

Count on Cummins

Commercial and Government Marine Diesel Engines









When Lives and Livelihoods are on the Line

Cummins power means business. Propulsion systems and Cummins Onan generator sets that are clean, efficient, powerful, and reliable. And the most extensive support network on the globe. All fueled by 90-plus years of innovation and expertise.

When performance counts, count on Cummins.

Coast Guard-proven. Navy tough. Built to go the distance.

ell.

COAST GUARD

Committed to Performance

Powerful. Efficient. Dependable. Durable. A Cummins engine is all these things. Wherever the demands ...

Investing and Advancing

Performance for you might mean the speed you need to get there fast, when saving a few seconds can save a life. Or, performance might mean the power to push a boat 10 times your size. Either way, you can't afford to compromise dependability or fuel economy. No matter what your priorities, Cummins always delivers the power density you demand. With big-time power and performance from a surprisingly small engine package. Cummins has a proud 90-year history of leadership in marine propulsion. But we refuse to rest on it. Like our customers, we prefer to keep moving forward. Expanding our product range. Investing in the newest, cleanest, most efficient diesel technology. Elevating the art of customer care. All of which makes Cummins an ideal on board partner, for all of your ventures.



More Uptime. Better Returns.

Cummins on board means more time up and running, less time dealing with problems.

You're powered by the most-advanced propulsion technology. Meeting or exceeding all emissions standards. And you're operating at best-in-class fuel economy, limiting the pinch of fuel prices.

Powering Success

Cummins thinks beyond the engine to what it drives: your boat and your business. Our knowledge of naval architecture and close partnerships with boat builders create a hand-in-glove relationship between engine design and vessel design. One that ensures Cummins-equipped boats deliver great performance, handling, and fuel economy. And the best possible returns on your investment.

Ready for Tomorrow, Today

Cummins develops and manufactures products using proven, time-tested processes, ensuring every Cummins product meets rigorous quality standards. Robust system integration guidelines make the process seamless. So you can be sure your boat is a boat you can count on. Not just today, but every day.



It's no mistake that our engine and your boat work together perfectly. Each was designed with the other in mind.

Support That Keeps You Up and Running

No matter where in the world you work, Cummins is there, with help you can trust to keep you going strong, no matter what.

Cummins Customer Support: Your Global Safety Net

Cummins Marine products are supported in every major port around the world. Our global network encompasses thousands of authorized distributor and dealer service locations. Routine maintenance. Replacement parts. Emergency repairs. Whatever you need, wherever you are, Cummins is there to help you.

Tap Our Expertise

Being there is one thing. Being able to quickly and accurately diagnose the problem, locate the parts, and make the repair is another. That's why Cummins has invested heavily in a worldwide distribution network. With deep engine knowledge and integrated system expertise, they know what it takes to get you up and running again, as soon as possible.

Worry-Free, Guaranteed

Cummins engines and generators are backed by a comprehensive warranty that's honored around the globe. We also offer extended warranty options that cover major components for up to six years.

When you're underway and working hard, worry won't be coming along for the ride. More than a million Cummins engines rolled off production lines and into service this year.

We stand behind every single one. Including yours.



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QSB6.7 QUANTUM SERIES ENGINE

Features

Fuel System: Bosch HPCR with hardened components to safely operate alternative fuels such as kerosene and JP8/JP5

Lubrication System: Front mounted filters, oil service interval increased to 500 hours if use ULSD fuels

Electrical System: 12v and 24v, isolated and non-isolated, systems available

Air Intake System: New Walker air filter significantly reduces noise

Seawater System: Optional dry run capability

Emissions: EPA Tier 3, RCD and IMO2

Breather System: Closed Crankcase Ventilation available on all ratings

Engine Specifications

Configuration	In-line 6-cylinder, 4-stroke diesel
Bore & Stroke	107 mm x 124 mm (4.21 in x 4.88 in)
Displacement	6.7 L (408 in ³)
Aspiration	Turbocharged / Aftercooled
Rotation	Counterclockwise facing flywheel

Engine Overview

- Unmatched peformance driven through a perfectly matched turbocharger and a new 24-valve cylinder head that delivers industry-leading power density
- Quiet operation, including an 80-percent reduction in noise at idle, is one of the many benefits from the common-rail fuel system
- Enhanced sociability from the high-pressure common-rail design virtually eliminates smoke and improves the whole boating experience
- Maximize vessel performance and access comprehensive vessel diagnostic information via SmartCraft[®] electronics
- Peace of mind delivered by the Cummins Captain's Briefing and global service network



Power Ratings

Rating	kW	МНР	BHP	Rated	Max Torque		Emissions
				RPM	N-m	RPM	
HO/GS	405	550	542	3300	1695	2000	
HO/GS	353	480	473	3300	1580	2000	
HO/ID	312	425	419	3000	1424	2000	
HO/ID	279	380	375	3000	1335	2000	
ID	261	355	349	2800	1150	2000	EPA Tier 3, IMO II, RCD, EU Stage Illa
HO	261	355	350	3000	1150	2000	
HO/MCD	224	305	301	2600	1174	1700	
HO/HD	184	250	247	2600	983	1500	
ID	169	230	227	3000	691	1200	

Ratings and specifications subject to change without notice. Not responsible for typographical errors.

