

POWERING WHAT'S NEXT.

IN A WORLD
THAT'S ALWAYS ON



IAA 2018

Sep. 20—27
Hannover

Stand no. A41
Hall 16

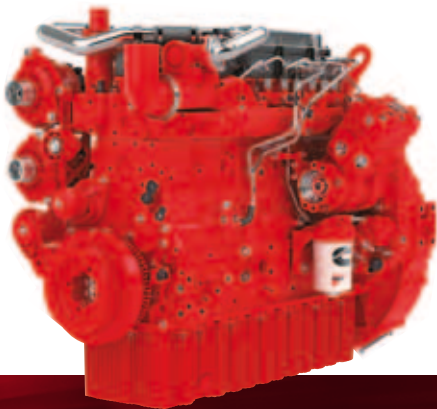


POWER DIVERSITY

UNIVERSAL PLATFORM

B6.7™

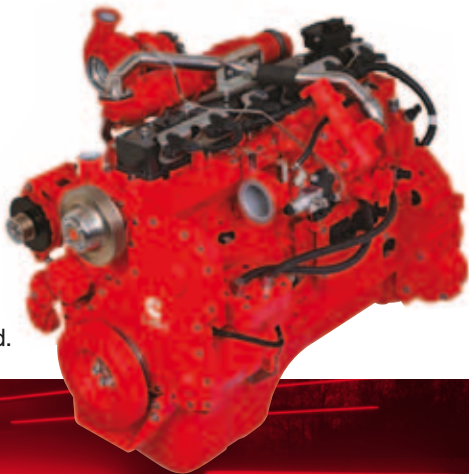
The world's most popular midrange truck and bus diesel with up to 325 hp continues to evolve with versions to meet every emissions requirement, ready for the arrival of Euro 6 equivalent regulations worldwide from 2019. Looking further ahead, Cummins is exploring options for petrol and propane concepts of the 6.7-litre to bring the power of choice to our customers from a common engine base.

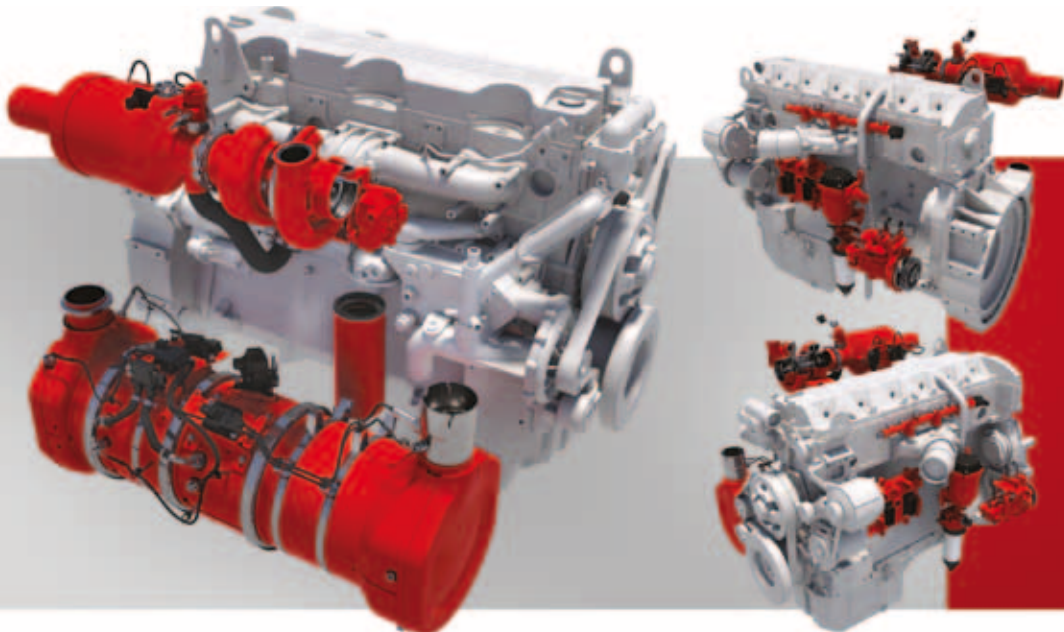


NEAR ZERO NATURAL GAS

LSN™

The only CNG/LNG engine to go global in the bus and truck industry with up to 320 hp and diesel-like levels of performance. The 9-litre is now cleaner than ever by using renewable natural gas (RNG) with a low carbon footprint and able to meet California's ultra-low NOx optional standard.





