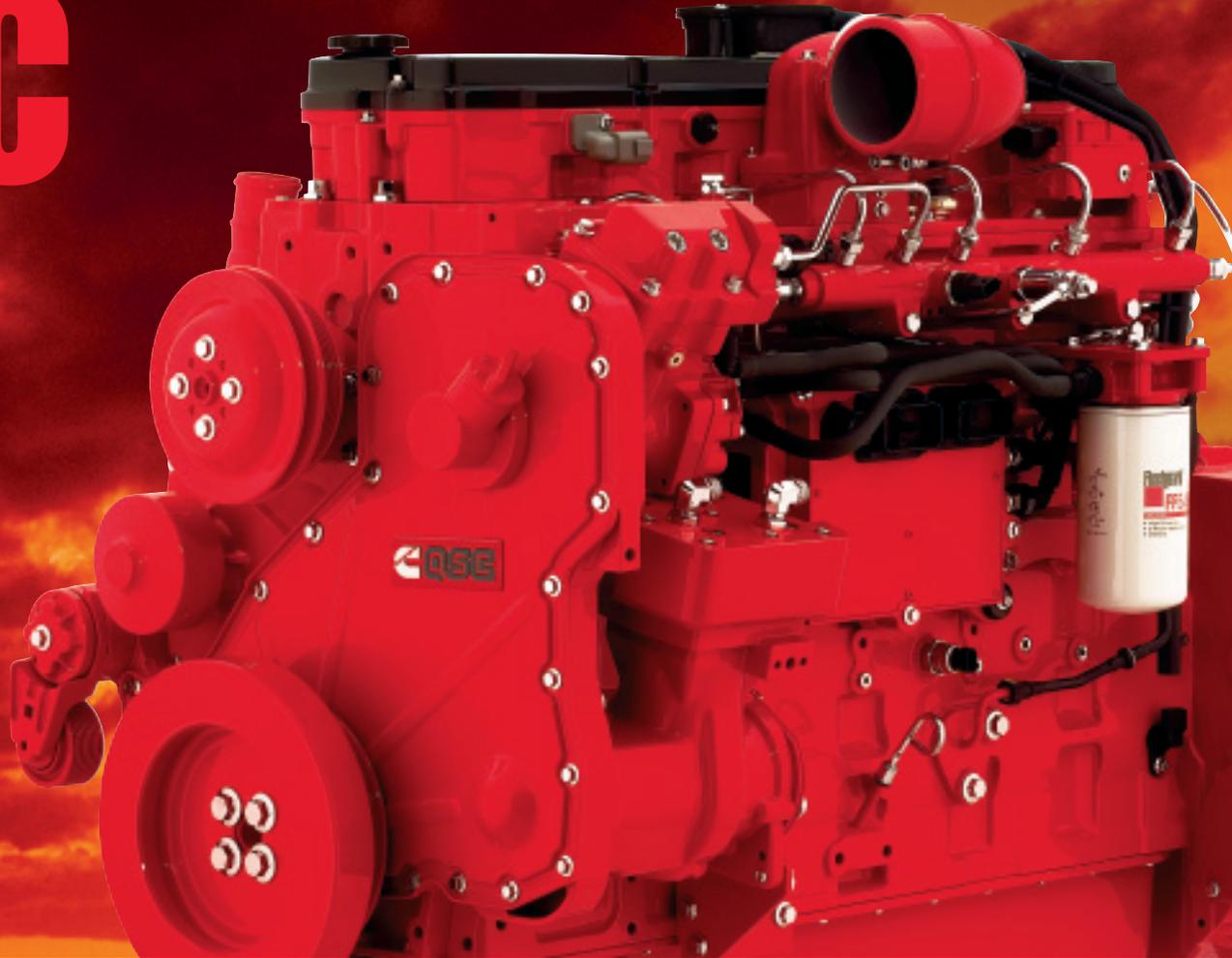




EVERYTM SITE.

QSC



**FOR INDUSTRIAL APPLICATIONS
TIER 3/STAGE IIIA**

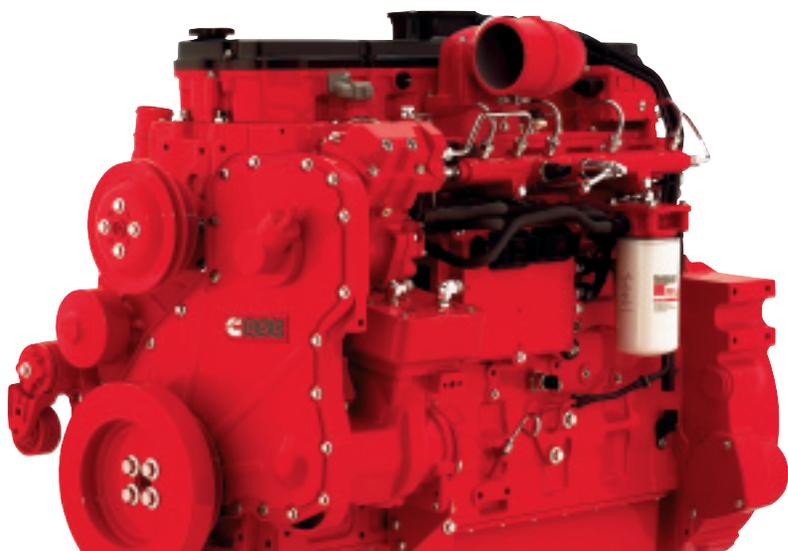
FOR INDUSTRIAL APPLICATIONS.



