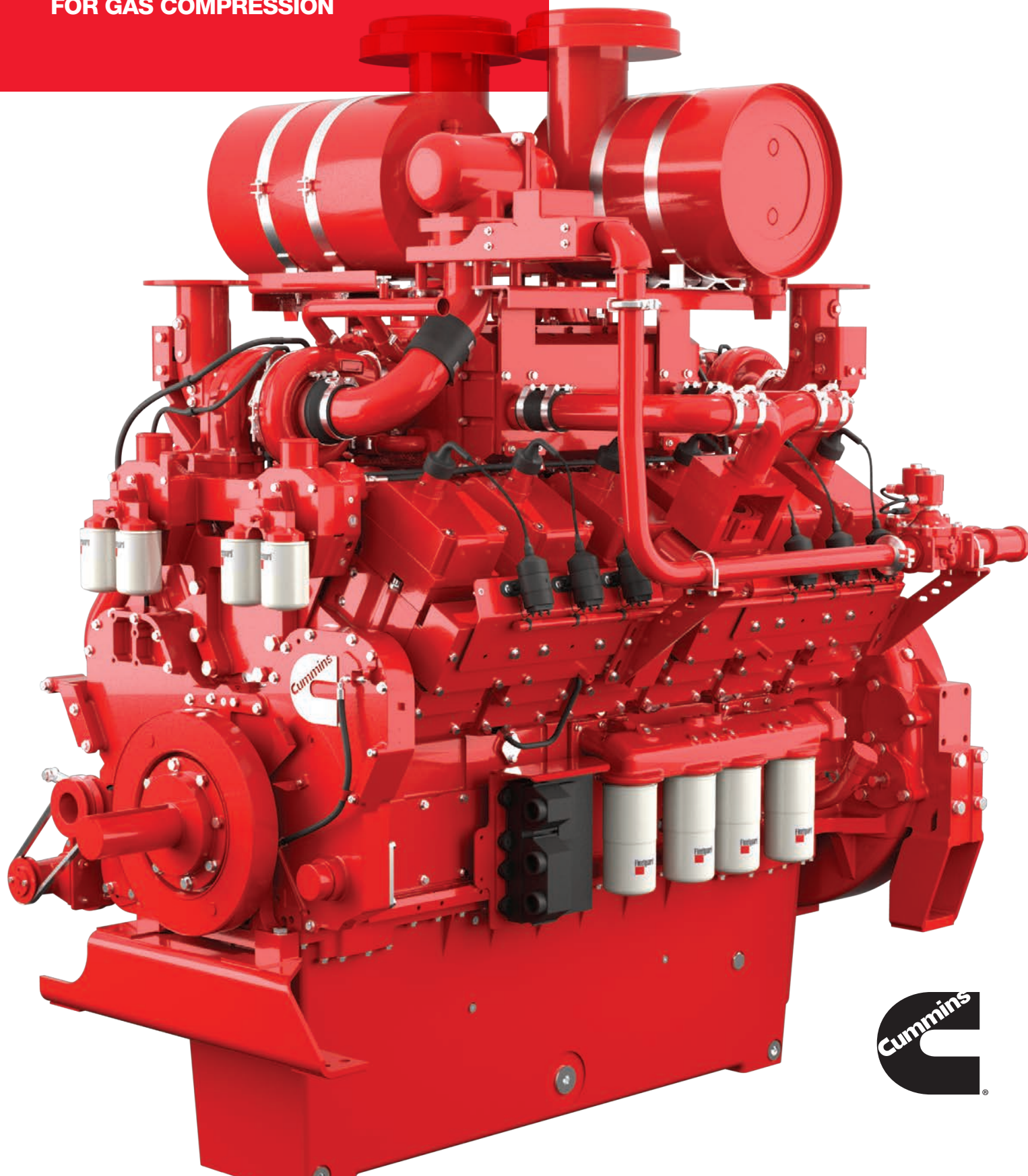


GTA38GCE

NATURAL GAS ENGINES
FOR GAS COMPRESSION



GTA38GCE

The GTA38GCE builds from the success of the KTA19GCE, offering greater power and performance than ever before with all major components designed by Cummins to optimize performance. The block, crank, cam, lube, water pumps and gears are common with the Cummins K38 diesel, with over 20 years of dependable service. The GTA38GCE uses a Holset® Turbocharger, designed and manufactured by Cummins specifically for the engine, optimizing performance and reliability.

