

Genoa, October 2011

## **FPT Industrial at the 51st Genoa International Boat Show**

The Genoa International Boat Show is an established international reference for the pleasure boating sector; at the 51st show, FPT Industrial is present not only with its leading range of marine engines, but also with some interesting new products, as evidence of the constant commitment toward technological innovation and customer satisfaction.

After completing the renewal of its range of products, with the introduction at the past three Boat Shows of three engines, each achieving best in class in the pleasure craft sector (N67 560, C90 620, and C90 650), at the 2011 show FPT Industrial finds an opportunity for integration and completion in its range of marine options for the pleasure boating customers, by introducing the following new products:

- Integration of the new N67 500 engine (500 hp) with ZF 2800 Unit POD drive
- New digital touch screen panel for engine monitoring
- Electronic remote for engine and boat control

### **New unit N67 500 PD (N67 500 engine + ZF 2800 POD drive)**

The integration of the new N67 500 engine with the innovative propulsion system introduced by ZF allows the Nef Series, with 6 cylinders and electronic Common Rail, to extend its applicative range by entering the well-established “POD Drive” sector.

The package, which will be available starting from next January, allows reaching performances at the top of its category; the comparison with the top competitor engines equipped with POD Drive, in fact shows that the N67 500 PD has:

- the best power/weight ratio (0.55 hp/kilogram)
- the highest specific nominal torque (175 Nm/litre)
- the highest specific maximum torque (228 Nm/litre)
- the best power/volume ratio (0.77 hp/cubic decimetre)
- the lowest specific consumption in its category (216 grams/kilowatt hour)

When compared to the traditional propeller-shaft propulsion systems, the compact and lightweight POD Drive ZF system ensures improved efficiency (both

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in terms of performance and consumption): improved cruising speed, reduced fuel consumption up to 15%, reduced emissions up to 30%, and lower maintenance costs.

Thanks to the SmartCommand control system and to the adoption of the Joystick Manoeuvring System (JMS), the POD Drive also ensures considerable improvements, not only in terms of acceleration and veering stability, but also of manoeuvrability and trim angle.

Noise and vibration reduction is at the core of comfortable cruising, which the entire system is able to guarantee thanks to the installation of elastic damping units and underwater engine exhaust expelled through the propeller hubs.

Whereas safety is guaranteed thanks to specific designing, which foresees the disengagement of specific parts in case of shock with submerged objects, so as to fully preserve the hull's integrity, and protect the skeg and the propeller from accidental contact with floating debris.

Also worth pointing out is the JMS device's extreme easiness of use; thanks to the Joystick, docking and steering the boat is very simple and can be done with a mere movement of the wrist.

Lastly, we point out the unit's applicative versatility; in fact there are two possibilities, based on the customers' specific installation requirements:

- a) Deadrise mounting with POD perpendicular to the hull, extremely practical, as it does not require any changes to the hull's geometry, and guarantees higher efficiency at top speed.
- b) Vertical mounting with tunnel achieved in the hull and POD installed vertically, which ensures considerable veering stability and higher protection in case of contact with submerged objects.

Besides the 500 hp version shown at Genoa International Boat Show (N67 500 PD), the Nef Series will be integrated with two additional versions, the N60 400 PD (400 hp) and the N67 450 PD (450 hp), thus widening the range of motor options available for an array of 30 to 48 feet pleasure boats.

Lastly, we point out that the cooperation between FPT Industrial and ZF will guarantee integrated support for the customers from two supporting networks characterized by professionalism, prompt intervention, worldwide extensive presence, with a single interface that can offer a service aimed at customer satisfaction.



## The Range of Engines

The introduction of the ZF innovative propulsion system further widens in terms of contents the already extensive FPT Industrial range of products.

The selection of marine engines for pleasure craft in fact covers a wide power range (from 20 HP of the 4000 Series to 825 HP of the Cursor Series) and consists in four different engine families. With its range of inboard and sterndrive units, and now also POD drive units, the supply in the marine sector is characterized by competitive performances, top comfort, low consumption and management costs, and attention to the environment.

Smoke, noise and vibration reduction, combined with power and specific torque often at the top of the respective categories, allows for comfortable cruising and high performances.

