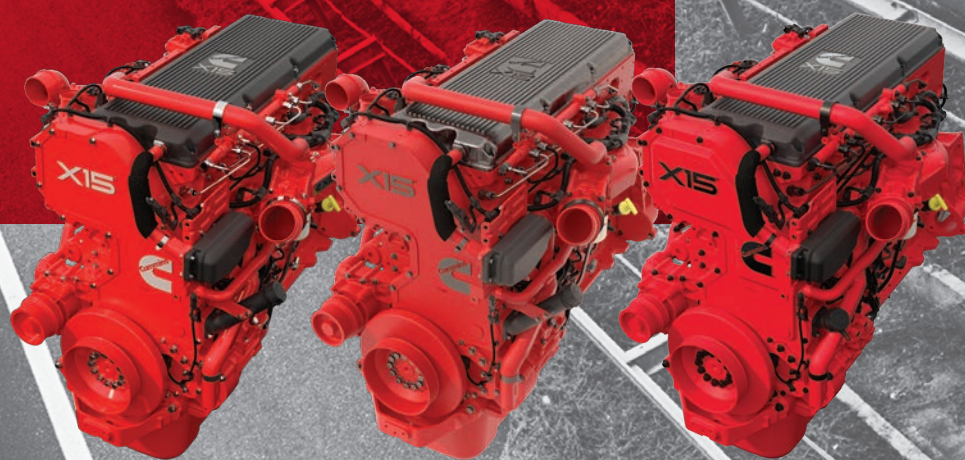


# CUMMINS 2020 X15™ ENGINE PORTFOLIO

Cummins X15 Efficiency Series  
Cummins X15 Productivity Series  
Cummins X15 Performance Series



ALWAYS ON





# THE POWER OF CHOICE.

At Cummins, we're not content with just building technologically advanced engines. We're not satisfied with just building integrated powertrains. We're obsessed with identifying and delivering the exact power profile with the advanced features you need and the dependability you've come to trust – so you can make the most of every truck, every route and every load.

## CUSTOMER FIRST. CUSTOMER FOCUSED.

There's more to this than just pistons and exhaust pipes. We're helping you spec your truck correctly when you order, setting parameters right so your drivers are excited to get behind the wheel while your vehicle delivers the efficiency and uptime you demand. It's having your back whenever you need us down the road, with everything from advanced wireless diagnostics and connected technologies to the world's largest and most capable parts and service network. It's building on a legacy of dependability and durability, continuously looking for ways to improve in everything we do for every customer who buys one of our engines.

## X15 MAINTENANCE INTERVALS. GO LONG.

Cummins X15 engines have some of the longest maintenance intervals in the transportation industry. Our Single Module™ aftertreatment system has built-in sensors that tell you when the DPF finally needs to be changed – so you get every single mile you can out of it.

ITEM	SEVERE <5.0 MPG	SHORTHAUL <5.0 - 5.9 MPG	NORMAL 6.0 - 6.9 MPG	LIGHT >7.0 MPG
<b>OIL DRAIN INTERVAL LEVEL</b>	25,000 Mi 40,000 Km	40,000 Mi 64,000 Km	50,000 Mi 80,000 Km	75,000 Mi 120,000 Km
<b>X15 OIL DRAIN WITH VALVOLINE PB*</b>	30,000 Mi 48,000 Km	45,000 Mi 72,000 Km	55,000 Mi 89,000 Km	80,000 Mi 130,000 Km
<b>X15 OIL DRAIN WITH CUMMINS OILGUARD™ 1</b>	extensions available	extensions available	extensions available	Up to 100,000 Mi 160,000 Km
<b>FUEL FILTER<sup>2</sup></b>	25,000 Mi 40,000 Km	40,000 Mi 64,000 Km	50,000 Mi 80,000 Km	75,000 Mi** 112,000 Km
	<b>SEVERE &lt;5.0 MPG</b>		<b>NORMAL 5.5 - 6.5 MPG</b>	<b>LIGHT &gt;6.5 MPG</b>
<b>DIESEL PARTICULATE FILTER<sup>3</sup></b>	250,000-400,000 Mi 400,000-640,000 Km		400,000-600,000 Mi 640,000-960,000 Km	600,000-800,000 Mi 960,000-1,300,000 Km
<b>DIESEL EMISSIONS FLUID</b>	250,000 Mi 400,000 Km		280,000 Mi 448,000 Km	300,000 Mi 480,000 Km
<b>VALVE ADJUSTMENT</b>	500,000 Mi 800,000 Km		500,000 Mi 800,000 Km	500,000 Mi 800,000 Km

\* Cummins recommends Valvoline Premium Blue (PB 8600ES).