EURO 7 VISION **THE FUTURE OF ULTRA-CLEAN DIESEL**

With increased focus on sustainable, clean fuels driven by government bodies globally and an emphasis on continued CO₂ and NOx reduction, Cummins is uniquely positioned to deliver the ultra-clean diesel solution for the future.

Seamless integration across the powertrain increasing optimisation of thermal management, performance and fuel efficiency is helping make these goals a reality. Innovative and impactful digital solutions will be at the heart of the diesel engine. Harnessing telematic services together with advanced over-the-air trim and parameter calibration,

will take remote programming and predictive fleet performance to the next level. These solutions will empower fleet managers with the ability to customise power and speed settings to match unique business needs, driver behaviours, road conditions and geographic coordinates.

Ultra-clean diesel from Cummins is not just a vision for what Euro 7 could bring, it's real technology and solutions meeting future legislation across the globe.



POWER DIVERSITY

INTRODUCING CUMMINS POWERDRIVE

When electrification is the best choice for our customers, Cummins provides cutting-edge fully electric and hybrid solutions.

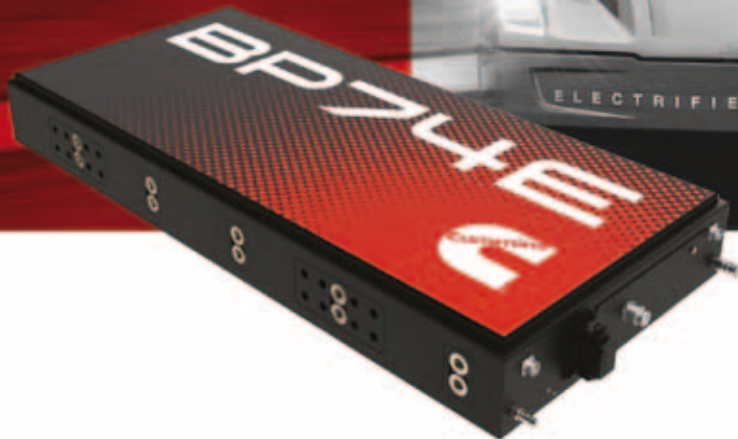
The Cummins PowerDrive, the most versatile hybrid system on the market, offers both parallel and series capabilities to meet the variety of market needs.

- This unique four-mode hybrid solution provides better economics in high-fuel cost scenarios and is able to switch, in real time, between fully electric, series and parallel modes.
- The system has been deployed in more than 200 commercial vehicles on the road spanning Class 3-8, travelling more than six million miles in a fleet setting in the United States and China.



ELECTRIFIED POWER **BROAD LITHIUM-ION BATTERY CAPABILITY**

Cummins has developed deep lithium-ion battery pack design capability across the energy storage spectrum. With expertise uniquely housed under one roof, Cummins can design batteries, build them and support them. Our cutting edge, super lightweight battery packs form an integral part of our Electrified Power systems and are optimised for our Battery Electric system and our Hybrid Power Plug-In system for urban truck and bus.

