

FPT INDUSTRIAL PRESENTS ITS CURSOR 13 NATURAL GAS ENGINE SPECIFICALLY DESIGNED FOR BUSES AT IAA 2018 EXHIBITION IN HANNOVER

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At the IAA 2018 exhibition in Hannover, FPT Industrial strengthens its presence in the market as a **multi-power solutions provider**, while reaffirming its **leadership in the field of Natural Gas (NG) technologies**. FPT Industrial offers **the widest Natural Gas and Biomethane solutions on the market**, available in a power range from 136 to 460 hp, Euro VI step D Standard ready. All FPT Industrial NG engines are as **powerful as Diesel with lower CO₂ and ultra-low NO_x emissions**.

Last year, **FPT Industrial** unveiled the **most powerful 100% Natural Gas engine** on the market: **the Cursor 13 Natural Gas**. After being the first engine to be designed especially for long-haul trucks, the Cursor 13 Natural Gas is now at **IAA 2018**, in Hannover (Hall 16, Booth A42). FPT Industrial presents the Cursor 13 NG now also available for **coach applications**.



FPT Industrial Cursor 13 Natural Gas

This Cursor 13 NG has a **new oil sump** and **front end specifically designed to satisfy all application needs**, while maintaining its position as the most powerful 100% Natural Gas engine on the market. The engine delivers a **power** of up to **460 hp at 1,900 rpm**, and **torque**

up to **2,000 Nm at 1,100 rpm**, and it can run on **CNG** (Compressed Natural Gas), **LNG** (Liquefied Natural Gas) starting from “methane number” 70 and **Biomethane**, with the latter capable of reducing **CO₂ emission levels near to zero**.

As well as the other FPT Industrial NG engines, the Cursor 13 NG uses **stoichiometric combustion** to generate its power. FPT Industrial has been using this technology since 1995 in order to comply with the most stringent emission limits with a simple and easy-to-install three way catalyst with **no-EGR, no-SCR and no-DPF**.

All this is combined with great benefits in terms of **sustainability**, both for the environment and for customers. There is a **98% PM reduction** and a **48% reduction in NO_x**, compared to Euro VI compliant Diesel engines. The **noise pollution is also lower** thanks to the smoother and quieter engine combustion cycle.

Furthermore, the EGR-free combustion, the multipoint fuel injectors and the fuel rails grant a class **leading fuel consumption**: compared to Diesel, the **fuel cost savings is up to 40%**. Moreover, the Nickel-Resist cast-iron exhaust manifold, the water cooled wastegate turbocharger and the Compacted Graphite Iron (CGI) cylinder head enable the Cursor 13 NG to achieve **high reliability** standards, both in terms of mechanical and thermal stress.

As for **compactness**, FPT Industrial lean technology – requiring no-adoption of AdBlue – delivers a **lighter and more compact solution**, allowing optimization of the bus payload and space availability. This feature enables larger fuel tanks to be mounted, thereby extending the mission range.

Finally, this engine is protected by **two patents**, (patent protections are still in progress): the first is FPT Industrial **proprietary knock control** that makes it possible to increase the performance, enables the widest fuel compatibility, and protects engine and three-way catalyst from misfiring. The second is FPT Industrial’s **proprietary reactive air-flow control management system**, a new stoichiometric ratio control logic that is applied during gearshifts. This ensures a continuous torque delivery when coupled with AMT gearshifting, which enables maximized performance and the fastest gearshift.

Cursor 13 Natural Gas Euro VI Step D Specifications

Architecture:	6 Cylinders in line
Injection System:	Multipoint Injection with Stoichiometric Combustion

Air Handling:	Water cooled Wastegate Turbocharger
Valves per cylinder (number):	4
Displacement (L):	12.9
Bore per stroke (mm):	135x150
Max Power hp (kW) @ rpm:	460 (338) @ 1,900
Max Torque (Nm @ rpm):	2,000 @ 1,100
Service Intervals (Km):	Up to 90,000
Dimensions L / W / H (mm):	1,610 / 1,027 / 1,178
Dry Weight (kg):	1,240
ATS:	3-way catalyst (no-EGR, no-DPF, no-SCR)

FPT Industrial is a brand of CNH Industrial, dedicated to the design, production and sale of powertrains for on and off-road vehicles, marine and power generation applications. The company employs more than 8,000 people worldwide, in ten manufacturing plants and seven R&D Centres. The FPT Industrial sales network consists of 73 dealers and about 800 service centres in almost 100 countries. A wide product offering, including six engine ranges from 42 hp up to 1,006 hp, transmissions with maximum torque of 200 Nm up to 500 Nm, front and rear axles from 2 to 32 ton GAW (Gross Axle Weight). FPT Industrial offers the most complete Natural Gas engines line-up on the market for industrial applications, including engine ranges from 136 hp up to 460 hp. This extensive offer and a close focus on R&D activities make FPT Industrial a world leader in industrial powertrains. For further information, visit www.fptindustrial.com.

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