



OFF ROAD

CONSTRUCTION

**Our efficiency.
Your edge.**



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THE STAGE V CHALLENGE

Technological excellence and product innovation are at the core of FPT Industrial's mission. We have focused our R&D activities in order to become the innovation leader in the industrial powertrain field and a go-to provider of the most advanced solutions with a low environmental footprint.

Compliance with emission standards comes with minimal impact on vehicle architecture. HI-eSCR is a breakthrough technology bringing vast performance and efficiency benefits. This FPT patent makes the most of a 25-year, 1-million-unit experience.

To comply with future Stage V standards, the second generation HI-eSCR2 builds competitive advantages, including best-in-class performance and low running costs.

FPT's Stage V Solution

- High Productivity
- Reduced operating costs
- "For life" after-treatment systems
- Enhanced reliability
- Maximised uptime

High Performance	Best in class power and torque density.
Low Operating Costs	Best in class fluid consumption. Maintenance-free after-treatment system: no replacement costs over lifecycle.
Ease of Use	Extended service intervals.

Emission Standards Scenario

During the combustion process, the chemical energy of the fuel is converted into mechanical energy. Because of the chemistry of combustion, several pollutants are produced, of which the most harmful are Nitrogen Oxides (NOx) and Particulate Matter (PM).

Since 2011, when Tier4 Interim/ Stage IIIB came into force, many efforts have been made to reduce such pollutants damaging the environment.

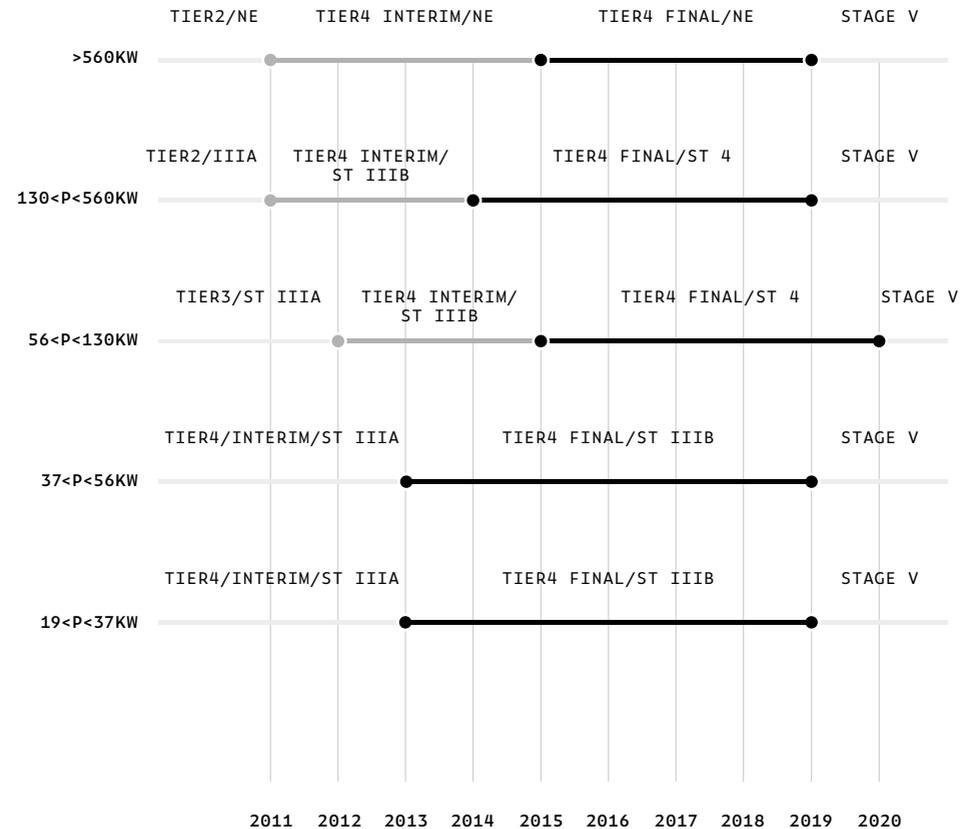
Tier4 Final/Stage IV regulation, introduced in 2014, implied a further significant reduction of NOx (~80% Vs. Tier4 Interim/Stage IIIB levels) while PM was not affected by further reductions.

Stage V, a new regulatory step, will be introduced in Europe starting from 2019/2020 depending on engine power level, further tightening the limits on PM emissions: admitted PM quantity will be reduced by 40% compared to Stage IV and a new limit will be introduced on the number of emitted particles (Particle Number Limit, PN).

In addition, Stage V regulation will involve power ranges currently with lighter or no legislation at all in Europe (power ranges below 37kW or above 560 kW).