QSB6.7 QUANTUM SERIES ENGINE

Rating	Cooling type	kW	МНР	BHP	Fuel Con	Emissions	
					Rated	Cruise	
					L/hr(gal/hr)	L/hr(gal/hr)	
HO/GS	НХ	405	550	542	110.2(29.1)	80.6(21.3)	
HO/GS	НХ	353	480	473	96.2(25.4)	71.2(18.8)	
HO/ID	НХ	312	425	419	82.2(21.7)	60.4(15.9)	
HO/ID	НХ	279	380	375	73.9(19.5)	55.2(14.6)	
ID	НХ	261	355	349	68.1(18.0	56(14.8)	EPA Tier 3, IMO II, RCD, EU Stage Illa
НО	НХ	261	355	350	67.6(17.9)	51.9(13.7)	
HO/MCD	НХ	224	305	301	55.6(14.7)	45.8(12.1)	
HO/HD	НХ	184	250	247	46.9(12.4)	38.4(10.1)	
ID	НХ	169	230	227	47.3(12.5)	33.8(8.9)	

Fuel Consumption (Prop Curve)

Fuel consumption data represents performance along a 2.7 fixed pitch propeller curve (for HO, ID, MCD, 3.0 for HD and CON ratings). Fuel consumption is based on fuel of 35° API gravity at 16°C (60°F) having an LHV of 42, 780 KJ/KG (18,390 BTU/lb) when used at 29°C (85°F) and weighing 838.9 g/liter (7.001 lb/US gal). Observed horsepower is certified within ±5% of rated horsepower. Consult your local Cummins professional for further information.

Engine Dimensions

Ler	Length W		dth	Hei	ight	Weigh	t (Dry)*
mm	in	mm	in	mm	in	kg	lb
1097	43.1	910	35.8	857	33.74	659	1450

*Length measured from back of flywheel to engine front.

Weight does not include customer specific options (alternator, starter, engine mounts).

Available Accessories

Engine Controls: Digital Throttle and Shift

Instrumentation: SmartCraft[®] 2.5 digital displays standard with Zeus[®], optional as inboard

Vessel System Integration: SmartCraft[®] 2.5 monitors fluid level, vessel range, depth, vessel speed, rudder position, temperatures and more

Ratings Definitions

Heavy Duty (HD): Intended for nearly continuous use in variable load applications, where full power is limited to eight hours out of every ten hours of operation. Also, reduced power operation must be at or below cruise rpm, which is 200 rpm below the maximum rated speed. This rating is for applications operating less than 5000 hours per year.

Medium Continuous (MD): Intended for moderate use in variable load applications, where full power is limited to six hours out of every twelve hours of operation. Also, reduced power operation must be at or below cruise rpm, which is 200 rpm below the maximum rated speed. This rating is for applications operating less than 3000 hours per year.

Intermittent (ID): Intended for intermittent use in variable load applications, where full power is limited to two hours out of every eight hours of operation. Also, reduced power operation must be at or below cruise rpm, which is 200 rpm below the maximum rated speed. This rating is for applications operating less than 1500 hours per year.

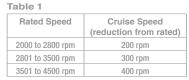
Government Service (GS): Intended for infrequent use in variable load applications, where full power is limited to one hour out of every eight hours of operation. Also, reduced power operation must be at or below cruise speed (rpm). Cruise speed (rpm) is dependent on the engine rated speed (rpm), Refer to Table 1 below. For applications operating less than 500 hours per year. Engines with this rating are restricted to non-revenue generating government service propulsion applications. It is not to be used in any revenue generating commercial applications, nor is it to be used in recreational/pleasure applications

High Output (HO): Intended for infrequent use in variable load applications, where full power is limited to one hour out of every eight hours of operation. Also, reduced power operation must be at or below cruise speed (rpm). Cruise speed (rpm) is dependent on the engine rated speed (rpm), Refer to Table 1 below. For applications operating less than 500 hours per year. Engines with this rating are intended for powering recreational/pleasure use vessels only. Commercial use is defined as any work or employment related use of the product, or any use of the product which generates income, for any part of the warranty period, even if the product is only occasionally used for such purposes.

