

OFF ROAD **REPLACEMENT ENGINES** REPOWER SOLUTIONS

Our efficiency. Your edge.

fptindustrial.com

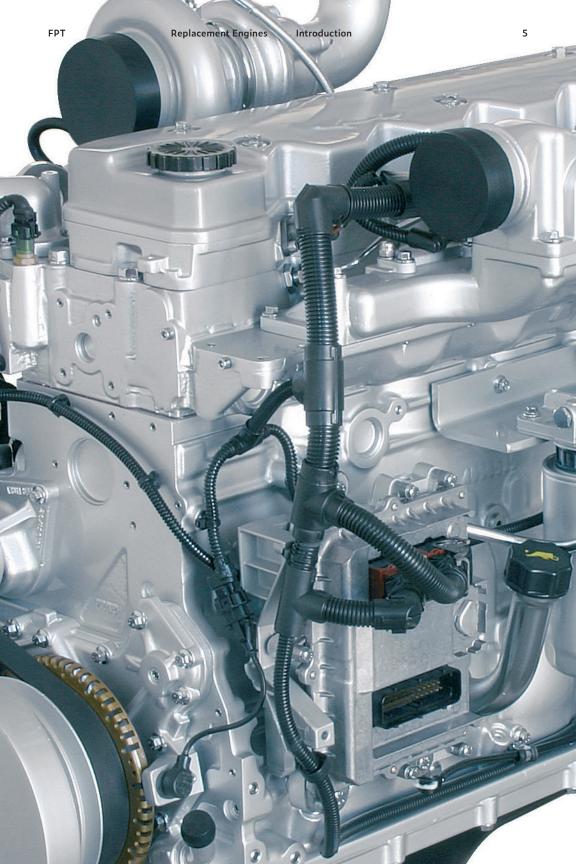




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Across the country, as the population of existing industrial power units (IPUs) is aging, many operators are searching for a simple, affordable solution to update their equipment. Electing to replace the engine, or "repowering" an existing unit may be the right option for you to extend the life of your equipment. Repowering allows you to maintain your current equipment frame, space requirements, controls, etc. while taking advantage of the benefits that come with a new engine, including increased longevity, factory warranty, and access to parts and service when necessary.



EPA/CARB Regulations

Please be aware of the following Environmental Protection Agency (EPA) and California Air Resource Board (CARB) regulations that apply to replacement engines:

- The frame or chassis of the IPU must remain original. If these are replaced, the IPU is considered new and the engine must meet current Tier 4 Final emissions requirements.
- The new "repower" engine being installed in the old IPU must be equal in emissions level (Tier) to the engine being removed, or meet newer, stricter emissions requirements.
 - Example: An IPU that was built with an engine meeting Tier 3 emissions must be repowered with a Tier 3 or higher Tier engine. In many cases, it may be impractical to use a higher Tier engine because of design constraints, special limitations, and operational requirements.
 - It absolutely may not be repowered with a lower Tier 2 (higher emissions output) engine.
- It is acceptable to replace the engine control panel, wiring harnesses, engine cooling package, and any other engine-related components as these are considered engine-specific components.

 The new replacement engine must have a "Replacement Engine" label applied in a visible location and the old engine (core) MUST be returned or destroyed according to the EPA/ CARB Core Engine Destruction process.

Additionally, EPA and CARB prohibit use of replacement engines in equipment that is more than forty (40) years old at the time of installation.

- New IPUs must be built with current emissions level engines, or engines meeting local regulations for specialty applications. Lower emissions repower engines cannot be used under any circumstances in new IPUs.
- Must accurately track location and status of returned engines using the FPT North America Replacement Engine Tracking sheet. This is available from your FPT North America sales representative.



The Strength of Innovation

Innovation, performance and constant improvement: these are the drivers for our industrial engines. We power earth moving and construction machinery, agricultural equipment, irrigation and other special machines.

Every type of engine is designed to fulfill the needs of all industrial applications, adopting the most advanced technologies including fixed or variable geometry turbochargers and high pressure Common Rail systems. Our experience in different application fields, combined with a wide range of tailor-made engine configurations, helps FPT meet the variety of requirements found in industrial applications. FPT Industrial succeeded in transforming emission legislation constraints into a competitive advantage for its engines by using our technological excellence to achieve better performance and lower operating costs.

FPT Advantages

Performance

- Power and torque response guaranteed in the most demanding operating conditions for a wide range of industrial applications
- State-of-the-art injection systems and turbocharging solutions provide improved fuel economy
- Industry-leading after-treatment technologies for emissions reductions and lower operating costs

Flexibility

- Wide range of options and tailor-made solutions
- Supply interface components such as radiators, air filters, silencers, DOC, SCR catalyst, and cold start accessories if desired
- Compact engine layout to supply more power in less space

Low Total Cost of Ownership

- Best-in-class service intervals
- Low fuel consumption
- "Fit-and-Forget" DPF-free and regeneration-free after-treatment system requires no maintenance

Robustness and Reliability

 The DPF-free solution avoids peak temperatures and any risk of system clogging, while assuring safe operations even in dusty conditions

Model	Power HP (kW)	Emissions Level	Fuel Injection System	G-Drive Available?
NEF 45	88 - 139 (66 - 104)	Tier 2 / Tier 3	Mechanical / Electronic	Yes
NEF 67	173 - 235 (129 - 175)	Tier 3	Mechanical / Electronic	Yes
CURSOR 9	348 (260)	Tier 3	Electronic	Yes
CURSOR 13	503 (375)	Tier 3	Electronic	Yes



NEF SERIES REPLACEMENT ENGINES From 88 – 235 HP

Our NEF Series boosts productivity in industrial applications. That's why more than 1.7 million NEF engines have been sold since 2001.

As the industry leader, the NEF Series boasts best-in-class power and torque performance, fuel efficiency, and reliability. It's the natural choice for almost any industrial replacement application, as the NEF Series' power-to-weight ratio provides the necessary power while conforming within existing space requirements.

NEF 45







Engine Specifications

Model	Cylinders	Displacement	Fuel Injection	Power HP (kW)	Torque Nm
NEF 45	4	4.5 L	Mechanical	88-125 (66-93)	400 - 525
NEF 45	4	4.5 L	Electronic	139 (104)	608
NEF 67	6	6.7 L	Mechanical	173 (129)	770
NEF 67	6	6.7 L	Electronic	235 (175)	1020

CURSOR SERIES REPLACEMENT ENGINES From 348 – 503 HP

11011340-303119

The Cursor Series replacement engines respond to the most demanding, heavy-duty industrial applications by providing up to 452 horsepower. Through our continuous innovation, Cursor engines have kept pace with the growing demand for increased power and performance while maintaining current footprint.

When you choose a Cursor engine for your industrial application, you'll benefit from outstanding reliability, long maintenance intervals, lower operating costs, and exceptional fuel efficiency. Cursor 13



Engine Specifications

Model	Cylinders	Displacement	Fuel Injection	Power HP (kW)	Torque Nm
Cursor 9	6	8.7L	Electronic	348 (260)	1500
Cursor 13	6	12.9L	Electronic	503 (375)	2300



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IND-REP-001-0123