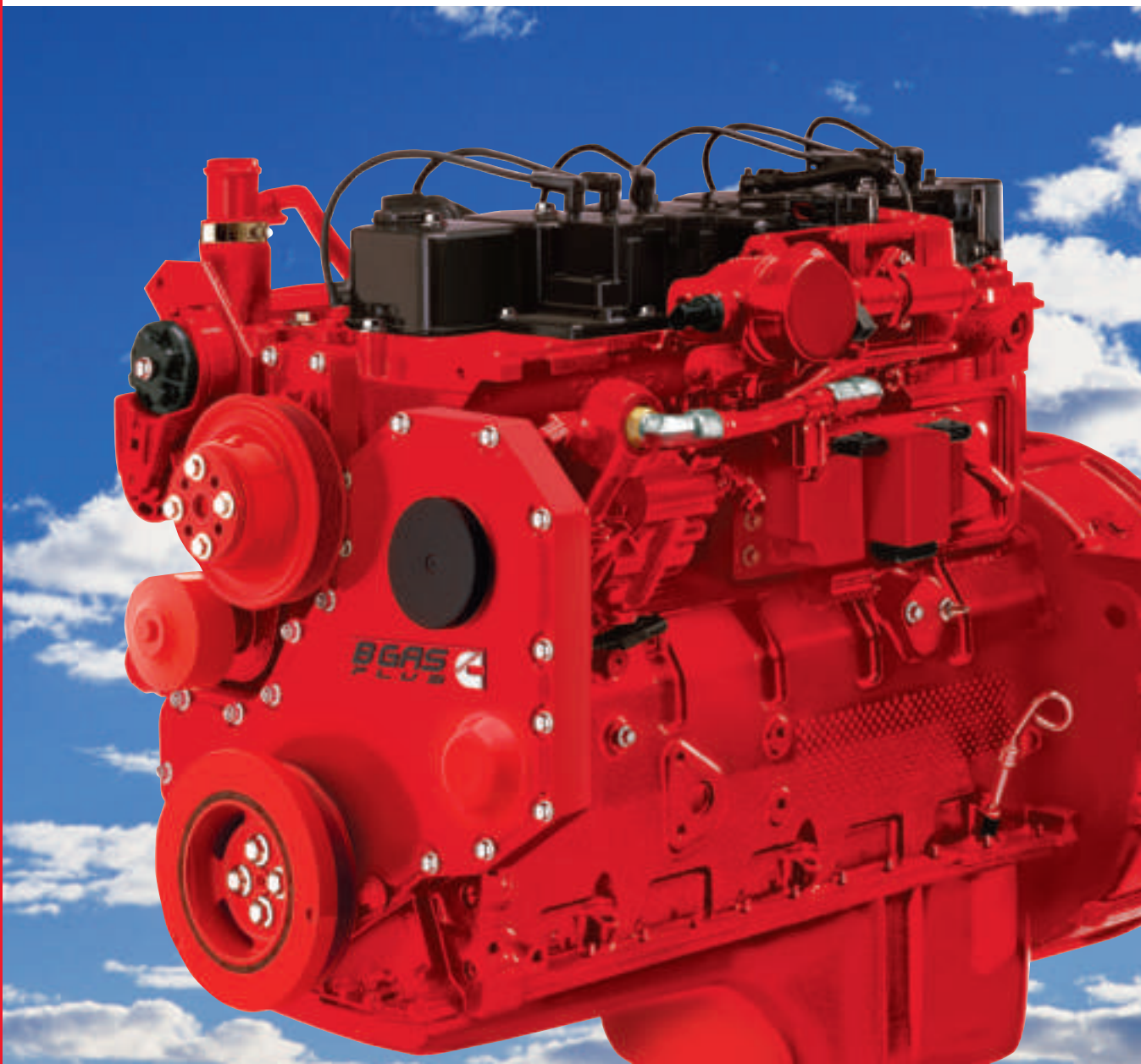




Every™ Alternative. B Gas Plus.

Natural Gas Engines For Truck And Bus.



