

POWER GENERATION

Our efficiency. Your edge.



POWER GENERATION

Our efficiency. Your edge.

FPT Industrial Power Generation Index 2 FPT Industrial Power Generation

Index	3
Introduction	4
Stage V / Tier 4 Final	12
The F5 Series	16
The NEF Series	18
The CURSOR Series	20
ATS Pack Smart Installation Package	24
EU Stage IIIA	26
The R Series	30
The NEF Series	32
The CURSOR Series	34
Unregulated	38
The R Series	42
The NEF Series	44
The CURSOR Series	46
Customer Service	50

3

FPT

Power Generation

Introduction

,

FPT Industrial 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 Industrial, 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 tonne GAW (Gross Axle Weight).

FPT Industrial offers the most complete line-up 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-emissions mobility with electric drivelines, battery packs, and battery management systems. This extensive offering and its strong focus on R&D makes FPT Industrial a world leader in industrial powertrains and solutions.

We are proud to be a sustainability and innovation driven Company, which builds Customer advantage through continuous research and improvement and creates value by leveraging this advantage. FPT Industrial Power Generation Introduction 6 FPT Industrial Power Generation Introduction

7

THE ENERGY OF INNOVATION

FPT Industrial: a leading innovator in power generation engines.

With over 30,000 units per year sold worldwide, FPT Industrial is a leader in power generation engines. Our comprehensive range, which goes from 2.4L to 16L, complies with worldwide emission standards, ensuring optimal performance across various applications.

From stationary backup to mobile prime power, our engines cater to a broad spectrum of power generation needs.

Whether unregulated or Stage V/Tier 4 Final compliant, they guarantee reliability, efficiency, and excellent fuel consumption and power output.

We proudly serve both large OEMs and regional Customers through our extensive global network.

Choosing FPT Industrial goes beyond just an engine. You gain a trusted partner dedicated to exceeding expectations.

We deliver superior performance, reliability, and environmental responsibility with a comprehensive portfolio of engines tailored to your diverse power generation needs, anywhere in the world.



FPT Industrial

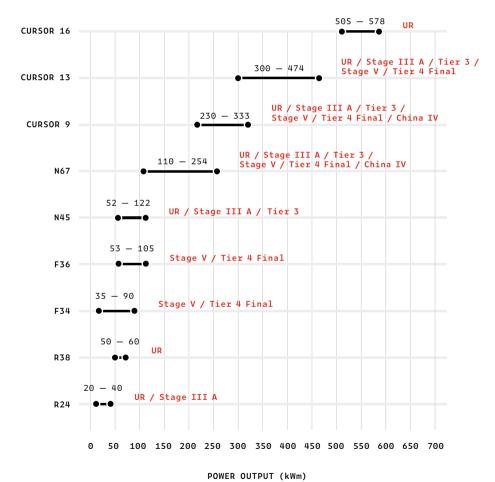
Power Generation

Introduction

FPT Industrial

FPT Industrial Power Generation Engines Portfolio Overview

23 - 578 kWm



Superior Technology & Outstanding Advantages

Performance

- Excellent transient load response.
- High performance even in extreme conditions.
- High engine power density.

Respect for the Environment

 Worldwide compliance with the most stringent emissions legislation.

Low Total Cost of Ownership

- Best in class service intervals.
- Low fluid consumption.

Flexibility

- Availability of a wide range of options to create tailor-made products.
- Compact G-Drive engine layout.

