

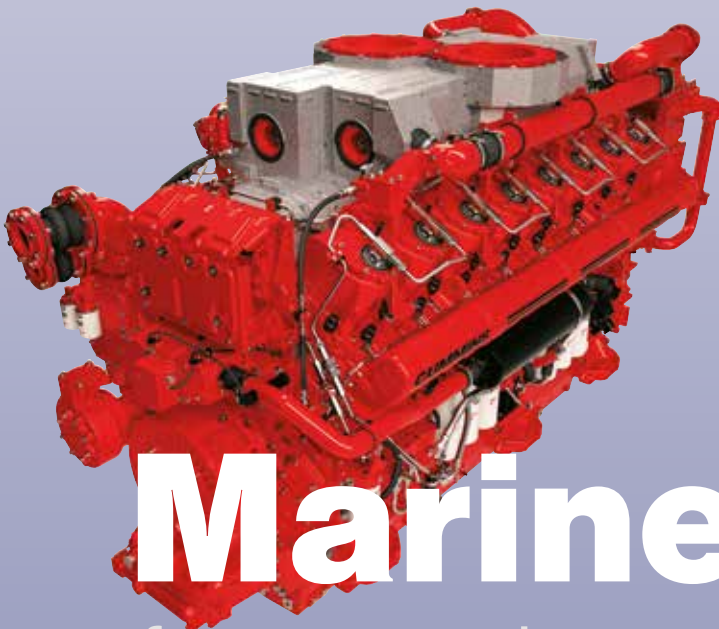


Security On The Water

Marine Power for Security and Defence



Cummins Inc. is the world's largest independent manufacturer and marketer of in-line and V-type diesel engines and is a major supplier of diesel engines for security and defence purposes throughout the Free World. In every mission, from the European Theatre of Operations in WWII to peace-keeping missions, combat-ready Cummins diesels have served with distinction, earning the highest commendations for durability, dependability and performance. That's why you'll find Cummins engines in more and more militaries and security forces around the world. After more than ninety years of leadership, Cummins is poised to redefine the parameters of diesel engine technology to meet the demands of 21st century operations.



Patrol boat powered by three Cummins KTA50 1800 hp (Royal Thai Navy)

Propulsion and auxiliary power from 100-4200 hp

Cummins offers mechanically and electronically controlled engines from 6.7 litres to 95 litres, ranging from 100 hp to 4200 hp (75-3132 kW). They include the company's latest development, the Cummins QSK95, the most powerful high-speed diesel ever designed for use in marine vessels. Cummins also offers a range of factory-remanufactured ReCon engines from 5.9 to 19 litres. To ensure the optimum propulsion solution, all Cummins engines are compatible with a full range of propulsion types from jets and sterndrives to inboards and diesel electric.

Marine power

for security and defence

Cummins has a **strong marine heritage** dating back to the company's start in 1919. More than 90 years later, Cummins continues its legacy of providing **reliable, durable diesels** to the marine market with a broad range of power from 5.9 to 95 litres.

Meeting and exceeding demanding requirements

Cummins designs its engines to meet or exceed military and security requirements.

- All Cummins marine engines are **capable of running on JP-5 and JP-8 military fuels.**
- The B Series is ideal for lifeboats, as its seawater pump was designed to allow for **30 minutes of dry run at idle capability** – far exceeding the five minute requirement of lifeboats.
- Many Cummins marine engines are **approved by major Marine Classification Societies worldwide**, including the American Bureau of Shipping. To achieve certification, Cummins designs and builds its engines to comply with the strictest safety standards. In accordance with marine classification society rules, Cummins offers a full line of options such as independent safety and alarm systems, dualwalled fuel lines and duplex filtration.
- Cummins offers a number of options to help **reduce cost of operation, while extending maintenance intervals.** CENTINEL™ eliminates or extends oil change intervals by burning used oil and replacing it with clean oil. The ELIMINATOR™ is a self-cleaning centrifuge that replaces all disposable canisters on an engine.



From top: over-the-horizon boat powered by one Cummins QSB6.7 480 hp (U.S. Coast Guard); harbour patrol boats powered by two Cummins QSB6.7 425 hp (U.S. Navy); bridge erection boat powered by two Cummins QSB6.7 250 hp (U.S. Army)

Support for every port

Cummins vast distributor and dealer network covers 190 countries and territories, with over 600 servicing distributor locations. Cummins works closely with marine customers to develop specific Customer Support Plans, including spare engine and alternator programs, with global parts availability for oceangoing vessels.

Regional Response Teams ensure that service and application expertise is available whenever and wherever it is needed, deploying to the most remote locations with trained technicians, the latest diagnostic equipment and replacement parts. Parts Distribution Centres strategically located around the world can get parts to any location in a short period of time.



Rigid hulled inflatable boat (RIB) powered by two Cummins QSB6.7 380 hp (U.S. Navy | image courtesy of Willard Marine)

Collaboration between the home port and the Cummins team handling the vessel servicing event is carefully managed to ensure seamless communications and the fastest possible response time, to minimise vessel downtime.

Visit marine.cummins.com for more information.

Engine Model	Max Power	
	kW	hp
4BT3.9*	112	150
6BT*/6BTA*/QSB5.9*	352	472
QSB6.7	404	542
6CTA/QSC8.3	441	592
QSL9	302	404
QSM11	526	705
N855	358	480
KTA/QSK19	597	800
V28	608	815
KTA/QSK38	1119	1500
KTA/QSK50	1641	2200
QSK60	2013	2700
QSK95	3132	4200

* ReCon engines only

Generator Model	Max Power
	kWe
MDKBH	5
MDKBJ/W	8
MDKBL/L	9
MDKBM/N	13.5
MDKDP/R/V	21.5
MDKDT/U/S	29
MDDCK/F/L	40
MDDCG/M/N	65
MDDCH/J	80
MDDCP/R and 6B-CP	99
6C-CP	170
K19-CP	460
K38-CP	920
K50-CP	1240

Cummins is a pioneer in product development, thus specifications may change without notice. For the latest information, visit marine.cummins.com.

Marine generators from 4 to 1240 kWe

Cummins has more than ninety years of marine experience supplying generators for commercial, recreational and government marine applications globally. Cummins' line of marine generator sets include Cummins Onan and C Power gensets for ship's service and emergency power, as well as diesel electric propulsion. Every major component of the marine generator set, including the engine, alternator and control system, is either designed and manufactured or integrated by divisions of the Cummins family. This means all elements of the generator set are engineered to operate with complete system harmony for optimal performance and maximum efficiency.

Diesel Electric: the difference is experience

Cummins pioneered the use of diesel electric propulsion in commercial marine vessels starting in 2004, and today offers everything from standard C Power generator sets to custom



Research vessel powered by four Cummins QSK38 diesel electric generators (U.S. Navy)

packages matched to the customer's preferred alternator – most often Cummins' own AvK alternators from Cummins Generator Technologies. Those power units are the work of international collaboration involving Cummins distributors from across the globe, every step of the way, from design and integration to installation and support.

Unlike prime power and emergency gensets, diesel electric gensets require unique vessel interfaces and system integration. This is where Cummins experience working with builders, suppliers and integrators has a huge positive impact on the efficiency of the process – and the successful outcome.

Cummins has close to 1,000 diesel electric generators currently powering PSVs in operation globally. The most popular configuration is four Cummins QSK60-powered generators, each delivering 1825 kW at 1800 rpm. Some of the initial installations of QSK60 units ran for over 25,000 hours before their first rebuild.



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