

MADE TO LAST. READY TO ADAPT.

Power Solutions for Defense



**FOR
A WORLD
THAT'S
ALWAYS ON™**

THE POWER OF TAILORABILITY.

Whether you're repowering existing military vehicles for land or sea, adding a power plant to a new design, or assessing the right mobile power generation solution, Cummins helps you complete your mission as quickly as possible. By leveraging Cummins power systems that have already distinguished themselves in both military and commercial applications, our engineers can tailor fit power system solutions to meet your specific defense needs.

This saves developmental time and maximizes flexibility because our products can be adapted to meet a wide variety of vehicle and application demands. Our ability to deliver effective power solutions in defense applications comes from our expertise in developing and designing the best engines, fuel systems, controls, air handling, filtration, emission solutions and electrical power generation units.

Once tailoring is complete, we make sure the revised designs are ready for action by putting them through their paces in both test cells and demanding real-world environments.

ENLIST CUMMINS AND ITS EXPERTISE.

From supply lines to the frontlines on land and at sea, Cummins has proven its readiness for action with total commitment. Every aspect of design, manufacturing and support is internally sourced for complete command and control, which results in unparalleled reliability, efficiency, durability and quality.

We provide outstanding power solutions for a variety of defense applications, including wheeled and tracked combat vehicles, logistic vehicles, naval vessels, heavy artillery and mobile command centers. Cummins B Series engines alone are deployed in over 30,000 pieces of military equipment worldwide. Plus, we actively recruit former service members, giving us enhanced abilities to understand and meet current and future military needs.

No wonder we're the world's largest independent diesel engine manufacturer and a major supplier to defense agencies around the world. Hundreds of thousands of Cummins-powered vehicles and power generation units are currently in active service worldwide, allowing our customers to keep their defenses strong.





OFF-THE-SHELF POWER. OUT-OF-THE-BOX VERSATILITY.

Give your forces the tactical advantage of greater range with the efficiency of Cummins engines. Whether you're powering armored fighting vehicles (AFVs), armored personnel carriers (APCs), tactical trucks, heavy artillery, missile launchers or unmanned ground vehicles (UGVs), Cummins engines provide first-class reliability, technology, fuel economy and operation in unforgiving and hazardous environments. With a variety of engines ranging from 85 to 1000 hp, Cummins delivers both outstanding power density for ultimate performance throughout the power curve and peace of mind.

- **Economies of Scale** — By starting with commercial off-the-shelf (COTS) engines and then tailoring their design to meet your specifications, you gain advantages in pricing, reliability, data and global delivery times.
- **Rigorous Testing** — Our state-of-the-art test cells as well as rigorous on- and off-road testing ensure the highest quality and performance when our products see action.
- **Powertrain Integration** — Cummins electronic technology now goes beyond the engine to fully integrate with other electronically controlled systems on the powertrain.
- **Innovative Design** — We are constantly developing new ways to improve performance. For instance, the opposed-piston architecture of our advanced combat engine (ACE) uses this unique engine design to deliver higher power density, improve power-to-volume, increase fuel efficiency, and lower heat rejection. We have also developed integrated coolant and lubrication systems for reduced joints and limited external plumbing.
- **Unmatched Military Experience** — Tap into almost 100 years of military experience and technological innovation. We can work with your engineering and design teams to match your power and configuration needs.

HIGH-HORSEPOWER ENGINES FOR LAND.



V903



ACE



X15

General Specifications*

General Specifications*

General Specifications*

Displacement:
903 cubic in (14.8 L)

Overall Length:
56.5 in (1435 mm)

Overall Width:
35.1 in (891 mm)

Overall Height:
35.6 in (904 mm)

Weight (Dry):
2580 lbs (1171 kg)

Displacement:
873 cubic in (14.3 L)

Overall Length:
48 in (1219 mm)

Overall Width:
43 in (1092 mm)

Overall Height:
23 in (584 mm)

Weight (Dry):
3571 lbs (1620 kg)

Displacement:
912 cubic in (14.9 L)

Overall Length:
57 in (1447 mm)

Overall Width:
41.1 in (1044 mm)

Overall Height:
50 in (1263 mm)

Weight (Dry):
2926 lbs (1327 kg)

Power Ratings

Power Ratings

Power Ratings

HP
525-760

kW
392-567

HP
850-1000

kW
633-745

HP
400-675

kW
298-503

Torque

Torque

Torque

lb-ft
1144-1570

N-m
1551-2129

lb-ft
2059-2424


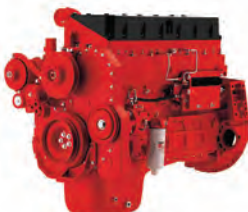


N-m
2792-3287

lb-ft
1450-2050




N-m
1966-2779

*Subject to change

LIGHT- AND MEDIUM-DUTY ENGINES.

