FPT

OFF-ROAD
AGRICULTURE

Power you trust.

FPT

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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.

**We innovate constantly.
We increase the benefits for
end users and create value
for the businesses we serve.**

FPT: Driving Innovation in Agriculture

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

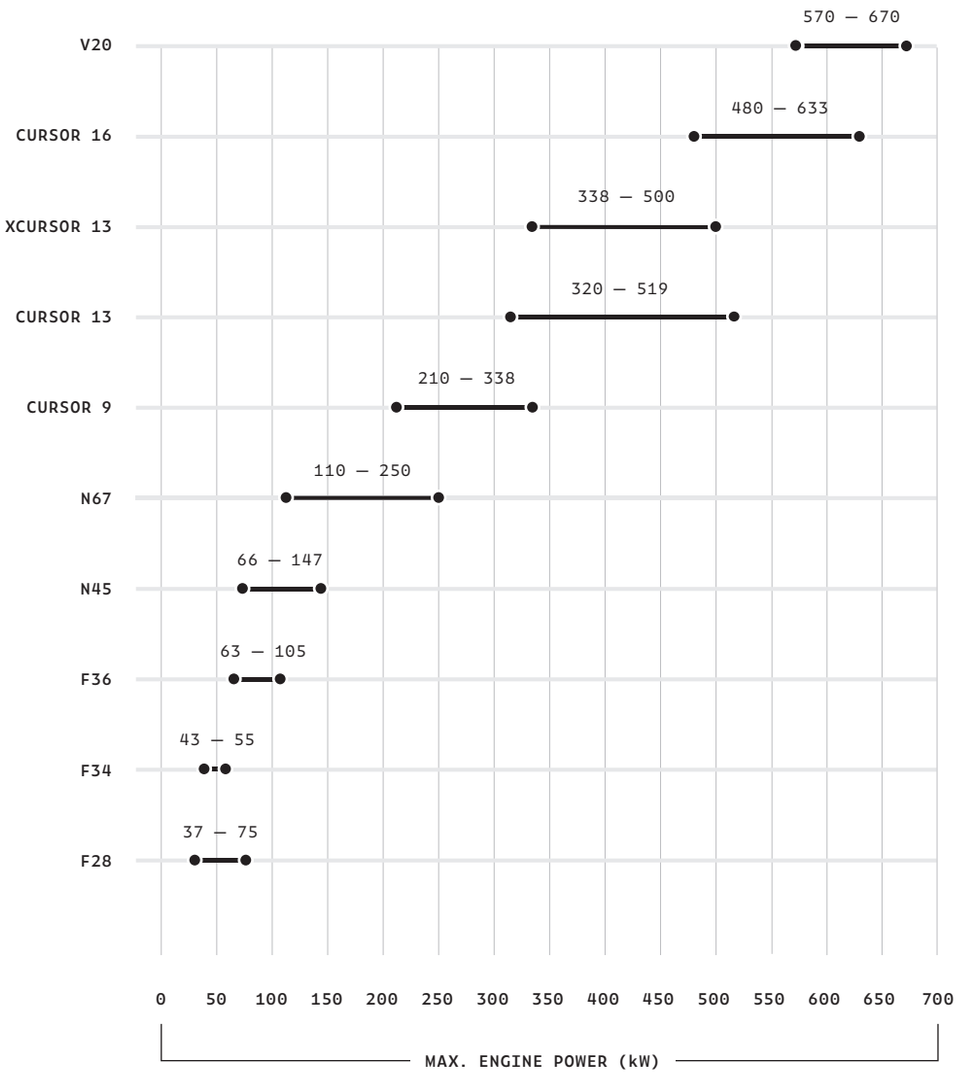
With more than 150,000 units sold yearly in the Off-Road sector, we are a recognized leader in the EU market. We collaborate with key players across all agricultural applications, ensuring our technology reaches a wide range of machinery. Our extensive global network allows us to serve both major and 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. Committed to sustainability, we offer Natural Gas versions that run on methane or bio-methane, reducing your environmental impact.