The world is full of uncertainties, from weather predictions to economic forecasts. But you can always count on Cummins QSC-powered equipment to pull you through. Cummins QSC engines are built on one of the world's most successful – and durable – engine block designs. In fact, there are over three quarters of a million in use around the globe every day.

The QSC advanced electronics provide enhanced engine performance with higher torque and better throttle response at every rpm. Electronic engine control provides additional advantages that include increased fuel economy, precision diagnostics and engine protection. And the impressive durability of the QSC is enhanced by long maintenance intervals, improved cold starting plus up to 50% quieter operation for improved operator comfort.

The QSC meets every Tier 3/Stage IIIA emissions standard without compromise. There's no fuel economy penalty when compared to Tier 2 mechanical engines. Plus, its in-cylinder solution is simpler than other alternatives, giving the QSC the capability to meet Tier 4/Stage IV emissions with the addition of aftertreatment. With its ideal combination of electronic controls and durable block design, the QSC is ready to meet every one of your toughest applications.



Ratings

ENGINE MODEL	ADVERTISED HP (KW) @ RPM	PEAK HP (KW) @ RPM	PEAK TORQUE LB-FT (N•M) @ RPM
QSC 305	305 (227) @ 2200	333 (248) @ 2000	1020 (1383) @ 1500
QSC 305	305 (227) @ 2100	320 (239) @ 1900	1020 (1383) @ 1500
QSC 300	300 (224) @ 2200	333 (248) @ 2000	1000 (1356) @ 1500
QSC 300	300 (224) @ 2100	320 (239) @ 1900	1000 (1356) @ 1500
QSC 290	290 (216) @ 2200	310 (231) @ 2000	940 (1274) @ 1500
QSC 280	280 (209) @ 2200	300 (224) @ 2000	1000 (1356) @ 1500
QSC 280	280 (209) @ 2100	300 (224) @ 1900	1000 (1356) @ 1500
QSC 275	275 (205) @ 2200	290 (216) @ 2000	895 (1213) @ 1500
QSC 260	260 (194) @ 2200	280 (209) @ 2000	870 (1180) @ 1500
QSC 250	250 (186) @ 2200	265 (198) @ 2000	830 (1125) @ 1500
QSC 245	245 (183) @ 2200	278 (207) @ 2000	857 (1162) @ 1500
QSC 245	245 (183) @ 2000	280 (209) @ 1800	935 (1268) @ 1400
QSC 240	240 (179) @ 2200	260 (194) @ 2200	800 (1085) @ 1500
QSC 230	230 (172) @ 2200	250 (186) @ 2000	800 (1085) @ 1500
QSC 215	215 (160) @ 2200	230 (172) @ 2000	675 (915) @ 1500

All ratings are intermittent unless otherwise noted. Additional ratings may be available. Check with your Cummins distributor or dealer.

Specifications

ENGINE TYPE	IN-LINE, 6-CYLINDER	
DISPLACEMENT	506 CU IN	8.3 L*
ADVERTISED HORSEPOWER	215-305 HP	160-227 kW
PEAK POWER	230-333 HP	172-248 kW
PEAK TORQUE	675-1020 LB-FT	915-1383 N•M
BORE AND STROKE	4.49 IN X 5.31 IN	114 MM X 135 MM
ASPIRATION	TURBOCHARGED AND CHARGE AIR COOLED	
OIL SYSTEM CAPACITY	21 U.S. QT	19.9 L*
COOLANT CAPACITY	11 U.S. QT	10.4 L*
LENGTH	44.4 IN	1128 MM
WIDTH	30.9 IN	785 MM
HEIGHT	41.8 IN	1062 MM
WET WEIGHT	1,594 LB	723 KG

*L = LITERS/LITRES

Features And Benefits.

Standard features include:

- Full-Authority Electronic Controls – Provide seamless integration with other components to optimize engine operation.
- Stiffer Block and Head – For reduced noise and vibration. Fluid circuits are integrated, replacing hoses and eliminating potential leaks.
- High Pressure Common Rail Fuel System – Allows multiple injection events for cleaner, quieter operation with consistent performance at every rpm. Also improves cold-weather starting.
- Wastegated Turbocharger – Delivers maximum power and torque.
- Mid-Stop Cylinder Liners – Reduce cavitation and improve rebuildability.
- Auto-Tensioning Belt Drive – Self-adjusting for optimum tension, which increases fan, alternator and fan belt life.
- Heavy-Duty Roller Followers – Cam roller followers give the QSC superior durability and cam life.



- Two-Stage Dual Fuel Filtration – Provides a balanced level of particle separation to maximize fuel filter life and protect the vital fuel system components.
- Gear Housing Design and Front-End Support – The gear housing and accessories mount directly to the block for improved durability.
- Improved Piston Design – Symmetrical piston bowl combines with centered injectors to deliver optimal combustion.
- Heavy-Duty Lube System – Targeted piston cooling and increased lube flow to the power cylinder result in increased piston reliability and durability. Improved lube and bypass filtration system increase ring and bearing life by as much as 63%.
- Improved Crankcase Ventilation – Virtually eliminates oil carryover.
- Valve Cover and Gasket – Isolated design with perimeter bolting for better sealing and improved reliability.

