



Better. From Morning To Night.

Cummins ISX12
For Vocational And Day Cab Trucks.



Every™ Task. Better.

Cummins ISX12 builds on the legacy of the ISM and proven technology of the ISX15 to deliver better fuel economy, performance, reliability and durability. It has more horsepower and more torque, plus stronger acceleration – all in a compact design. It achieves near-zero emissions, and reduces noise output. So no matter what kind of equipment you run it in, the ISX12 has the power to accomplish every task better. From morning to night.

Better Fuel Economy For Lower Operating Costs.

Optimized calibrations have resulted in significant fuel economy gains for the ISX12. Fuel economy has improved up to 5 percent in regional-haul applications and up to 12 percent in vocational applications versus the ISX11.9.

An Exceptional Power-To-Weight Ratio.

The ISX12 is an exceptional choice for vocational applications, with a high power-to-weight ratio and 800 lb-ft (1085 N•m) of clutch engagement torque. Eight vocational and five refuse ratings are available, along with integrated Rear Engine Power Take-Off (REPTO), Front Engine Power Take-Off (FEPTO) and a choice of hydraulic drive options. This combination of power and flexibility is an ideal choice for rear- and front-pouring mixers as well as dump trucks and refuse haulers.

The ISX12 has the power range to meet the needs of regional hauling and LTL distribution operations. Standard ratings range from 310 hp to 425 hp (231-317 kW). SmartTorque ratings unleash higher torque in the two top gears so that drivers can climb steep hills with fewer downshifts.

The ISX12 is built to deliver more than most customers will ever demand.



Every System. Integrated.

Cummins is the only engine manufacturer to design and develop, manufacture and support every component from the air handling to the exhaust aftertreatment in a totally integrated system. This allows us to optimize critical systems to deliver the right technology to our customers in a way that other engine manufacturers using outside suppliers simply can't match.

The ISX12 features our exclusive XPI fuel system. Of all North American manufacturers, only Cummins has the in-house capabilities to design and manufacture this critical element. The XPI fuel system is capable of the highest injection pressures in the industry, with a common-rail design that delivers strong performance independent of engine speed. Multiple injection events provide better fuel economy and help reduce engine noise.

The integrated system of the ISX12 also includes a VGT™ Turbocharger custom-built by Cummins Turbo Technologies. Since 2002, this proven technology, with fewer moving parts than competitive turbos, has set the industry standard for precision, performance and reliability.



Real-World Benefits. Every Feature.

The ISX12 packs a lot of advanced features into a compact design. Most major components are shared with the Heavy-Duty ISX15, the industry leader for fuel efficiency and reliable performance.



Every Benefit. Clear.

The Cummins Aftertreatment System on the ISX12 combines a proprietary Cummins Particulate Filter with our Selective Catalytic Reduction (SCR) technology, functioning as a single unit. These technologies have been proven in the United States and Europe for years and thoroughly field-tested under the most extreme conditions. Designing and building the package in-house allows Cummins to calibrate the engine for optimum performance and near-zero emissions. The Cummins Particulate Filter reduces Particulate Matter (PM) by 90 percent.

Cummins SCR technology includes a Decomposition Reactor, catalyst and electronic controls to eliminate over 90 percent of oxides of nitrogen (NOx) emissions. The high efficiency of the aftertreatment frees the engine to generate higher horsepower while also saving fuel. Improved fuel economy not only lowers fuel consumption, but it also reduces greenhouse gas (GHG) emissions.

Cummins SCR utilizes Diesel Exhaust Fluid (DEF), which is carried at thousands of Cummins Filtration distributor and dealer outlets throughout North America as well as at major truck stops. This system is highly efficient with its use of DEF, so the DEF tank needs to be replenished only every second or third diesel fill-up.



Every Setting. PowerSpec.

On a new truck order, Cummins PowerSpec helps you find the ideal gearing specs for engine performance or fuel economy. It's important to have the latest version because new truck engines are being geared taller for better fuel economy.