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 Agriculture Engines Portfolio Overview

STAGE V / TIER 4 FINAL



Off-Road Agriculture Stage V engines

Engine name	Cyl. Arrangement Injection System Air handling	Turbocharging	Displacemet (Liters)	Dimensions (LxWxH) mm	Dry weight (kg)	Max power kW	Max power hp	Max power RPM	Max Torque Nm	Max Torque lb/ft	Max Torque RPM	EGR	Exhaust system
F28	4L / CR / TCA	WG	2.8	691 x 594 x 806	290	75	102	2,300	415	306	1,600	•	Compact Hi-eSCR2
F28	4L / CR / TCA	WG	2.8	691 x 547 x 804	290	55	75	2,300	375	277	1,400	•	DOC (Tier 4 Final) DOC+DPF (Stage V)
F28	4L / CR / TC	WG	2.8	691 x 585 x 839	290	55	75	2,300	260	192	1,800	•	DOC (Tier 4 Final) DOC+DPF (Stage V)
F28	4L / CR / TC	WG	2.8	691 x 585 x 839	290	43	58	2,300	250	184	1,400	•	DOC (Tier 4 Final) DOC+DPF (Stage V)
F28	4L / CR / TC	WG	2.8	691 x 585 x 839	290	37	50	2,300	206	152	1,400	•	DOC (Tier 4 Final) DOC+DPF (Stage V)
F34	4L / CR / TCA	WG	3.4	690 x 603 x 902	315	55	75	2,500	424	313	1,200	•	DOC+DPF
F34	4L / CR / TC	WG	3.4	690 x 603 x 902	315	55	75	2,500	314	232	1,400	•	DOC+DPF
F34	4L / CR / TC	WG	3.4	690 x 603 x 902	315	43	58	2,500	265	195	1,300	•	DOC+DPF
F36	4L / CR / TCA	WG	3.6	702 x 614 x 898	320	105	143	2,300	600	442	1,500	•	Compact HI-eSCR2
F36	4L / CR / TCA	WG	3.6	702 x 614 x 898	320	90	122	2,300	490	361	1,400	•	Compact HI-eSCR2
F36	4L / CR / TCA	WG	3.6	702 x 614 x 898	320	75	102	2,300	430	317	1,400	•	Compact HI-eSCR2
F36	4L / CR / TCA	WG	3.6	702 x 614 x 898	320	63	86	2,300	354	261	1,400	•	Compact HI-eSCR2
N45	4L / CR / TCA	WG	4.5	817 x 684 x 890	426	147	200	2,200	744	549	1,400		HI-eSCR2
N45	4L / CR / TCA	WG	4.5	817 x 684 x 890	426	127	173	1,900	710	524	1,500		HI-eSCR2
N45	4L / CR / TCA	WG	4.5	817 x 684 x 890	402	114	155	1,800	630	465	1,300		HI-eSCR2
N45	4L / CR / TCA	WG	4.5	817 x 684 x 890	402	98	133	1,900	549	405	1,500		HI-eSCR2
N67	6L / CR / TCA	VGT	6.7	1,065 x 664 x 1,163	530	250	340	1,800	1,398	1,031	1,400		HI-eSCR2
N67	6L / CR / TCA	WG	6.7	1,065 x 664 x 1,163	530	230	313	2,000	1,160	855	1,500		HI-eSCR2
N67	6L / CR / TCA	WG	6.7	1,065 x 664 x 1,163	530	199	271	1,800	1,159	855	1,500		HI-eSCR2
N67	6L / CR / TCA	WG	6.7	1,065 x 664 x 1,163	530	165	224	1,800	940	693	1,500		HI-eSCR2
N67	6L / CR / TCA	WG	6.7	1,065 x 664 x 1,163	530	142	193	1,800	802	591	1,500		HI-eSCR2
CURSOR 9	6L / CR / TCA	VGT	8.7	1,216 x 877.8 x 1,071	870	330	449	1,800	1,850	1,364	1,300		HI-eSCR2
CURSOR 9	6L / CR / TCA	WG	8.7	1,216 x 877.8 x 1,071	870	338	460	2,000	1,800	1,327	1,500		HI-eSCR2
CURSOR 9	6L / CR / TCA	WG	8.7	1,216 x 877.8 x 1,071	870	305	415	2,000	1,675	1,235	1,500		HI-eSCR2
CURSOR 9	6L / CR / TCA	WG	8.7	1,216 x 877.8 x 1,071	870	275	374	2,000	1,510	1,114	1,500		HI-eSCR2
CURSOR 13	6L / CR / TCA	TST	12.9	1,365 x 1,106 x 1,342	1,435	519	706	1,900	3,092	2,280	1,400		HI-eSCR2
CURSOR 13	6L / CR / TCA	VGT	12.9	1,355 x 953 x 1,213	1,320	429	583	1,900	2,484	1,832	1,400		HI-eSCR2
CURSOR 13	6L / CR / TCA	WG	12.9	1,378 x 1,036 x 1,155	1,304	466	634	1,900	2,663	1,964	1,600		HI-eSCR2
CURSOR 13	6L / CR / TCA	WG	12.9	1,355 x 953 x 1,213	1,320	415	564	1,900	2,401	1,771	1,400		HI-eSCR2
CURSOR 13	6L / CR / TCA	WG	12.9	1,355 x 953 x 1,213	1,320	390	530	1,900	2,258	1,665	1,400		HI-eSCR2
CURSOR 13	6L / CR / TCA	WG	12.9	1,355 x 953 x 1,213	1,320	348	473	1,900	2,012	1,484	1,400		HI-eSCR2
XCURSOR 13	6L / CR / TCA	VGT	12.9	1,404 x 826 x 1,434	1,230	460	626	1,800	2,850	2,102	1,300		HI-eSCR2
XCURSOR 13	6L / CR / TCA	WG	12.9	1,404 x 826 x 1,434	1,230	500	680	1,700	2,809	2,072	1,700		HI-eSCR2
CURSOR 16	6L / CR / TCA	TST	15.9	1,367 x 1,244 x 1,344	1,630	633	861	1,900	3,717	2,741	1,400		SCR
CURSOR 16	6L / CR / TCA	WG	15.9	1,378 x 1,043 x 1,197	1,334	570	775	1,900	3,323	2,451	1,500		SCR
CURSOR 16	6L / CR / TCA	WG	15.9	1,477 x 927 x 1,366	1,450	515	700	1,900	2,990	2,205	1,500		HI-eSCR2
CURSOR 16	6L / CR / TCA	WG	15.9	1,477 x 927 x 1,366	1,450	480	653	1,900	2,750	2,028	1,500		HI-eSCR2
V20	8V / CR / TCA	WG	20.1	1,625 x 1,190 x 1,340	1,600	670	911	1,800	4,095	3,020	1,500		SCR