Emission Regulations — Roadmap

EUROPEAN NON ROAD MOBILE MACHINERY, AGRICULTURAL AND FORESTRY TRACTORS & USA NON ROAD COMPRESSION & IGNITION ENGINE EMISSION STANDARDS



Legend

After the introduction of Tier4 Final/Stage IV emission limits in 2014-2015, a further regulation re-enforcement will be introduced for European Non-Road applications in 2019 or 2020 depending on power levels. Emission Durability Period: 8000 hours, 10 years. No new type approval in Europe for existing emission stage permitted in the year before new emission stage introduction



Construction is about imagining a future and creating it step by step. This is what we do too: every day.

HI-eSCR 2

Tier 4 final/ Stage IV

FPT Industrial's patented HI-eSCR system is able to reduce the NOX levels more than 95%, offering best-in-class conversion efficiency; moreover, thanks to no DPF, the FPT solution is maintenance free and improves productivity by avoiding downtime during operation for filter cleaning or replacement.

Stage V

To maintain the advantages of the unique and unbeaten HI-eSCR technology, FPT Industrial will integrate a maintenance-free filtering device on its SCR catalyst, thus allowing to comply with tightened limits on PM emissions within a compact package.

The second generation HI-eSCR 2, applicable for engines above 56kW and below 560kW, where different emission limits apply, will maintain the same after-treatment dimension of the current Tier4 Final / Stage IV applications, requiring no machine redesign nor layout changes for easier upgrade to next emission level.

Thanks to optimized combustion, leadership on performance and fuel efficiency is confirmed, while maintenance-free after-treatment ensure low running costs avoiding unplanned downtime.

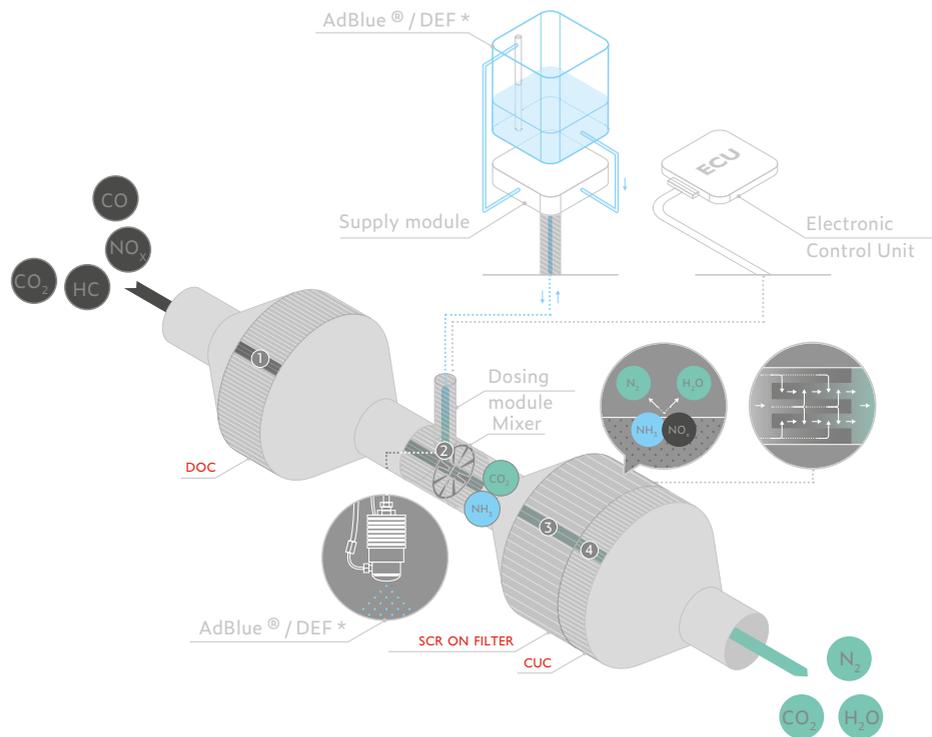
Advantages

- High performance for increased vehicle productivity.
- No additional complexity and lean design for easier installation and maximum reliability.
- Low operating costs thanks to high efficiency and long service intervals.

By way of continuous technical advantages our state of the art engine range allows our customers to have class leading features, such as minimized total cost of ownership and outstanding performance. Key to the optimization of engine efficiency is EGR-free combustion on NEF and Cursor engine families, together with high cylinder pressure and high injection pressures: engines adopting the latest generation of Common Rail system feature peak nozzle pressures of up to 2200 bar.

To achieve these targets, crankcase and cylinder head design has been improved to ensure increased structural stiffness. An Electronic Control Unit manages engine parameters and guarantees an accurate control of the after treatment system.

Extended service interval, together with a maintenance-free after-treatment solution reduce running cost for end users.