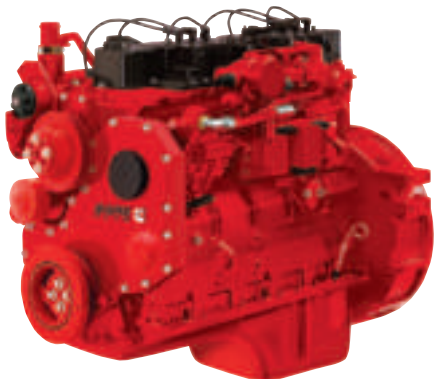
A Clean And Powerful Alternative.

B GAS PLUS

The Cummins Westport B Gas Plus is a 5.9-liter six-cylinder natural gas engine that builds on the rugged, reliable design of Cummins diesel engines, particularly the venerable Cummins B Series – one of the most successful engine designs ever built. The B Gas Plus delivers robust, dependable power from 195 to 230 hp (145-172 kW) with ultra-low emissions and proven reliability. It features drive-by-wire and enhanced controls, plus full-authority electronics that include a programmable Electronic Control Module (ECM) that sets engine operating parameters and provides for road speed governing, engine protection and complete self-diagnostics. The B Gas Plus is known for excellent torque, high fuel efficiency, quiet operation and uncompromising performance.

This reliable performer is ideal for shuttles, buses, local pickup and delivery trucks, step vans, yard spotters, street sweepers and other medium-duty applications. Worldwide, more than 7,000 engines are in service.

The B Gas Plus is designed for either compressed (CNG) or liquefied (LNG) natural gas fuels, and is compatible with 100% biomethane, offering customers a greenhouse gas-neutral option.



Specifications.

The B Gas Plus combines these performance advantages with ultra-low emissions certified with a catalyst to Euro V/EEV standards.

It features lean-burn spark-ignited combustion. Curves shown represent gross engine performance capabilities obtained and corrected in accordance with Cummins standards. Standard conditions are: 29.36 in. Hg (99.14 kPa) barometric pressure (500 ft [152 m] altitude, 77°F [25°C] inlet air temperature). Actual performance may vary with different ambient conditions.

B Gas Ratings

ENGINE MODEL	ADVERTISED HP(KW) @ RPM	PEAK TORQUE LB-FT (N•M) @ RPM	GOVERNED SPEED
BG-230	230 (172) @ 2800	500 (678) @ 1600	2800 RPM
BG-200	200 (149) @ 2800	465 (630) @ 1600	2800 RPM
BG-195	195 (145) @ 2800	420 (569) @ 1600	2800 RPM

B Gas Specifications

Maximum Horsepower	195-230 HP	145-172 kW
Peak Torque	420-500 LB-FT	569-678 N•M
Governed Speed	2800 RPM	
Clutch Engagement Torque	285 LB-FT	386 N•M
Number of Cylinders	6	
Bore and Stroke	4.02 x 4.72 IN	102 x 120 MM
Engine Displacement	359 CU IN	5.9 LITERS
Compression Ratio	10.5:1	
Operating Cycles	4	
Oil System Capacity	4.0 U.S. GALLONS	15.0 LITERS
Coolant Capacity	10.5 U.S. QUARTS	9.9 LITERS
Length	40.0 IN	1016 MM
Width	31.9 IN	809 MM
Height	33.7 IN	856 MM
Net Weight (Dry)	1,018 LB	462 KG
Emissions Certification	EURO V/EEV	
Fuel Type	CNG/LNG	Methane Number 65 or Greater

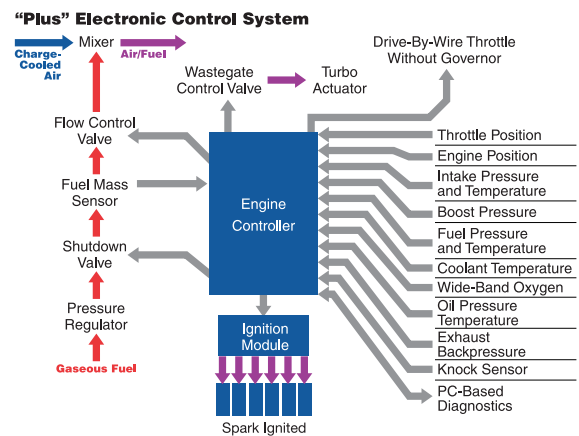
Features And Benefits.