Rating Conditions: Declared power ratings are based upon ISO 15550 reference conditions/ air pressure of 100kPa (29.612 in Hg) air temperature of 25° C (77°F) and 30% relative humidity. Propeller Shaft Power represents the net power available after typical reverse/reduction gear losses and is 97% of rated power. Power rated in accordance with IMCI procedures.

Ratings and specifications subject to change without notice. Not responsible for typographical errors.





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Cummins Inc.

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QSC8.3 QUANTUM SERIES ENGINE

Features

Fuel System: Cummins High-Pressure Common-Rail; handed spin-on engine mounted fuel filter

Lubrication System: Handed spin-on engine mounted lube filter, cast aluminum oil pan

Electrical System: 12-volt and 24-volt systems available

Coolant System: Sea water heat exchanger cooling system

Emissions: EPA Tier 3, IMOII, and RCD certified, EIAPP and RRR certificate options available

Engine Overview

- Unmatched performance from industry-leading power density on this four-valve-per-cylinder engine
- Increased durability from innovative engine design characteristics
- Improved fuel economy and sociability from the high-pressure common-rail fuel system
- Maximize vessel performance and access comprehensive vessel diagnostic information via SmartCraft[®] electronics
- Peace of mind delivered by the Cummins Captain's Briefing and global service network

Engine Specifications

Configuration	In-line 6-cylinder, 4-stroke diesel
Bore & Stroke	114 mm x 135 mm (4.49 in x 5.31 in)
Displacement	8.3 L (505 in ³)
Aspiration	Turbocharged / Aftercooled
Rotation	Counterclockwise facing flywheel



Power Ratings

Rating	Cooling	kW	МНР	BHP	Rated RPM	Max Torque		Emissions	
	type					N-m	RPM		
HO	НХ	441	600	592	3000	1799	1800		
GS	НХ	441	600	592	2800	1799	1800	EPA Tier 3, IMO II, RCD, EU Stage Illa	
HO	НХ	4	550	543	3000	1799	1800		
HO/ID	НХ	368	500	493	2600	1799	1800		
HO	НХ	441	600	593	3000	1799	1800		
GS	НХ	441	600	593	3000	1799	1800	EPA Tier 2, IMO II, RCD, EU Stage Illa	
HO	НХ	404	550	543	3000	1799	1800		
H0/ID	HX	368	500	493	2600	1799	1800		

Ratings and specifications subject to change without notice. Not responsible for typographical errors.

QSC8.3 QUANTUM SERIES ENGINE

Fuel Consumption (Prop Curve)

Rating	kW	MHP	BHP	Fuel Co	nsumption	Emissions
				Rated L/hr(gal/hr)	Cruise L/hr(gal/hr)	
НО	441	600	592	122.7(32.4)	88.8(23.4)	
GS	441	600	592	123(32.4)	85.4(22.5)	EPA Tier 3, IMO II, RCD, EU Stage IIIa
HO	4	550	543	113(29.9)	82.2(21.7)	
HO/ID	368	500	493	96(25.4)	76.2(20.1)	
HO/GS	441	600	593	123.1(32.5)	83.7(22.1)	
HO	404	550	543	112.7(29.8)	80.3(21.2)	EPA Tier 2, IMO II, RCD, EU Stage Illa
HO/ID	368	500	493	96.1(25.4)	76.1(20.1)	

Fuel consumption data represents performance along a 2.7 fixed pitch propeller curve (for HO, ID, MCD, 3.0 for HD and CON ratings). Fuel consumption is based on fuel of 35° API gravity at 16° C (60° F) having an LHV of 42, 780 KJ/KG (18,390 BTU/lb) when used at 29° C (85° F) and weighing 838.9 g/liter (7.001 lb/US gal). Observed horsepower is certified within $\pm 5\%$ of rated horsepower. Consult your local Cummins professional for further information.

Engine Dimensions

Ler	Length Wi		Width He		ight	Weight (Dry)*	
mm	in	mm	in	mm	in	kg	lb
1174	46.2	839	33	982	38.7	896	1975
-							

*Does not include exhaust connection. Weights vary by rating.

