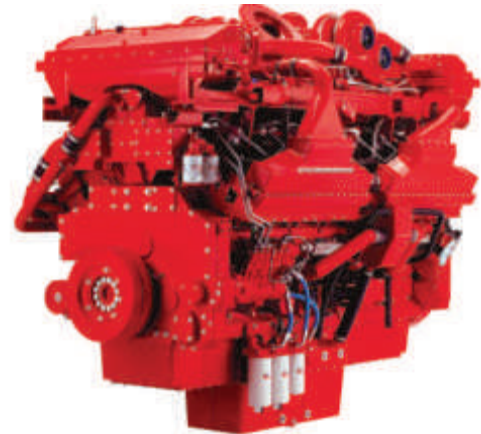


QSK60

Well-Servicing Applications



In demanding oil and gas applications, dependability is everything. That's where the superior uptime and productivity of the QSK60 make the difference. Dependability makes the QSK60 the right engine choice. Every time. Its V-16 configuration offers up to 3000 hp (2237 kW) to easily handle high load factors.

A sophisticated electronic control system and extended maintenance features help keep fuel economy up and operating costs down. So whether you are spec'ing new equipment or repowering an existing unit, the QSK60 is the best way to improve performance, productivity and profits.

General Specifications V-16, 4-Cycle Diesel Engine

<u>Bore</u>	6.26 in	159 mm
<u>Stroke</u>	7.48 in	190 mm
<u>Displacement</u>	60 L	3662 cu in
<u>Engine Power*</u>	1782-3000 hp	1329-2237 kW
<u>Aspiration</u>	Aftercooled/intercooled turbochargers	
<u>Dry Weight**</u>	16,865 lb	7,650 kg
<u>Coolant Capacity</u>	180 U.S. qt	170 L
<u>Lube Oil Capacity</u>	276 U.S. qt	261 L
<u>Rotation</u>	Clockwise (viewed from the front of the engine)	

*Rating-dependent.

** Weight is approximate and varies with options.

Features.

Designed for the well-servicing market, the QSK60 delivers exceptional reliability and low cost of operation.

One-Piece Cast-Iron Block – Robust design with wide cylinder spacing gives long life and service capability for multiple full-life engine overhauls.

Power Cylinder Package – Proven single-piece Ferrous Cast Ductile (FCD) iron pistons provide maximum durability and reliability. An advanced piston design uses nitrided liners and cast-iron top rings to handle high injection pressures with exceptional durability. Revised combustion bowl geometry developed with computer modeling allows Tier 2 emissions levels to be achieved in-cylinder. A durable seven-bolt crossflow cylinder head supports increased power output with improved breathing for higher fuel efficiency.

Long-Life Camshaft – This large-diameter camshaft with micro-finished hardened surface handles high loads, making it more reusable at rebuild.

Fuel System – The Cummins Modular Common Rail (MCR) fuel system maintains high injection pressures regardless of the speed – for exceptional performance at every rpm.

Warranty – The best warranty in the business, which includes full coverage for unlimited hours during the first year, extending through 2 years or 2,000 cumulative hours (whichever comes first). The base warranty also includes 3-year/10,000-hour standard protection on major components.

Extended warranties are available as well. *The QSK60 meets Tier 2 standards in the U.S., effective since 2006, for engines over 750 hp (560 kW).

Rating Details.

Model	Advertised Power	Peak Torque
	bhp (kW)	lb-ft (N•m)
QSK60-3000	3000 (2237) @ 1900	8311 (11268) @ 1600

Standard Equipment.

Base Engine.

- “Robust block and crankshaft” says everything you need to know about durability and dependability.
- Ferrous Cast Ductile iron pistons and improved cylinder head and cams for tough applications.

Electronic Engine Management.

- Programmable features optimize engine performance to specific duty cycles and job requirements.
- Quantum system continuously monitors engine conditions and automatically adjusts for peak operation. Superior performance is driven by three new high-speed Electronic Control Modules (ECMs).
- Improved durable aluminum channel wiring harness allows for easy servicing.
- Ideal for many different tough applications that demand complete dependability and continuous uptime, such as drilling and pumping, well servicing and many others.

Advanced Engine Monitoring.

- Advanced Engine Monitoring (AEM) provides real-time monitoring of engine performance, cylinder by cylinder. This facilitates trend analysis and proactive maintenance during scheduled downtime.

Fuel System.

- Advanced Modular Common Rail (MCR) fuel injection system generates clean, quiet and efficient power*.
- Multiple injection events during each power stroke yield smoother, more consistent power at every rpm. MCR technology helps to reduce noise emissions by 80% at idle*.

Turbocharging.

- One-stage and two-stage turbocharging with intercooling and aftercooling are available for high-altitude applications.
- Turbochargers from Cummins Turbo Technologies feature titanium impellers for long-term reliability, while a high-capacity compressor provides higher airflows for maximum power and long life.

Cooling System.

- Two-pump, two-loop Low Temperature Aftercooling (LTA) system delivers intake manifold temperatures required for Tier 2 emissions levels.

Cummins Prelub System.

- Eliminates wear from cold-and-hot starts – increases life-to-overhaul.
- Integral- or remote-mounting options and rolling prelube option available.

Oil Filtration.

- Two-stage Cummins oil filters, also available as Fleetguard®, combine full-flow and bypass filtration to effectively remove harmful sludge and up to three times as many contaminants to reduce engine wear.

Worldwide Service Network.

- An established worldwide network with over 500 distributor facilities in nearly 190 countries, dedicated and empowered with the latest technical support tools and training to service your needs. Every hour, every day.

*Available in some QSK60 ratings.

Optional Equipment.