							
ISG12		M11		L9		B6.7	
General Specifications*		General Specifications*		General Specifications*		General Specifications*	
Displacement: 720 cubic in (11.8 L)		Displacement: 659 cubic in (10.8 L)		Displacement: 543 cubic in (8.9 L)		Displacement: 409 cubic in (6.7 L)	
Overall Length: 51 in (1295 mm)		Overall Length: 56.1 in (1426 mm)		Overall Length: 44.5 in (1130 mm)		Overall Length: 41.3 in (1050 mm)	
Overall Width: 37.7 in (958 mm)		Overall Width: 32.7 in (831 mm)		Overall Width: 30.6 in (778 mm)		Overall Width: 27.8 in (707 mm)	
Overall Height: 41.4 in (1051 mm)		Overall Height: 43.7 in (1110 mm)		Overall Height: 39.9 (1013 mm)		Overall Height: 33 in (838 mm)	
Weight (Dry): 1746 lbs (792 kg)		Weight (Dry): 2072 lbs (940 kg)		Weight (Dry): 1706 lbs (774 kg)		Weight (Dry): 1069 lbs (485 kg)	
Power Ratings		Power Ratings		Power Ratings		Power Ratings	
HP 375-500	kW 279-373	HP 305-500	kW 228-373	HP 306-540	kW 228-403	HP 183-360	kW 136-269
Torque		Torque		Torque		Torque	
lb-ft 1475-1696	N-m 2000-2300	lb-ft 1150-1550	N-m 1559-2102	lb-ft 885-1401	N-m 1200-1900	lb-ft 516-811	N-m 700-1100

*Subject to change

					
B4.5		F3.8		F2.8	
General Specifications*		General Specifications*		General Specifications*	
Displacement: 272 cubic in (4.5 L)		Displacement: 229.4 cubic in (3.8 L)		Displacement: 171 cubic in (2.8 L)	
Overall Length: 31 in (787 mm)		Overall Length: 31.9 in (810 mm)		Overall Length: 27.6 in (701 mm)	
Overall Width: 28.5 in (723 mm)		Overall Width: 27.4 in (695 mm)		Overall Width: 25.8 in (656 mm)	
Overall Height: 32.2 in (819 mm)		Overall Height: 31.7 in (806 mm)		Overall Height: 28.8 in (732 mm)	
Weight (Dry): 807 lbs (366 kg)		Weight (Dry): 739 lbs (335 kg)		Weight (Dry): 472 lbs (214 kg)	
Power Ratings		Power Ratings		Power Ratings	
HP 138-250	kW 103-187	HP 140-168	kW 105-125	HP 114-161	kW 85-120
Torque		Torque		Torque	
lb-ft 332-590	N-m 450-800	lb-ft 332-443	N-m 450-600	lb-ft 207-310	N-m 280-420

*Subject to change



MEETING STANDARDS WITH TECHNOLOGY AND FUEL DIVERSITY.

Cummins offers a full portfolio of technologies to help you maintain engine availability while meeting the latest emissions regulations. By making use of technologies such as selective catalytic reduction (SCR), exhaust gas recirculation (EGR) and diesel particulate filters (DPFs), we're able to ensure engines meet the latest emission standards without sacrificing performance.

Our engines are also capable of operating with a wide variety of military fuels, including NATO F-34 and F-54, JET A-1, JP-8, AVTUR and F24. If your forces are going to be using high-sulfur fuels, we can provide engines either with or without the aftertreatment system.

TECHNOLOGY AHEAD OF THE WAVE.

Shipbuilders and naval operations around the globe rely on Cummins for continuous improvement and innovation. With a broad range of power from 5.9 to 4.5 liters — including both propulsion and auxiliary engines — we have the engines and gensets that will meet your needs and exceed military and security requirements. We've been providing reliable, durable diesel engines to the marine market since 1919 and continue to innovate.

- **Fuel Versatility** — All Cummins marine engines are capable of running on JP-5, JP-8, kerosene and biodiesel.
- **Worldwide Approval** — Major marine classification societies located around the world — including the American Bureau of Shipping — approve many of Cummins marine engines, specifically engine features such as independent safety and alarm systems, dual-walled fuel lines and duplex filtration.
- **Diesel Electric Pioneer** — Using our own AvK® alternators, Cummins pioneered diesel electric propulsion in 2004. Currently, there are close to one thousand Cummins diesel electric generators powering PSVs around the globe.
- **24/7 Service and Support** — Receive support at major ports on every continent through our distributor network — anytime day or night. With Cummins-powered vehicles operating in every time zone, get unmatched access to technical experts around the clock and attain parts worldwide through our three distribution centers in Memphis, Singapore and Belgium.