Options.

- 12- or 24-volt electrical capacity.
- Front-mount accessory drive option available for hydraulic pumps or air compressors.
- Rear Engine Power Take-Off (REPTO) available for hydraulic pumps or air compressors.

Performance.

The QSC 24-valve cylinder head, High Pressure Common Rail (HPCR) fuel system and robust electronic controls make for a completely programmable, highly durable, highly fuel-efficient power plant. With one of the highest power-to-weight ratios and lowest cost of operation of any engine in its class. And ratings that range from 215-305 hp (160-227 kW) to deliver the power and the versatility you need to match your equipment. Every time.

Maintenance And Service.

Minimum maintenance has been designed into every QSC engine. A two-stage dual fuel filter approach consisting of a 10-micron filter and a pressure-side 3-micron filter maximizes fuel filter life. An integrated water pump, lube pump, and cooler housings and coolant bypass eliminate possible leak points. QSC engines are designed to run up to 500 hours between scheduled fuel and oil filter changes.

Every Installation.

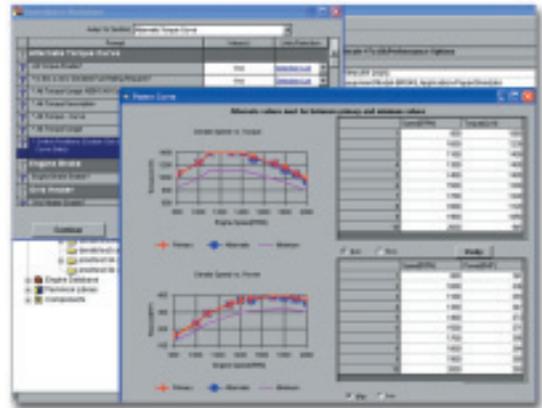
Getting every installation right – the first time – is as important to Cummins as it is to you. PowerMatch and Advisor help ensure that we get it right, every time.

Cummins Advisor.

Getting every installation right is what Cummins Advisor is all about. Advisor puts a virtual engineer on the OEM team, allowing the OEM to focus on machine requirements instead of engine requirements. This shortens engineering cycle times and cost.

Cummins Advisor models equipment installation for exceptional productivity, reliability and durability.

After a comprehensive review of load factors, climates, duty cycle and equipment usage, Advisor recommends the best engine and rating match for the equipment and operating conditions. It then builds a virtual model of the intake, exhaust, cooling, fuel and mounting systems. When Advisor identifies an issue, it lists acceptable alternatives. This approach allows changes while the equipment design is still “on paper,” ensuring optimum performance while minimizing costs – every time.



Cummins PowerMatch.

PowerMatch helps OEMs optimize engine performance so you can lower fuel consumption, increase operator satisfaction, improve equipment life and protect the customer's investment. PowerMatch tailors engine performance to specific equipment models and applications. Advanced electronics are used to enhance power curves and trim ratings, matching the job the equipment will be doing while taking into account variables such as work environment, load factors, ambient temperature and altitude.

PowerMatch can also be used to create a unique torque curve, set up alternate torque curves, alternate governor settings or set up engine protection features. Turn on the Boost Power feature, and the equipment user gets an extra burst of power needed to get through tough spots – but only for as long as needed – so fuel economy and durability are not compromised. Because PowerMatch allows for immediate field-testing of new calibrations, application engineers can quickly develop the optimum calibration for every customer.



QuickServe® Online.

As a Cummins owner, you have access to one of the most comprehensive and powerful parts and service tools in the industry – Cummins QuickServe Online.

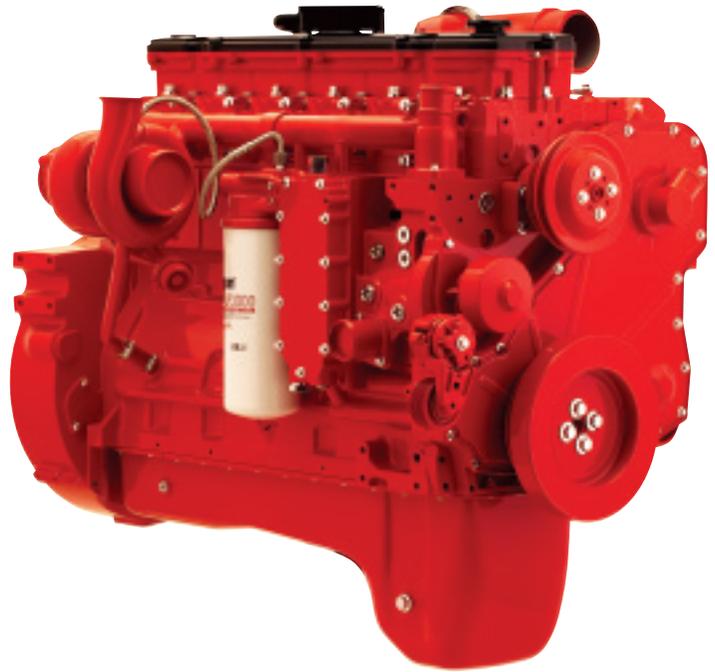
This is the same web site used by Cummins certified technicians to get parts and service information about your engine. And while it contains parts and service data for 8 million engines, finding the information for your QSC engine takes just seconds.