### The 4000 Series (0.686 – 2.199 l)

Compact, lightweight, easy to install and maintain, the 4000 Series is characterized by state-of-the-art technological solutions, such as pump injector nozzles, FOCS technology (Fully Overhead Controlling Systems) and innovative designs for injection systems (CHD Series). Thanks to an efficient sail drive, the 4000 Series is mainly meant for sail boats up to 10 metres long. Thanks also to the propeller-shaft transmission, the same Series can be widely used on pleasure and commercial boats up to 5-6 metres long.

### The F1 Series (3 l)

The F1 Series 4-cylinder engines use a sophisticated second generation common rail feeding system, with total electronic management, and are characterized by power and torque at low rpm, low fuel consumption and emission reduction. The three stern drives range allows applying this engine to any type of planing or semi-planing lightweight pleasure and commercial service boats (only with transmission propeller) up to 7-8 metres long. At the Show, the F1 Series is exhibited in its most powerful version, S30 230 SD.

### The Nef Series (3.9 – 6.7 l)

With its numerous versions with 4 and 6 cylinders, aspirated and turbocharged, with variable power, depending on the available calibrations, between 85 and 560 HP, the Nef Series best represents FPT Industrial's offer in the pleasure craft sector. The engines, available with feeding system both mechanical and



electronic, Common Rail type injection, are characterized by their high performance, compact design and low environmental impact; these characteristics make them the ideal engines for cruiser boats and yachts up to 12 metres long. At the Show, the FPT Industrial stand exhibits the N40 250, besides the new N 67 500 PD, POD drive version.

### **The Cursor Series (8.7 – 12.9 l)**

Dedicated to yachts and sport fishing boats up to 16-18 metres long, the Cursor Series engines guarantee high power thanks to either Common Rail electronic injection feeding (C90) or pump injector nozzle EUI system (C13), depending on the variants. All Cursor Series engines are based on a straight-6 cylinders frame; they are boosted with turbocharger, and equipped with post air-cooling system. At the Show, FPT Industrial is introducing C90 650 and C13 825 models.

Just a few days ago the Monte Carlo – Venice speed record was beaten by the powerboat Kerakoll of FB Design, which was powered by two C90 650 diesel engines; besides establishing the new record at 22h 13' and 17", at 51.3 knots average speed, the performance was achieved with half the fuel consumption of the previous record back in 1994.

Lastly, at the 2011 Genoa International Boat Show FPT Industrial also introduces two new products, still in the accessories sector.

### **New digital touch screen panel for engine management**

The new digital graphic panel introduced by FPT Industrial for the entire marine range represents a fresh benchmark in engine monitoring, and it offers, through optional customization, broad interfacing and visualization possibilities regarding the main parameters and the on-board instrumentation. This modern display, which allows managing simultaneously two engines, adopts major hardware technologies, besides other distinctive elements such as:

- Specific trip computing, consumption, power used percentages, and maintenance schedule functions.
- 64 analogue and digital interface ports to monitor the engines and other on-board equipment's principal parameters, by offering an ample potential of product customization options.
- Large size available memory with engine and cruising parameters recording possibility.
- Diagnostics, calibration and alarm threshold management.



- Data transmission for remote monitoring via optional satellite-based devices.

### **Electronic remote for engine and boat control**

Characterized by an innovative design and high end materials (AISI 316 stainless steel), compared to the previous version the new FPT Industrial electronic remote control is enriched by two new optional functions:

- Trim tabs adjustments by means of dedicated buttons directly placed on the engine control handle.
- Gear-box trolling valve control, a very useful function for sport fishing and/or low speed cruising.

The other characteristics that determined the success of its previous version remain unchanged, i.e.: modular structure, CAN BUS technology, drive by wire, high number of engine/gear-box combinations with low number of components, extreme easiness of “plug & play” installation, simple initial system configuration, and control potential up to 60 m from the control station.

### **FPT INDUSTRIAL**

FPT Industrial is the FIAT Industrial company specialized in the design, production and sale of propulsion and transmission systems for on and off-road vehicles, as well as engines for marine applications and power generation. The company employs some 7,500 people worldwide at 9 plants and 5 R&D centres. The existence of a distribution network of more than 100 dealers and 1,000 service points ensures FPT Industrial presence in around 100 countries. With an extensive portfolio (5 engine families ranging in output from 50 up to 870 HP and transmissions with maximum torque from 300 up to 470 Nm) and a strong emphasis on research and development activities, FPT Industrial is one of the world's leading producers of powertrains for industrial application.

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