1. **DEF/AdBlue Supply Module**

2. **DEF/AdBlue Dosing Module**

3. **Diesel Oxidation Catalyst (DOC)**
 NO → NO₂
 HC, CO and PM oxidation

4. **DEF/AdBlue Injection**
 Hydrolysis → NH₃+CO₂S.
 5. **DEF/AdBlue Mixer**

6. **Selective Catalytic Reduction (SCR)**
 NO and NO₂ reduction by NH₃ to N₂ and H₂O

7. **Clean Up Catalyst**
 Residual NH₃ oxidation

*AdBlue®/DEF = CO(NH₂)₂ + H₂O

Legend

PM Particulate Matter
 HC Unburnt Hydrocarbons

NOx Nitrogen Oxides
 CO Carbon Monoxide

N₂ Nitrogen
 CO₂ Carbon Dioxide
 H₂O Water

HI-eSCR₂

Main Components

The whole system is fitted with a network of integrated sensors to control temperature, pressure and NOx levels.

Exhaust gas flow coming from the engine enters the DOC, where NO is oxidised to NO₂, in order to maximize SCR catalyst's efficiency conversion.

The ECU (Engine Control Unit), the brain behind the HI-eSCR 2 system, checks, through integrated sensors network, the amount of Water-Urea (DEF/AdBlue) solution to be injected in the exhaust pipe. To increase the durability of the injector, Dosing Module is cooled by the engine coolant. The HI-eSCR 2 after-treatment system adopts a filtering device on its SCR catalyst. At the same time as trapping and oxidizing the Particulate Matter, the catalyst converts NOx into Nitrogen (N₂) and water (H₂O) thanks to the chemical reaction of Ammonia (NH₃) generated from DEF/AdBlue. In the end, the integrated CUC eliminates the remaining Ammonia (NH₃). The result is a reduction of NOx superior to 95% and the PM levels within Stage V emission limits.

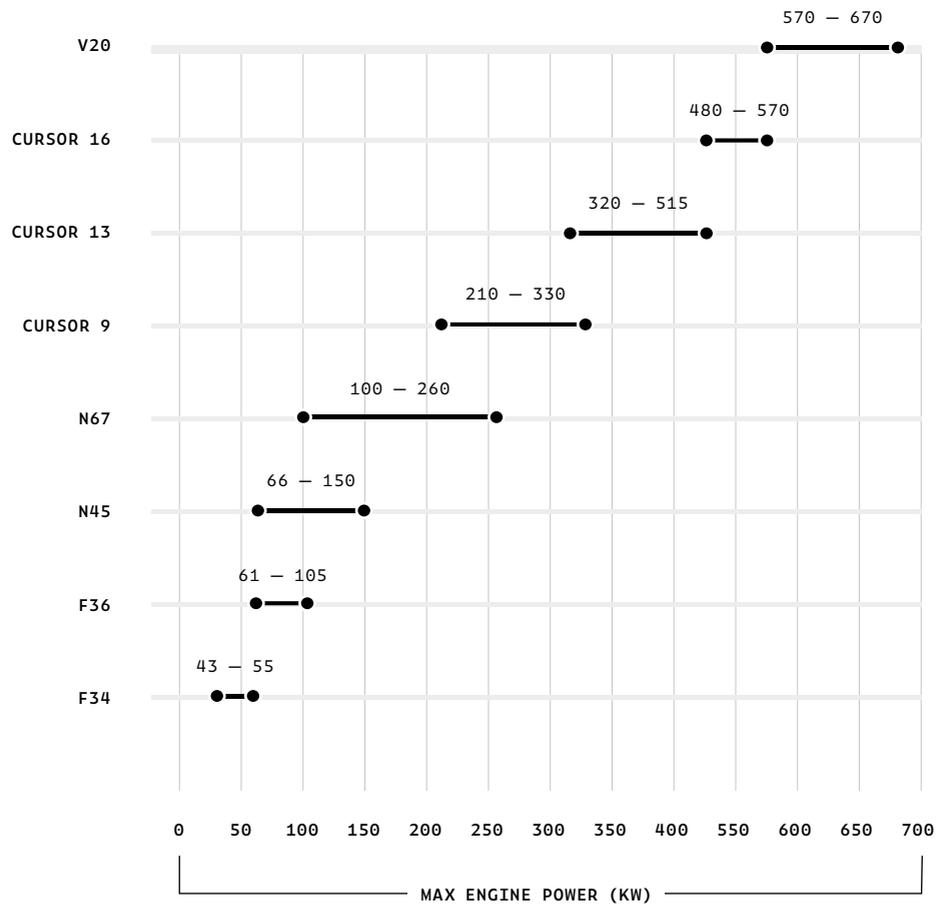
Patents

- Closed loop control with proprietary algorithms and dedicated sensors to provide accurate monitoring of exhaust gas composition and optimized DEF/AdBlue dosing strategy.
- Thermally insulated high turbulence mixer to allow homogeneous DEF/AdBlue evaporation and urea hydrolysis ensuring correct distribution in exhaust gas flow.
- Optimized exhaust gas thermal management to ensure emission compliance in all working conditions.
- All after-treatment components are packaged in a compact and fully enclosed structure, providing flexible layout options to simplify installation on machines.