The first step is to register your engine (free). Enter the engine serial number listed on your data plate and you will be able to view an online Owner's Manual, the parts catalog for your engine, engine data plate information and more. QuickServe Online even gives exploded parts diagrams to help with identification of components in subassemblies.

For an annual subscription fee you can become a "Preferred Customer" with access to a cross-reference of Cummins ReCon® parts, service bulletins and the latest repair procedures.

Preferred Customers can use the shopping cart feature to view price and availability of the parts you need at your nearest Cummins distributor. Contact information is available online so you can review your parts list with a Cummins distributor and make sure you have every part you need to complete your engine repair.

To register, visit <http://quickservice.cummins.com>.



INSITE™ And INFORM.™

Cummins INSITE software makes every service technician's job easier. Not only does it include step-by-step engine diagnostics, it includes built-in drawings and diagrams to improve troubleshooting and repair accuracy.

INFORM extracts raw data from your ECM and converts it into useful reports on everything from fuel use to operator performance. It creates exception and comparison reports, and even lets you break the data down by fleet, subfleet, operator, equipment and time period. This detailed analysis can help you improve efficiency, reliability and safety.



Base Warranty.

QSC engines come with a full 2-year/2,000-hour warranty that covers all Cummins branded components, including electrics such as starters and alternators. Major components coverage continues into the third year, up to 10,000 hours of operation from the time your QSC engine goes in service.

Three simple steps explain everything you need to know:

Step One: Full coverage on all Cummins industrial engines and branded components with unlimited hours during the first year of operation. This includes Cummins branded electrics such as alternators, starters, etc.

Step Two: Full coverage is extended for the second year, up to 2,000 hours of operation. Total hours are cumulative from the time the engine goes in service.

Step Three: Major components coverage including block, crankshaft, camshaft and rods on all products for the third year or up to 10,000 hours of operation. Total hours are cumulative from the time the engine goes in service.

Encompass Extended Coverage.

Unlike plans offered by other diesel manufacturers, Encompass gives you a choice of plans that include parts only, parts and labor, or parts, labor and travel coverage. Encompass protection plans are available for your QSC engine with your choice of up to 5 years of extended coverage with unlimited hours. 5-year to 7-year coverage is available for up to 6,000 hours of operation.

These plans cover all Cummins-manufactured components. Maintenance components are included through the end of the third year.

Encompass protection plans may be purchased up to six months after the in-service date of your QSC engine. See your Cummins distributor for pricing. For additional details, ask to see Bulletin 3624570.

A \$200 deductible applies per service visit after the expiration of the base warranty.



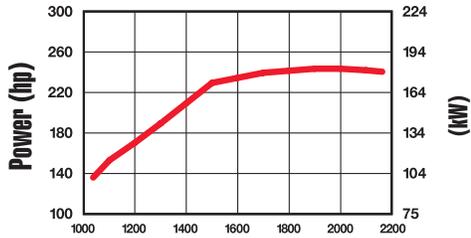
Every Question. Answered.

- Service Network – Cummins engines are backed by the strength of Cummins global network of over 5,500 service locations worldwide.
- Customer Assistance Center – For technical assistance and service locations, call 1-800-DIESELS (1-800-343-7357). For customers in Europe, the Middle East and Africa, call +44 (0) 1327 886464 or e-mail to cabo.customerassistance@cummins.com.
- Cummins E-Mail – For online assistance to Cummins-related questions, click on the Contact Us link in the header at everytime.cummins.com.
- Cummins Online Registration – Register all your Cummins engines quickly and easily at everytime.cummins.com to ensure quality parts and service for your engine.

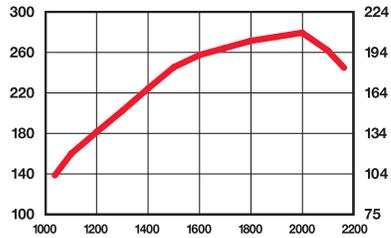


TORQUE AND POWER CURVES.

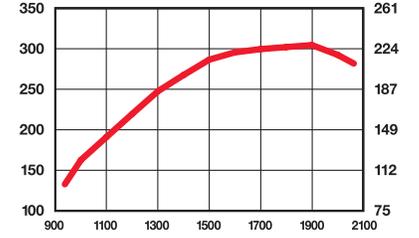
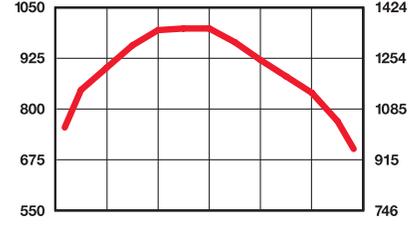
240 HP/800 LB-FT @ 1500
179 kW/1085 N•M @ 1500 FR 91357