WORLD-CLASS FEATURES AND BENEFITS

Engine controls – Factory integration of the Murphy Engine Integrated Control System (EICS™) unites the functionality of the ignition, air/fuel ratio controller and speed governor into a single engine control module.

Base engine – Cylinder heads are designed for optimal intake air/exhaust flow. Pyromet® exhaust valve faces and Stellite® exhaust valve seat inserts, along with Tribaloy® T400 intake valve faces and valve seat inserts, add durability. The GTA38GCE comes with a 1-year/unlimited-hours warranty.

Flywheel and flywheel housing – SAE 00, cast iron, including provisions for one 5/8-18 and two 3/4-16 magnetic pickups, machined to accommodate starter mounting on either side of the housing.

Power take-off (PTO) – Multiple front stub shaft options are offered for driving the compressor cooler fan.

Air handling – Turbocharger design delivers maximum performance and life. It includes two factory-installed heavy-duty air cleaners.

Starting system – The standard system features two robust Delco Remy® 39MT 24-volt starters with SAE #3 mounting flanges. An air/gas starter is optional.

Electrical system – Includes a 24-volt alternator.

Lubrication system – The deep, full-length, high-capacity oil pan allows for extended drain intervals. Combo full-flow and bypass oil filters reduce maintenance costs while extending service intervals.

Cooling system – A two-pump, two-loop cooling system effectively separates the aftercooler and jacket water coolant circuits to maintain lower intake manifold temperatures and provide capability for higher power ratings. Integrated coolant filters add corrosion protection for the jacket water circuit.

Exhaust system – The water-cooled manifolds reduce surface and exhaust gas temperatures.

Ignition system – EICS capacitive discharge ignition with smart-coil technology provides reliable spark and individual cylinder diagnostics and knock sensing capabilities.

Air/fuel control – Dual direct-acting electronic pressure regulator assemblies (two per bank) controlled by engine specific calibration provides reliable emissions control.

Speed control – Two integrated electronic governors provide stable RPM control with optional input to monitor and control suction or discharge pressure.

Emissions system – Optional, customer supplied, three-way catalyst (TWC) emissions package meets federal and local emissions requirements.

GTA38GCE SPECIFICATIONS. V-BLOCK, 4-CYCLE, NATURAL GAS

Number of Cylinders	12		Coolant Capacity	35.5 U.S. gal	134 L
Displacement	2,300 cu in	37.7 L	Length	90 in	2,286 mm
Bore and Stroke	6.25 in x 6.25 in	159 mm x 159 mm	Width	65 in	1,651 mm
Aspiration	Turbocharged and aftercooled		Height	99 in	2,515 mm
Oil Pan Capacity	70 U.S. gal	265 L	Weight (Dry)	10,176 lb	4,616 kg

RATING GROSS HORSEPOWER (WITHOUT FAN)

Engine Model	Continuous Rating hp @ rpm	
	C/R (Note)	1800 (3)
GTA38GCE (1, 2)	8.5:1	760

(1) Catalyst rating.

(2) NSPS 2011 Compliant Capable – This engine is capable of meeting the SI NSPS regulations with customer supplied catalyst from the factory. However, the owner/operator is required to conduct site compliance testing and submit documentation per the EPA SI NSPS requirements.

(3) With constant torque turndown capability down to 1350 rpm.



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EVERY QUESTION. ANSWERED.

Your Cummins distributor can provide you with additional details, answer questions and make recommendations for the best configuration of a Cummins GTA38GCE engine for your gas compression needs. See cummins.com to locate the distributor nearest you.

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