, AB  
T6E 4M9

Phone: (780) 485-2010 • Toll Free: (866) 707-7867  
Fax: (780) 485-1938  
• Calgary • Drayton Valley • Lethbridge  
[www.rotatingright.com](http://www.rotatingright.com)