Legend

* Dimensions and weight may vary according to engine options.

Arrangement
- L In line vertical
- V V-configuration (90°)

Air Handling
- TCA Turbocharged After Cooled
- TC Turbocharged

Injection System
- CR Common Rail

Turbocharging
- WG Fixed geometry turbocharger with WasteGate valve
- TST Two Stage Turbo
- VGT Variable Geometry Turbocharger

Exhaust System
- EGR Exhaust Gas Recirculation
- DOC Diesel Oxidation Catalyst
- DPF Diesel Particulate Filter
- SCR Selective Catalyst Reduction
- HI-eSCR2 FPT's patented ATS

THE F28 SERIES

Power range
37 to 75 kW

Torque
Up to 415 Nm

Engine model
F28
(4 cyl., 2.8 liters)

Exhaust system
<56kW:
DOC-only (Tier 4 Final), DOC+DPF (Stage V)
>56kW: Compact Hi-eSCR2

Key Advantages

Performance

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

Multipower & Modularity

- F28 is designed to be multi-power and features a modular architecture designed for Diesel, Natural Gas and Hybrid applications - providing the best performance in all working conditions and the possibility to be zero emission.
- Cross-regional ATS installation: common packaging for both Europe Stage V (DOC+DPF) and NAFTA Tier 4 Final (DOC-only), below 56 kW.
- Engine modularity supports rationalization for machines in the 50 to 100 hp range, simplifying everything: from engine installation to parts management.

