



OFF-ROAD

CONSTRUCTION

Power you trust.



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ABOUT FPT

FPT is a brand of Iveco Group, dedicated to the design, production, and sale of powertrains and solutions for on- and off-road vehicles, as well as marine and power generation applications.

At FPT, sustainability is a common underlying commitment, through the entire product development and as a corporate approach.

The extensive product offering includes six engine ranges with power outputs from 30 hp to over 1,000 hp, transmissions with torque up to 500 Nm and front and rear axles from 2.45 to 32 tonnes GAW (Gross Axle Weight).

FPT offers the most complete range of natural gas engines for on- and off-road applications on the market, with power outputs ranging from 50 to 520 hp.

A dedicated ePowertrain division is accelerating the path towards net zero mobility with electric drivetrains, battery packs, and battery management systems.

This extensive offering and its strong focus on R&D makes FPT a world leader in industrial powertrain solutions.

We are proud to be a Company driven by sustainability and innovation, one which builds Customer advantage through continuous research and improvement and creates value by leveraging this advantage.



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

FPT: shaping the future of the construction sector

At FPT, technological excellence and product innovation are the driving forces behind our mission. We are committed to being the leading innovator in the construction powertrain sector, achieving this through our relentless focus on research and development. Our sustainable, leading-edge solutions empower a wide range of demanding operations, maximizing efficiency and productivity while minimizing environmental impact.

With more than 150,000 units sold yearly in the Off-Road sector, we are a recognized leader in the EU market. We collaborate with key OEMs across all construction applications, ensuring our technology reaches a wide range of machinery. Our extensive global network allows us to serve both major OEMs and regional players, fostering strong partnerships at every level.

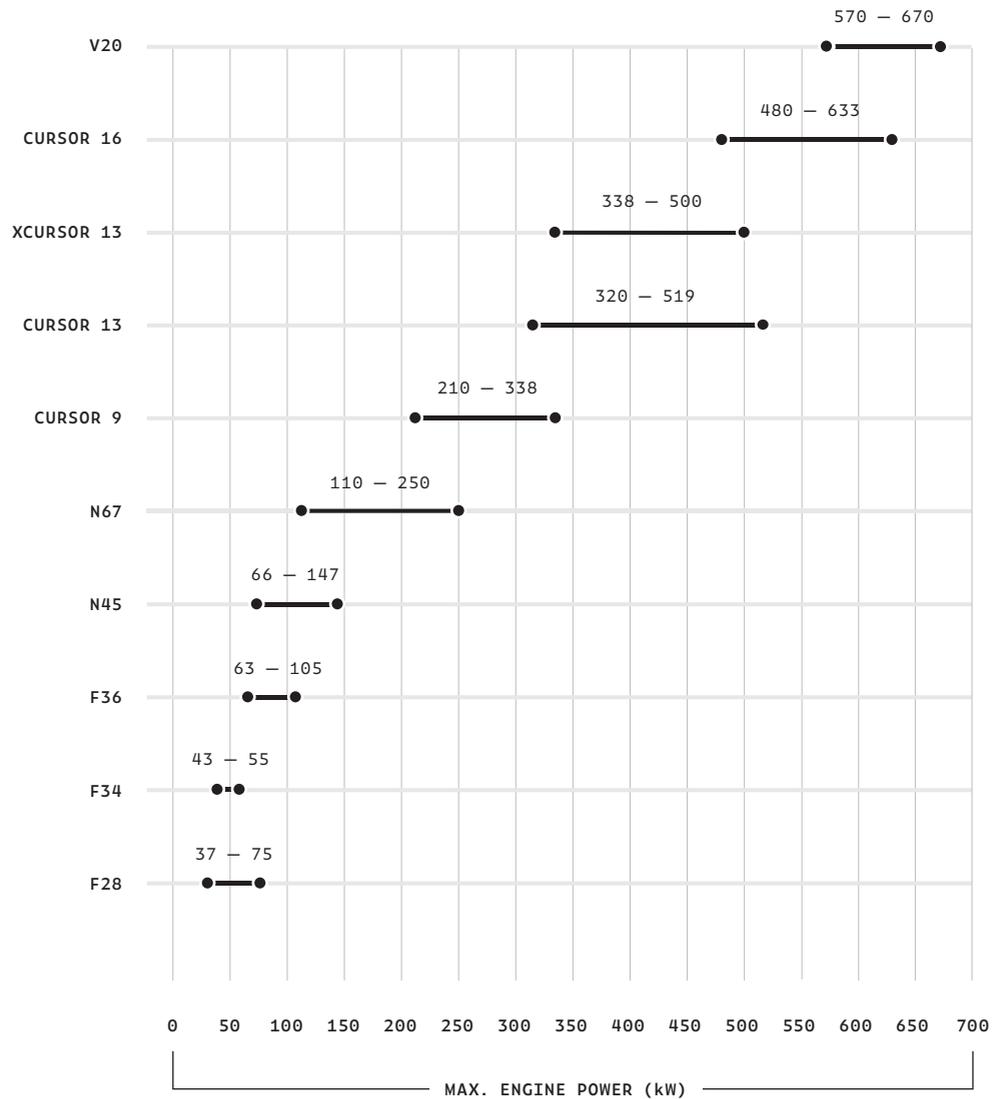
Our comprehensive engine portfolio caters to all your needs, ranging from compact 2.8 liters versions to powerful 20 liters offerings. We are pioneers in developing technical solutions that deliver exceptional performance, maximize fuel efficiency, and minimize maintenance costs.