HI-eSCR₂

FPT Off Road Engine Portfolio

STAGE V



THE F5 SERIES

From 43 to 105kW

Architecture
4 CYL, 3,4 - 3,6 L
displacements.

Torque
Up to 600 Nm.

**After Treatment
System**
HI-eSCR2
(above 55kW).

Service
600 hours service
intervals.



In construction equipments, constant innovation is key. Even as size requirements for compact vehicle grow more demanding, ever-higher productivity is needed on the fields. New technology boosts performance within existing layout constraints.

FPT Industrial's solutions increase engine displacement with no change in external dimensions. Better turbocharger and piston designs bring more power and outstanding torque density for the F5 series. Our innovative products liberate resources by reducing costs and providing simpler maintenance over the lifecycle.

F36



F34



Engine Specifications

Model	Cyl Arrangement Air Handling	Turbocharging	Injection System	Displacement (Liters)
F36	4L/TCA	WG	Common Rail	3.6
F36	4L/TCA	WG	Common Rail	3.6
F36	4L/TCA	WG	Common Rail	3.6
F36	4L/TCA	WG	Common Rail	3.6
F34	4L/TCA	WG	Common Rail	3.4

Power			Torque		Emission Standard	Exhaust System
(kW)	(hp)	(RPM)	(Nm)	RPM		
105	143	2300	600	1300	Stage V	HI-eSCR2
90	122	2200	490	1400	Stage V	HI-eSCR2
75	102	2200	430	1400	Stage V	HI-eSCR2
61	83	2300	334	1500	Stage V	HI-eSCR2
55	75	2200	424	1200	Stage V	DOC+DPF

Legend

Preliminary engine data for F36 above 56kW.
Max engine capability indicated for F34
below 56kW.

Air Intake
TCA Turbocharged aftercooled

Turbocharging
WG Fixed geometry turbocharger
with WasteGate valve

The Power of Density

Diesel engines are continuously challenged to deliver growing performance within existing layout constraints, improving power and torque density through new technologies.

The FPT solution for light and midrange applications above 56kW (75hp) is the new F36 Stage V, increasing engine displacement from 3,4 to 3,6 L with no changes in external dimensions, thus ensuring unchanged compactness. Improved engine hardware includes new turbocharger and optimized piston design to cope with higher performance, increasing power output by 14% (up to 105kW / 143hp) and torque by 20% (up to 600 Nm), setting best in class torque density in its class.

The lowest EGR rate in the market (<10%) enables to reduce after-treatment dimension by up to 20%; overall after-treatment packaging is unchanged between Stage IV and Stage V, avoiding machine redesign across emission stages.

Sharing the same robust design approach, F34 with 3,4 L displacement covers application below 56kW (75hp) with prompt engine response and high torque output to ensure quick engine reaction to variable loads in compact machineries. Up to 600 hours oil change interval and one-side service ability reduce operating costs and simplify maintenance operations over lifecycle.

Key Advantages

	Features	Benefits
Performance	New 3,6 L displacement with 14% higher power and 20% more torque vs. Stage IV. Torque density leadership (+15% than competitors' avg.). 424 Nm output for 34.	Higher output within same engine dimensions. Prompt engine response for all applications, also below 56kW.
Compactness	The lowest EGR rate in the market (<10%). No changes in engine and ATS dimensions nor in cooling package.	20% reduction in ATS and urea tank dimensions for F36 above 56kW. Same installation for Stage IV and Stage V footprint.
Ease of use and low cost of ownership	Best in class 600h service intervals with one-side filters access. Maintenance-free HI-eSCR2 system.	Safe, easy and fast maintenance operations. Reduced operating costs & maximized vehicle uptime.

THE NEF SERIES

From 66 to 260kW

Architecture

4 CYL, 4,5 L displacement / 6 CYL, 6,7 L displacement.

Torque

Up to 1420 Nm.

After Treatment System

HI-eSCR2

Service

1200 hours service intervals.



Our NEF series boosts productivity. More than 1.7 million engines sold attest to FPT Industrial's leadership since 2001.