\*\* Extending fuel filter interval from 60,000 miles to 75,000 requires use of extended filter available through Cummins service network.

1 - Up to 100,000-mile oil drain interval with participation in Cummins OilGuard oil analysis program.

2 - For Premium Blue users, the fuel filter interval matches the ODI.

3 - Maintenance lamp will illuminate when DPF maintenance is needed.



# CUMMINS X15 EFFICIENCY SERIES

## MONEY TALKS. THIS ENGINE BELLOWS.

Driving down operating costs starts with the X15 having the best fuel economy of any big-bore engine in the industry. Delivering up to 3.5% improved fuel economy from base engine improvements alone, the X15 Efficiency Series keeps getting better. The fact that burning less fuel means that you meet Greenhouse Gas (GHG) and 2021 fuel economy regulations a year ahead of schedule is a bonus. From integrated powertrain technology to over-the-air engine software updates, Cummins is delivering our total efficiency package a year ahead of the mandated schedule – so you can start making bigger profits right away.

## POWER TO SPARE AND POWER TO SAVE.

Cummins X15 Efficiency Series ratings offer fuel savings technology you can take to the bank. Literally. Hardware and software upgrades that are new for 2020 deliver improved fuel economy, driveability and powertrain performance, especially when the X15 Efficiency Series is paired with the Endurant™ transmission from the Eaton Cummins joint venture. New EX ratings provide advanced features such as predictive gear shifting, on-ramp boost, predictive braking and dynamic power. EX ratings require use of the X15 Efficiency Series, Endurant transmission and GPS data to allow up to 5% fuel economy improvements to the total powertrain package. Many of these features are exclusive to EX ratings, with additional powertrain features planned for release during the product's lifecycle.

## X15 EFFICIENCY SERIES SPECIFICATIONS

ADVERTISED HORSEPOWER	400 - 500 hp	298 - 373 kW
PEAK TORQUE	1450 - 1850 lb-ft	1966 - 2508 N • m
GOVERNED SPEED	1700 RPM	
CLUTCH ENGAGEMENT TORQUE	1000 lb-ft	1356 N • m
NUMBER OF CYLINDERS	6	
SYSTEM WEIGHT	3152 lb	1430 Kg
ENGINE (DRY)	2961 lb	1343 Kg
AFTERTREATMENT SYSTEM	191 lb	87 Kg



# CUMMINS X15 PRODUCTIVITY SERIES

## WORK GLOVES. HARD HAT. STEEL-TOED BOOTS.

X15 Productivity Series ratings are designed, built and optimized for vocational, specialty and heavy-haul applications. Whether you're transporting raw materials in a quad-axle dump, moving 130,000 GVW down the interstate or need reliability in emergency applications, Cummins delivers the power you need – with torque to match.

Components have been carefully selected to match output characteristics and load demands. Ratings from 430-500 horsepower share proven hardware from the X15 Efficiency Series, while ratings from 565-605 utilize higher-capacity hardware from the X15 Performance Series.

Front-end PTO capability is another feature of the Productivity Series that makes these ratings the ideal choice for applications that require unique power demands.

With available ratings of up to 605 hp and 2050 lb-ft of peak torque, the X15 Productivity Series has the highest output and torque of any Cummins on-highway engine – making it the best choice for heavy haul applications where having massive pulling power is the most mission-critical factor.

## X15 PRODUCTIVITY SERIES SPECIFICATIONS

ADVERTISED HORSEPOWER	430 - 605 hp	321 - 451 kW
PEAK TORQUE	1650 - 2050 lb-ft	2237 - 2779 N • m
GOVERNED SPEED	2000 - 2100 RPM	
CLUTCH ENGAGEMENT TORQUE	1000 lb-ft	1356 N • m
NUMBER OF CYLINDERS	6	
SYSTEM WEIGHT	3152 lb	1430 Kg
ENGINE (DRY)	2961 lb	1343 Kg
AFTERTREATMENT SYSTEM	191 lb	87 Kg

## UNCOMPROMISING DOESN'T GO FAR ENOUGH.

Rugged reliability and the ability to pull double-duty make the X15 Productivity Series ideal for emergency vehicles and ultra-premium RVs as well. Plenty of power for driving performance – plenty more for auxiliary power needs. Uncompromising performance simply doesn't do it justice.