ON THE FRONTLINE OF POWER SOLUTIONS.

From powering command centers, mobile hospitals and infrastructure at forward operating bases to missile defense and directed weapon systems, Cummins Power Generation provides the expertise and innovation to keep your mission on track — anywhere in the world.

- **Rugged Mobile Power** — Deep defense experience and technical capabilities fuel our Rugged Mobile Power (RMP) products. We've engineered them to meet demanding performance, logistics and mobile power requirements for the most challenging logistical and terrain operations. Rated 5 to 60 kW, Cummins RMP generators reduce logistical footprint, increase reliability, and improve unit mobility and transportability. They also meet US EPA air pollution requirements and are flexible enough to create microgrid solutions without the need for external control devices. Additionally, service personnel can assemble up to 16 of them in parallel to create a network configuration.
- **Cummins 800 kW Power Unit** — The DQBPU mobile power unit is proven to deliver in the toughest conditions anywhere in the world. Designed and tested for defense applications, this generator uses military remote monitoring and offers significant operational advantages for any military service. Rated 50/60 Hz, 2400/4160/2220/3800 volts, this three-phase, four-wire, 800-kW, trailer-mounted diesel generator complies with all reliability, safety and regulatory standards. It offers multiple fuel option capabilities and is weather-resistant with an aluminum enclosure that features ergonomic service access for maintenance efficiency.
- **Military Base Operations** — From upgrading backup power solutions to providing megawatts of baseload power, Cummins Power Generation plays a critical role in powering military operations around the world. With flexible solutions to deliver integrated energy management and sustainable power solutions, Cummins power system products include diesel and natural gas generator sets ranging from 15 to 3750 kVA. They feature battery storage systems, system-level controls and switching technologies, and remote monitoring capabilities to provide a complete integrated approach for maximum reliability.
- **Mobile Power Solutions** — With easy-to-use controls and ultimate reliability, Cummins mobile power solutions range from 40 to 1250 kVA and are integrated using the same controller on every platform to offer ease of logistics and mobility. They can be fitted with a heavy-duty package to withstand the harshest conditions.

RMP 50/60 Hz

Model Name	Prime Ratings: 50 Hz	Prime Ratings: 60 Hz	Engine Model	Standard Alternator	Standard Controller	EPA Cert	Sound Level Full Load @7m dB(A)
5RMP-1030A	5.2 kVA	5 kWe	D902	YD-6060-5	ADCS	Tier 3	68
10RMP-1040A	10.4 kVA	10 kWe	3TNV84T-BMCU	YD-6060-10	ADCS	Tier 3	68
15RMP-1050A	15.6 kVA	15 kWe	4TNV84T-BPCU	YD-6060-10	ADCS	Tier 3	70
30RMP-1060A	31 kVA	30 kWe	QSB3.3	UC224	ADCS	Tier 3	70
60RMP-1070A	62.5 kVA	60 kWe	QSB4.5	UC227	ADCS	Tier 3	72

RMP 400 Hz

Model Name	Prime Ratings: 400 Hz	Engine Model	Standard Alternator	Standard Controller	EPA Cert	Sound Level Full Load @7m dB(A)
10RMP-1041A	10 kWe	3TNV84T-BMCU	YD-400-10	ADCS	Tier 3	68
15RMP-1051A	15 kWe	4TNV84T-BPCU	YD-400-10	ADCS	Tier 3	70
30RMP-1061A	30 kWe	QSB3.3	Marathon 30 kW 400 Hz	ADCS	Tier 3	70
60RMP-1071A	60 kWe	QSB4.5	Marathon 60 kW 400 Hz	ADCS	Tier 3	72

DQBPU 50/60 Hz

Model Name	Prime Ratings: 50 Hz	Prime Ratings: 60 Hz	Engine Model	Standard Alternator	Standard Controller	EPA Cert	Sound Level Full Load @7m dB(A)
DQBPU	889	800	QSK38	Marathon 741FDM 4368	DCS	Tier 2	84



YOU HAVE ALLIES FOR CUSTOMER AND TECHNICAL SUPPORT.

Cummins Care is a solutions center that helps to prevent issues while providing answers quickly and accurately. Our mission is to provide a whole new level of customer service that is on-call 24/7/365 to support and deliver faster personal attention with rapid results.