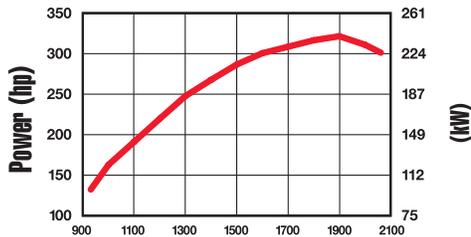
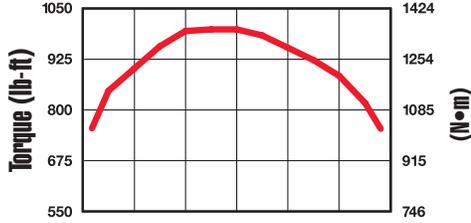
245 HP/857 LB-FT @ 1500
183 kW/1162 N•M @ 1500 FR 91698



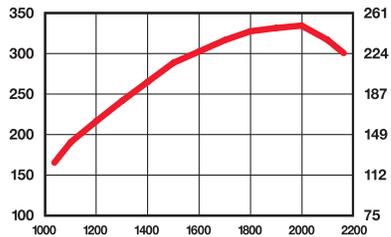
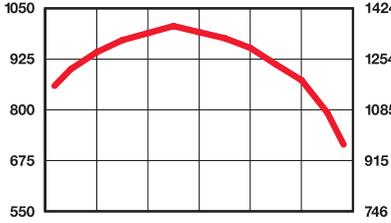
280 HP/1000 LB-FT @ 1500
209 kW/1356 N•M @ 1500 FR 91502



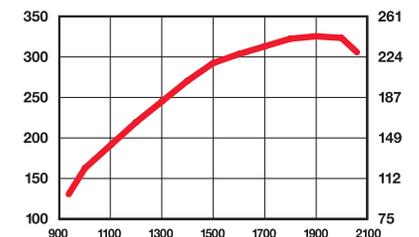
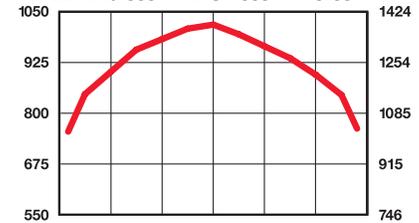
300 HP/1000 LB-FT @ 1500
224 kW/1356 N•M @ 1500 FR 91508



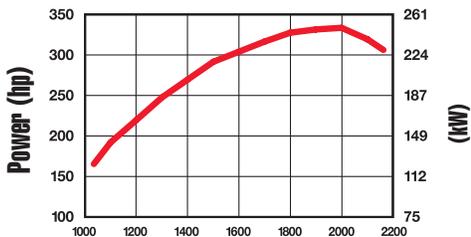
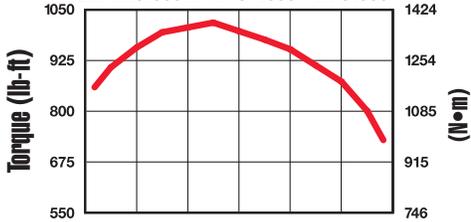
300 HP/1000 LB-FT @ 1500
224 kW/1356 N•M @ 1500 FR 91509



305 HP/1020 LB-FT @ 1500
227 kW/1383 N•M @ 1500 FR 91507



305 HP/1020 LB-FT @ 1500
227 kW/1383 N•M @ 1500 FR 91506





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Cummins Engine Company Ltd
UK

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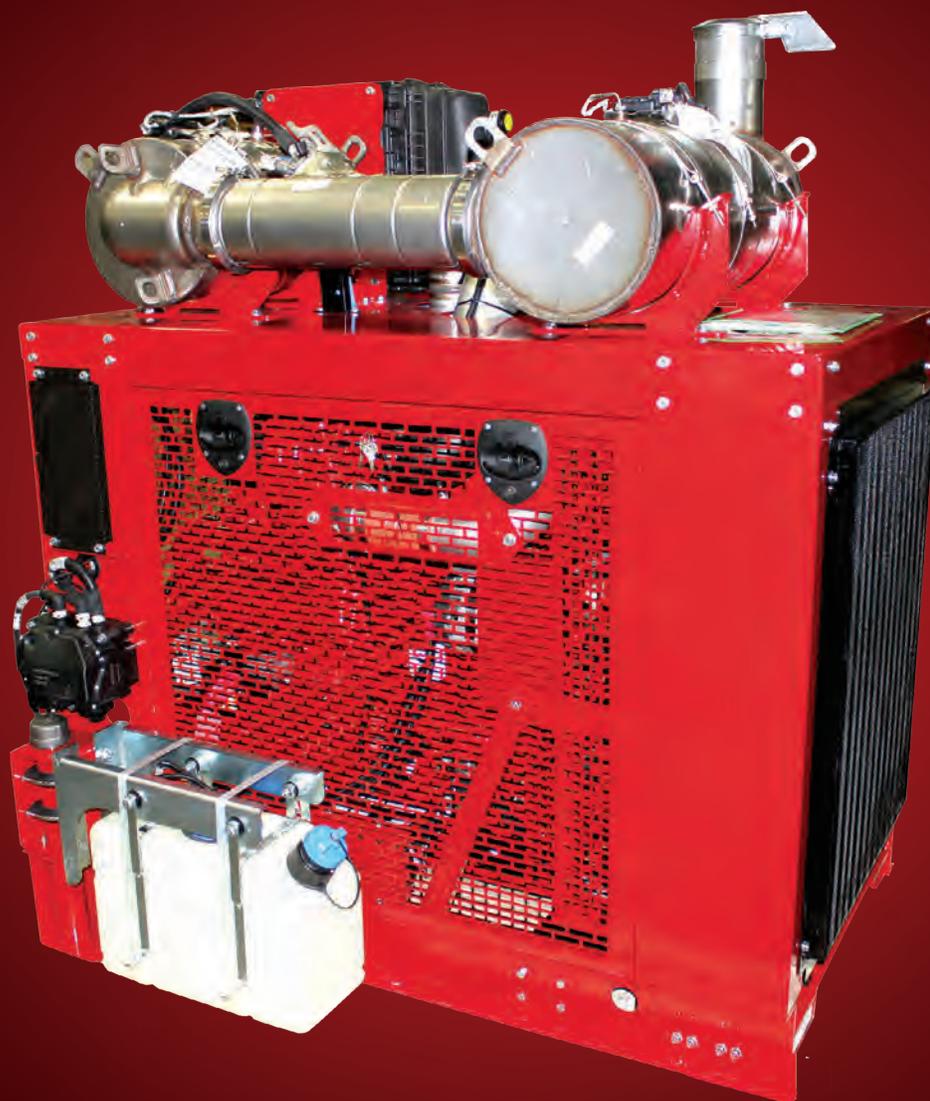
For other countries, see everytime.cummins.com/customercenter

