

## FPT INDUSTRIAL TO SUPPLY ENGINES TO LIEBHERR MACHINES BULLE

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FPT Industrial has signed a long term partnership with Liebherr Machines Bulle SA to supply its Tier 4 final / Stage IV version of the **NEF series N45 engines equipped with HI-eSCR**.

This N45, a Tier 4 final / Stage IV compliant 4.5-litres, four-cylinder in-line engine is specifically designed for Liebherr and provides a power of 130 kW. It features state-of-the-art technologies, such as the **latest generation Common Rail injection system**, and is characterized by high power and high torque, especially at low rpm, ideal to increase productivity in construction applications.

To ensure compliance with Tier 4 final / Stage IV emissions levels, the engine adopts FPT Industrial's patented High Efficiency SCR (HI-eSCR) system, which reduces emissions of Nitrogen Oxides (NOx) by more than 95% through the use of SCR only, with no need for an exhaust gas recirculation (EGR) or a diesel particulate filter (DPF). For countries requiring the adoption of filters, a DPF can be added to the HI-eSCR system, which makes the solution Stage V ready.

FPT Industrial was not only chosen for its excellent products, but also for its ability to provide the Liebherr Machines Bulle with tailor-made engines.

Based on the requirements provided by Liebherr and FPT Industrial's experience and know-how, the above mentioned features make the specifically developed engine stand out for its **efficiency, robustness and quality**, allowing it to achieve high performance in terms of load response, maximum torque and power. Meanwhile, the engine also delivers low fuel consumption and long maintenance intervals to ensure extremely low operating costs.

Founded in 1949, **Liebherr** is not only one of the world's largest manufacturers of construction machinery, but also an expert and market leader in many other industries. The company's eleven divisions cover numerous industry segments, including mining, high-performance cranes, concrete technology, machine tools and automation systems, aerospace and transportation systems, domestic appliances, and hotels. The components division comprises 20 product lines from the areas of mechanical, hydraulic and electrical drive system and control technology, which are produced in ten production sites worldwide. Diesel engines were added to the product portfolio in 1984. For more information on Liebherr Components visit [www.liebherr.com/components](http://www.liebherr.com/components).



#### **N45 Tier 4 final / Stage IV specifications**

Architecture:	In-line 4-cylinder engine
Intake:	Turbocharged Aftercooler (TAA)
Injection:	Common Rail
Valves per cylinder:	4
Displacement (l):	4.5
Max power (kW):	130
Max torque rpm:	682 Nm @ 1,400 rpm
Maintenance interval (hrs):	500
EGR:	NO
ATS:	HI-eSCR

*FPT Industrial is a brand of CNH Industrial, dedicated to the design, production and sale of powertrains for on and off-road vehicles, marine and power generation applications. The company employs more than 8,000 people worldwide, in ten manufacturing plants and seven R&D Centres. The FPT Industrial sales network consists of 93 dealers and over 900 service centres in almost 100 countries. A wide product offering, including six engine ranges from 31 kW up to 740 kW, transmissions with maximum torque of 200 Nm up to 500 Nm, front and rear axles from 2 to 32 ton GAW (Gross Axle Weight) and a close focus on R&D activities make FPT Industrial a world leader in industrial powertrains. For further information, visit [www.fptindustrial.com](http://www.fptindustrial.com).*

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