FPT Industrial

Power Generation

Tier 4 Final / Stage V

12

STAGE 1 TIER 4 FINAL

14

50 Hz / 1,500 rpm

402

444

322

355

346

378

313

342

291

321

363

402

60 Hz / 1,800 rpm

450

501

360

400

350

385

325

362

406

452

93%

94%

Stage V / Tier 4 Final

G-DRIVE + ATS PACK

Engine Name	Engine Model	Displacement Litres	Cylinder Arxangement Air Intake	Injection System	Exhaust System	Exhaust Components	
F34	F34TEVP02.00	3.4	4L/TC	ECR	EGR+DOC+DPF	EGR+DOC+DPF	
F34	F34TEVP04.00	3.4	4L/TC	ECR	EGR+DOC+DPF	EGR+DOC+DPF	
F34	F34TEVP01.00	3.4	4L/TAA	ECR	EGR+DOC+DPF	EGR+DOC+DPF	
F36	F36ETVP03.A62	3.6	4L/TAA	ECR	Compact HI-eSCR2	EGR+DOC+ DPF+SCR+CUC	
F36	F36ETVP03.A85	3.6	4L/TAA	ECR	Compact HI-eSCR2	EGR+DOC+ DPF+SCR+CUC	
F36	F36ETVP03.A94	3.6	4L/TAA	ECR	Compact HI-eSCR2	EGR+DOC+ DPF+SCR+CUC	
N67	N67TEVP06.00	6.7	6L/TAA	ECR	HI-eSCR2	DOC+SCRoF+CUC	
N67	N67TEVP05.00	6.7	6L/TAA	ECR	HI-eSCR2	DOC+SCRoF+CUC	
CURSOR 9	C87TEVP01.00	8.7	6L/TAA	ECR	HI-eSCR2	DOC+SCRoF+CUC	
CURSOR 9	C87TEVP04.00	8.7	6L/TAA	ECR	HI-eSCR2	DOC+SCRoF+CUC	
CURSOR 13	C13ETVP03.A363	12.9	6L/TAA	ECR	HI-eSCR2	DOC+SCRoF+CUC	
CURSOR 13	C13ETVP03.A395	12.9	6L/TAA	ECR	HI-eSCR2	DOC+SCRoF+CUC	

												e E	0
Stand-by Power				Prime Power		Stand-by Power				Prime Power	cal rator e: 0/1,800		
kWm (net)	kWe	kVA	kWm (net)	kWe	kVA	kWm (net)	kWe	kVA	kWm (net)	kWe	kVA	Typic Gener	1,500/1
37	32	40	33	29	37	39	34	42	35	30	38	88%	•
45	40	50	41	36	45	49	43	53	44	39	49	88%	•
54	48	60	54	48	59	54	47	59	54	47	59	88%	•
65	59	73	59	53	67	72	66	82	65	59	74	91%	•
90	82	102	82	74	93	98	89	111	88	80	100	91%	•
91	84	105	91	83	104	99	92	115	99	91	114	92%	•
145	133	167	136	125	156	167	154	192	151	139	174	92%	•
195	181	227	176	164	205	222	206	258	201	187	234	93%	•
257	239	299	233	217	271	285	265	331	258	240	300	93%	•
287	267	334	261	243	303	327	304	380	296	275	344	93%	•

387

426

Legend

Cylinder Arrangement L In line

Air Intake

TAA Turbocharged Aftercooler TC Turbocharged Exhaust System

EGR Exhaust Gas Recirculation
DOC Diesel Oxidation Catalyst
DPF Diesel Particulate Filter
SCR Selective Catalytic Reduction
SCRoF Selective Catalytic Reduction

on Filter
CUC Clean Up Catalyst

HI-eSCR2 FPT Industrial's patented ATS system

Injection System

M Mechanical
ECR Electronic Common Rail
EUI Electronic Unit Injector

1,500 / 1,800 rpm switchable engine Other Notes

kVA kiloVolt Ampere calculations based on a 0.8 power factor



Key Advantages

Engine Architecture

- Cutting-edge Common Rail technology, turbocharged with 4 valves per cylinder.
- Quick-to-market solution thanks to G-Drive: pre-assembled cooling pack and air cleaner.
- Wide range of prevalidated options available.

Total Cost of Ownership

- Reduced maintenance needs and operating costs thanks to best in class oil service interval (600 hours).
- Maintenance-free ATS solution and hydraulic tappets maximize uptime.
- Single-side servicing offers fast accessibility for maintenance operations.

Performance

- Top performance in terms of load response and power with low fuel consumption in all conditions.
- Switchability from 1,500 rpm to 1,800 rpm with dual certification.

After-Treatment System

- ATS Pack for F36 models with state-of-the-art technology for fast and easy installation.
- A dedicated DPF-free version for Tier 4 Final is also available.