We go beyond just providing engines. We are your trusted partner, dedicated to exceeding your expectations. Whether you require custom-designed solutions or fully pre-validated packages, we have the expertise to meet your specific needs.



FPT Off-Road Construction Engines Portfolio Overview

STAGE V / TIER 4 FINAL



THE F28 SERIES



Power range
37 to 75 kW

Torque
Up to 415 Nm

Engine model
F28
(4 cyl., 2.8 liters)

Exhaust system
Compact HI-eSCR2
(above 55kW)

Key Advantages

Performance

- Top performance with enhanced low-end torque (23% higher than the market average).
- Specific high-performance version designed for 75 kW (100 hp) / 415 Nm.
- Rapid engine response & high productivity.

Compactness

- 3.4 liters performance in a 2 liters package.
- Compact after-treatment system (ATS) with simple installation and layout.
- Matches both space and performance driven applications.

Ease of use and low cost of ownership

- Single side serviceability and up to 600-hour service interval.
- Low running costs and easier maintenance.

Multipower & Modularity

- Ready for Natural Gas & Hybrid, with a modular design sharing common base components with Diesel.
- Same installation interfaces and interoperability within engines.

THE F5 SERIES



Power range
43 to 105 kW

Torque
Up to 600 Nm

Engine model
F34
(4 cyl., 3.4 liters)
F36
(6 cyl., 3.6 liters)

Exhaust System
<56kW: DOC+DPF
>56kW: Compact
Hi-eSCR2

Key Advantages

Performance

- Top performance with high torque-oriented approach ensuring rapid engine response to variable loads in compact applications.
- Lowest EGR rate in the market (<10%), improving fuel consumption and reducing operational costs.
- The F5 Series engines are available in 3.4 liters and 3.6 liters configurations. The 3.6 liters version features an enhanced turbocharger and redesigned pistons, resulting in increased power and exceptional torque density.

Compactness

- No changes in engine and ATS dimensions nor in the cooling package.
- Even in the more powerful 3.6 liters version, the F36, there is no need for compromise between power and compactness. The F36 is able to deliver, in the same dimensions of the F34, an higher amount of power.

Ease of use and low cost of ownership

- Best in class 600h service intervals with one-side filter access.
- Maintenance-free Compact HI-eSCR2 system.
- Reduced operating costs & maximized vehicle uptime.

THE NEF SERIES



Power range
66 to 250 kW

Torque
Up to 1,400 Nm

Engine model
N45
(4 cyl., 4.5 liters)
N67
(6 cyl., 6.7 liters)

Exhaust System
HI-eSCR2

Key Advantages

Performance

- Best-in-class power and torque density in 6cyl. engine range.
- Maximized power, torque and transient response.
- Lean design with no EGR and single stage turbocharging solution.

Engine Architecture

- New high-capacity filters with clogging sensor.
- Wide range of applications and extensive configuration portfolio to meet a wide range of design needs.
- A natural gas solution based on 25 years of research for enhanced performance and low environmental impact.