- Air/Fuel Regulation – Cummins closed-loop electronic control system is based on Cummins CM556 ECM, which sets engine operating parameters and maintains efficient operation using sensors to monitor and control various engine parameters, exhaust backpressure, intake manifold temperature, fuel inlet pressure, knock detection, air-fuel ratio and fuel mass flow.
- Air Intake System – Charge air cooling is utilized to reduce emissions by lowering intake manifold air pressures.
- Accessory Belt Drive System – Self-tensioning serpentine polyvee belt accessory drive system for water pump, engine-mounted fan hub and most alternators. Gear-driven air compressor with provision for gear-driven hydraulic pump.
- Catalyst – Required for all models. Maintenance-free.
- Control System/Electronics – Features full drive-by-wire, enhanced controls and full-authority electronics. The ECM monitors engine sensors, controls fuel and ignition systems, sets engine parameters and provides state-of-the-art data links, and has the ability to interface with Cummins INSITE™ and QuickCheck diagnostic service tools for fast troubleshooting.
- Crankshaft – Induction-hardened forged-steel crankshaft provides maximum strength and multiple regrind capability for long-term cost savings. Crankshaft is supported by seven main bearings for optimum durability.
- Cylinder Block – Full-skirted block increases rigidity and strength. The design provides superior durability, as well as superior piston ring and bearing life.
- Pistons – For extended piston and ring life, a Ni-Resist insert is cast into the aluminum piston and carries the top piston ring.
- Turbocharger – Holset turbocharger with watercooled bearing housing and electronically controlled wastegate provides improved response and performance without sacrificing durability.

- Fuel Options – In addition to CNG and LNG, the B Gas Plus can also operate on biomethane. Biomethane is renewable natural gas made from biogas or landfill gas that has been upgraded to pipeline and vehicle fuel quality. It is carbon dioxide (CO₂)-neutral, and Cummins Westport approves the use of up to 100% biomethane that meets Cummins published natural gas fuel specifications.

Proven “Plus” Technology Maximizes The Equation.

Building on the rugged design of Cummins diesel engines and the “Plus” technology of Cummins Westport, the B Gas Plus features a highly efficient ECM to control its fuel system, engine sensors and high-energy ignition system. It features state-of-the-art data links and has the ability to interface with Cummins INSITE and QuickCheck diagnostic service tools for fast troubleshooting. Additional “Plus” technology benefits include full drive-by-wire, programmable engine parameters, multispeed PTO, cruise control, road speed governing, idle speed control and shutdown, accelerator interlock, engine protection system and more. Life-to-rebuild and rebuildability are the same as for a diesel engine.



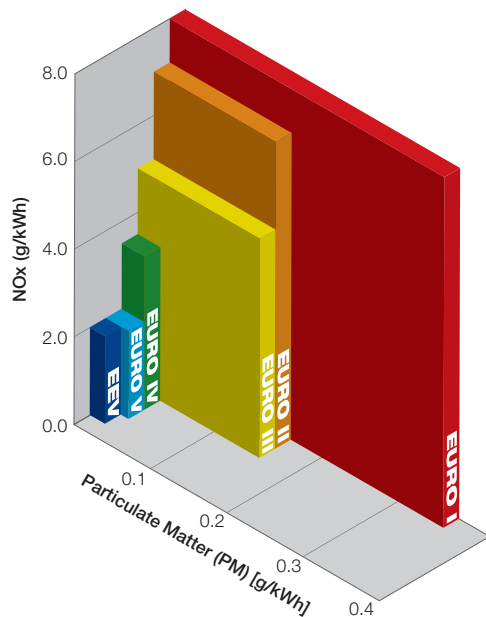
Cummins Westport – Meeting Every Demand For Power.

Cummins Westport is the industry leader in producing high-quality, economical natural gas engines to meet the global demand for clean power. City fleets worldwide put Cummins Westport B Gas Plus natural gas engines to work – every day.

Warranty – Every Coverage.

Cummins Westport B Gas Plus truck, urban transit bus, and shuttle engines come with a standard base warranty with full parts and labor on all warrantable failures.* See your local Cummins distributor or Cummins Westport representative for additional warranty information.

European Emissions Standards



A More Cost-Efficient Way To Meet Every Emissions Challenge.