THE NEF SERIES



Key Advantages

Engine Architecture

- EGR free architecture.
- Cutting-edge Common Rail technology, turbocharged with 4 valves per cylinder.
- Quick-to-market solution thanks to G-Drive: pre-assembled cooling pack and air cleaner.
- Wide range of prevalidated options available.

Performance

- Top performance in terms of load response and power with low fuel consumption in all conditions.
- Switchability from 1,500 rpm to 1,800 rpm with dual certification.

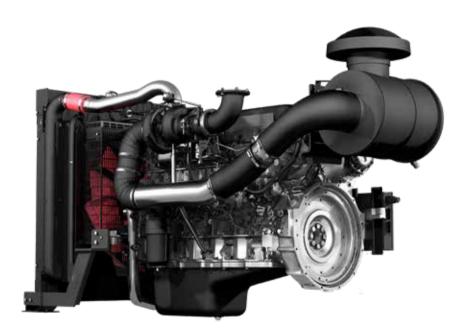
Total Cost of Ownership

- Reduced maintenance needs and operating costs thanks to best in class oil service interval (600 hours).
- Maintenance-free ATS solution ensures low Total Cost of Ownership (TCO) and maximizes uptime.

After-Treatment System

 ATS Pack with patented technology HI-eSCR2.

THE CURSOR SERIES



Power range From 233 to 426 kWm

Engine Models CURSOR 9 (6 cyl., 8.7L) CURSOR 13 (6 cyl., 12.9L)

Exhaust System HI-eSCR2 HI-eSCR2

Key Advantages

Engine Architecture

- EGR free architecture.
- Cutting-edge Common Rail technology, turbocharged with 4 valves per cylinder.
- Quick-to-market solution thanks to G-Drive: pre-assembled cooling pack and air cleaner.
- Wide range of prevalidated options available.

Performance

- Top performance in terms of load response and power with low fuel consumption in all conditions.
- Switchability from 1,500 rpm to 1,800 rpm with dual certification.

Total Cost of Ownership

- Reduced maintenance needs and operating costs thanks to best in class oil service interval (600 hours).
- Maintenance-free ATS solution ensures low Total Cost of Ownership (TCO) and maximizes uptime.

After-Treatment System

 ATS Pack with patented technology HI-eSCR2.



ATS PACK Smart Installation Package

Smart Installation Package:

Designed with Customer needs in mind.

In highly regulated markets, legislation introduced a further reduction on emission limits for mobile and prime power applications.

To comply with these new emission limits and make vehicle upgrades easier, FPT Industrial presents a new, smart installation package: the ATS Pack.

It includes all key aftertreatment components in a single package: main catalysts and their sensors are included in a compact and pre-assembled set with no need for further design efforts for the Customer. The ATS pack is a "plug & play" solution (available in horizontal or vertical position) which makes the final validation process both leaner and easier.

With the ATS Pack, all electrical signals and connections are managed by a single cable for fast, reliable and quick connection to any engine.

26



FPT Industrial Power Generation EU Stage IIIA 28 FPT Industrial Power Generation EU Stage IIIA 29

EU Stage III A

G-DRIVE

Engine Name	Engine Model	Displacement Litres	Cylinder Arzangement Air intake Exhaust System	Injection System	
R24	R24MAFS01.23A01	2.4	4L/NA	М	
R24	R24MSFS01.31A01	2.4	4L/TC	М	
R24	R24MSFS01.40A01	2.4	4L/TC	М	
N45	NEF45SM1F	4.5	4L/TC/I-EGR	М	
N45	NEF45TE1P.A82	4.5	4L/TAA/I-EGR	ECR	
N45	NEF45TE2P.A100	4.5	4L/TAA/I-EGR	ECR	
N67	NEF67TE1PV	6.7	6L/TAA/I-EGR	ECR	
N67	NEF67TE2PV	6.7	6L/TAA/I-EGR	ECR	
N67	NEF67TE3PV	6.7	6L/TAA/I-EGR	ECR	
CURSOR 9	CURSOR87TE3F	8.7	6L/TAA/I-EGR	ECR	
CURSOR 9	CURSOR87TE1PV	8.7	6L/TAA/I-EGR	ECR	
CURSOR 13	CURSOR13TE2F	12.9	6L/TAA/I-EGR	EUI	