Available Accessories

Engine Controls: Digital Throttle and Shift; Electronic Throttle and Shift (ETS) and optional potentiometer for mechanical controls

Instrumentation: SmartCraft[®] 2.5 digital displays and/or analog gauges provide data on engine speed, oil pressure, engine load and more

Vessel System Integration: SmartCraft[®] 2.5 monitors fluid level, vessel range, depth, vessel speed, rudder position, temperatures and more



Ratings Definitions

Intermittent (ID): Intended for intermittent use in variable load applications, where full power is limited to two hours out of every eight hours of operation. Also, reduced power operation must be at or below cruise rpm, which is 200 rpm below the maximum rated speed. This rating is for applications operating less than 1500 hours per year.

Government Service (GS): Intended for infrequent use in variable load applications, where full power is limited to one hour out of every eight hours of operation. Also, reduced power operation must be at or below cruise speed (rpm). Cruise speed (rpm) is dependent on the engine rated speed (rpm), Refer to Table 1 below. For applications operating less than 500 hours per year. Engines with this rating are restricted to non-revenue generating government service propulsion applications. It is not to be used in any revenue generating commercial applications, nor is it to be used in recreational/pleasure applications

High Output (HO): Intended for infrequent use in variable load applications, where full power is limited to one hour out of every eight hours of operation. Also, reduced power operation must be at or below cruise speed (rpm). Cruise speed (rpm) is dependent on the engine rated speed (rpm), Refer to Table 1 below. For applications operating less than 500 hours per year. Engines with this rating are intended for powering recreational/pleasure use vessels only. Commercial use is defined as any work or employment related use of the product, or any use of the product which generates income, for any part of the warranty period, even if the product is only occasionally used for such purposes. Table 1

Rating Conditions: Declared power ratings are based upon ISO 15550 reference conditions/ air pressure of 100kPa (29.612 in Hg) air temperature of 25° C (77°F) and 30% relative humidity. Propeller Shaft Power represents the net power available after typical reverse/reduction gear losses and is 97% of rated power. Power rated in accordance with IMCI procedures.

Table 1	
Rated Speed	Cruise Speed
	(reduction from rated)
2000 to 2800 rpm	200 rpm
2801 to 3500 rpm	300 rpm
3501 to 4500 rpm	400 rpm

Ratings and specifications subject to change without notice. Not responsible for typographical errors.



Cummins Inc. 4500 Leeds Avenue - Suite 301 Charleston, SC 29405-8539

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QSL9 QUANTUM SERIES ENGINE

Features

Fuel System: Cummins XPI fuel System; handed spin-on Fleetguard fuel filter

Lubrication System: Handed spin-on Fleetguard lube filter

Electrical System: 12-volt and 24-volt systems available

Coolant System: Sea water heat exchanger cooling system; Keel cooled system available

Emissions: EPA Tier 3, IMOII, and RCD Certified

Engine Specifications

Configuration	In-line 6-cylinder, 4-stroke diesel
Bore & Stroke	114 mm x 145 mm (4.49 in x 5.71 in)
Displacement	8.9 L (542 in ³)
Aspiration	Turbocharged / Aftercooled
Rotation	Counterclockwise facing flywheel

Engine Dimensions

Ler	Length W		dth	Hei	Height		nt (Dry)*
mm	in	mm	in	mm	in	kg	lb
1174	46.2	842	33.2	1086	42.8	9.7	2000

*Does not include exhaust connection. Weights vary by rating.

Engine Overview

- Dependability and long life proven through thousands of hours of reliable commercial and trawler operation
- Clean, quiet operation with virtually no startup smoke from the high-pressure common-rail fuel system
- Excellent fuel economy for long range cruising
- Peace of mind delivered by the Cummins Captain's Briefing and global service network



Power Ratings

Rating	kW	МНР	BHP	Rated RPM	Max Torque		Emissions
					N-m	RPM	
HO/MCD	302	410	405	2100	1575	1400	
HD	246	335	330	1800	1575	1400	EPA Tier 3, IMO II, RCD, EU Stage Illa
CO	213	290	285	1800	1443	1300	
HO/MCD	298	405	400	2100	1619	1400	
HO/HD	243	330	326	1800	1553	1400	IMO II, RCD, EU Stage Illa
HO/CD	209	285	281	1800	1332	1400	

Ratings and specifications subject to change without notice. Not responsible for typographical errors.