To meet the new emissions standards set by regulatory bodies targeting NOx, HC and Particulate Matter (PM) emissions, diesel engine manufacturers will apply advanced technologies, which can increase capital and reduce operating costs. The technology for natural gas is much simpler. All Cummins Westport natural gas engines meet regulated emissions standards with passive maintenance-free aftertreatment.



Customer Support. Every Place You Need It.

The total solution Cummins Westport has created combines fuel availability, government programs and funding, plus additional resources to make natural gas power a viable alternative. Local service, as well as parts availability for Cummins Westport products, is available at any authorized Cummins facility.

Cummins global network includes 600 company-owned and independent distributor facilities with more than 6,000 dealer locations in 190 countries and territories. Cummins distributors provide maintenance schedules, warranty information and product training support worldwide. On every continent.

Contact The Customer Assistance Center.

Cummins specialists provide technical assistance, service locator and product literature 24 hours/day, 365 days/year.

Europe: (44) 1327 886464

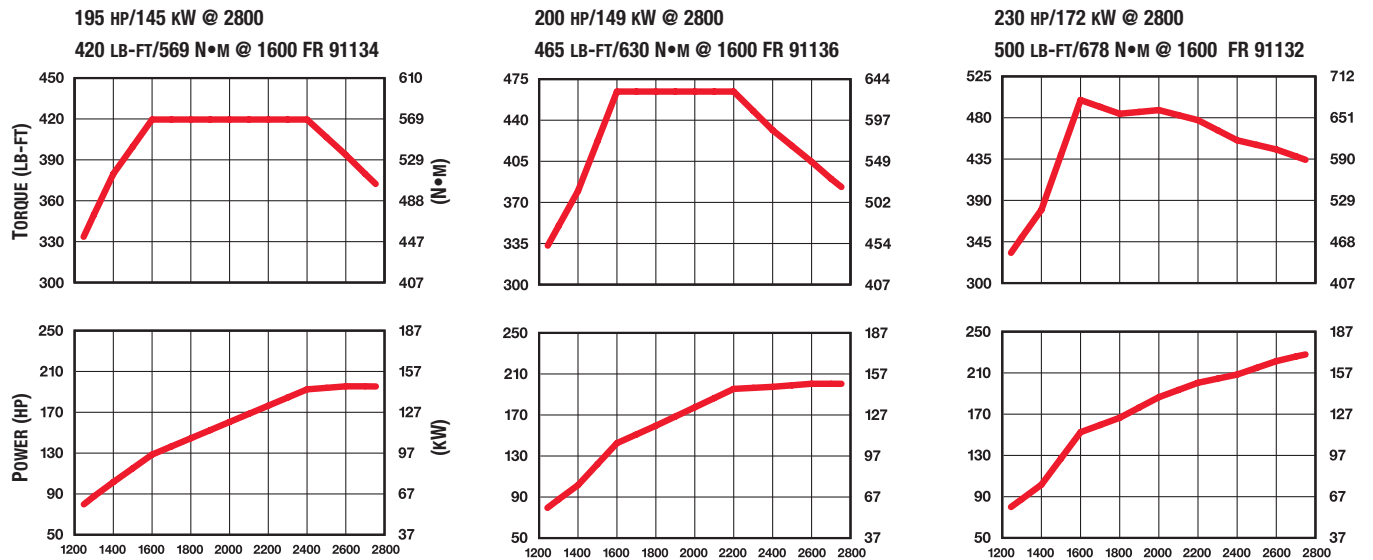
Australia/New Zealand: 1-800-351-004

Asia: 1-800-810-5252



*Warrantable failures are those due to defects in materials or workmanship.

B Gas Plus Torque And Power Curves.



B Gas Plus Maintenance Intervals

Maintenance Item	Miles/Kilometers	Hours	Months
Oil and Filter	6,000 MI 10,000 KM	250	3
Fuel Filter	24,000 MI 38,000 KM	1,000	12
Spark Plugs	24,000 MI 38,000 KM	1,000	12
200 HP AND GREATER	38,000 KM		
195 HP AND LOWER	36,000 MI 57,500 KM	1,500	18
Change Coolant	48,000 MI 77,000 KM	2,000	24
Valve Adjustment	24,000 MI 38,000 KM	1,000	12

Cummins Westport is a pioneer in product improvement. Thus, specifications may change without notice. Illustrations may include optional equipment.



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