	50 Hz / 1,500 rpm 60 Hz / 1,800 rpm							££.	крш				
S	Stand-by Prime Power Power				•			Prime Power			l tor e	/1,800 hable	
kWm (net)	kWe	kVA	kWm (net)	kWe	kVA	kWm (net)	kWe	kVA	kWm (net)	kWe	kVA	Typica Genera 1,500/ Switch	
22	20	24	22	20	24	23	20	25	23	20	25	88%	•
30	26	33	27	24	30	33	29	36	30	26	33	88%	•
38	34	42	35	30	38	37	33	41	34	30	37	88%	•
60	55	68	55	50	63	-	-	-	-	-	-	91%	0
80	73	91	73	66	83	87	79	99	79	72	90	91%	•
98	91	113	89	82	103	122	112	141	111	102	128	92%	•
145	133	167	131	121	151	156	144	180	141	130	163	92%	•
165	153	192	150	140	174	201	187	234	182	170	212	93%	•
195	181	227	177	164	206	211	197	246	191	178	223	93%	•
256	238	298	230	214	267	280	260	326	251	233	292	93%	•
288	268	335	261	243	303	321	299	373	291	271	338	93%	•
378	359	449	342	325	406	334	317	397	301	286	357	95%	•

Legend

Cylinder Arrangement
L In line

Air Intake
NA Naturally Aspirated
TAA Turbocharged Aftercooler
TC Turbocharged

Exhaust System I-EGR Internal Exhaust Gas Recirculation Injection System
M Mechanical
ECR Electronic Common Rail
EUI Electronic Unit Injector

Other Notes

- 1,500 / 1,800 rpm switchable engine
 Non-Switchable Engine
- kVA kiloVolt Ampere calculations based on a 0.8 power factor



Key Advantages

Full compliance with EU standards and seamless integration within FPT Industrial domain.

Engine Architecture

- 2.4 L engine platform.
- Compact 4-cylinder G-Drive, complete with engine, radiator and air filter for a limited footprint.
- Simple and reliable mechanical pump.
- Available in naturally aspirated and turbocharged models.

Performance

- Power outputs from 20 kVA to 40 kVA.
- Excellent transient load response for any stand-by and prime application.
- Flexibility to switch between 1,500 to 1,800 rpm allows an efficient stock management for the Customers.

Total Cost of Ownership

 Single-side servicing facilitates and speeds up maintenance activities.

Power Generation

THE NEF SERIES



Power range From 55 to 211 kWm

Engine Model N45 (4 cyl., 4.5 L) N67 (6 cyl., 6.7 L)

Key Advantages

Engine Architecture

- Mechanical rotary pump / common rail injection system availability.
- Turbocharged with 4 valves per cylinder.
- Quick to market solution thanks to G-Drive: pre-assembled cooling pack and air cleaner.
- Reliable I-EGR.
- Wide range of prevalidated options available.

Performance

- Top performance in terms of load response and power with low fuel consumption in all conditions.
- Flexibility to switch
 between 1,500 to
 1,800 rpm allows an
 efficient stock management
 for the Customers.
 (electronic engines only).

Total Cost of Ownership

Reduced maintenance needs and operating costs thanks to best in class oil service interval (600 hours).

THE CURSOR SERIES



Key Advantages

Engine Architecture

- Electronic injection system.
- Turbocharged with 4 valves per cylinder.
- Quick to market solution thanks to G-Drive: pre-assembled cooling pack and air cleaner.
- Reliable I-EGR.
- Wide range of prevalidated options available.

Total Cost of Ownership

Reduced maintenance needs and operating costs thanks to best in class oil service interval (600 hours).

Performance

- Top performance in terms of load response and power with low fuel consumption in all conditions.
- Flexibility to switch between 1,500 to 1,800 rpm allows an efficient stock management for the Customers.