NEF boasts best-in-class power and torque performance, fuel efficiency and reliability. It is highly flexible, with 4 and 6 cylinder configurations, featuring non-structural design.

The new Stage V NEF series marks an additional leap in efficiency. With no change in engine size and layout, innovative designs in cylinder head, pistons and turbochargers raise the performance further, leaving the competition behind.

N45



N67



Engine Specifications

Model	Cyl Arrangement Air Handling	Turbocharging	Injection System	Displacement (Liters)
N45	4L/TCA	WG	Common Rail	4.5
N45	4L/TCA	WG	Common Rail	4.5
N45	4L/TCA	WG	Common Rail	4.5
N67	6L/TCA	eVGT	Common Rail	6,7
N67	6L/TCA	WG	Common Rail	6,7
N67	6L/TCA	WG	Common Rail	6,7
N67	6L/TCA	WG	Common Rail	6,7
N67	6L/TCA	WG	Common Rail	6,7

Power			Torque		Emission Standard	Exhaust System
(kW)	(hp)	(RPM)	(Nm)	RPM		
150	204	2100	800	1400	Stage V	HI-eSCR2
125	170	2200	712	1500	Stage V	HI-eSCR2
103	140	2200	637	1500	Stage V	HI-eSCR2
89	121	2200	539	1250	Stage V	HI-eSCR2
260	354	1800	1420	1400	Stage V	HI-eSCR2
212	288	2200	1160	1500	Stage V	HI-eSCR2
191	260	2200	1159	1500	Stage V	HI-eSCR2
151	205	2200	940	1500	Stage V	HI-eSCR2
129	175	2200	802	1500	Stage V	HI-eSCR2

Legend

Power refers to engine rated speed, except for max engine capability (260kW peak)

Air Intake
TCA Turbocharged aftercooled

Turbocharging
WG Fixed geometry turbocharger with WasteGate valve
eVGT Electronic Variable Geometry Turbocharger

Productivity Leader

Developed to satisfy the most demanding productivity requirements of construction and industrial missions, the NEF Series marks FPT Industrial technological excellence since 2001, strong of more than 1.7 million engines produced. Featuring best-in-class power and torque performance, fuel efficiency and reliability, the NEF Series stands out for its flexibility, available in 4 (N45) and 6 (N67) cylinders configurations, with non-structural and structural design.

In its continuous commitment to provide leading products and improved solutions, FPT Industrial introduces the new Stage V NEF Series setting a further step towards higher productivity. Maintaining the same engine dimensions and layout of previous versions, cylinder head, pistons and turbochargers have been redesigned for performance increase: up to 150 kW on N45 (+15%) and up to 260 kW on N67 (+13%) to deliver best in class power and torque density (up to +15% Vs. competitors average).

New filters with increased capacity and clogging sensor are capable of up to 1200 hours service interval, the longest in the market and twice the previous interval. This new feature comes along with the innovative HI-eSCR2 after-treatment system, which comply with Stage V regulations with a maintenance-free, contributing to low operating costs.

Proven and further enhanced EGR free combustion guarantees the fuel efficiency of NEF Series, together with additional improvements in fluid consumption, leveraging on reduced frictions for leading efficiency compared to competitors using EGR and DPF.

Lean design with no EGR and single stage turbocharging, available both as fixed or variable geometry, is a made-to-last solution ensuring maximum reliability. Thanks to the dimension-neutral approach granted by HI-eSCR2, Stage V solution features unchanged packaging and same cooling requirement compared to Stage IV.

Key Advantages

	Features	Benefits
Performance	Best in class power and torque density : up to +15% vs. competitors average in 6 L engine range.	Performance increase with same engine displacement and no layout changes. Maximized power, torque and transient response.
Low TCO	New high capacity filters with clogging sensor. Maintenance-free ATS. New piston rings design & advanced machining process	Best in class service interval up to 1200 hours. Low running costs over lifecycle. Reduced oil consumption.
Reliability	Lean design with no EGR and single stage turbocharging solution.	Ensuring robustness and durability. Proven system reliability.
Flexibility	No changes in cooling package required.	Unique solution across emission stages (Stage IIIA to Stage V).

An aerial photograph of a large-scale construction site. The terrain is a mix of dark, layered earth and lighter, sandy soil. Two yellow off-road vehicles are visible on a dirt road in the lower-left quadrant. The overall scene depicts a rugged and active construction environment.

**Our wide range of solutions
for construction machines
brings top flexibility, improves
efficiency and boosts
productivity**

THE CURSOR SERIES

From 210 to 570kW

Architecture
6 CYL, 8,7 - 12,9 -
15,9 L displacements.

Torque
Up to 3320 Nm.

**After Treatment
System**
HI-eSCR2

Service
600 hours service
intervals.



