



QSK19

Marine Propulsion and Auxiliary Engines for Commercial and Recreational Applications

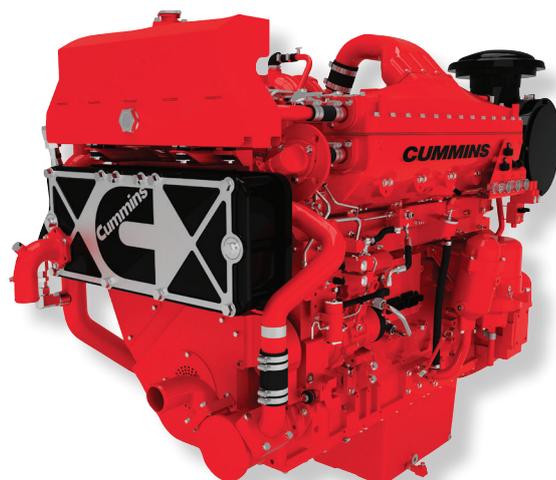
General Specifications

Configuration	In-line, 6-cylinder, 4-stroke diesel
Aspiration	Turbocharged / Aftercooled
Displacement	19 L (1150 in ³)
Bore & Stroke	159 X 159 mm (6.25 X 6.25 in)
Rotation	Counterclockwise facing flywheel
Fuel System	High Pressure Common Rail

Product Dimensions and Weight

Overall Length	mm (in)	2009.6	(79.12)
Length of Block	mm (in)	1200.2	(47.25)
Overall Width	mm (in)	1087.7	(42.82)
Overall Height	mm (in)	1764.6	(69.47)
Weight	kg (lb)	2200	(4850)

Dimensions and weight may vary based on selected engine configuration.



Power Ratings

Engine Model	Output Power			Engine Speed RPM	Rating Definition	Fuel Consumption		Emissions		
	kW	MHP	BHP			Rated Speed L/hr (gal/hr)	ISO* L/hr (gal/hr)	IMO	EPA	EU
Variable Speed										
QSK19-M	373	507	500	1800	Continuous	95.3 (25.2)	68.8 (18.2)	2	—	3a
QSK19-M	373	507	500	1800	Continuous	100.1 (26.5)	72.4 (19.1)	2	3	—
QSK19-M	447	608	600	1800	Continuous	114.1 (30.3)	77.7 (20.5)	2	—	3a
QSK19-M	447	608	600	1800	Continuous	119.1 (31.5)	85.2 (22.5)	2	3	—
QSK19-M	492	669	660	1800	Continuous	126.0 (33.4)	94.9 (25.1)	2	—	3a
QSK19-M	492	669	660	1800	Continuous	128.1 (33.8)	90.7 (24.0)	2	3	—
QSK19-M	560	760	750	1800	Heavy Duty	140.4 (37.1)	99.2 (26.2)	2	—	3a
QSK19-M	560	760	750	1800	Continuous	147.5 (39.0)	104.5 (27.6)	2	3	—
QSK19-M	567	771	760	2100	Heavy Duty	148.7 (39.3)	104.0 (27.5)	2	—	3a
QSK19-M	597**	811	800	1800	Heavy Duty	156.2 (41.3)	109.9 (29.0)	2	3	3a
QSK19-M	597**	811	800	2100	Heavy Duty	166.9 (44.1)	114.8 (30.3)	2	3	—
QSK19-M	597	811	800	2100	Medium Continuous	158.8 (41.9)	109.7 (29.0)	2	—	3a
Fixed Speed										
QSK19-DM	433	588	580	1500 (50 Hz)	Prime Power	111.1 (29.3)	57.9 (15.3)	2	—	—
QSK19-DM	526	715	705	1500 (50 Hz)	Prime Power	133.7 (35.3)	66.2 (17.5)	2	—	—
QSK19-DM	563	765	755	1800 (60 Hz)	Prime Power	142.3 (37.6)	72.4 (18.8)	2	—	3a
QSK19-DM	563	765	755	1800 (60 Hz)	Prime Power	148.5 (39.2)	75.8 (20.0)	2	3	—
QSK19-DM	597**	811	800	1800 (60 Hz)	Prime Power	158.1 (41.8)	81.9 (21.6)	2	3	—

* Average fuel consumption based on ISO 8178 E3 Standard Test Cycle (variable speed models) and ISO 8178 D2 Standard Test Cycle (fixed speed models)

** Contact your local Cummins distributor to discuss product details and availability

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Features and Benefits

Engine Design – Reliable base engine uses common components from the proven K19, K38 and K50 engines. A new cast-iron, ductile single-piece piston with nitride-coated rings and hardened cylinder liner provides excellent durability and long life

Fuel System – Modular Common Rail Fuel System features a simplified design which provides constant high injection pressure regardless of engine speed or load condition. Benefits include low noise and vibration for quiet operation, idle stability and low-end torque

Cooling System – Single-loop cooling eliminates the need for two keel coolers for reduced installation expense. Engine-mounted titanium plate heat exchanger provides superior durability with minimal maintenance requirements

Exhaust System – Water-cooled exhaust manifold cools engine surface temperatures. Design is a cast single piece construction that eliminates potential exhaust leakage

Air System – Mounted or remote marine grade air cleaner with replaceable element reduces maintenance cost. Water-cooled turbocharger optimized for vessel operating conditions and safety

Lubrication System – Standard capacity 60.6 L (16 U.S. gal) shallow oil pan or high capacity 72 L (19 U.S. gal) deep oil pan for installation flexibility. Cummins spin-on oil filters available on engine service side

Electronics – 24v Quantum System electronics feature a proven CM850 ECM to monitor operating parameters, while providing diagnostics, prognostics and complete engine protection. Simplified electrical customer interface box for all vessel connections reduces installation complexity

Certifications – Complies with IMO Tier II, EPA Tier 3 and EU Stage IIIa emissions regulations. Designed to meet International Association of Classification Societies (IACS) and SOLAS requirements. Consult your local Cummins professional for a complete listing of available class approvals

Optional Equipment

- C Command panels
- ELIMINATOR™ oil filtration system
- Premium coolant hose connections
- Duplex lube oil and fuel filtration
- Integral marine gear oil cooler
- SAE A or B auxiliary drive
- Front PTO adaptor
- Fully integrated, type-approved alarm and safety system
- CENTINEL oil management system