Power range From 230 to 334 kWm Engine Model CURSOR 9 (6 cyl., 8.7 L) CURSOR 13 (6 cyl., 12.9 L)



FPT Industrial Power Generation Unregulated 38 FPT Industrial Power Generation Unregulated

39

UNREGULATED

Unregulated Unregulated **FPT Industrial** FPT Industrial Power Generation **Power Generation**

Unregulated G-DRIVE

Engine Name	Engine Model	Displacement Litres	Cylinder Arrangement Air intake Exhaust System	Injection System
R24	R24MANS01.23A02	2.4	4L/NA	М
R24	R24MSNS01.31A02	2.4	4L/TC	М
R24	R24MSNS01.40A02	2.4	4L/TC	М
R38	R38MSNS01.55A01	3.8	4L/TC	М
R38	R38MSNS01.66A01	3.8	4L/TC	M
N45	NEF45SM3.A82	4.5	4L/TC	М
N451	NEF45TM2A.A96	4.5	4L/TAA	М
N451	NEF45TM3.A120	4.5	4L/TAA	М
N67	NEF67SM1.A125	6.7	6L/TC	M
N67 ¹	NEF67TM3A.A156	6.7	6L/TAA	М
N67	NEF67TM4.A170	6.7	6L/TAA	M
N67	NEF67TM7.A200	6.7	6L/TAA	M
N67	NEF67TE8P.A263	6.7	6L/TAA	ECR
CURSOR 9 ¹	CURSOR87TE4	8.7	6L/TAA	ECR
CURSOR 13 ¹	CURSOR13TE2A	12.9	6L/TAA	EUI
CURSOR 131	CURSOR13TE3A	12.9	6L/TAA	EUI
CURSOR 13	CURSOR13TE6W	12.9	6L/TAA	ECR
CURSOR 13	CURSOR13TE7W	12.9	6L/TAA	ECR
CURSOR 16 ¹	CURSOR16TE1W	15.9	6L/TAA	ECR

												e f:	0
Stand-by Power				Prime Power		S	tand-b Power	У		Prime Power		cal rator)/1,800 :hable
kWm (net)	kWe	kVA	kWm (net)	kWe	kVA	kWm (net)	kWe	kVA	kWm (net)	kWe	kVA	Typic Gener	1,500/1 Switchal
22	20	24	22	20	24	23	20	25	23	20	25	88%	•
30	26	33	27	24	30	33	29	36	30	26	33	88%	•
38	34	42	35	30	38	37	33	41	34	30	37	88%	•
53	47	59	48	43	54	51	46	57	46	41	52	89%	•
64	57	71	58	52	65	62	56	69	56	50	63	89%	•
81	75	93	73	67	84	87	80	100	79	72	91	92%	•
96	89	111	88	81	101	107	99	123	98	90	112	92%	0
118	109	136	107	98	123	122	112	140	111	102	128	92%	0
121	111	139	110	101	127	138	127	159	126	115	144	92%	•
152	140	175	138	127	158	165	152	190	149	137	172	92%	0

60 Hz / 1,800 rpm

крш

92%

92%

92%

93%

93%

94%

95%

95%

95%

Legend

Cylinder Arrangement

In line

Air Intake

NA Naturally Aspirated TAA Turbocharged Aftercooler TC Turbocharged

Exhaust System

I-EGR Internal Exhaust Gas Recirculation

Emission Regulations
1 TÜV measured based on TA-Luft standards

Injection System

Mechanical ECR Electronic Common Rail EUI Electronic Unit Injector

1,500 / 1,800 rpm switchable engine Non-Switchable Engine

50 Hz / 1,500 rpm

Other Notes

kVA kiloVolt Ampere calculations based on a 0.8 power factor

THER SERIES



Key Advantages

Full compliance with EU standards and seamless integration within FPT Industrial domain.

Power Generation

Engine Architecture

- Available in two engine platforms: 2.4L naturally aspirated or turbocharged model and 3.8L turbocharged.
- Compact 4-cylinder G-Drive, complete with engine, radiator and air filter for a limited footprint.
- Simple and reliable mechanical pump.

Total Cost of Ownership

 Single-side maintenance to ease and speed up service activities.

Performance

- Power outputs from 20 kVA to 60 kVA.
- Excellent transient load response for any stand-by and prime application.
- Flexibility to switch between 1,500 to 1,800 rpm allows efficient stock management for Customers.

