

NEW FPT V20, *POWER WITHOUT COMPROMISE*: FPT INDUSTRIAL UNVEILS ITS NEW 20-LITER ENGINE AT CONEXPO 2017

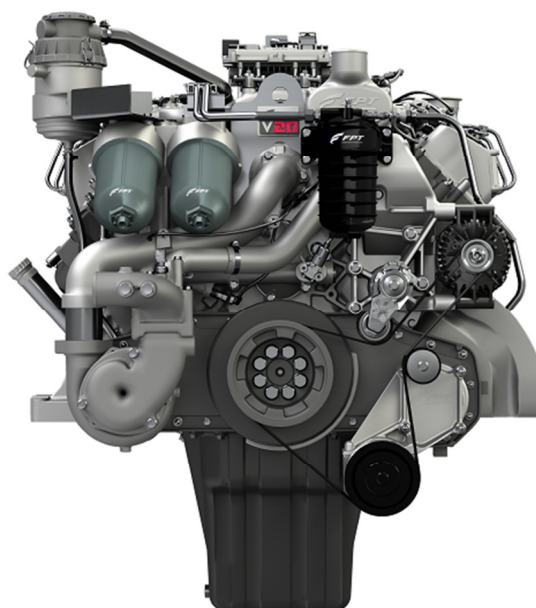
- *Up to 910 hp thanks to the new Common Rail Injection system and an outstanding power-to-weight ratio*
- *Top productivity thanks to high efficiency and regeneration free ATS*
- *The most compact in its class with a lean V8 (8 cylinders) architecture*

Las Vegas, March 7, 2017

“Power without compromise”: FPT Industrial unveils the world preview of the **V20**, its powerful new top-of-the-range engine, at **Conexpo 2017**, Las Vegas. Attendees can discover the new powertrain at the company’s stand (**South Hall 4 – Booth S84005**) March 7 to 11.



PRESS RELEASE



The new **FPT V20** is a 20-liter engine with a 90° V8 (8 cylinder) architecture engine, which performs at a **maximum power of up to 910 hp @ 1,800 rpm** and a **maximum torque of up to 3,024 lbs*ft (4,100 Nm) @ 1,500 rpm**. It presents a **new proven 2,200 bar Common Rail Injection system** and ECU (Electronic Control Unit) - the same adopted by FPT Industrial’s Cursor engine family - resulting in high system efficiency and low fluid consumption. At the same time, the lean V8 design with no-EGR, as well as the single-stage WG turbocharging and high resistance materials, guarantee **system reliability**.

The FPT V20 has been specifically developed to match all the requirements coming from different application fields. Thus, it is suitable for both **stationary and mobile applications**, such as Construction, Power Generation, Military, Agriculture, and Railways.

The V20 is best-in-class for power-to-weight ratio (13% more than 12 cylinders competitors' average), delivering high performance while preserving vehicle stability and reducing load on axles. **The V20 is also the most compact engine of its category**, minimizing impact on vehicle dimensions and load capacity. The V20 features **top efficiency benefits**: it permits **up to 2% of savings on fuel** compared to 12 cylinder engines averages thanks to lower friction and smaller displacement. Furthermore, the V20's cross-banks exhaust system design releases **optimal turbochargers fluid-dynamics for maximum efficiency**.

Developed to be as productive as possible, the V20 adopts a **one side serviceability layout**: oil, fuel, and blow by filters are placed on the front side allowing an easy access position from the vehicle hood; all filters are remote-mountable on request to fit multiple applications layouts. At the same time, the single cylinder heads are designed and made in high-resistance nodular cast iron to guarantee higher performance with 220 bar PCP and easier maintenance operations.

The V20 adopts FPT Industrial's **HI-eSCR technology**, proven by more than 25 year of experience and exclusive patented solutions. This regeneration and maintenance free ATS allows **maximized vehicle uptime and low cost of ownership**. The new turbocharger layout with turbines outlet junction allows to improve and to simplify the ATS piping and performance.

V20 Tier4 Final / Stage V Specifications

Architecture:	90° V8 Cylinders
Injection System (psi/bar):	Common Rail (up to 31,910/2,200)
Air Handling:	1 WG per cylinders bank
Valves per cylinder (number):	4
Displacement (inch ³ /dm ³):	1,227 / 20.1
Bore per stroke (inch/mm):	5.71 x 5.98 / 145 x 152
Peak Power (hp @ rpm):	910 @ 1,800
Rated Power (hp @ rpm):	830 @ 2,100
Max Torque (lbs*ft @ rpm):	3,024 @ 1,500
Max Torque (Nm @ rpm):	4,100 @ 1,500
Dimensions L / W / H (inch/mm):	63.0 / 46.8 / 52.7 1,625 / 1,190 / 1,340 (*)
Dry Weight (lbs/kg):	3,527 / 1,600
Oil Service Interval (h):	600
EGR:	NO
ATS:	SCR (HI-eSCR)

(*) values of base engine version; to be finalized with FPT Industrial for different engine dressing

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 93 dealers and over 900 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) 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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