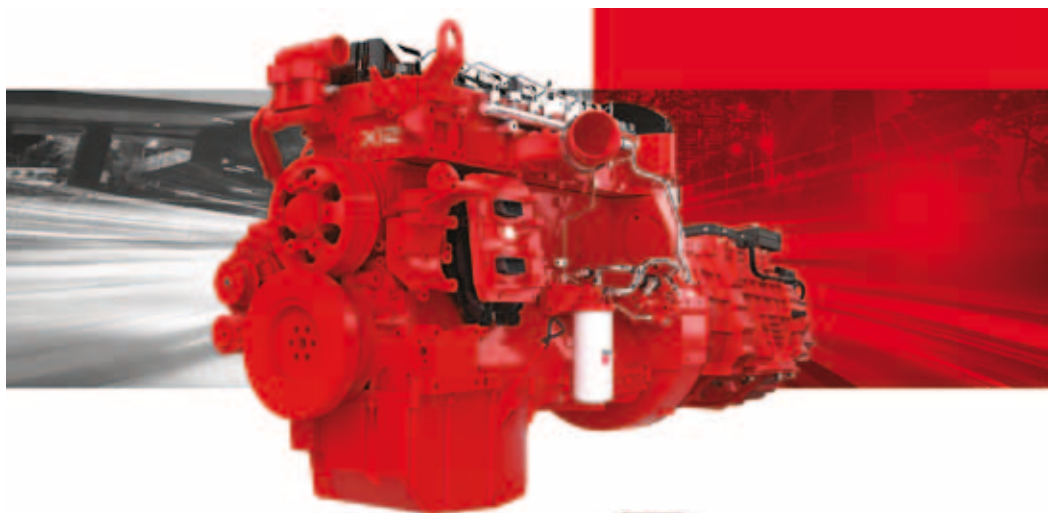


INTEGRATED POWER

AUTOMATED TECHNOLOGIES

X12™ AND ENDURANT™ INTEGRATED POWER

Ready for the arrival of Euro 6 equivalent low emissions worldwide, the 12-litre comes with enhanced robustness for heavy duty applications up to 500 hp. New levels of power integration and automation are achieved when the X12 is matched with the Endurant™ from Eaton Cummins Automated Transmission Technologies, to significantly reduce powertrain weight and realise remarkable fuel efficiency.



ADEPT™

Cummins ADEPT™ technology with Cummins X12 and X15 engines releases the potential of powertrain automation to make every driver an expert and improve fuel efficiency by up to 6%. Predictive Cruise Control utilises your GPS to see the road 2 km ahead and precisely adjusts truck speed ready for the upcoming terrain. Smart Coast neutralises the driveline on downhill gradients using vehicle momentum to save fuel. SmartTorque2 constantly calculates the exact torque needed for the truck payload to minimise downshifting.



CONNECTIVITY

ADVANCED DIGITAL TECHNOLOGIES

Cummins is transforming our customer experience through advanced digital technologies, including our portfolio of smart connected products designed to enhance value, performance, reliability and safety. Integrated wirelessly through the telematics systems, our diagnostic monitoring, reporting, programming, and servicing solutions utilise the power of Cummins data together with advanced analytics and IoT frameworks to boost uptime, extend engine life, minimise risk and lower total cost of ownership. Learn more about our connected solutions below and how our promise for innovation and dependability drive us forward on the autonomous journey.

Connected Diagnostics

THE LIFELINE FOR YOUR ENGINE

Using telematics, wirelessly connect your Cummins engine for continuous monitoring and diagnosis of system fault alerts, using a convenient mobile app, email or web portal.

Connected Advisor

CRITICAL ENGINE INFORMATION YOU WANT FOR THE UPTIME YOU NEED

Gain peace of mind and avoid unnecessary service stops by filtering and prioritising engine monitoring and diagnostic data with deep, solution-based reporting and service scheduling assistance.

Connected Software Updates

THE OVER-THE-AIR SOLUTION FOR MAXIMUM UPTIME

Keep Cummins powered assets running at peak performance while reducing shop and service visits with over-the-air (OTA) software updates that can calibrate and optimise engine control modules (ECM) remotely, using less than five minutes of stationary downtime.



ALWAYS ON



GLOBAL SERVICE NETWORK **EXPERTISE FOR A WORLD THAT'S ALWAYS ON**

Nobody knows diesels better than Cummins, and that's why our engines power so many trucks and buses throughout the world adding up to over 1,000,000 vehicles in 2017.

This global footprint is why Cummins customer support is always on, utilising intelligent uptime technology such as our latest Guidanz™ service suite you can experience on the booth.

Cummins' certified technicians and expert support personnel go above and beyond to ensure you're moving forward. With over 7,200 dealer and distributor service locations in 190 countries worldwide, you can count on Cummins to keep you moving.

EMPOWERING TECHNOLOGIES

COMPONENTS

THE INTEGRATED SYSTEM SOLUTION FOR A LOW CO₂, LOW NO_x FUTURE

Engineering expertise across Cummins Turbo Technologies and Cummins Emission Solutions has been combined to deliver new air and thermal management architectures. Representing the future vision for cleaner engine technology, the revolutionary concept integrated system can optimise heat management, increase fuel economy and improve the overall performance of an engine.