PowerSpec also runs 85 percent faster than the prior version for 2007 and newer engines. In addition to gearing recommendations, PowerSpec allows authorized users to customize the operating parameters on individual vehicles – or easily cascade a “hot spec” through an entire fleet. It also reads fault codes and can be programmed to collect trip information for multiple drivers on every truck. See powerspec.cummins.com for more.

ISX12 Specifications

Advertised Horsepower	310-425 HP	231-317 KW
Peak Torque	1150-1650 LB-FT	1559-2237 N•M
Governed Speed	2100 RPM	
Clutch Engagement Torque	800 LB-FT	1085 N•M
Number of Cylinders	6	
System Weight	2,888 LB	1,310 KG
Engine (Dry)	2,666 LB	1,209 KG
Aftertreatment System*	222 LB	101 KG

*Increase over standard muffler; does not include chassis OEM-supplied components.

ISX12 Maintenance Intervals

Maintenance Item	Miles/Kilometers	Hours	Months
Fuel Filter	25,000 MI 40,000 KM	400	6
Coolant Filter*	50,000 MI 80,000 KM	1,500	12
Valve Adjustment	250,000 MI 402,000 KM	6,000	24
Coalescing Filter	150,000 MI 240,000 KM	4,000	
DEF Filter	200,000 MI 320,000 KM		
Hydrocarbon Doser	150,000 MI		
Injector Cleaning	240,000 KM		
Particulate Filter Cleaning	300,000 MI 480,000 KM		

*With appropriate filter.

Oil Drain Intervals*

Linehaul Trucks

Duty Cycles**	Miles	Kilometers
Severe	15,000	24,000
Normal	25,000	40,000
Light	35,000	56,000

Vocational Trucks***

Hours	Miles	Kilometers
400	15,000	24,000

*Using CJ-4 oil

**Light Duty = > 7 mpg; Normal Duty = 6-7 mpg; Severe Duty = < 6 mpg

***Vocational applications include refuse, mixer, dump or delivery truck.

ISX12 Ratings

Engine Model	Advertised Horsepower (KW)	Peak Torque lb-ft (N•m) @ rpm
ISX12 425	425 (317)	1650 (2237) @ 1200
ISX12 400	400 (298)	1650 (2237) @ 1200
ISX12 370	370 (276)	1450 (1966) @ 1200
ISX12 370	370 (276)	1350 (1830) @ 1200
ISX12 350	350 (261)	1350 (1830) @ 1200
ISX12 330	330 (246)	1350 (1830) @ 1200
ISX12 330	330 (246)	1250 (1695) @ 1200
ISX12 310	310 (231)	1150 (1559) @ 1200

SmartTorque Ratings

ISX12 425 ST	425 (317)	1450/1650 (1966/2237) @ 1200
ISX12 400 ST	400 (298)	1450/1650 (1966/2237) @ 1200
ISX12 350 ST	350 (261)	1350/1450 (1830/1966) @ 1200
ISX12 330 ST	330 (246)	1250/1350 (1695/1830) @ 1200