The CURSOR family responds to the most demanding heavy-duty needs in a wide range of construction applications from 210 to 570 kW.

Through ongoing innovation, these engines have constantly kept up with a growing demand for performance and with stricter emission regulations.

Research-driven advances have led to innovative technical contents, including variable-geometry turbochargers, high-pressure common rail injection, new materials and breakthrough after-treatment technologies.

CURSOR 9



CURSOR 13



CURSOR 16



Engine Specifications

Model	Cyl Arrangement Air Handling	Turbocharging	Injection System	Displacement (Liters)
Cursor9	6L/TCA	WG	Common Rail	8.7
Cursor9	6L/TCA	WG	Common Rail	8.7
Cursor13	6L/TCA	WG	Common Rail	12.9
Cursor13	6L/TCA	WG	Common Rail	12.9
Cursor13	6L/TCA	WG	Common Rail	12.9
Cursor16*	6L/TCA	WG	Common Rail	15.9

Power			Torque		Emission Standard	Exhaust System
(kW)	(hp)	(RPM)	(Nm)	RPM		
245	333	2100	1510	1500	Stage V	HI-eSCR2
265	360	2100	1620	1500	Stage V	HI-eSCR2
305	415	2100	1800	1500	Stage V	HI-eSCR2
346	471	2100	2000	1400	Stage V	HI-eSCR2
384	522	2100	2258	1400	Stage V	HI-eSCR2
407	554	2100	2400	1400	Stage V	HI-eSCR2
480	653	2100	2751	1500	Stage V	HI-eSCR2

Legend

* Max performance on Cursor16: 570kW @ 2100 rpm/ 3.320Nm @ 1500 rpm
Power refers to engine rated speed

Air Intake

TCA Turbocharged aftercooled

Turbocharging

WG Fixed geometry turbocharger with WasteGate valve

Designed to Go Beyond

Developed for the most demanding heavy duty needs, the Cursor series provides robust design for highly intensive missions in a wide range of construction applications from 210 to 570 kW. First launched in 1998, the Cursor range has gone through continuous improvements to keep pace with growing market requirements in performance and efficiency, while complying with stricter emission regulations and always offering innovative technical contents, such as variable-geometry turbochargers, high-pressure common rail injection, new materials and breakthrough after-treatment technologies.

All Cursor engines share 6 cylinder architecture and EGR-free technology, ensuring optimal engine output with highly efficient combustion, resulting in effective performance and low cooling requirements, unchanged from Stage IIIA to Stage V for smart synergies across machine layouts. Moreover, all engines meet Stage V regulation with maintenance-free HI-eSCR2 system, the latest generation of FPT's longstanding experience in after-treatment technology, proven by more than 1 million systems sold to date. No need of filter replacement over lifecycle, together with up to 600 hours oil change interval, minimizes running costs.

Cursor 9, with 8,7 liters displacement, is a compact and yet powerful solution in 210 to 330 kW range, adopting a 1800 bar common rail system, fixed or variable geometry turbocharger resulting in prompt engine response and leading power density (up to 7% better than market average).

With 12,9 liters displacement, Cursor 13 features heavy-duty 2200 bar common rail system and newly designed engine hardware for maximized robustness and durability. Cursor 13 also covers the power range from 320 to 515kW thanks to its single and high performance two-stage turbo.

Awarded as Diesel of the Year in 2014, Cursor 16 is the latest addition to the Cursor range, with 15,9 liters displacement and up to 570kW delivering 18 liters-like performance in a 13 liters package, with leading power-to-weight ratio (0,5 hp/kg). 2200 bar common rail system, innovative ball-bearing turbocharger, high-resistance cylinder head in compacted graphite iron (CGI) and more than 20.000 hours of bench-test specifically dedicated to off-road missions, make the Cursor16 a strong, reliable yet compact solution.

Key Advantages

	Features	Benefits
Performance	Portfolio for any mission. Leading power density with up to +7% Vs. market average in 9 L range. No EGR architecture.	Wide engine range covering up to 570kW. Effective performance. Maximized power, torque and transient response
Low Operating Costs	EGR-free combustion. Maintenance-free ATS. Extended oil service intervals.	Optimized fluid efficiency. Low running costs over lifecycle. Maximum uptime: 600 hours service period.
Reliability	Heavy-duty design with high pressure common rail injection. Lean design with no EGR and single stage turbocharging solution.	Proven system reliability.
Flexibility	No changes in cooling package required. Unique solution across emission stages.	(StageIIIA to StageV).

THE V SERIES

Up to 670kW

Architecture
8 CYL V, 20 L
displacement.

Torque
Up to 4095 Nm.

**After Treatment
System**
HI-eSCR

Service
600 hours service
intervals.



