



EVERY TRACK QSK38

FOR LOCOMOTIVE APPLICATIONS

FEATURES AND BENEFITS

Modular Common Rail Fuel System (MCRS): Maintains high injection pressures regardless of engine speed for exceptional performance at every rpm. Provides improved response and load pickup with lower noise and vibration compared to unit injection systems.

Quantum System: Programmable features optimize engine performance to specific duty cycles and job requirements. Continuously monitors engine conditions and automatically adjusts for peak operation. Improved durable aluminum channel wiring harness allows easy servicing.

Low temperature aftercooling with single-stage turbocharging: Reduces mechanical and thermal stress while lowering emissions. Provides compact engine envelope while maintaining engine accessibility.

FCD Power Cylinder: Proven single-piece ferrous cast ductile iron pistons for maximum durability and reliability. Individual, 7-bolt, cross-flow cylinder heads offer high efficiency and pressure capability.

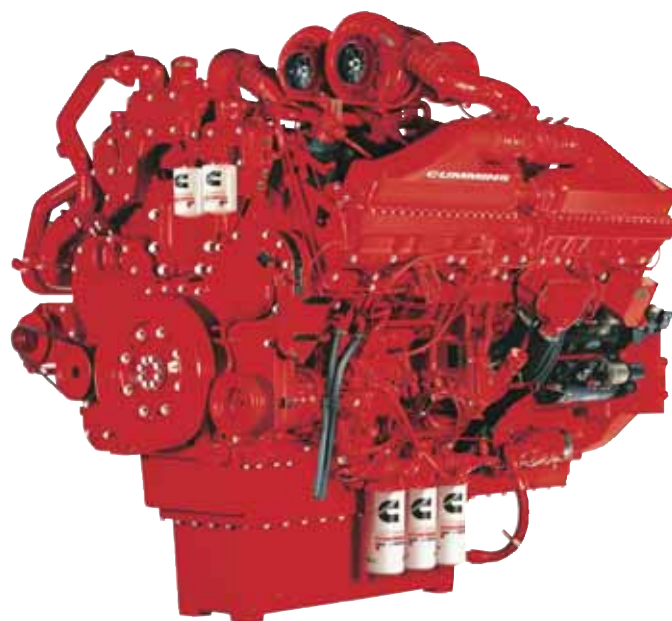
Camshaft and Gear Train: Large-diameter micro-finished camshaft and heavy duty gear train with high contact ratio spur gears to provide higher capacities and greater durability.

Prelub System: Prevents starts without oil pressure. This eliminates dry starts which improves engine life.

ELIMINATOR™: Self cleaning filter core which helps to eliminate oil filter change and disposal headaches. Saves up to 90% of lube system maintenance costs and increase productivity. Requires servicing only every 1,500 hours.

CENTINEL™: Constantly monitors engine duty cycle and load factors, removing small amounts of used oil as required and replenishing with new oil. The removed oil is blended into the fuel system to be burned during combustion. Extends oil change intervals up to 4500 hours.

625,000 gallons to overhaul: Proven power cylinder, one-piece cast iron block, heavy duty crankshaft and connecting rods allow a life to overhaul of up to 625,000 gallons (2,365,882 liters) of fuel burned with no mid-life overhaul required.



Maintenance Intervals:

ELIMINATOR re-usable filter core	1500 hours
Engine Oil w/ CENTINEL	up to 4500 hours*
Fuel filtration	up to 1500 hours

*oil sampling required

Ratings:

Application	Available Ratings bhp (kW) @ rpm	Emissions US EPA MOH / EU
Locomotive	1200 (895) @ 1800	Tier 2 / Stage IIIA
Locomotive	1500 (1119) @ 1800	Tier 2 / Stage IIIA
Track Machinery	1086-1260 @ 1800 (810-940)	Tier 2 / Stage IIIA
Rail Auxiliary Power	up to 1000 kW _e – 60 Hz	Tier 2

Other ratings may be available. Please contact Cummins for more information.

The new Tier 2/Stage IIIA QSK38 locomotive engine with Modular Common Rail Fuel System (MCRS) is one of the Quantum Series from Cummins with innovative technology that delivers more for less.

- It gives:
- outstanding reliability and durability
 - excellent fuel economy
 - lower running costs
 - longer engine life to overhaul
 - US EPA Tier 2/EU Stage IIIA emissions

This is the latest evolution of the Cummins high horsepower 38 liter engine which now includes the Modular Common Rail Fuel System, FCD power cylinder and advanced engine monitoring. It has been designed using the experience of the K38 and its proven exceptional level of reliability.

The QSK38 with MCRS offers more power, more torque and higher durability – all while achieving lower fuel consumption, lower emissions and less servicing.

Life cycle costs are significantly reduced, and with highly advanced Quantum System technology, the engine sets unbeatable standards in rail diesel productivity for general purpose locomotives.

The QSK38 with MCRS is designed to provide the operator superior value and reliability, while meeting stringent worldwide emissions standards.

Specifications:

Engine type	V-12 cylinder, 4-cycle	
Displacement	2,307 CU inches, 38 liters	
Bore and stroke	6.26 x 6.26 inches, 159 x 159mm	
Aspiration	Turbocharged / aftercooled	
Oil system capacity	196 U.S. QT, 186 liters	

Dimensions*:

Length	87 inches	2,209mm
Width	57 inches	1,452mm
Height	73 inches	1,846mm
Dry weight	8,716 lb	3,958 kg

*dependent on customer specific options



Cummins 38L powered switcher in Turkey

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