QSL9 QUANTUM SERIES ENGINE

Fuel Consumption (Prop Curve)

Rating	Cooling	kW	МНР	BHP	Fuel Consumption		Emissions	
	type				Rated (L/hr(gal/hr)	Cruise L/hr(gal/hr)		
MCD	НХ	302	410	405	79(20.8)	39.4(10.4)		
НО	НХ	302	410	405	78.7(20.8) 43.2(11.4)		EPA Tier 3, IMO II, RCD, EU Stage IIIa	
HD	НХ	246	335	330	63(16.7)	43.7(11.5)		
CO	НХ	213	290	285	53(14.1)	38(10)		
HO/MCD	НХ	298	405	400	80(21.1)	41.4(10.9)		
H0/HD	НХ	243	330	326	62(16.3)	44.3(11.7)	IMO II, RCD, EU Stage IIIa	
HO/CD	НХ	209	285	281	54(14.4)	37.9(10)		

Fuel consumption data represents performance along a 2.7 fixed pitch propeller curve (for HO, ID, MCD, 3.0 for HD and CON ratings). Fuel consumption is based on fuel of 35° API gravity at 16°C (60°F) having an LHV of 42, 780 KJ/KG (18,390 BTU/lb) when used at 29°C (85°F) and weighing 838.9 g/liter (7.001 lb/US gal). Observed horsepower is certified within ±5% of rated horsepower. Consult your local Cummins professional for further information.

Available Accessories

Air Intake System: Light duty or servicable type air cleaner

Engine Controls: Digital Throttle and Shift; Electronic Throttle and Shift (ETS) and optional potentiometer for mechanical controls

Instrumentation: SmartCraft® 2.5 digital displays and/or analog gauges provide data on engine speed, oil pressure, engine load and more

Vessel System Integration: SmartCraft® 2.5 monitors fluid level, vessel range, depth, vessel speed, rudder position, temperatures and more

Accessory Drive Pulley: Single and dual groove for FPTO

Hydraulic pump drive: SAE A or SAE B flange

Wet and Dry exhaust connections

Ratings Definitions

Continuous (CD): Intended for use in applications requiring uninterrupted and unlimited service at full power.

Heavy Duty (HD): Intended for nearly continuous use in variable load applications, where full power is limited to eight hours out of every ten hours of operation. Also, reduced power operation must be at or below cruise rpm, which is 200 rpm below the maximum rated speed. This rating is for applications operating less than 5000 hours per year.

Medium Continuous (MD): Intended for moderate use in variable load applications, where full power is limited to six hours out of every twelve hours of operation. Also, reduced power operation must be at or below cruise rpm, which is 200 rpm below the maximum rated speed. This rating is for applications operating less than 3000 hours per year.

Intermittent (ID): Intended for intermittent use in variable load applications, where full power is limited to two hours out of every eight hours of operation. Also, reduced power operation must be at or below cruise rpm, which is 200 rpm below the maximum rated speed. This rating is for applications operating less than 1500 hours per year.

High Output (HO): Intended for infrequent use in variable load applications, where full power is limited to one hour out of every eight hours of operation. Also, reduced power operation must be at or below cruise speed (rpm). Cruise speed (rpm) is dependent on the engine rated speed (rpm), Refer to Table 1 below. For applications operating less than 500 hours per year. Engines with this rating are intended for powering recreational/pleasure use vessels only. Commercial use is defined as any work or employment related use of the product, or any use of the product which generates Table 1

income, for any part of the warranty period, even if the product is only occasionally used for such purposes.

Rating Conditions: Declared power ratings are based upon ISO 15550 reference conditions/ air pressure of 100kPa (29.612 in Hg) air temperature of 25° C (77°F) and 30% relative humidity. Propeller Shaft Power represents the net power available after typical reverse/reduction gear losses and is 97% of rated power. Power rated in accordance with IMCI procedures.

Ratings and specifications subject to change without notice. Not responsible for typographical errors.



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Rated Speed

2000 to 2800 rpm

2801 to 3500 rpm

3501 to 4500 rpm

Cruise Speed (reduction from rated)

200 rpm

300 rpm

400 rpm





QSM11 QUANTUM SERIES ENGINE

Features

Fuel System: Cummins Celect, a full authority electronic unit injection fuel system optimizes combustion for increased engine performance and fuel efficient operation

Lubrication System: Cast aluminum oil pan designed to resist corrosion, spin-on Fleetguard oil filters

Electrical System: 12-volt and 24-volt systems available, marine grade wiring harness and instrument panels

Cooling System: Low profile, heat exchanger configuration with standard closed crankcase ventilation system

Air System: Cummins Turbo Technologies turbocharger optimized for marine applications. Marine grade air filter. Large capacity sea water aftercooler

Emissions Certified: EPA Tier 3, IMOII, and RCD certified

Marine Society Certification: ABS, LR, DNV, BV, CCS, KR approval certificates available on commercial ratings

Engine Specifications

Configuration	In-line 6-cylinder, 4-stroke diesel
Bore & Stroke	125 mm x 147 mm (4.92 in x 5.79 in)
Displacement	10.8 L (661 in ³)
Aspiration	Turbocharged / Aftercooled
Rotation	Counterclockwise facing flywheel