The V20 is a testimony to FPT Industrial's excellence in hi-tech, reliable products that create value for users on the fields. The new flagship 20-liter engine has a lean V8 architecture, with a highly compact layout and low engine weight. Superior efficiency combines with reduced engine friction. An innovative Stage V after-treatment solution curbs operating costs and downtime.

Robust engine design is coupled with new cast-iron components and advanced materials. Solidity goes hand in hand with unfailing performance, in all conditions.

V20



Engine Specifications

Model	Cyl Arrangement Air Handling	Turbocharging	Injection System	Displacement (Liters)
V20	8V/TCA	WG (1 x bank)	Common Rail	20.1

Power			Torque		Emission standard	Exhaust system
(kW)	(hp)	(RPM)	(Nm)	RPM		
670	910	1800	4095	1500	Stage V	SCR

Legend

Arrangement

V V-configuration (90°)

Turbocharging

WG Fixed geometry turbocharger with WasteGate valve

Exhaust System

SCR Selective Catalytic Reduction

Air Intake

TCA Turbocharged Aftercooler

Power without Compromise

In order to provide hi-tech reliable products designed for the toughest missions, FPT further extends its offering with the new V20, a compact yet high-performing engine with up to 670kW power output.

The new flagship 20 liter engine features a lean V8 architecture, with a 90° angle between cylinder banks, resulting in highly compact layout and low engine weight to ensure space-optimized installations while guaranteeing the right power is available in every condition, thanks to advanced engine hardware and two turbochargers optimized for any working point.

With its EGR-free, optimized combustion, the V20 boasts superior efficiency, together with V8 layout reducing engine friction compared to more complex V12 architectures.

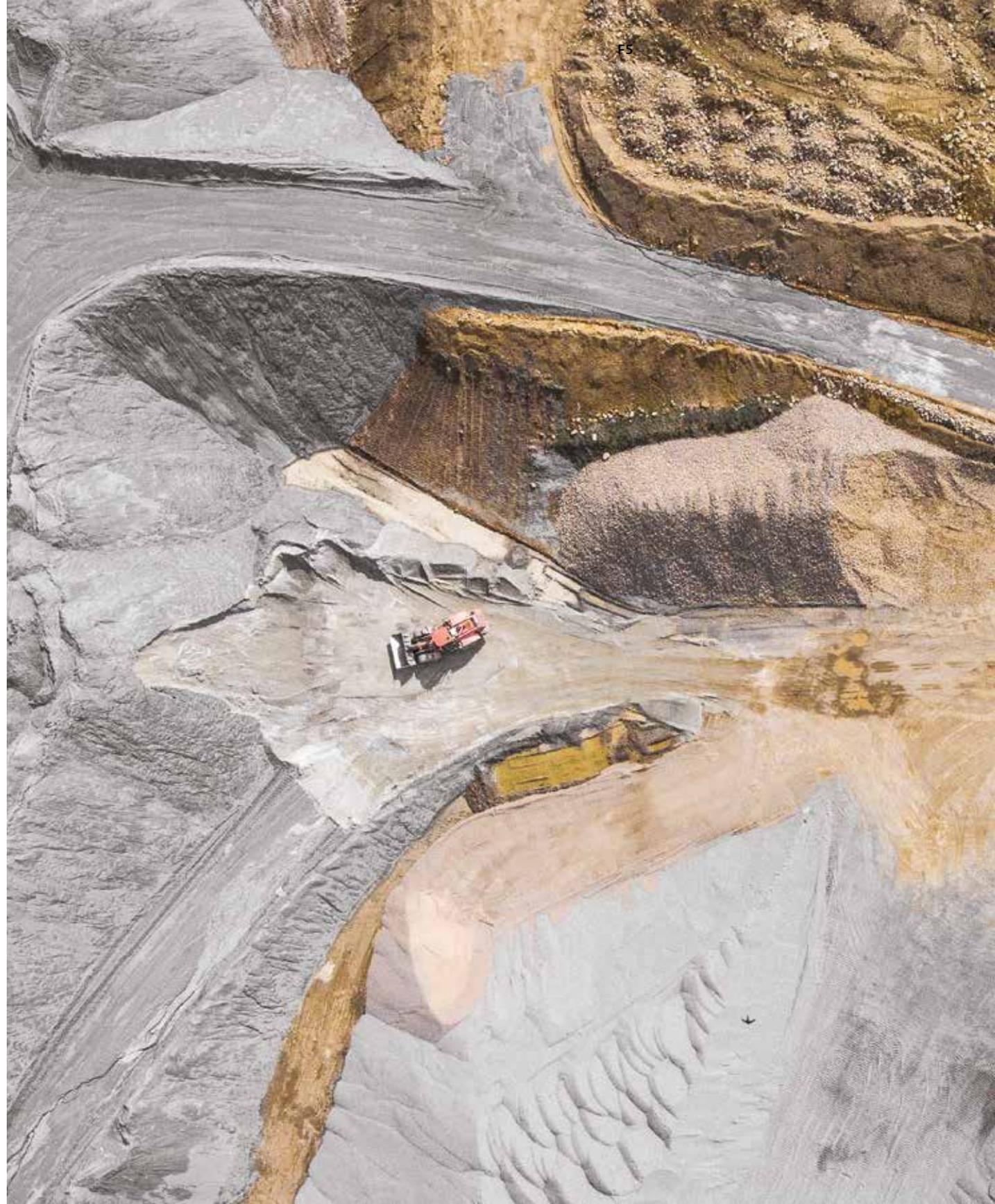
Operating costs and uptime are ensured by the maintenance-free Tier 4 Final and Stage V-ready after-treatment solution, an SCR-only system based on longstanding FPT experience in SCR technology, requiring no need for maintenance over lifecycle.