Total Cost of Ownership

- Single-side servicing speeds maintenance activities to ensure maximum uptime.
- Extended service intervals (up to 600 hours) ensure low running costs.

Compactness

- 3.4 liters performance in a 2 liters package solution to serve both space and performance-driven applications.

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 powertrains.
- Lowest EGR rate in the market (<10%), improving fuel consumption and reducing operational costs.
- The F36 Series enhances the technology of the F5 with new turbocharger and piston designs, bringing more power and outstanding torque density.

Compactness

- Compact engine layout for optimized installation in compact machinery.
- 3.6 liters displacement offers higher power output without impact on external dimensions compared to the 3.4 liters version.

Total Cost of Ownership

- Reduced maintenance needs and operating costs thanks to 600 hours service interval.
- Maintenance-free compact HI-eSCR2 ATS maximizes vehicle uptime.
- Single-side servicing offers, fast accessibility for maintenance operations.

THE NEF SERIES

Power range
66 to 250 kW

Torque
Up to 1,398 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.
- Up to 250 kW with renewed single-stage Variable Geometry Turbine, with identical displacement, for rapid torque response and improved performance.

Engine Architecture

- Lean design with no EGR and single stage turbocharging solution for enhanced great system reliability, robustness and durability.
- Wide range of applications and extensive configuration portfolio to fit both structural and non-structural design needs.
- A natural gas solution based on 25 years of research for enhanced performance and low environmental impact.

Total Cost of Ownership

- Proven technology and reliability, with over 2 million unit sold.
- Oil change intervals of up to 1,200 hours for reduced maintenance and operating costs.
- Maintenance-free ATS maximasing 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.
- Flagship 16 liters engine: a market leader in compactness and power to weight ratio.

Versatility

- Wide product portfolio with engine displacements from 9 to 16 liters to serve the increasing demand for heavy-duty agricultural machines.
- Specific VGT & 2-stage turbo solutions for rapid load response and maximum in-field productivity.

Total Cost of Ownership

- No-EGR architecture, for optimal fuel consumption and maximum reliability.
- Maintenance-free ATS and 600-hour service intervals maximize vehicle uptime.

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 CO_2 hardware for up to 6% fuel consumption reduction.
- Downspeeding-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" Configuration, 20.1 liters)

Exhaust System
SCR only

Key Advantages

Performance

- Uncompromised performance output in all conditions thanks to 220 bar in-cylinder pressure-capable engine structure and high temperature-resistant turbochargers.

Engine Architecture

- Compact layout and low engine weight for space-optimized installation while guaranteeing the power required for the toughest missions.
- Steel pistons and high-pressure injection system from the CURSOR Series, with advanced materials on valves, crankshaft, turbochargers and cylinder head for enhanced engine reliability.

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 and 2,200-bar capable common rail system, with cross-bank turbocharger configuration for maximum engine efficiency.

We provide a versatile range of products designed to fulfill the needs of end users and the environment.

YOU ASK FOR THE BEST. WE MAKE IT HAPPEN.

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

We collaborate 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
	Max. limit depending on rating ☐ Up to 5000 hrs	☐ BRONZE Major engine components only* ☐ SILVER Engine only ☐ GOLD Engine + Aftertreatment System	☐ 2 years ☐ 3 years ☐ 4 years ☐ 5 years

(*) List of major components: cylinder head; cylinder block; crankshaft; camshaft; connecting road; 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.