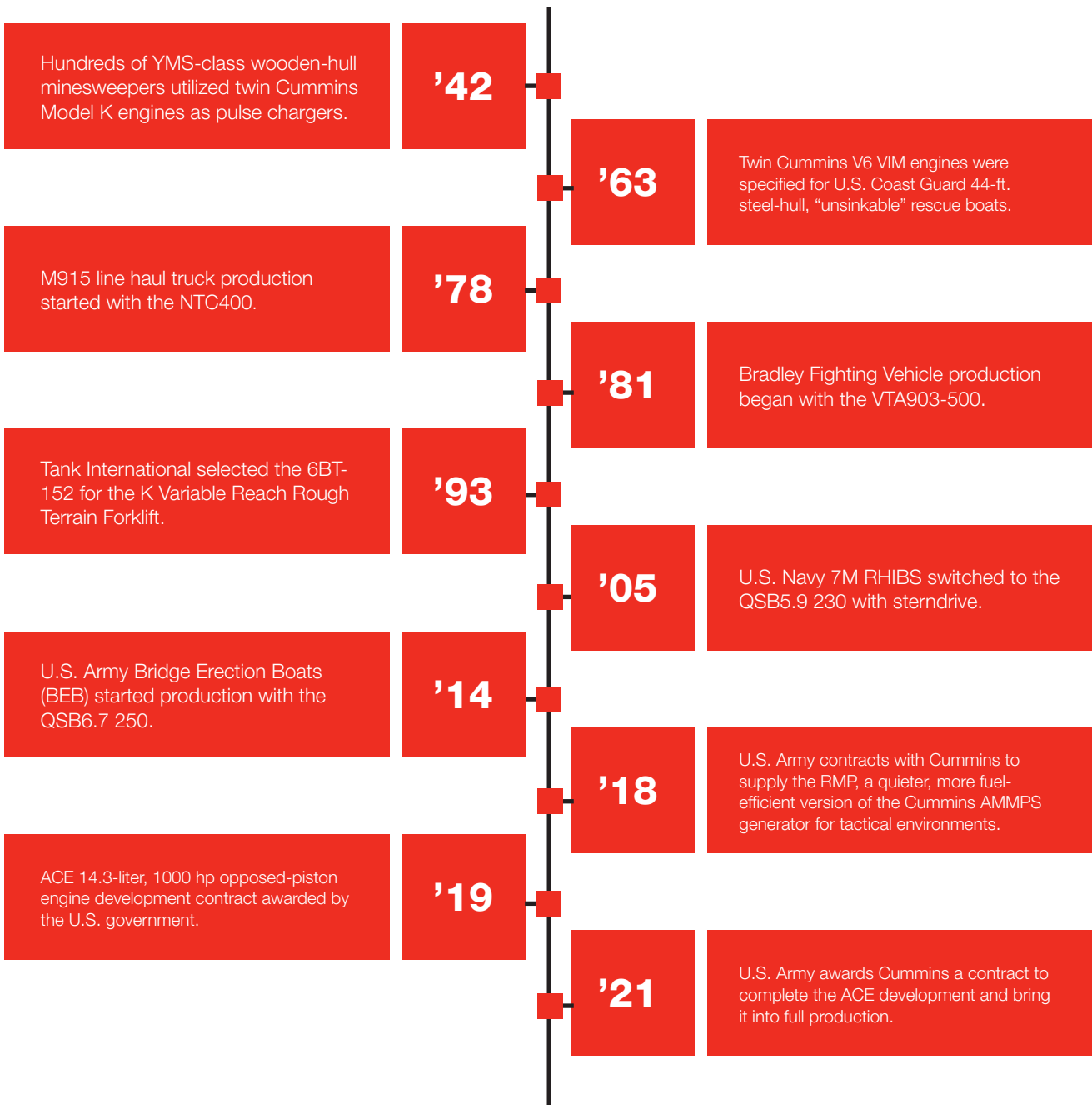
From the moment you engage with Cummins Care, you will have access to a Cummins expert with specialized skill sets, experience and in-depth knowledge to take care of military equipment needs. You can also connect with our helpful experts and resources in your region/language by visiting care.cummins.com.

We're here for you to keep military equipment at the ready while providing a seamless support experience in a world that's Always On.

To find our sales and service locations, visit cummins.com/locations.

DISTINGUISHED SERVICE AT EVERY MILESTONE.

Cummins has been — and continues to be — a major supplier of diesel engines and gensets for defense purposes throughout the world. In every mission, from the European Theater of Operations in WWII to peacekeeping operations today, Cummins-powered equipment has served with distinction, earning the highest commendations for durability, dependability and performance. That’s why Cummins power systems are specified in military applications by countries around the world.





RECRUIT CUMMINS FOR YOUR APPLICATION-SPECIFIC TAILORING.

As vehicles are expected to meet new requirements, have more power density, and increase fuel economy, Cummins is easily able to adapt. Whether modifying our existing engines or creating new ones based on your needs and specifications, we can assist at every phase, from providing guidance on initial bid specifications to working with original equipment manufacturers (OEMs) on installation, field testing and production.

Learn more about what Cummins can do for you.

EBU AND PSBU ENGINES

ACE

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