To grant the highest robustness, engine design shares 2200-bar common rail system and key components with reliability-proven Cursor engine series; furthermore, the newly designed 220 bar in-cylinder pressure-capable engine structure adopts new cast-iron components and advanced materials on valves, crankshaft and compressor wheel.

The new V20 comes with a 670 kW power and a max torque of 4095 Nm, ensuring unfailing performance output in all conditions.

Key Advantages

	Features	Benefits
Performance	0,6 hp/kg power-to-weight ratio (+13% & Compactness Vs. avg. V12 competitors). NO EGR & 220 bar of in-cylinder pressure. High T° resistant turbochargers.	The most compact high-performance engine optimized combustion. Uncompromised performance output in all conditions.
Efficiency & Total Cost of Ownership	EGR-free architecture & 2200 crankshaft bar-capable Common Rail system. Cross-bank turbocharger configuration.	Maximum engine efficiency.
	"Fit and Forget" DPF-free after-treatment system. Optimized fluid dynamics.	No need for maintenance - maximum uptime.
Robustness & Reliability	Steel pistons and high-pressure injection system from Cursor series. New advanced materials on valves, turbochargers, head.	Proven reliability. Optimized engine structure.
	SCR-only and DPF-free after-treatment solution.	Effective emission-compliance.



Our commitment to results has made us a leading player in engines, axles and transmissions for the industrial sector.

THE POWER PACK

ATS Smart Installation Package

The Power Pack is our new, smart installation solution. All key after-treatment components fit into one compact, pre-assembled set. It comes engine-mounted, providing a ready solution; or as a loose pack, to allow OEMs to design their own layout. A wide set of options can be easily custom applied to fit a wide range of applications.

This is an ideal response to the lower emission limits entailed by Stage V legislation. Compliance and machine upgrade become easier, for both mobile and stationary applications.

POWER PACK



Emissions Compliance Made Easy

Stage V legislation will bring a further reduction on emission limits and extend regulation also to stationary applications and power ranges currently at Stage IIIA, thus requiring a wide range of applications to upgrade to this next emission step.

For both mobile and stationary applications, FPT introduces a new, smart installation solution, enclosing all key after-treatment components into a single package: DOC, SCR on Filter, AdBlue injection system and all required sensors, together with manifolds, are included in a compact and pre-assembled pack avoiding the need of a dedicated exhaust system design. The pre-packed solution, moreover, offers FPT's pre-validated design in terms of fluid-dynamics, manifold layout and sensors position in order to make final validation process lean and easier.

All electrical signals and connection are managed by a single cable for fast, reliable, and quick connection to engine and machine electronic management system.

All productivity benefits of FPT Industrial technology, in terms of performance and efficiency, together with the innovative HI-eSCR2 system ensuring Stage V compliance with a maintenance-free solution, comes in a simple and flexible package.

Key Advantages

	Features	Benefits
Robustness	Fully pre-packed solution.	No specific exhaust system design.
Installability	Loose ATS pack or engine-mounted solution. Flexibility of installation. From 12 after treatment components to 1 package/all signals into a single cable.	Quick installation solution.
Flexibility	Robust pre-validated package. Lean application sign-off.	Smart installation package. Easy emission upgrade.



All the pictures, drawings, illustrations and descriptions contained in this brochure are based on product information available to FPT Industrial at the time of printing (31/08/2020). Some of the engine line-ups may refer to a specific market configuration which may not be present or offered for sale available in all other markets. The colors featured in this brochure may differ from the originals. FPT Industrial reserves the right to introduce any modifications at any time and without any prior advance notice, to design, material, components equipment and/or technical specifications.

