



MARINE DIESEL ENGINES



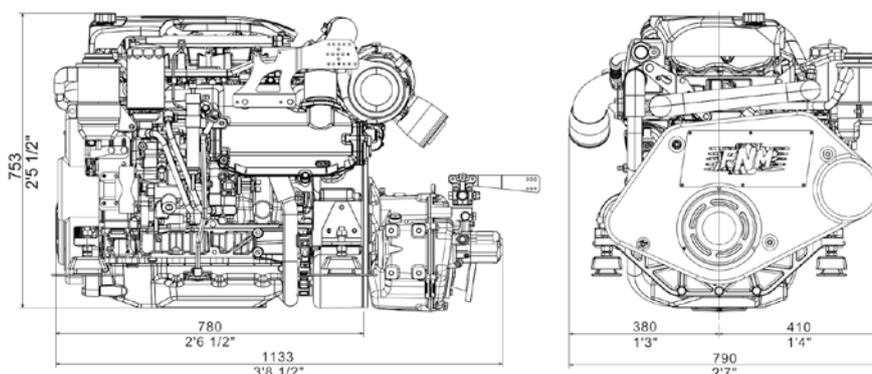
## INBOARD MARINE ENGINE **30HPE**

Models:

**30HPE 270 - 30HPE 250**  
**30HPE 225 - 30HPE 180**

FNM® 30HPE engine is based on the tested **FPT 30 4-cylinder Common Rail engine**. This inboard marine engine uses a **common-rail fuel injection system** controlled by an **ECU** especially made for it. The result is a high power-to-displacement ratio unit.

### Dimensions FNM 30HPE with TM485A gearbox



### Technical data

Engine model	30 HPE 270	30 HPE 250	30 HPE 225	30 HPE 180
Max Power	198,5 kW 270 HP 4100 rpm	184 kW 250 HP 4100 rpm	165 kW 225 HP 4100 rpm	132 kW 180 HP 3800 rpm
Max Torque	560 Nm 2600 rpm	553 Nm 2600 rpm	520 Nm 2300 rpm	N.D.
Number of cylinders	4 in line			
Displacement (l) - (cc)	3 - 2.988			
Bore and Stroke (mm) - (in)	(95,8x104) - (3,77x4,09)			
Dry weight (kg)	330			
Cooling	Water			
Combustion	Direct Injection Common Rail			
Induction	Turbocharged and intercooled			
Emission compliance	Directive 2013/53/UE			

Technical data according to ISO8665. Fuel complies EN590. Merchant fuel may differ in specification and may influence engine power output and consumption. Production tolerance within 5% (of power). Not all models, standard equipment and accessories are available in all countries. All specifications are subject to change without notice.

### Gears

#### ANGLED GEARBOXES

- TM880A (10°): R. 1,53:1, 2,08:1, 2,60:1
- TM485A (8°): R. 1,51:1, 2,09:1, 2,4:1

#### V-LINE GEARBOXES

- ZF68-IV (12°): R. 1,29:1, 1,56:1, 1,75:1, 1,99:1 2,48:1

#### IN-LINE AND COAXIAL GEARBOXES

- ZF68 (in line): R. 1,26:1, 1,51:1, 1,75:1, 1,93:1, 2,48:1, 2,78:1

## Standard technical equipment

### ENGINE BLOCK AND HEAD

- Cylinder block made of cast-iron
- Cylinder head made of aluminium
- 4-valve per cylinder technology with hydraulic lash adjusters
- Double overhead camshafts
- Automotive-class availability of service and parts
- Metal chain gear

### ENGINE MOUNTING

- Flexible engine mounting

### LUBRICATION SYSTEM

- Easily replaceable oil filter, on top of engine
- Easily to inspect or replace oil separator
- Double oil vapour filter technology
- Integrated cooler with engine's coolant

### FUEL SYSTEM

- Common rail fuel injection system
- CMD proprietary ECU
- Fuel filter with water separator and alarm

### AIR INLET AND EXHAUST SYSTEM

- Air filter
- Oil vapours vented into inlet air
- Exhaust elbow or raiser depending on application
- Coolant-cooled turbocharger
- Raw-water cooled intercooler

### COOLING SYSTEM

- Thermostatically regulated freshwater cooling
- Thermal unit that integrates tubular heat exchanger and expansion tank
- Easily accessible seawater impeller pump

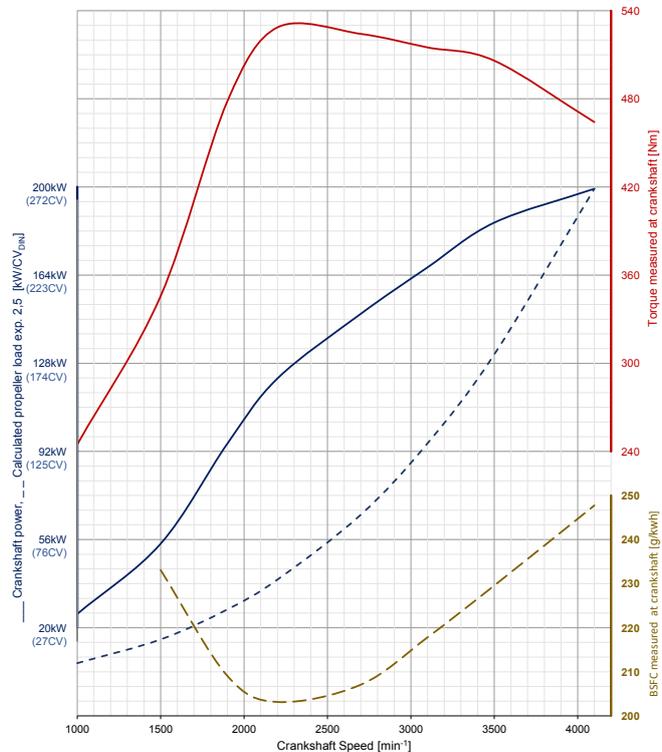
### ELECTRICAL SYSTEM

- 12V standard two-pole electrical system
- 12V-1,8kW starter
- Alternator 12V-140A
- Emergency stop button on engine's ECU
- CANBUS Panel with 8m extension and digital display of engine data

## Optionals

- Single or double electronic CANBUS control station
- Boiler kit for heating
- Various length panel extension
- Second control panel for flybridge installations
- RACOR and Mediterraneo filters
- Trolling Valve
- Additional PTO (ISO4183 Z/SPZ)
- Steering pump
- NMEA2000 compatibility kit
- Wide range of additional instruments

## Performance curves



Referred to **30HPE 270**

## Panel instrument CANBUS

Panel Instrument **high brightness 5" TFT display**, with **touchscreen** and a very simple and intuitive interface.

- Engine data acquisition with CANBUS J1939 interface.
- Data acquisition from traditional sensors for up to eight analog inputs, five digital inputs and one frequency input
- Acquisition of navigation data with NMEA0183 interface
- Up to five relay command outputs for signals and simple activations
- Alarm monitoring according to approved safety standards
- Automatic brightness adjustment and day / night mode
- USB local connectivity for firmware update and configuration

The unit is supplied already programmed and ready to work.