Power Generation



Power range From 45 to 254 kWm

Engine Model N45 (4 cyl., 4.5L) N67 (6 cyl., 6.7L)

Key Advantages

Engine Architecture

- Mechanical rotary pump / common rail injection system availability.
- Available as naturally aspirated, turbocharged and turbocharged with aftercooler versions.
- Quick-to-market solutions thanks to G-Drive: pre-assembled cooling pack and air cleaner.
- Options for electronic speed governor available.
- Wide range of pre-validated options available.

Performance

- Top performance in terms of load response and power with low fuel consumption in all conditions.
- Flexibility to switch between 1,500 to 1,800 rpm allows efficient stock management for Customers.

Total Cost of Ownership

Reduced maintenance needs and operating costs thanks to best in class oil service interval (600 hours).



THE CURSOR SERIES



Power range From 275 to 578 kWm Engine Model CURSOR 9 (6 cyl., 8.7L) CURSOR 13 (6 cyl., 12.9L) CURSOR 16 (6 cyl., 15.9L)

Key Advantages

Engine Architecture

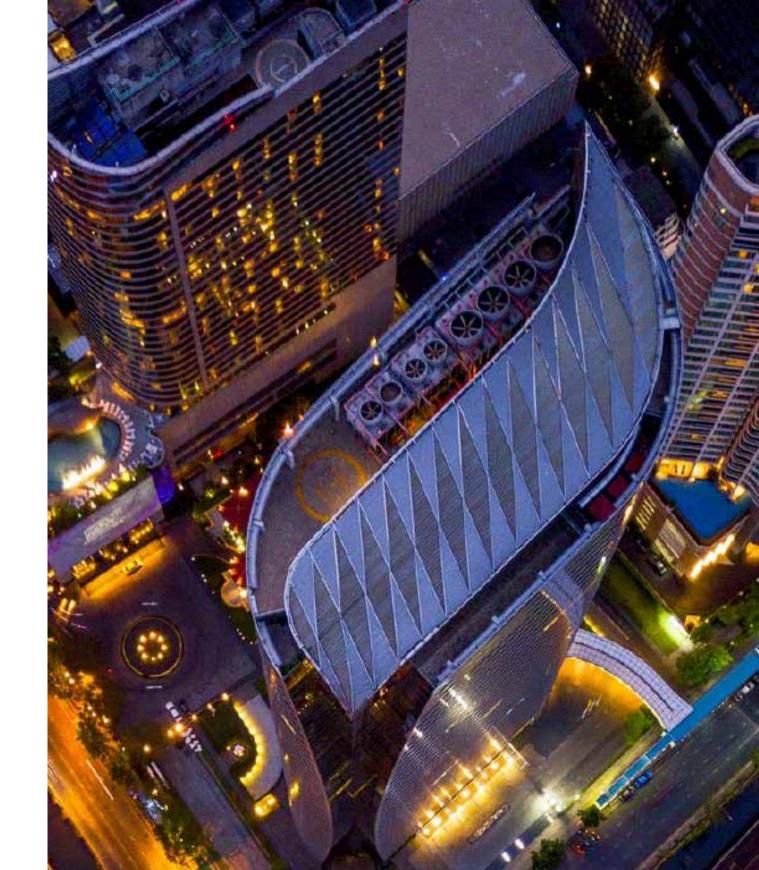
- Electronic injection system.
- Turbocharged with 4 valves per cylinder.
- Quick-to-market solutions thanks to G-Drive: pre-assembled cooling pack and air cleaner.
- Wide range of pre-validated options available.

Performance

- Top performance in terms of load response and power with low fuel consumption in all conditions.
- Flexibility to switch between 1,500 to 1,800 rpm allows efficient stock management for Customers.

Total Cost of Ownership

Reduced maintenance needs and operating costs thanks to best in class oil service interval (600 hours).



We increase the benefits for end users and the environment while creating value for businesses. **FPT Industrial**

Power Generation

Customer Service



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. Everyday closer to your needs.

On top of the Base Warranty, it is possible to register for our Extended Warranty program, which covers all required FPT Industrial Genuine Parts along with any repairs carried out by highly qualified technicians.

