



K19 CCEC

Marine Propulsion and Auxiliary Engines for Commercial Applications

General Specifications

Configuration	In-line, 6-cylinder, 4-stroke diesel
Aspiration	Turbocharged (KT19) or Turbocharged / Aftercooled (KTA19)
Displacement	19 L (1150 in ³)
Bore & Stroke	159 X 159 mm (6.25 X 6.25 in)
Rotation	Counterclockwise facing flywheel
Fuel System	Pressure Time (PT)



Product Dimensions and Weight

Overall Length	mm (in)	2161.5	(85.0)
Length of Block	mm (in)	1200	(47.5)
Overall Width	mm (in)	965	(38.0)
Overall Height	mm (in)	1760.5	(69.5)
Weight	kg (lb)	2073	(4570.0)

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	RCD
Variable Speed											
KT19-M	317	431	425	1800	Continuous	79.5 (21.0)	55.2 (14.6)	1	-	-	-
KTA19-M	373	507	500	1800	Continuous	94.5 (25.2)	64.7 (17.1)	1	-	-	-
K19-M	373	507	500	1800	Continuous	92.7 (24.5)	66.6 (17.6)	2	-	-	-
KTA19-M	447	608	600	1800	Continuous	111.1 (29.4)	79.8 (21.1)	1	-	-	-
K19-M	447	608	600	1800	Continuous	109.9 (29.0)	78.2 (20.7)	2	-	-	-
Fixed Speed											
KTA19-DM1	358	487	480	1500 (50 Hz)	Prime	91.2 (24.1)	47.1 (12.5)	2	-	-	-
KTA19-DM1	392	532	525	1800 (60 Hz)	Prime	98.4 (26.0)	N/A	1	-	-	-

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

K19 CCEC

Marine Propulsion and Auxiliary Engines for Commercial Applications

Features and Benefits

Engine Design – Rugged engine block designed for continuous duty operation and long life. Metric O-ring seals and edge molded gaskets eliminate fluid leaks. Full power take-off available from front of crankshaft. Aluminum single-piece piston design with hardened liners and nitride coated rings for exceptional durability

Fuel System – Dependable Cummins PT fuel system for precise engine fueling. Step Timing Control (STC) allows for smooth engine acceleration under load. Premium fuel injectors utilize ceramic components for increased durability

Cooling System – Keel cooled or engine mounted heat exchanger system available. Spin-on Cummins water treatment filters for protection against cooling system corrosion

Exhaust System – Water cooled exhaust manifold reduces emissions and cools engine surface temperatures

Air System – Holset HX80 turbochargers optimized for marine applications

Lubrication System – Marine grade steel or cast aluminum lube oil pan (37.0 L [9.7 gal]). Cummins spin-on oil filters handed available for simplified service

Electronics – 24v standard electrical system

Certifications – Complies with IMO emissions regulations, certified by China Classification Society (CCS)