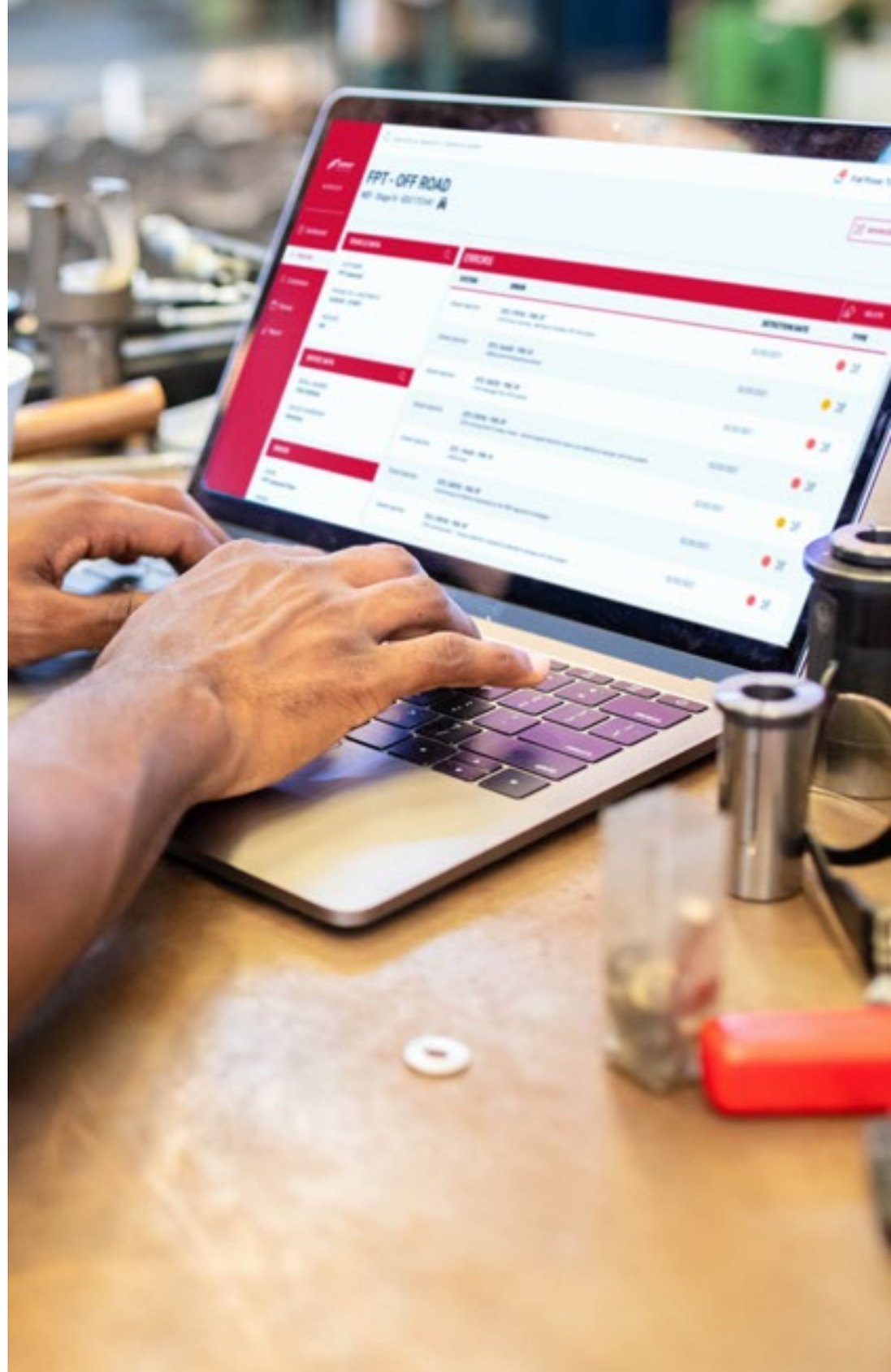
FPT has developed this product specifically for its own engines, drawing upon its expertise as a manufacturer and its engineering knowhow.