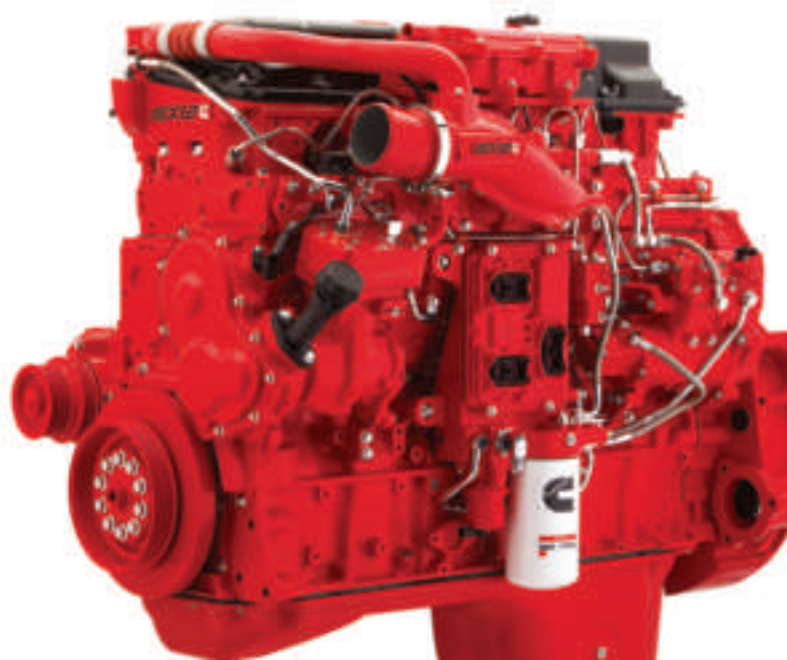
Vocational Ratings

ISX12 425V	425 (317)	1650 (2237) @ 1200
ISX12 425V	425 (317)	1550 (2102) @ 1200
ISX12 400V	400 (298)	1650 (2237) @ 1200
ISX12 385V*	385 (287)	1450 (1966) @ 1200
ISX12 385V	385 (287)	1350 (1830) @ 1200
ISX12 350V	350 (261)	1450 (1966) @ 1200
ISX12 350V	350 (261)	1350 (1830) @ 1200
ISX12 320V	320 (239)	1150 (1559) @ 1200

Refuse Ratings

ISX12 385R	385 (287)	1450 (1966) @ 1200
ISX12 385R	385 (287)	1350 (1830) @ 1200
ISX12 350R	350 (261)	1450 (1966) @ 1200
ISX12 350R	350 (261)	1350 (1830) @ 1200
ISX12 320R	320 (239)	1150 (1559) @ 1200

*Oil and gas rating



Warranty Coverage.

Cummins base engine warranty coverage* is now simpler and more comprehensive than ever. It includes virtually everything – parts, labor and progressive damage on everything from the block casting to the injectors – for 2 years/250,000 miles (402,336 km). All Cummins-branded elements in the Cummins Aftertreatment System, from the Cummins Particulate Filter to the hydrocarbon doser injector, Decomposition Reactor and SCR catalyst, are covered – with no deductible.

*Covers defects in Cummins materials or factory workmanship.



Extended Coverage.

You can plan your maintenance and repair budgets with confidence when you have an extended coverage plan on your ISX12 engine. A wide variety of protection plans is offered, so you can choose the one that best meets your equipment trade cycle and financial goals. Contact your local Cummins distributor or dealer for additional details.

Every Need. Met.

Cummins offers the largest and most capable service and support network in North America, with over 3,500 authorized locations. Our authorized service technicians are fully trained on all our engines, and have the necessary equipment and Genuine Cummins Parts to promptly handle any type of service issue.

We also provide you with 24/7/365 access to Cummins representatives. Just call Cummins Care toll-free at 1-800-DIESELS™ (1-800-343-7357). Cummins representatives are standing by every hour of every day, and they will check with local authorized Cummins distributors and dealers to determine the nearest facility with an available technician and the right diagnostic and repair tools to handle your equipment issue.



Better. From Morning To Night.

Cummins ISX12 is a better solution to meet all your needs from morning to night. Not only does it deliver better fuel economy, better performance and better reliability – it's also better for the environment. For more information about the ISX12, visit your local Cummins distributor or dealer, phone Cummins Care at 1-800-DIESELS (1-800-343-7357) or visit cumminsengines.com.



Cummins Inc.
Box 3005
Columbus, IN 47202-3005
U.S.A.

Phone: 1-800-DIESELS™ (1-800-343-7357)
Fax: 1-800-232-6393
Internet: cumminsengines.com

[Twitter.com/CumminsEngines](https://twitter.com/CumminsEngines)
[YouTube.com/CumminsEngines](https://www.youtube.com/CumminsEngines)

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