Reliability

- Proven technology and reliability, with over 2 million units sold.
- Best in class service interval up to 1,200 hours.
- Low running costs over the life-cycle.
- Maintenance-free ATS maximizing vehicle uptime.

THE CURSOR SERIES



Power range
210 to 633 kW

Torque
Up to 3,717 Nm

Engine model
CURSOR 9
(6 cyl., 8.7 liters)
CURSOR 13
(6 cyl., 12.9 liters)
CURSOR 16
(6 cyl., 15.9 liters)

Exhaust System
<560 kW: Hi-eSCR2
>560 kW: SCR-only

Key Advantages

Performance

- Outstanding performance and best-in-class power density for the heavy-duty segment.
- Wide engine range covering up to 633kW.
- Effective performance and maximized power, torque, and transient response.

Flexibility

- No changes in the cooling package required providing a unique solution across emission stages (Stage IIIA to Stage V).
- Portfolio for any Off-Road mission thanks to a large product portfolio with engine displacements from 9 to 16 liters.

Reliability

- Heavy-duty design with high pressure common rail injection to reduce fuel consumption.
- Proven system reliability thanks to hundreds of thousand hours of successful on field missions.

Low Operating Costs

- A large number of turbocharging solutions: wastegate, variable geometry, and two-stage turbochargers.
- Maintenance-free ATS.
- Low running costs over the lifecycle.
- Maximum uptime: 600-hours service intervals.
- Lean design with no EGR and single stage turbocharging solution.

THE XCURSOR 13 ENGINE



Power range
338 to 500 kW

Torque
Up to 2,850 Nm

Engine model
XCURSOR 13
(6 Cyl., 12.9 liters)

Exhaust System
Hi-eSCR2

Key Advantages

Performance

- Top performance: highest energy density in 13 liters Off-Road.
- Extended power range (up to 500 kW) offering 16 liters power in a compact 13 liters package.

Engine Architecture

- New modular platform: designed with a common core and modularized for operation with multiple fuels: diesel, natural gas, hydrogen and renewables.
- WG and VGT versions for all missions and the harshest load requirements.
- Improved architecture, with CGI cylinder head and engine block, improved combustion pressure up to 270 bar, low-friction cranktrain and steel pistons.

Total Cost of Ownership

- Low CO₂ hardware for up to 6% fuel consumption reduction.
- Downspeed-ready architecture for additional efficiency gains of up to 2%.
- Extended 1,200-hour oil change intervals reduce total cost of ownership for the farmer and minimize downtime.

Reliability

- Be10 extended from 8,000 to 10,000 hours.

THE V SERIES



Power range
570 to 670 kW

Torque
Up to 4,095 Nm

Engine model
V20
(8 Cyl. V, 20.1 liters)

Exhaust System
SCR only

Key Advantages

Performance

- No EGR & 220 bar of in-cylinder pressure.
- Turbochargers resistant to high temperatures.
- The most compact high-performance engine optimized combustion.
- Uncompromised performance output in all conditions.

Efficiency & Total Cost of Ownership

- Maintenance-free Tier 4 Final and Stage V SCR-only solution ensures low operating cost and maximize uptime.
- EGR-free architecture & 2,200 crankshaft bar capable Common Rail system.
- Optimized fluid dynamics.

Robustness & Reliability

- Steel pistons and high-pressure injection system from Cursor series.
- New advanced materials on valves, turbochargers, and cylinder head.
- SCR-only and DPF-free after-treatment solution.



Our wide range of solutions for construction machines offers optimum flexibility, improves efficiency and boosts productivity



***YOU ASK
FOR THE
BEST.
WE MAKE
IT HAPPEN.***

When the market becomes increasingly challenging, it is essential to have reliable partners.

We work closely with you to provide tailor-made solutions, maximizing engine performance and durability. We are committed to doing everything possible to support you and your business.

Extended Warranty. Closer to your everyday needs.

As an add-on to the Base Warranty, our Extended Warranty program covers all required FPT Genuine parts along with any repairs carried out by highly qualified technicians.

The FPT Extended Warranty offers:

- A warranty customized to your needs.
- Warranty costs of your FPT Product are known in advance.
- Assistance by FPT qualified technicians.
- Optimal Product performance thanks to FPT Genuine Parts.