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Every™ Power.

Cummins Power Products.





In today's business world, you need a total package – one that delivers value of ownership, the most advanced technology and second-to-none support. Cummins Power Products offers a total solution for your power-unit needs, with a full range of diesel and compressed gas products from 60 hp to 1500 hp (45-1119 kW) and options designed to meet your specific needs.

Power By Design.

What is a power unit? Essentially, a power unit is “torque in a box,” specifically engineered to provide a solution for a mechanical power need. Every product we make is powered exclusively by a Cummins engine, the most rugged, reliable and advanced technology available. Customized to the unique specifications necessary to meet your power demands, Cummins Power Products designs the right product, with the right fit, to do the job right, backed by our global parts and service network.

Ready For Tier 4 Final.

Our Tier 4 Final technology solution for power units builds on the proven durability of our Tier 3 and Tier 4 Interim power units. Cummins has a unique advantage in that we design and develop all of the critical engine subsystems and aftertreatment components. Cummins Power Products then upfits the base engine and validates the entire power unit design to offer a completely integrated power package. The total system is optimized to minimize installation impact and achieve the lowest cost of operation.

Every Application.

There is added value in working with Cummins Power Products. We eliminate the need to search for the right components. We have done that for you, and the result is a package designed specifically for your job. We offer turnkey solutions in both open and enclosed platforms from a standard line of base-engine models or a customized unit specifically engineered for a unique piece of equipment in virtually any application. We have the people, processes and products to make it happen. Cummins Power Products employs a qualified engineering staff with decades of experience in Pro/ENGINEER design. Our power units are built for everything from brush chippers and rock crushers to dewatering pumps and rail maintenance units. And if your need for power is larger than that, we also work on mud pumps, frac rigs and other heavy-duty applications.



Durable and reliable power for oil field equipment.



Locomotive and rail maintenance track packs keep business moving.

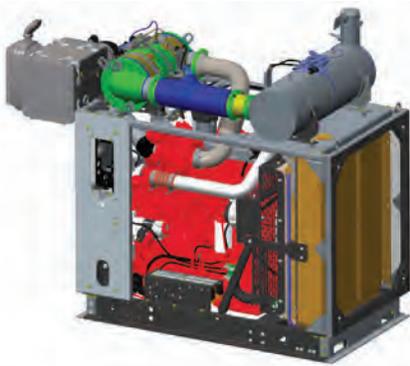
The Cummins Power Products Difference.

Quality. Experience. Support. All customized for you. We don't take these things lightly. Our quality standards are unmatched in the power unit industry. Through our state-of-the-art production processes and a battery of product tests, each power unit provides unparalleled quality and dependability. Since 1997, we have produced over 30,000 power units designed to unique standards. And each one has the backing of Cummins worldwide parts and service network to support you.

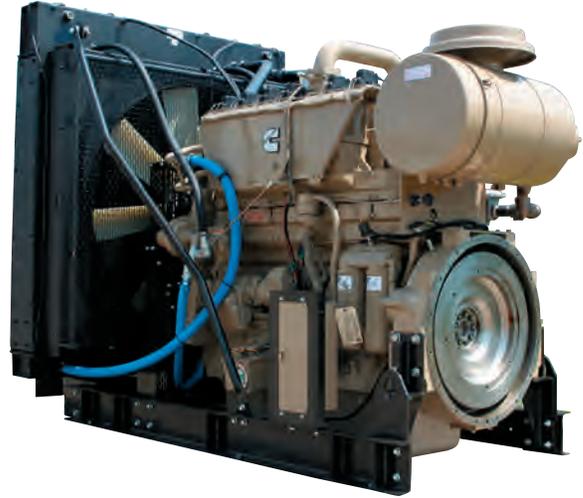
1,500 By Design. One For You.

