

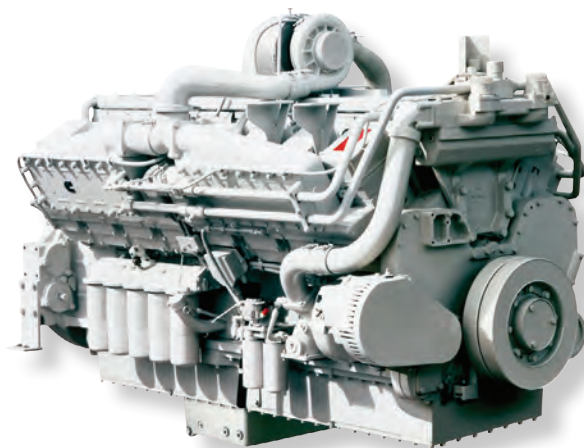


# KTA50

## Marine Propulsion and Auxiliary Engines for Commercial and Recreational Applications

### General Specifications

<b>Configuration</b>	V-16 cylinder, 4-stroke diesel
<b>Aspiration</b>	Turbocharged / Aftercooled
<b>Displacement</b>	50 L (3067 in <sup>3</sup> )
<b>Bore &amp; Stroke</b>	159 X 159 mm (6.25 X 6.25 in)
<b>Rotation</b>	Counterclockwise facing flywheel
<b>Fuel System</b>	Pressure Time (PT)



### Product Dimensions and Weight

<b>Overall Length</b>	mm (in)	2694	(106)
<b>Length of Block</b>	mm (in)	2045	(81)
<b>Overall Width</b>	mm (in)	1564	(62)
<b>Overall Height</b>	mm (in)	2260	(89)
<b>Weight</b>	kg (lb)	5166	(11389)

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	
<b>Variable Speed</b>												
KTA50-M2	1044	1420	1400	1600	Continuous	261.3 (69.0)	179.0 (47.3)	1	-	-	-	
KTA50-M2	1193	1622	1600	1800	Continuous	290.7 (76.8)	209.1 (55.2)	1	-	-	-	
KTA50-M2	1193	1622	1600	1800	Continuous	303.6 (80.2)	209.5 (55.3)	2	-	-	-	
KTA50-M2	1193	1622	1600	1900	Heavy Duty	299.7 (79.2)	208.5 (55.1)	1	-	-	-	
KTA50-M2	1268	1724	1700	1800	Heavy Duty	309.9 (81.9)	221.2 (58.4)	1	-	-	-	
KTA50-M2	1342	1825	1800	1900	Heavy Duty	336.0 (88.8)	232.8 (61.5)	1	-	-	-	
KTA50-M2	1342	1825	1800	1900	Heavy Duty	345.4 (91.2)	236.7 (62.5)	2	-	-	-	
KTA50-M2	1398	1901	1875	1950	Medium Continuous	348.0 (91.9)	248.6 (65.7)	1	-	-	-	
<b>Fixed Speed</b>												
KTA50-D(M)	880	1197	1180	1500 (50 Hz)	Prime	217.3 (57.4)	116.8 (30.9)	-	-	-	-	
KTA50-D(M)	900	1223	1206	1500 (50 Hz)	Prime	252.9 (66.8)	N/A	-	-	-	-	
KTA50-D(M)	1000	1359	1340	1800 (60 Hz)	Prime	N/A	N/A	-	-	-	-	
KTA50-D(M1)	1007	1369	1350	1500 (50 Hz)	Prime	228.9 (60.5)	118.9 (31.4)	1	-	-	-	
KTA50-D(M)	1007	1369	1350	1800 (60 Hz)	Prime	N/A	138.1 (36.5)	-	-	-	-	
KTA50-D(M)	1097	1491	1470	1500 (50 Hz)	Prime	253.6 (67.0)	134.1 (35.4)	-	-	-	-	
KTA50-D(M1)	1097	1491	1470	1500 (50 Hz)	Prime	267.0 (70.5)	141.4 (37.3)	1	-	-	-	
KTA50-D(M1)	1097	1491	1470	1500 (50 Hz)	Prime	275.9 (72.9)	141.9 (37.5)	2	-	-	-	

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

Please go to page 2 for additional Fixed Speed ratings.

TECHNOLOGY THAT TRANSFORMS

# KTA50

## Marine Propulsion and Auxiliary Engines for Commercial and Recreational Applications

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
<b>Fixed Speed (continued)</b>											
KTA50-D(M1)	1141	1551	1530	1800 (60 Hz)	Prime	262.7 (69.4)	138.6 (36.6)	1	-	-	-
KTA50-D(M)	1220	1658	1635	1800 (60 Hz)	Prime	282.0 (74.5)	153.7 (40.6)	-	-	-	-
KTA50-D(M1)	1291	1754	1730	1800 (60 Hz)	Prime	320.8 (84.7)	168.6 (44.6)	1	-	-	-
KTA50-D(M1)	1291	1754	1730	1800 (60 Hz)	Prime	314.6 (83.1)	161.4 (42.6)	2	-	-	-

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

### Features and Benefits

**Engine Design** – Low profile for ease of installation and service. Replaceable wet cylinder liners offer longer life and lower rebuild cost. Gallery cooled pistons for maximum durability

**Fuel System** – Cummins PT fuel system can be operated mechanically or with CENTRY electronics for precise engine fueling. Step Timing Control (STC) allows for smooth engine acceleration under load

**Cooling System** – Keel cooled or engine mounted plate heat exchanger for reduced installation cost and less maintenance. Spin-on Cummins water treatment filters for protection against cooling system corrosion

**Exhaust System** – Dry exhaust manifold with water shielding for reduced fuel consumption and improved performance

**Air System** – Marine grade air filters with air inlet restriction indicator. Twin Cummins turbochargers optimized for marine usage

**Lubrication System** – Standard (151 L [40 gal]) or high capacity (185 L [49 gal]) marine grade oil pan. Cummins spin-on oil filter cartridge available handed for simplified service

**Electronics** – 24v standard electrical system with 12V option available. Marine grade wiring harness

**Certifications** – Complies with either IMO Tier 1 and 2 emissions regulations as indicated. Certificates of compliance are available from the U.S. EPA and Lloyd's Register of Shipping. Consult your local Cummins professional for a complete listing of current marine agency approvals for this engine

### Optional Equipment

- CENTINEL™ oil management system
- Prelub starter protects against dry starts
- Direct mounted front power take-off
- Duplex lube and fuel filtration
- Engine room and pilot house panel with analog gauges



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