INTEGRATED RTC VALVE

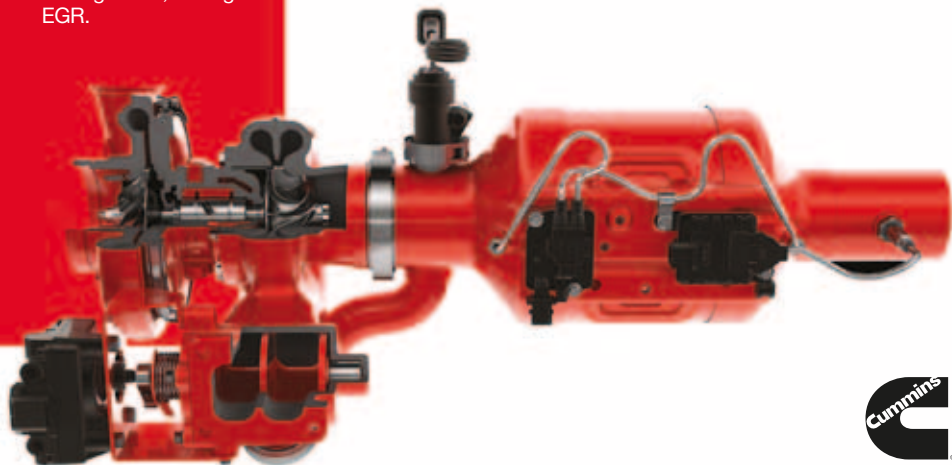
- 1. Optimised heat management:**
+50% exhaust bypass to aid NO_x reduction by increasing temperatures to the aftertreatment.
- 2. Improved Thermal Management:**
Generates back pressure for thermal management, driving EGR.

UL4 UREA DOSER

- 1. Increased ambient temperature capability:**
Increased ambient temperature limit, up to 160°C (200°C limited time), designed to enable post turbo urea injection.
- 2. Improved reliability:**
Together with the UL2.2, UL4 is one of the only liquid-only dosing systems in the market, offering freeze-robustness in its design. The system is designed specifically to prevent doser crystallisation and clogging.

CLOSE COUPLED SCR UNIT

- 1. Immediate NO_x conversion:**
Positioned closer to the turbocharger, enabling exhaust gases to directly enter the Close Coupled Unit, thus converting NO_x immediately.
- 2. Increased fuel economy:**
Optimising trade-off between CO₂ and NO_x to increase fuel efficiency.