## TAILORED FOR YOUR APPLICATION.

Transmission compatibility varies by the type of vehicle being powered. Vocational trucks and emergency vehicles are available with a wide range of options from manual, automatic manual and automatic transmissions.



# CUMMINS X15 PERFORMANCE SERIES

**DON'T JUST DRIVE. DOMINATE.**

Whether you are a logger hauling massive tree trunks through the Rockies or pulling an over-the-road tractor for bulk-hauling, the Cummins X15 Performance Series can do it all – without breaking a sweat.

Ratings range from 485-565 hp with 1650-2050 lb-ft of peak torque starting at just 1150 rpm and continuing at virtually the same level through 1500 rpm.

The X15 Performance Series delivers more than just power and drivability. Rugged durability is ensured by the use of proven hardware while continuous improvements have resulted in reliability that provides peace of mind for trucking operations.

## X15 PERFORMANCE SERIES SPECIFICATIONS

ADVERTISED HORSEPOWER	485-565 hp	362-451 kW
PEAK TORQUE	1650-2050 lb-ft	2237-2279 N • m
GOVERNED SPEED	2000 RPM	
CLUTCH ENGAGEMENT TORQUE	1000 lb-ft	1356 N • m
NUMBER OF CYLINDERS	6	
SYSTEM WEIGHT	3152 lb	1430 Kg
ENGINE (DRY)	2961 lb	1343 Kg
AFTERTREATMENT SYSTEM	191 lb	87 Kg

## PROVEN COMPONENTS. PROVEN TECHNOLOGY.

- **VG Turbocharger** – Highly reliable and precise design for rapid acceleration
- **XPI Fuel System** – High pressure enables multiple injection events per cycle for industry-leading fuel economy and quieter operation
- **Single Module™ Aftertreatment System** – A compact and lightweight system that offers increased ash capacity and extended maintenance intervals
- **Fleetguard Fuel And Lube Filters** – Superior holding capacity provides better protection and enables longer service intervals
- **High-Capacity Electronic Control Module** – This allows full integration of data inputs from all subsystems, optimizing performance
- **Cummins Engine Brake** – With up to 600 braking horsepower, it's the most powerful in the industry. Stronger braking capacity reduces wear on service brakes and replacement costs

## CUMMINS WARRANTY – CONFIDENCE IN WRITING.

The base engine warranty coverage\* on Cummins X15 engines includes parts and labor on warrantable failures for both the engine and aftertreatment system – with no deductible. Cummins base warranty coverage is good for 2 years/250,000 miles (402,336 km).

Cummins wide variety of extended coverage plans allow you to make financial projections with complete confidence, with protection plans for up to 7 years or up to 600,000 miles (804,672 km) on registered parts and labor. Cummins extended coverage plans are available covering internal components and major engine systems, including the turbocharger, water pump and fuel injectors, air compressor, fuel pump and select engine sensors.

\* Covers defects in Cummins materials or factory workmanship.

## KEEPING YOU ON THE ROAD. NOT IN THE BAY.

Cummins Care makes your workload easier by creating a seamless support experience. You can expect to get complete solutions while working with one of over 3,700 authorized parts and service locations. Visit [care.cummins.com](http://care.cummins.com) or call 1-800-CUMMINS™ (1-800-286-6467) to connect with a Cummins Care expert. The Cummins Guidanz™ mobile app and INLINE™ mini-adapter allow for key engine information to be downloaded on a smartphone or tablet. You don't even have to wait in line for a diagnostic bay to open – your vehicle's info can be downloaded while standing right outside the cab. Cummins suite of Connected Solutions uses wireless technology to manage your engine's health. This includes Connected Diagnostics, our Connected Advisor program and Connected Software Updates that let you update engine control module calibrations over the air, from the road or wherever your trucks are domiciled.



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Bulletin 5600306 Printed in U.S.A. 9/19  
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