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:

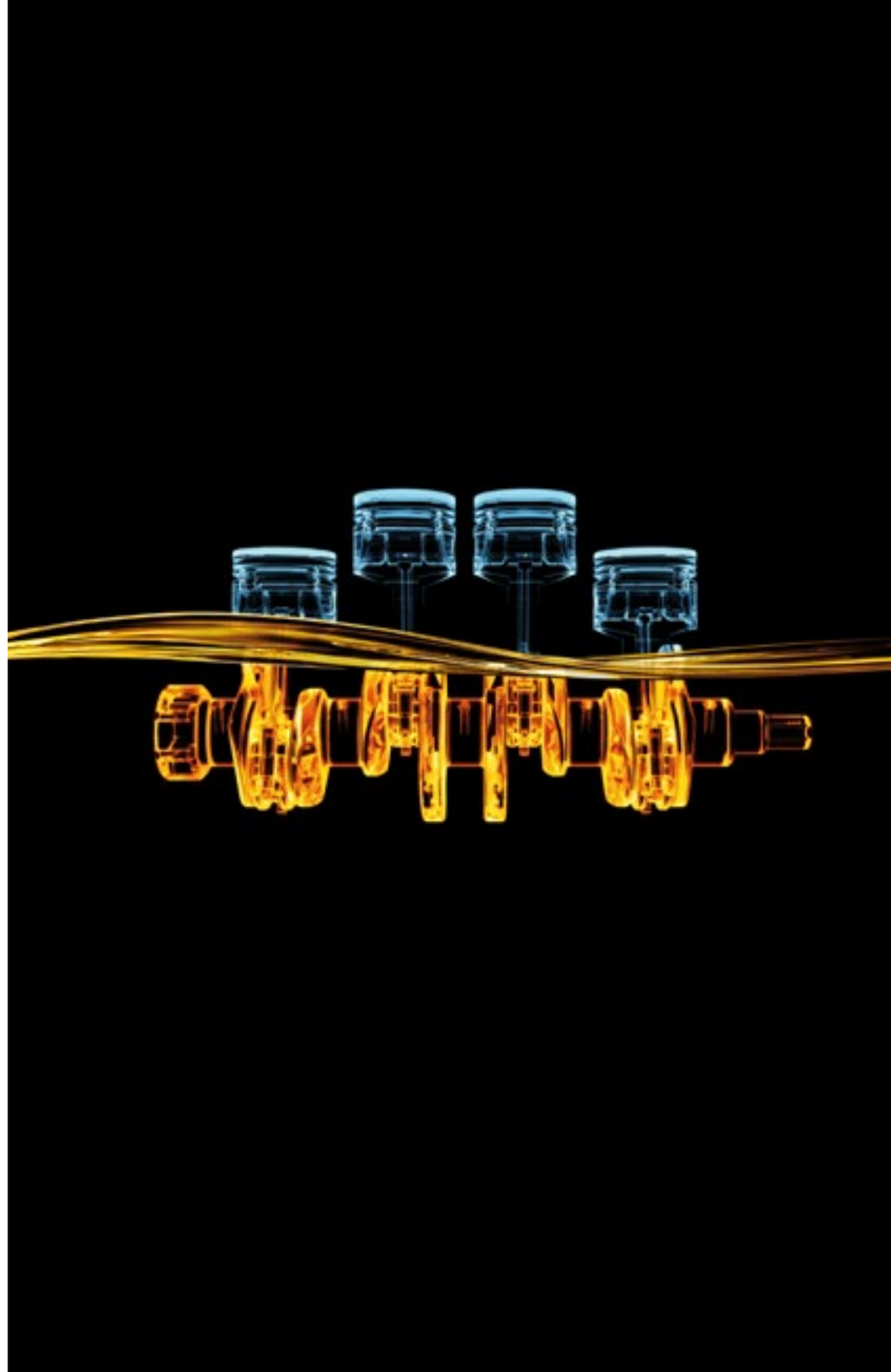
- **Total Compatibility:** guaranteed to perfectly fit your engine.
- **Optimized Service Life:** exceptional durability without compromising engine performance.
- **Guaranteed Operation:** for optimal engine output.

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, 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 (31/10/2025). Some of the engine line-ups may refer to a specific market configuration which may not be present or offered for sale in all other markets. The colours featured in this brochure may differ from the originals. FPT reserves the right to introduce modifications, at any time and without any prior advance notice, material, components equipment and/or technical specifications.

NOTES

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