With over 1,500 options available, a design may already exist to fit your exact need. We have already done the work to meet Tier 4 emissions requirements, with a number of models available. If no existing models meet your need, Cummins Power Products utilizes virtual prototyping to ensure a correct design and fit for your specific application. Our prototyping is very competitive, and allows close accuracy to the actual part production pricing. Some of the customizable options available include:

- Electronic or mechanical controls
- Cooling packages
- Mounting options
- Intake and exhaust locations
- Instrument panel locations



QSB6.7 Tier 4 Final Standard Package



Every Strength.

There is power in our power units. Cummins Power Products power units last longer because they are built better. Our enclosure housings use 12-gauge steel. All metals are powder-coated, which increases chip resistance and allows our units to pass 1,000-hour salt spray tests. Components are bolted, not welded, so they resist mounting distortion and are easier to service. Each engine design is fully tested by Cummins Power Products to meet or exceed Cummins application guidelines. In addition, the electrical systems on each of our power units are tested before they leave our factory. Our power units are built and tested to handle the most extreme conditions.



Cummins Power Products' advanced engineering design process utilizes 3D prototyping in a virtual environment to customize each power unit to the exact needs of the customer and application.

Our Confidence. Total Coverage.

The warranty for Cummins Power Products power units mirrors the Cummins Industrial warranty. The first year is completely covered regardless of the number of hours run. Coverage continues through the second year or until 2,000 hours of operation have been reached (whichever occurs first).

World-Class Service. Every Time.

Cummins Power Products is a global provider of power units. Our value with customers overseas is realized in the dependability and durability of our products. We've shipped units to customers all over the world. Each power unit is backed by Cummins worldwide parts and service network. With over 6,600 authorized service locations around the world, your power unit will have support wherever you need it. Qualified technicians and Genuine Cummins Parts are never far away, even in the most remote location.



Every Advantage.

Cummins QuickServe® offers you factory-trained technicians, the most sophisticated diagnostic and repair tools in the industry and the largest international parts and service network of any engine manufacturer. Our worldwide team of mobile service technicians is always ready to deliver service when and where you need it. Every minute. Every day. Every year. Plus, Cummins distributors have access to an entire library of parts and service information for Cummins engines on the Internet. QuickServe Online provides engine part numbers, diagrams, service bulletins and alerts, up-to-date supersessions and more – 24 hours a day, for nearly 11 million Cummins engines. The Cummins Power Products web site is linked through QuickServe Online for rapid serial number identification.



Every Contact.

Cummins Power Products offer the best long-term value for your equipment needs and cost of ownership, whether your power unit is one of our standard configurations or designed specifically for your application and equipment. To learn more about Cummins Power Units, and to realize the power of our design, contact your local Cummins distributor location. Find out how we can design the exact power to work for you.

Cummins Power Products.

Engine Ratings Gross Horsepower (w/o Fan)