INSITE.™

- Proprietary software with step-by-step engine diagnostics, drawings and diagrams to improve troubleshooting and repair accuracy.

CENTINEL.™

- Advanced Engine Oil Management System that allows customers to extend oil change intervals up to 4,000 hours.
- Fully integrated design modulates burn rate based on load factor. Available with reserve tanks for continuous replenishment.

Fleetguard® ES Filtration.

- Keeps your equipment on the job up to 1,000 hours between filter changes if equipped with CENTINEL,(depending on load factors).
- Full-flow and bypass design simplifies service and reduces replacement costs.

Cummins QuickCheck III.

- QuickCheck III software, together with your handheld device, reads and captures engine data quickly and conveniently from any Cummins electronic diesel engine or other engines you run (via J2587 and J1939).
- Even logs fault codes, which can be used with Cummins INSITE to get detailed repair instructions for faster service.

QuickServe™ Online.

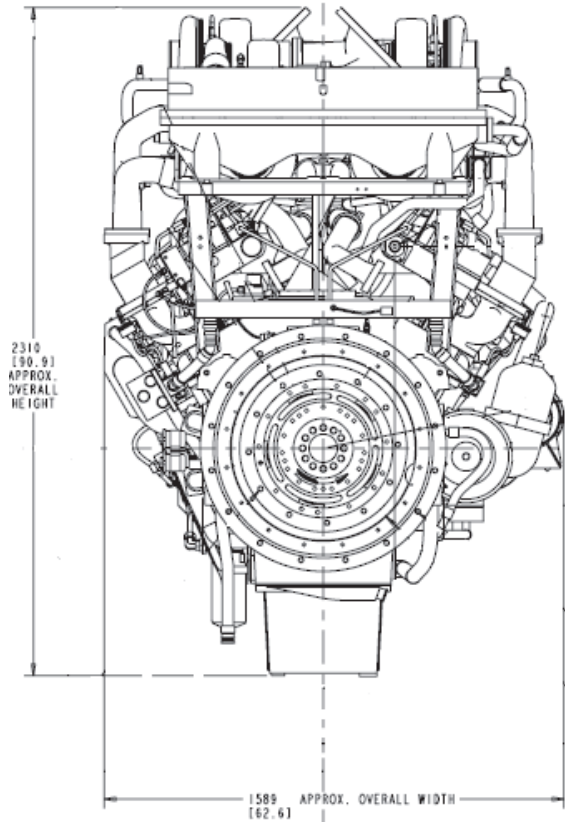
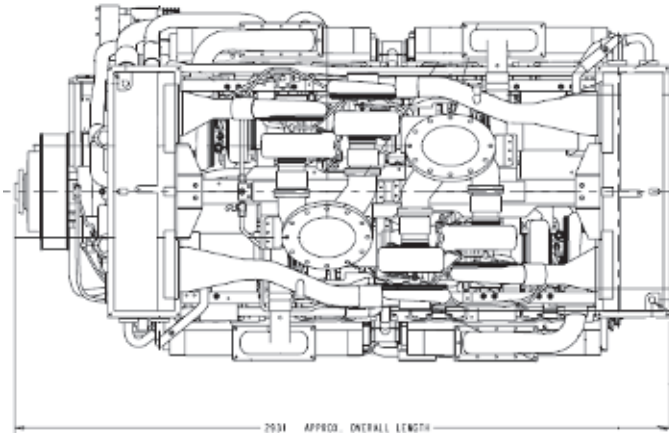
- QuickServe Online (quickserve.cummins.com) gives you easy access to parts and service information for all Cummins engines.
- You can find the information you need in seconds with our high-speed search function and your engine's serial number.

Engine Technical Data.

Model: QSK60-3000
 Output Power: 3000 bhp

Engine Speed	Torque Output		Power Output		BSFC	
	lb-ft	N•m	hp	kW	lb/hp-hr	g/kW-hr
1600	8300	11253	2529	1886	0.329	199.819
1700	8250	11185	2670	1991	0.329	199.819
1800	8200	11118	2810	2095	0.333	202.374
1900	8293	11243	3000	2237	0.336	204.503

General Dimensions.



	English Units	SI
Length	115.4 in	2,931 mm
Width	62.6 in	1,589 mm
Height	90.9 in	2,310 mm
Weight (Wet)	16,865 lb	7,650 kg

Definitions and Conditions.

Data shown above represent gross engine performance capabilities obtained and corrected in accordance with SAE J1995 conditions of 29.61 in. Hg (100 kPa) barometric pressure [300 ft (91m) altitude] 77°F (25°C) inlet air temperature, and 0.30 in. Hg (1 kPa) water vapor pressure with No. 2 diesel fuel. Not included are alternator, fan, optional equipment and driven components. Electronic derate based on altitude applies.

All data are subject to change without notice. Consult your authorized Cummins distributor for details.

Load Rating.

Maximum rating. May be used for intermittent load applications (full-throttle operation is cyclically interrupted) where the average load factor does not exceed the continuous rating and where full-throttle operation does not exceed 60 minutes without interruption.

International Rating Guidelines.

These ratings represent gross engine performance capabilities obtained and corrected in accordance with SAE J1995 and the conditions as stated above. The ratings are in conformance with the requirements specified in ISO 3046, BS 5514 and DIN 6271. The maximum rating conforms to ISO 3046 overload power and fuel stop power. Reference standards: BS 5514 and DIN 6271 standards are based on ISO 3046.



Cummins Inc.
Box 3005
Columbus, IN 47202-3005
U.S.A.

Phone: 1-800-DIESELS (1-800-343-7357)
Fax: 1-800-232-6393
Internet: CumminsOilandGas.com

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