Power Ratings

Engine Overview

- Proven acceleration and torque performance in thousands of boats from this dependable, four-valveper-cylinder workhorse
- Quiet and fuel efficient operation from innovative fourcycle design
- Excellent, virtually smoke-free sociability ensures a pleasurable boating experience
- Extended engine life from heavy-duty design elements
- Peace of mind delivered by the Cummins Captain's Briefing and global service network



Rating	Cooling type	kW	MHP	BHP	Rated RPM	Max Torque		Emissions
						N-m	RPM	
HO/GS	НХ	526	715	705	2500	2373	1700	
HO/GS	НХ	493	670	661	2300	2373	1700	EPA Tier 3, IMO II, and RCD
HO/ID	НХ	449	610	602	2300	2135	1700	
HO/GS	НХ	526	715	705	2500	2373	1700	
HO/GS	НХ	493	670	661	2300	2373	1700	IMO II, and RCD
НО	НХ	474	645	636	2300	2373	1700	
HO/ID	НХ	449	610	602	2300	2373	1700	
HO/MD	НХ	386	455	450	2100	1966	1400	
HO/HD	НХ	298	405	400	2100	1822	1300	IMO II, RCD, EU Stage IIIa
HO/CD	НХ	261	355	350	1800	1695	1200	
HO/CD	НХ	220	300	295	1800	1573	1200	

Ratings and specifications subject to change without notice. Not responsible for typographical errors.

QSM11 QUANTUM SERIES ENGINE

Fuel Consumption

Rating	Cooling type	kW	MHP	BHP	Fuel Consumption		Emissions
					Rated L/hr(gal/hr)	Cruise L/hr(gal/hr)	
HO/GS	НХ	526	715	705	142.7(37.7)	102.9(27.2)	
HO/GS	НХ	493	670	661	127.9(33.8)	91.0(24.0)	EPA Tier 3, IMO II, and RCD
HO/ID	НХ	449	610	602	112(29.7)	82.6(21.8)	
HO/GS	НХ	526	715	705	142.7(37.7)	110.2(29.1)	
HO/GS	НХ	493	670	661	128(33.8)	93.4(24.7)	IMO II, and RCD
HO	НХ	474	645	636	128(33.8)	79.7(21.1)	
HO/ID	НХ	449	610	602	117(30.8)	84.3(22.3)	
HO/MD	НХ	386	455	450	87.6(23.1)	64.6(17.1)	
HO/HD	НХ	298	405	400	75.2(19.9)	56.2(14.8)	IMO II, RCD, EU Stage Illa
HO/CD	НХ	261	355	350	65.3(17.2)	47(12.4)	
HO/CD	НХ	220	300	295	55.2(14.6)	40.3(10.6)	

Fuel consumption data represents performance along a 2.7 fixed pitch propeller curve (for HO, ID, MCD, 3.0 for HD and CON ratings). Fuel consumption is based on fuel of 35° API gravity at 16°C (60°F) having an LHV of 42, 780 KJ/KG (18,390 BTU/lb) when used at 29°C (85°F) and weighing 838.9 g/liter (7.001 lb/US gal). Observed horsepower is certified within ±5% of rated horsepower. Consult your local Cummins professional for further information.

Engine Dimensions 715, 670, 645, 610

Ler	Length		Width		ight	Weight (Dry)*	
mm	in	mm	in	mm	in	kg	lb
1328	43.15	1079.8	42.5	1012	39.9	1188	2620
*Does not include exhaust connection. Weights vary by rating. Length to							

*Does not include exhaust connection. Weights vary by rating. Length to flywheel housing.

Available Accessories

Engine Controls: Digital Throttle and Shift; Electronic Throttle and Shift (ETS) and optional potentiometer for mechanical controls

Instrumentation: SmartCraft $^{\circ}$ 2.5 digital displays and/or analog gauges provide data on engine speed, oil pressure, engine load and more

Vessel System Integration: SmartCraft^ $^{\otimes}$ 2.5 monitors fluid level, vessel range, depth, vessel speed, rudder position, temperatures and more

Accessory Drive Pulley: Belt or gear driven

Hydraulic Pump Drive: SAE A or SAE B flange Wet and Dry Exhaust Connections

Ratings Definitions

Continuous (CD): Intended for use in applications requiring uninterrupted and unlimited service at full power.

Heavy Duty (HD): Intended for nearly continuous use in variable load applications, where full power is limited to eight hours out of every ten hours of operation. Also, reduced power operation must be at or below cruise rpm, which is 200 rpm below the maximum rated speed. This rating is for applications operating less than 5000 hours per year.