The FPT Industrial Extended Warranty guarantees:

- Customizable offer according to your needs;
- Warranty costs of your FPT Industrial product are known in advance;
- Assistance carried out by FPT Industrial qualified technicians;
- Optimal product performance thanks to FPT Industrial Genuine Parts.

Our FPT Industrial Extended Warranty has been developed with the aim of being closer to you in your everyday activities. You can customize it according to your needs and extend it for up to five years. To request a quote, please contact your reference FPT Industrial Dealer.

OPERATING HOURS	COVERAGE	DURATION
From 500 to 5,000 hours	□ BRONZE Main Engine components only* □ SILVER Engine Only □ GOLD Engine + After- treatment System	Engine Base Warranty + 1 Years 2 Years 3 Years 4 Years Up to 5 years of total coverage

^(*) Main engine components list: cylinder head; cylinder block; crankshaft; camshaft; connecting rods; pistons; flywheel; flywheel cover; oil pump; exhaust manifold; engine control unit

Proactive Assistance. Your direct connection to the Control Room.

Ensuring optimal engine performance and smooth operations has never been easier, thanks to our advanced connected services, our Control Room and Telematic Kit. This device connects directly to your engine, allowing our Control Room to analyse your engine data in real-time. Through this advanced system, we can promptly detect any anomalies and identify areas for optimization.

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.

- Health status monitoring.
- Maximize uptime thanks to the prompt activation of the FPT Industrial local Service Point, which is informed about the issue in advance, before even leaving the workshop.
- Engine diagnostics and repair based on FPT Industrial technical know-how and field experience.
- Monitor the performances in real time, with periodic reports tailored to your mission.
- Total Cost of Ownership (TCO) reduced by minimizing downtime.



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

Remote Assistance, the latest assistance tool introduced by FPT Industrial, is designed to lead the users into a cutting-edge digital experience.

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

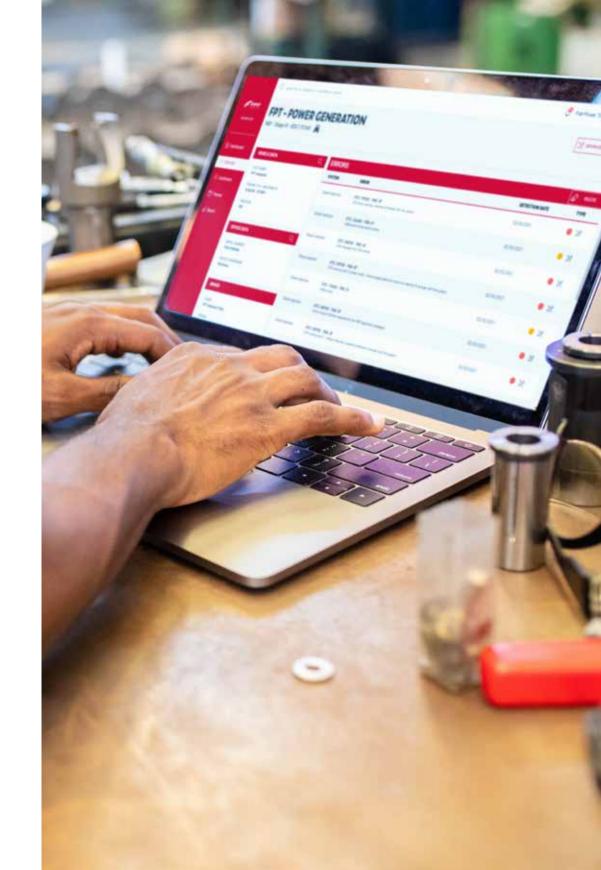
Remote Assistance allows for the efficient diagnostics and troubleshooting of specific errors or fault codes, allowing the engine to be restored quickly to its normal operating conditions.

FPT Industrial has developed this product specifically for their engines, drawing upon their expertise and engineering knowledge. It is meticulously designed to meet Customers' needs, offering maximum reliability and comprehensive coverage across their range of engines.

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

Main features:

- Maximizes uptime by improving assistance.
- Complies with ECU regulations: over-the-air DPF service regeneration and error reset.
- Enables remote real-time pre-diagnosis through the workshop portal.



You need help? We are 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 any time, 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:







NOTES	NOTES

••••••

NOTES