Our FPT Extended Warranty is made with the aim to be closer to you in your everyday activities. You can customize it according to your needs and extend it by up to five years. To request a quote please contact your listed FPT dealer.

OPERATING KM	COVERAGE	DURATION
 <p>Max. limit depending on rating <input type="checkbox"/> Up to 5000 hrs</p>	<input type="checkbox"/> BRONZE Major engine components only* <input type="checkbox"/> SILVER Engine only <input type="checkbox"/> GOLD Engine + Aftertreatment System	<input type="checkbox"/> 2 years <input type="checkbox"/> 3 years <input type="checkbox"/> 4 years <input type="checkbox"/> 5 years

(*) List of major components: cylinder head; cylinder block; crankshaft; camshaft; connecting rod; pistons; timing gears; flywheel; flywheel housing; oil pump; exhaust manifold; engine control unit.

Proactive Assistance. Your direct connection to the Control Room.

Thanks to our Telematic systems, ensuring optimal engine performance and smooth operation has never been easier. Installing the Telematic Kit on your engine will allow the FPT Control Room to analyse your engine data in real-time. Through this advanced system, we can promptly detect any action that will maximize the performances of your vehicle.

Our dedicated team is always ready to provide prompt assistance and support. With this proactive approach, we can address any potential issues, ensuring that your engine performs at its best.

Experience the convenience of enhanced engine performance and the peace of mind that comes with our close monitoring and support.

- Engine Status monitoring.
- Maximize uptime thanks to the prompt activation of the FPT Service, which is informed about the issue in advance, before even leaving the workshop, supported by remote pre-diagnostics.
- Engine diagnostics and repair based on FPT technical know-how and field experience.
- Monitor the performance of your agricultural vehicle/tractor in real time, with periodic reports tailored to your mission.
- Total cost of ownership reduced by minimizing downtime.



RAS - Remote Assistance Support. Ready-to-go digital assistance.

Remote Assistance, the latest assistance tool by FPT, introduces users to a new digital experience.

This user-friendly solution is remarkably easy to install and use. All it takes is for a technician to plug the hardware key into the machine's OBD (On-Board Diagnostics) port and configure it through the FPT RAS Workshop APP.

Remote Assistance enables the efficient diagnosis and resolution of specific errors and fault codes, for rapid restoration of the engine to its normal operating conditions.