Medium Continuous (MD): Intended for moderate use in variable load applications, where full power is limited to six hours out of every twelve hours of operation. Also, reduced power operation must be at or below cruise rpm, which is 200 rpm below the maximum rated speed. This rating is for applications operating less than 3000 hours per year.

Intermittent (ID): Intended for intermittent use in variable load applications, where full power is limited to two hours out of every eight hours of operation. Also, reduced power operation must be at or below cruise rpm, which is 200 rpm below the maximum rated speed. This rating is for applications operating less than 1500 hours per year.

Government Service (GS): Intended for infrequent use in variable load applications, where full power is limited to one hour out of every eight hours of operation. Also, reduced power operation must be at or below cruise speed (rpm). Cruise speed (rpm) is dependent on the engine rated speed (rpm), Refer to Table 1 below. For applications operating less than 500 hours per year. Engines with this rating are restricted to non-revenue generating government service propulsion applications. It is not to be used in any revenue generating commercial applications, nor is it to be used in recreational/pleasure applications

High Output (HO): Intended for infrequent use in variable load applications, where full power is limited to one hour out of every eight hours of operation. Also, reduced power operation must be at or below cruise speed (rpm). Cruise speed (rpm) is dependent on the engine rated speed (rpm), Refer to Table 1 below. For applications operating less than 500 hours per year. Engines with this rating are intended for powering recreational/pleasure use vessels only.

Commercial use is defined as any work or employment related use of the product, or any use of the product which generates income, for any part of the warranty period, even if the product is only occasionally used for such purposes.

Rating Conditions: Declared power ratings are based upon ISO 15550 reference conditions/ air pressure of 100kPa (29.612 in Hg) air temperature of 25° C (77°F) and 30% relative humidity. Propeller Shaft Power represents the net power available after typical reverse/reduction gear losses and is 97% of rated power. Power rated in accordance with IMCI procedures.

Rated Speed	Cruise Speed (reduction from rated)
2000 to 2800 rpm	200 rpm
2801 to 3500 rpm	300 rpm
3501 to 4500 rpm	400 rpm

Ratings and specifications subject to change without notice. Not responsible for typographical errors.



 3501 to 4500 rpm
 40

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 501

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Table 1

Engine Din	nensions	455, 405, 3	355, 300
Length	Width	Height	Weight (Dr

Length		Width		Height		Weight (Dry)*	
mm	in	mm	in	mm	in	kg	lb
1289.7	50.78	973.7	38.34	1142.8	44.99	1184	2610
*Does not include exhaust connection. Weights vary by rating.							





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It isn't a repower option, IT'S THE REPOWER SOLUTION.

Get back on the water fast, at a price you can afford, with the peace of mind that comes with a Cummins solution. ReCon engines offer a combination of reliability, performance, service network, warranty and price that is simply unmatched.

Every ReCon engine is completely disassembled down to the last nut and bolt, thoroughly cleaned, inspected and replaced with new parts as needed. Critical wear parts such as rings, bearings, seals and gaskets are replaced with genuine new Cummins parts. After final assembly, computerized engine test cells guarantee like-new performance.

- Commercial and Recreational engine applications
- A wide variety of engines in stock for fast turnaround
- 100% Genuine new or remanufactured Cummins parts for highest quality
- Exchange packages to replace like Cummins units, Repower packages to replace ANY brand in virtually any boat
- No-hassle core acceptance
- Two-year, 2000-hour warranty on all models (extended coverage plans also available)

Every Application. Total Confidence.

Give your boat new life: more power, cleaner emissions and better fuel economy. To get ReCon engines in your boat, contact your local Cummins Dealer or Distributor.