ENGINE MODEL	EMISSIONS TIER	HORSEPOWER RANGE (BHP)	HORSEPOWER RANGE (kW)	DISPLACEMENT (CU IN)	LENGTH (IN)	OPEN			ENCLOSED				
						WIDTH (IN)	HEIGHT (IN)	WEIGHT (LB)	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	WEIGHT (LB)	CENTERLINE HEIGHT (IN)
Diesel Products													
QSF2.8 CAC	4F	49-74	37-55	171	50.15	38.00	50.60	1187	46.28	37.53	50.60	NA	12.5
QSF2.8 Non-CAC	4F	49-65	37-48	171	50.15	38.00	50.60	1187	46.28	38.53	50.60	NA	12.5
B3.3NA-P	4i	60-65	45-48	199	40.20	33.68	47.20	842	47.88	30.00	53.28	884	12.50
B3.3T-P	4i	74	55	199	40.20	33.68	47.60	842	36.98	30.00	53.28	884	12.50
B3.3TAA-P	3	75-85	56-63	199	53.24	39.49	58.56	1017	41.75	33.68	58.56	1121	12.50
QSB3.3-P	4i	85-120	63-89	199	NA	NA	NA	NA	43.82	29.46	53.05	NA	12.50
QSB3.3-P	3	80-110	60-82	199	53.24	39.49	58.56	1017	41.75	33.68	58.56	1121	12.50
QSF3.8	4F	74-130	55-97	232	65.60	52.00	50.50	1740	64.67	49.50	60.00	NA	13.13
B4.5-P	2	80	60	275	47.40	29.25	69.40	1208	47.44	31.54	58.13	1332	13.06
B4.5T-P	2	92-99	68-74	275	52.30	29.25	65.40	1208	43.00	31.55	60.34	1332	13.06
QSB4.5	4F	121-173	90-129	275	56.52	32.93	67.06	1860	56.52	32.93	67.06	1950	13
QSB4.5-P	4i	110-163	82-122	272	59.40	38.50	56.40	1431	53.80	35.00	56.40	1574	13.14
QSB4.5-P	3	110-170	82-127	272	57.45	31.88	65.40	1270	48.00	31.88	61.82	1461	13.14
QSB6.7	4F	173-300	129-223	408	81.00	45.27	69.06	2590	81.09	45.27	69.06	2750	14
QSB6.7-P	4i	146-173	109-129	409	65.31	40.82	57.13	1915	58.00	36.30	66.50	2165	14.10
QSB6.7-P	4i	190-300	142-223	409	65.31	40.82	57.13	1915	58.00	36.30	66.50	2165	14.10
QSB6.7-P	3	190-275	142-205	409	68.48	33.91	81.80	1800	58.00	33.91	69.91	2050	14.10
QSC8.3-P	3	305	172-227	506	77.25	41.32	82.26	2380	64.75	41.32	81.03	2755	16.50
QSL9	4F	250-380	186-283	543	86.11	53.57	76.41	3150	86.11	53.57	76.41	3573	16.5
QSL9-P	4i	230-380	172-283	543	74.20	41.30	61.70	NA	64.80	41.30	72.40	2794	16.50
QSL9-P	3	300-365	224-272	543	77.25	41.32	82.26	2380	64.75	41.32	81.03	2755	16.50
QSM11-P	3	300-400	224-298	660	77.38	46.88	70.07	3394	74.49	43.10	82.22	3718	20.00
QSX11.9	4i	350-500	261-373	726	85.90	48.00	78.50	4121	NA	NA	NA	NA	20.00
QSX15	4F	472-675	352-503	915	98.50	71.83	84.60	6250	98.50	71.83	84.60	6656	20
QSX15-P	4i	400-600	298-447	912	87.80	57.50	85.50	5034	NA	NA	NA	NA	20.00
QSX15-P	3	375-630	280-470	915	106.25	62.75	84.05	5140	106.25	62.75	94.29	5750	20.00
QSK19-P	3	560-700	418-522	1159	115.13	61.88	78.78	6570	NA	NA	NA	NA	16.02
QSK19-P	2	525-700	391-522	1150	116.13	62.81	78.64	7100	NA	NA	NA	NA	15.88
QSK19-P	2	755-800	563-597	1150	116.13	62.81	78.64	7200	NA	NA	NA	NA	16.00
QSK19-P	1	755-800	563-597	1150	114.25	62.00	78.52	6530	NA	NA	NA	NA	16.02
QSK23-P	2	760-950	567-708	1412	NA	NA	NA	NA	NA	NA	NA	NA	23.00
QST30-P	1	760-1200	567-895	1861	156.00	59.71	92.27	11400	NA	NA	NA	NA	27.00
QST30-P	1	1350-1500	1007-1119	1861	131.34	95.00	110.66	16120	NA	NA	NA	NA	27.00
QST30-P	2	760-1200	567-895	1861	142.00	82.00	96.71	11400	NA	NA	NA	NA	27.00
QST30-P	2	1350-1500	1007-1119	1861	NA	NA	NA	NA	NA	NA	NA	NA	27.00
QSK38-P	2	920	686	2300	146.66	86.13	103.06	NA	NA	NA	NA	NA	30.00
Natural Gas Products													
G5.9	NA	41-99	31-74	359	65.74	33.91	64.72	1530	64.52	33.91	70.41	1641	17.65
G5.9e	NA	70-99	52-74	359	NA	NA	NA	NA	68.02	33.91	69.51	1899	17.65
G8.3	NA	99-135	74-101	505	67.38	41.32	73.80	1860	60.69	41.32	71.75	2525	17.75
G8.3e	NA	99-118	74-88	505	NA	NA	NA	NA	72.81	41.32	69.26	2444	17.75
GTA8.3 SLB	NA	175	131	505	78.50	48.88	71.50	NA	77.25	43.90	75.50	NA	17.75
G855	NA	157-188	117-140	855	92.50	42.76	66.38	3900	NA	NA	NA	NA	22.38
G855e	NA	157-188	117-140	855	83.17	42.70	77.59	3944	NA	NA	NA	NA	22.38
GTA855	NA	213-286	159-213	855	100.00	59.76	74.25	4596	NA	NA	NA	NA	22.38
GTA855e	NA	225	168	855	93.00	62.25	84.75	NA	NA	NA	NA	NA	22.38
KTA19GC	NA	265-420	198-313	1125	112.57	60.00	74.87	6495	NA	NA	NA	NA	21.13
KTA19GC SLB	NA	380-420	283-313	1125	104.96	62.25	80.50	6495	NA	NA	NA	NA	21.13
KTA38GC SLB	NA	635-850	474-634	2300	153.78	85.25	100.75	16500	NA	NA	NA	NA	29.89
KTA38GC-E	NA	635-760	474-567	2300	NA	NA	NA	NA	234.60	85.50	152.30	26,114	29.89

- Dimensions and weights will vary slightly depending on the exact engine configuration.
- All ratings are restricted unless otherwise noted. Some ratings are intermittent.
- Height dimensions are measured from bottom of rail to highest point on unit, usually the muffler.
- Natural gas power unit centerline height indicated with high-capacity oil pans.
- 4i Refers to Tier 4 Interim EPA 2011 emissions standards.
- T4F refers to Tier 4 Final EPA 2014 emissions standards.
- * Anticipated 2014 releases planned.



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