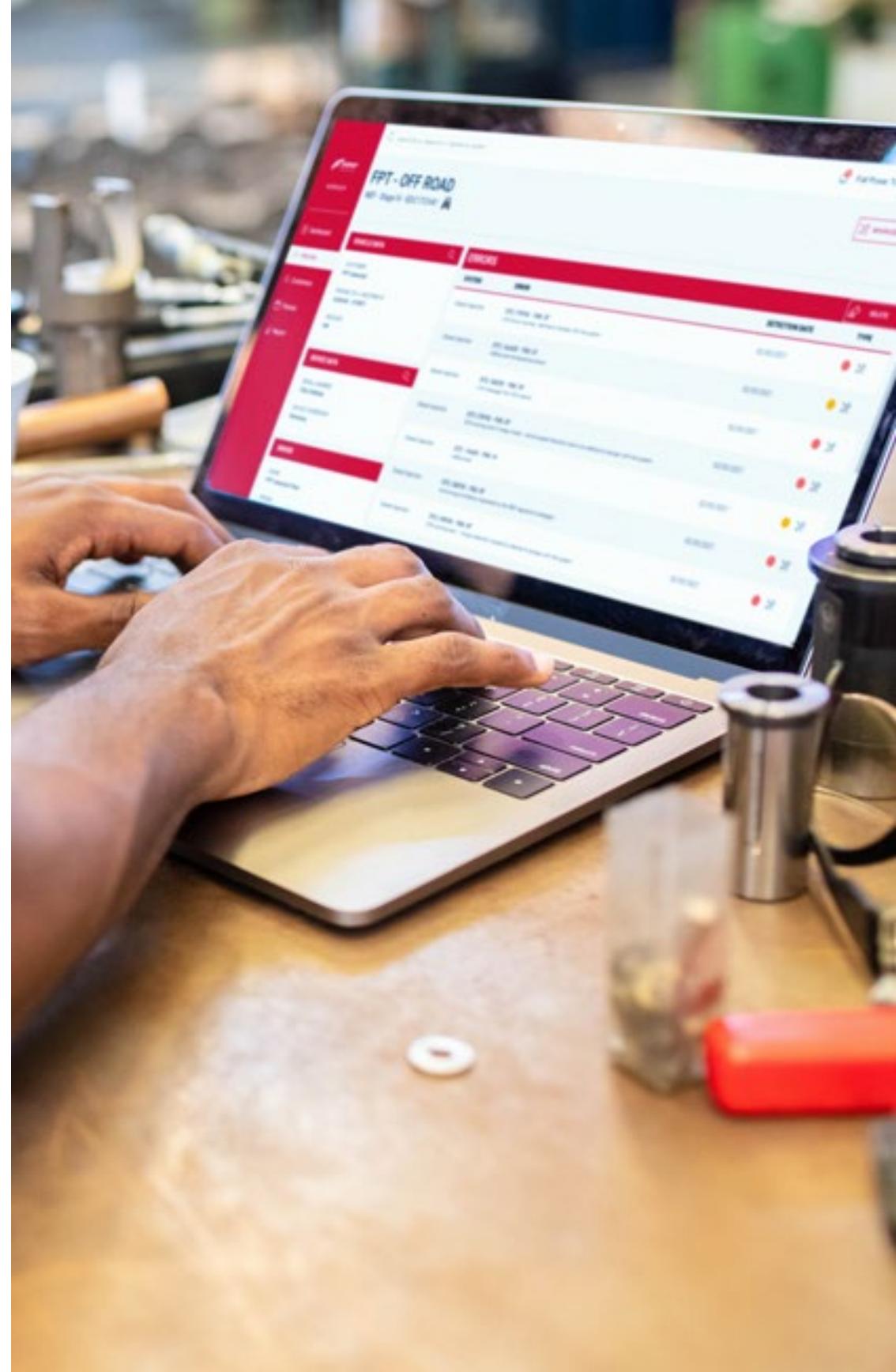
FPT has developed this product specifically for its own engines, drawing upon its expertise as a manufacturer and its engineering knowhow.

RAS is specially designed to meet Customers' needs, offering maximum reliability and comprehensive coverage across our full range of engines.

As an official diagnostic tool, RAS is in perfect alignment with the latest engine updates, including the incorporation of specific error codes.

Main features:

- Maximize uptime by immediate remote assistance.
- Comply with ECU regulations: over-the-air DPF service regeneration and error reset.
- Enable remote real-time pre-diagnosis through the Workshop Portal.



Genuine Parts. Original is better.

Our Genuine Parts are manufactured with the same rigorous procedures and premium materials as your FPT engine. They ensure:

- **Total Compatibility:** guaranteed to perfectly fit your engine.
- **Optimized Service Life:** exceptional durability without compromising engine performance.
- **Guaranteed Operation:** for optimal engine output.