ReCon Engines

PART NO.	DESCRIPTION R indicates Repower content, X indicates Exchange	EMISSIONS
DR6503-RX	4BT T0 M 150/155@2800 ID/HO R	None
DR6056-RX	6BT T0 M 122@1800 S	None
DR6721-RX	6BT T0 M 152@2500 MD R 24V KC	None
DR1505-RX	6BT T0 M 180@2500 MD S 24V	None
DR6512-RX	6BT T1 M 210/220@2600 ID/HO X	IMO Tier I, RCD
DR6055-RX	6BT T1 M 210/220@2600 ID/HO S 24V	IMO Tier I, RCD
DR6500-RX	6BT T1 M 210/220@2600 ID/HO R	IMO Tier I, RCD
DR6472-RX	6BT T1 M 210/220@2600 ID/HO R 24V	IMO Tier I, RCD
DR6746-RX	6BT T1 M 210/220@2600 ID/HO R KC	IMO Tier I, RCD
DR991-RX	6BTA T0 M 250@2600 HO X	None
DR6509-RX	6BTA T1 M 260/270@2600 ID/HO X	IMO Tier I, RCD
DR6510-RX	6BTA T1 M 260/270@2600 ID/HO R	IMO Tier I, RCD
DR6486-RX	6BTA T1 M 260@2600 ID R KC	IMO Tier I, RCD
DR6745-RX	6BTA T0 M 300@2800 HO S 24V	None
DR6488-RX	6BTA T1 M 315/330@2800 ID/HO X	IMO Tier I, RCD
DR6489-RX	6BTA T1 M 315/330@2800 ID/HO R	IMO Tier I, RCD
DR6487-RX	6BTA T1 M 315/330@2800 ID/HO R 24V	IMO Tier I, RCD
DR6502-RX	6BTA T1 M 370@3000 HO X	IMO Tier I, RCD
DR6491-RX	6BTA T1 M 370@3000 HO R	IMO Tier I, RCD
DR6294-RX	6CTA T0 M 300@2500 MD R KC	None
DR6474-RX	6CTA T1 M 430/450@2600 ID/HO X	IMO Tier I, RCD
DR6508-RX	6CTA T1 M 430/450@2600 ID/HO R	IMO Tier I, RCD
DR6473-RX	6CTA T1 M 430/450@2600 ID/HO R 24V	IMO Tier I, RCD
DR1660-RX	BC1 NTA855M T0 350@1800 CD X	None
DR6496-RX	QSB T2 M 380@3000 HO R (DR6496-RX is also deratable to: 355@2800 ID, 330@2800 HO, 305@2600 MD, 230@2600 HD)	EPA Tier 2 Compliant
DR6587-RX	QSB T2 M 480@3400 HO R (DR6587-RX is also deratable to 440@3400 HO)	EPA Tier 2 Compliant
DR6497-RX	QSC T2 M 600@3000 HO R (DR6497-RX is also deratable to: 550@3000 HO, 500@2600 ID)	EPA Tier 2 Compliant
DR6744-RX	QSM11 T2 M 455@2100 MD R 24V KC (DR6744-RX is also deratable to: 405@2100 HD, 355@1800 CD, 300@1800 CD)	EPA Tier 2 Compliant
DR6504-RX	QSM11 T2 M 670@2300 HO X (DR6504-RX is also deratable to: 645@2300 HO, 610@2300 ID)	EPA Tier 2 Compliant
DR6498-RX	QSM11 T2 M 670@2300 HO R (DR6498-RX is also deratable to: 645@2300 HO, 610@2300 ID)	EPA Tier 2 Compliant



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Cummins Care









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Cummins takes customer assistance to a whole new level for our Marine customers. When you call Cummins Care, you will be speaking with a Cummins Marine Specialist who has knowledge of your Cummins propulsion system. Whether you have a question about engine operation or you need repair event management assistance, your Cummins Care representative will find the right answers, right away.

Every Hour. Every Day.

Cummins Care is available 24 hours a day, 7 days a week, 365 days a year because we know that there's no convenient time for downtime. Cummins Care Marine Specialists are ready whenever you need to call.



Every Type of Propulsion Package.

It doesn't matter whether you own a pleasure cruiser with pods or conventional shaft driven sport fishing boat, the Marine Specialists at Cummins Care are there for you. Have a question regarding how your engine is operating or how to best maintain your engine for optimal performance? We've got the answers on everything from fuel and oil specifications to engine specific maintenance intervals. And rest assured, whether you own one engine or several hundred, every caller gets the same commitment to service excellence.

Your Local Connection. Everywhere.

When you're away from home and need engine service, how do you know where to go? Just call Cummins Care and let a Marine Specialist do the rest. They will offer to check with nearby authorized Cummins distributors and dealers to locate a facility with an available technician and the right diagnostic and repair tools to handle your equipment issue.

On Call. Every Repair.

When you need it, a Cummins Care Marine Specialist will be on hand to help you navigate through the repair event process. From locating specific parts to keeping you informed on the repair event status, you can count on your Cummins Care Marine Specialist to be your advocate throughout the entire repair.

Expert Help by Land and Sea.

One of the greatest advantages of owning a Cummins engine is having access to the biggest and best service network around. Our authorized service centers have personnel who are trained and have the necessary equipment and Genuine Cummins Parts to promptly handle any type of service issue. Since hauling your vessel to a service location is not always easy, Cummins Care Marine Specialists will also work with certified repair locations to coordinate on-site technical support if needed.

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