

# QSK50

## Drilling Engine



Model	Certification	HP	kW	Max Rated Speed (RPM)
QSK50	EPA Tier 2	1480	1104	1200
QSK50	EPA Tier 2	1400-1600	1044-1715	1800

## About the QSK50.

Whether running mudpumps and drawworks on mechanical installations or driving SCR sets for electric rigs, the Cummins QSK50 engines provide optimum performance, reliability, and versatility for drilling.

This rugged 4-cycle Cummins industrial diesel delivers reliable power, low emissions, and fast response to load changes.

The QSK50 high-pressure injection system and electronic controls ensure clean, powerful and efficient operation every time. The ECM continuously monitors data from strategically placed sensors within the engine, optimizing the fuel-to-air mixture for maximum combustion. Fuel is injected at pressures exceeding 25,000 psi. This results in better utilization of fuel with fewer emissions. Getting more energy out of every drop of diesel fuel also results in greater power.

## Features.

### Full-Authority Electronic Controls

Programmable controls optimize combustion based on engine load and atmospheric conditions. Provides advanced monitoring, diagnostic, prognostic and reporting capabilities, with engine protection features.

### Two-Stage Oil Filter

Combination full-flow and bypass oil filter reduces maintenance costs as it extends service intervals.

### Longer-Lasting Intake and Exhaust Valves

Valve and seat are machined out of select materials for longer life. Rotators on both intake and exhaust ensure uniform wear.

### Precision-Honed Cylinder Liners

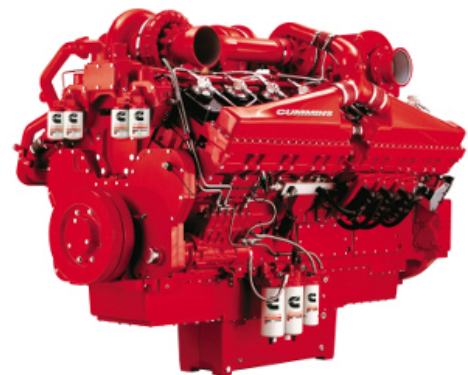
Precise liner machining with superior metal technology creates exceptional surface smoothness and durability.

### Articulated Steel Pistons

30% longer life, increased reliability and improved combustion result from the two-piece piston design.

### Extra-Wide Gear Train

Quieter, longer-lasting and capable of handling high loads of injector pressures with ease.



# Specifications.

## Engine Type

- V-16, 4-Stroke, 16-Cylinder Diesel

## Certification

- Engine certified to U.S. EPA Nonroad Source Emissions Standards, 40 CFR 89, Tier 2

## Displacement

- 50.3 liters)

## Bore and Stroke

- 6.26 in x 6.26 in (159 mm x 159 mm).

## Aspiration

- Turbo Charged and Low Temperature Aftercooled

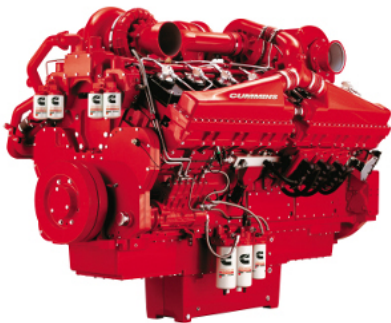
## Fuel System

- Direct Injection Modular Common Rail

## Dimensions

Length	102.7 in	2609 mm
Width	58.7 in	1492 mm
Height	75.2 in	1910 mm
Weight (wet)	12566 lbs	5700 kg

\* Dimensions and weight will vary by engine configuration.



# The Cummins Advantage.

## QuickServe® Online(quickserve.cummins.com)



- Gives easy access to parts and service information for all Cummins engines. Find the information you need with our high-speed search function and your engine's serial number.

## Cummins Online Product Registration

- Register your Cummins engine quickly and easily on our website to ensure quality parts and service.

## Distributor Expertise

- The best source for service, parts and application assistance. To find your nearest Cummins distributor, go to the Worldwide Service Locator at [wsl.cummins.com](http://wsl.cummins.com).

## Global Support Network

- Backed by the strength of Cummins distribution network.

## Global Warranty

- Cummins engines include a comprehensive, worldwide warranty. Every QSK19 engine comes with a 2-year/2,000-hour base warranty, with 3-year/10,000-hour standard protection on major components.



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