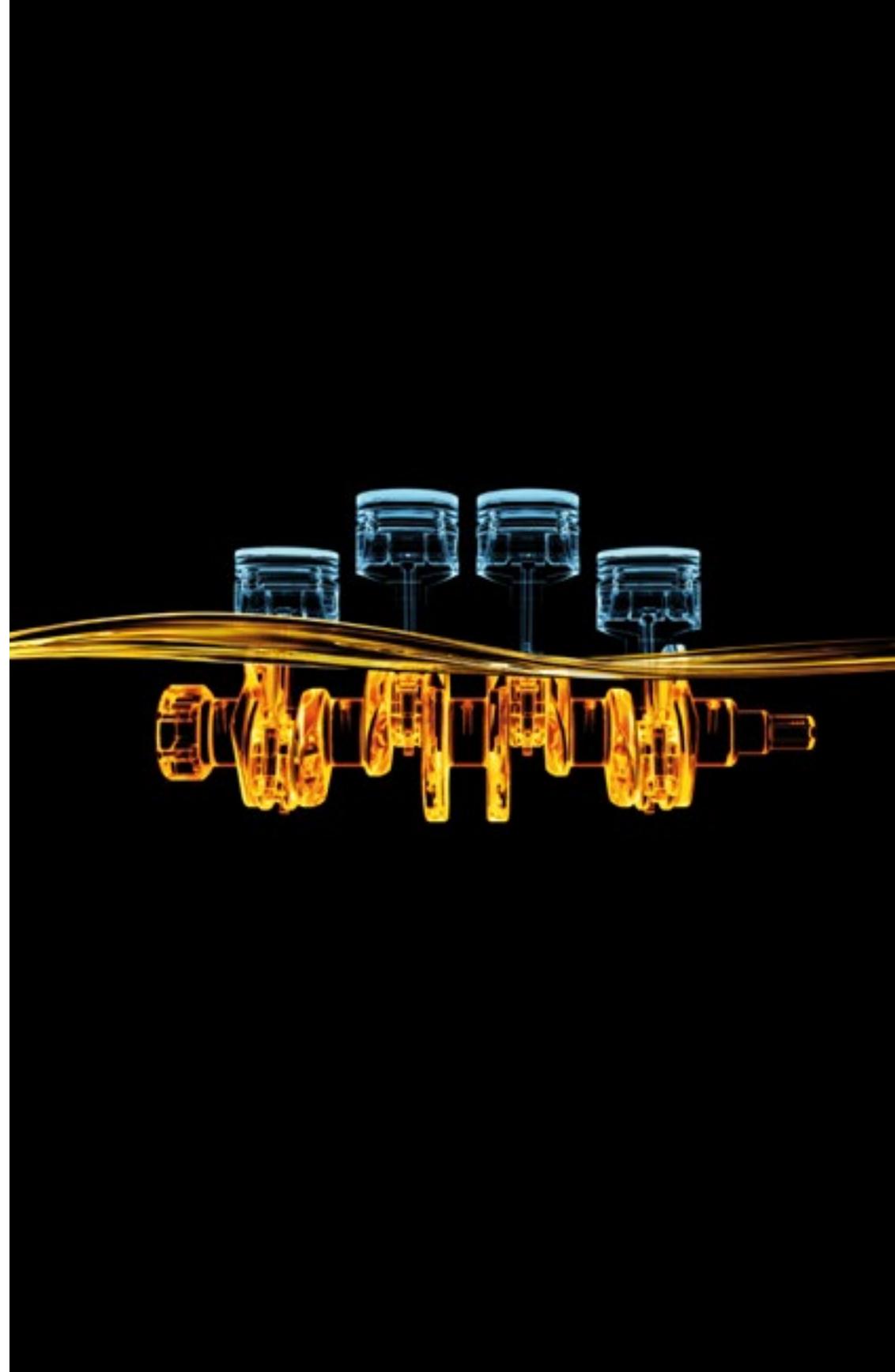
By choosing FPT Genuine Parts, you can keep your engine in perfect condition, maximizing output and uptime.

Our network of Authorized Workshops offers highly qualified technicians ready to expertly assist you in achieving peak engine efficiency.

Genuine Oils. The perfect combination.

FPT Genuine Engine Oils are designed with your missions in mind in mind. Developed for exceptional performance under any condition, our lubricants deliver:

- **Enhanced Protection & Durability:** extended engine life and minimized downtime with superior wear and tear resistance.
- **Maximized Uptime & Fuel Efficiency:** our core focus is to keep your equipment running at full efficiency. FPT Fluids are developed to guarantee the highest level of cleanliness, protection and efficiency, resulting in:
 - +87% cleaner pistons and +68% improved top ring protection.
 - +41% Cylinder Wear protection.
 - +20% improved Soot Handling and Sludge Control.
 - -20% in Total Cost of Ownership (TCO).
 - Reduced fuel and oil consumption for a greener future



You need help? We're here for you.

Because you never stop, and neither do we. Our Customer Contact Centre is active 24/7, to assist you and to activate our local support network.

For any issue or need, our technical and expert support service is ready to help you anytime, anywhere.

If you need technical support or assistance on-site, you can rely on a global network of 70 dealers and over 900 Service Points.

Discover our global dealers' network:





All the pictures, drawings, illustrations and descriptions contained in this brochure are based on product information available to FPT at the time of printing (31/01/2026). 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 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.

Contact us