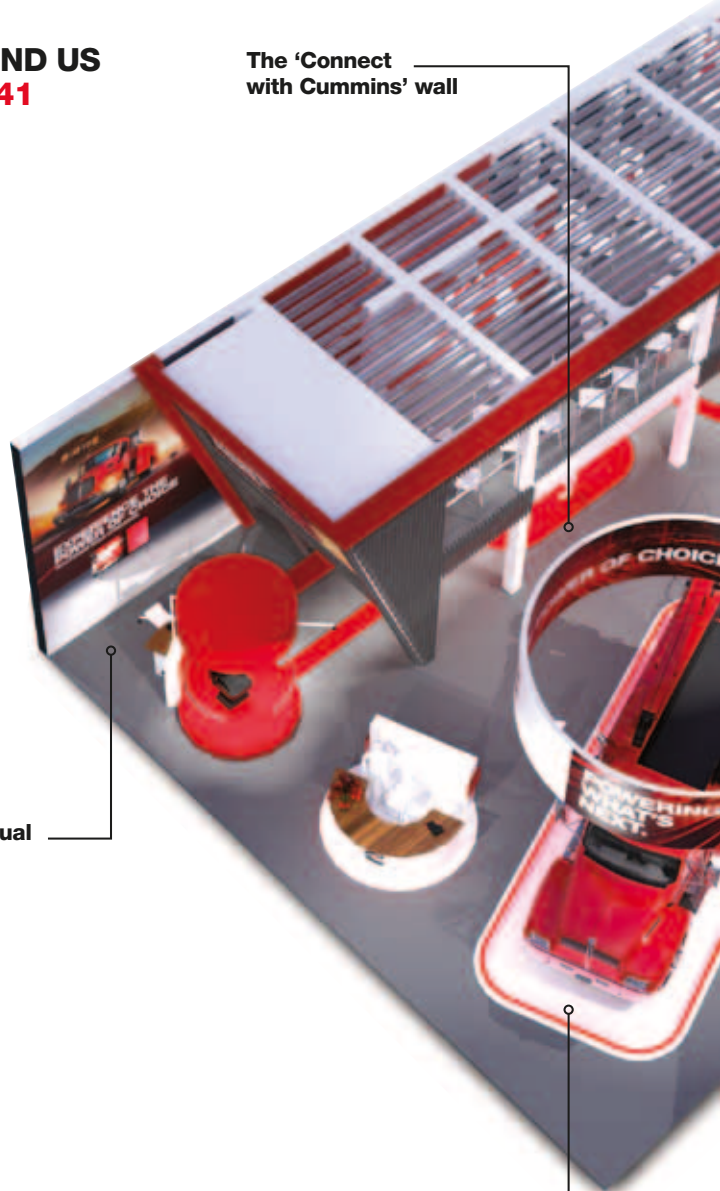
CUMMINS AT IAA

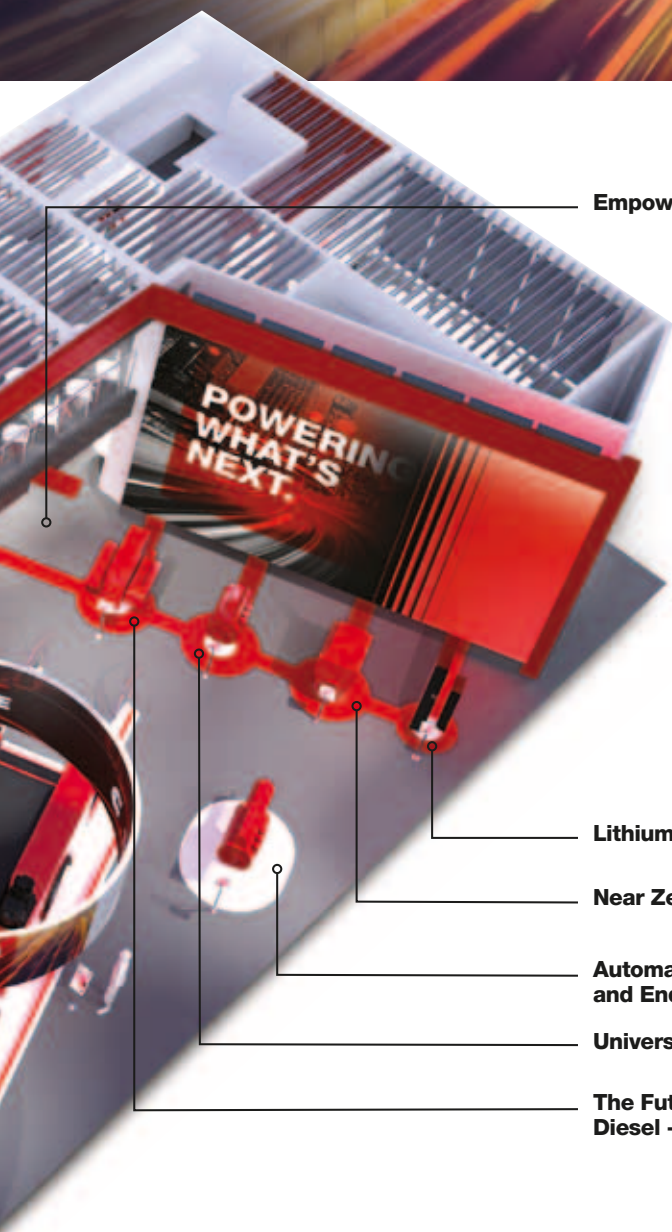
WHERE TO FIND US
STAND NO. A41
HALL 16

The 'Connect
with Cummins' wall

Hollywood Hills Virtual
Reality Challenge

Electrified Power
- Cummins PowerDrive





Empowering Technologies

Lithium-ion battery portfolio

Near Zero Natural Gas - L9N

**Automated Technologies - X12
and Endurant™ Integrated Power**

Universal Platform - B6.7

**The Future of Ultra Clean
Diesel - Euro 7 Vision**





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