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Cummins ISG is a revolutionary new heavy-duty engine platform

Cummins ISG is a revolutionary global heavy-duty engine platform developed using a combination of patented technologies and advanced production techniques. It has been developed specifically for heavy-duty commercial applications such as construction tippers, tractors, and forklifts.

Cummins Sales and Business Development Manager **Bo Fu (Bob)** explains that the ISG is available in 10.5 litre and 11.8 litre displacements, ranging from 228 kW to 382 kW, in order to meet a broad range of on-highway market requirements and emissions standards.

The Cummins ISG series features an optimised power-to-weight ratio, with a sculptured block that retains high rigidity while removing unnecessary mass. Weight-savings are enhanced further by the use of composite materials for the oil pan and valve cover. This results in a remarkably low engine weight of only 862 kg, while retaining all of the structural strength and durability that characterises Cummins' heavy-duty engines.

The Xtra-High Pressure Injection (XPI) fuel system boasts multiple injection events driven by high-precision electronic controls, contributing to an impressive torque peak torque of nearly 2 300 Nm, in addition to a torque rise as high as 60%. This translates into an exceptionally fast response to increasing load factors from low engine rpm.

The low-weight design of the Cummins ISG series means that more payload can be delivered, making it the ideal power solution for heavy-duty trucks in long-haul, regional-haul, and vocational applications, as well as buses, motor coaches, fire trucks, and recreational vehicles.

Streamlined architecture means 50% fewer parts for improved reliability and ease of servicing, while the integrated engine brake delivers 50% more braking horsepower than 'bleeder' compression brakes, which enhances downhill control and safe vehicle operation.

Fleetguard two-stage fuel filters with NanoNet™ media provides protection against damaging particles down to 5 µ, while the Fleetguard StrataPore™ oil filters are pre-charged with chemical additives for extended drain intervals of 100 000 km.

"The ISG engine family is unique to Cummins, giving equipment manufacturers an extremely efficient and cost-effective power unit, backed by the renowned dependability of Cummins' engines," Fu highlights. In addition, the ISG series is stronger, lighter, and quieter, and outperforms competitive engines in every benchmark – from power and torque to fuel efficiency, driveability, and reliability.

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About Cummins

Cummins Inc., a global power leader, is a corporation of complementary business units that design, manufacture, distribute and service diesel and natural gas engines and related technologies, including fuel systems, controls, air handling, filtration, emission solutions and electrical power generation systems.

Headquartered in Columbus, Indiana, (USA) Cummins currently employs approximately 54 600 people worldwide and serves customers in approximately 190 countries and territories through a network of approximately 600 company-owned and independent distributor locations and approximately 7 200 dealer locations. Cummins earned $1.65 billion on sales of $19.2 billion in 2014.

Cummins Africa Middle East Pty Ltd. has oversight of Cummins' operations in Africa and Middle East with a footprint in 68 countries, and has regional offices in Casablanca, Dubai, and Johannesburg.

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