



Amazing cost-saving efficiency

QSK23 Tier 4 engine for mining applications



The lowest cost per ton of any mining engine in its class. That's what we call groundbreaking.

Cummins has been driving the mining industry forward since 1926. That's why the QSK23 is built to drive down production costs and meet sustainability goals at the same time. It combines rugged productivity, high-power density and advanced engine management technology to deliver the lowest operating cost per ton of any mining engine in its class.

Improving operations with real innovation

Cutting emissions, reducing costs and improving reliability takes smart solutions.

Modular Common Rail System (MCRS)

Advanced in-cylinder combustion technology that results in a more controlled combustion process, and smooth, quiet performance and lower operating costs with up to 2 percent better fuel economy.

Tier 4 Final/Stage V ready

Smart design allows it to meet requirements for both, providing one efficient engine for global distribution.

PrevenTech® Mining

Innovative digital service solution for remote engine monitoring and prognostics and customer algorithms and alerts, that extends engine life and reduces downtime.

Integrated emission system

By integrating the Selective Catalytic Reduction (SCR) system into the engine operation, we're able to protect engine performance and power density, while improving fuel economy over previous engine models, without increasing heat rejection or the engine footprint, equating to a lower cost of production (COP).

Cummins HHP SCR (4000 series)

For high horsepower engines, SCR technology has proven to be a better choice because it optimizes engine performance and minimizes engine stress and wear. This enables excellent fuel economy for the lowest cost per hour of operation, while delivering superior reliability, durability, and uptime.

NanoNet® and NanoForce® filtration media

Extends maintenance intervals – can more than double filter life – keeping your engine running longer and resulting in a lower COP.

Compact and balanced inline design

The engine design, combined with the improvements to operational efficiency, make the QSK23 engine a preferred choice for new mining equipment or repowering Vee-style engines of similar displacement.

Constant design improvements

At Cummins our engineers are constantly looking at how to improve the experience our customers have with our products. Recent improvements to the rear crankshaft seal, rear gear train, addition of steel pistons, and flexible fuel lines are enhancements to the reliability and durability of the QSK23 which will ultimately improve the experience our customers have.

Field proven value

Our engines are making a measurable difference to mining operations around the globe.

10 million operating hours

Our incredibly reliable Tier 4 high-horsepower engines have racked up exceptional amounts of time in the field, proving their reliability and worth.

50,000 tons of pollution avoided

The innovations in these engines have already saved the planet from huge amounts of particulate matter (PM) and oxides of nitrogen (NOx).

\$30 million of financial gains for customers

Significant fuel savings and lower operating costs make a big impact to the bottom line.

Service and support: We've got your back

Global support network

Distributor branches in over 190 countries to support your parts and service needs, no matter where your equipment is located.

Cummins Care

Our unique solutions center with experts who have specialized skill sets, experience, and in-depth knowledge, to help you problem-solve fast and assist you with your service and support needs.

Best warranty in the industry

QSK23 engines are backed by the best warranty in the industry, with full coverage for unlimited hours during the first year, extending through two years or 2,000 hours, whichever occurs first.

Major-components coverage continues through the third year or 10,000 hours, whichever occurs first. Extended protection plans are available.



QuickServe™ Online Mobile

With Cummins, one of the most comprehensive and powerful parts and service tools in the industry is all yours.

Breaking new ground with Planet 2050

In 2014, Cummins adopted its first comprehensive sustainability plan. Planet 2050 builds on this with 2050 aims and incremental 2030 goals. One of those goals is to partner with customers to reduce greenhouse gas (GHG) emissions from products in the field by 55 million metric tons. This is accomplished by improving the efficiency of our products.

For more information on Planet 2050, visit cummins.com.



Ratings

Engine model*	Advertised HP (kW) @ RPM	Peak torque LB-FT (N·M) @ RPM
QSK23 1050	1050 (783) @ 2100	2897 (3928) @ 1400
QSK23 1000	1000 (746) @ 1800	3045 (4128) @ 1600
QSK23 950	950 (708) @ 2100	2897 (3928) @ 1400
QSK23 950	950 (708) @ 1800	2785 (3776) @ 1400
QSK23 860	860 (641) @ 2100	2785 (3776) @ 1400
QSK23 860	860 (641) @ 1800	2785 (3776) @ 1400
QSK23 760	760 (567) @ 2100	2558 (3468) @ 1350
QSK23 760	760 (567) @ 1800	2558 (3468) @ 1350

*All QSK23 ratings are available for use in nonregulated regions where engines are not subject to certification.

Specifications

Engine type	In-line 6-cylinder diesel	
Aspiration	Turbocharged and charge air cooled	
Displacement	1,413 CU IN	23.15 LITERS
Bore and stroke	6.7 IN	170 MM
Oil system capacity	52-135 U.S. QT.	49-128 LITERS
Coolant capacity	48.8 U.S. QT.	46.2 LITERS
Length	77.5 IN	1,967 MM
Width	49.2 IN	1,248 MM
Height	68.9 IN	1,750 MM
Dry weight	6,349 LB	2,880 KG
Wet weight	6,643 LB	3,013 KG



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