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30HPE250,225,180,145

FNM® MARINE DIESEL ENGINES INBOARD DIESEL ENGINE

TECHNICAL DATA



The engine illustrated may not be entirely identical to production standard engines

Engine designation	30HPE250	30HPE225	30HPE180	30HPE145
teljesítmény f tengelyen Crankshaft Power [kW] (hp)	184 (250)	165 (225)	132 (180)	107 (145)
teljesítmény propeller tenge Propeller shaft power [kW] (hp)	<mark>lyen</mark> 180 (245)	161 (220)	129 (176)	104 (141)
fordulatszám max. Engine speed [min-1]	4100	4100	3800	3800
henger rtartalom Displacement [I] (in ³)	3,0 (183)	3,0 (183)	3,0 (183)	3,0 (183)
<mark>hengerek száma</mark> Number of cylinders	4	4	4	4
<mark>furat / löket</mark> Bore/stroke [mm] (in)	95,8/104 (3,77/4,04)	95,8/104 (3,77/4,04)	95,8/104 (3,77/4,04)	95,8/104 (3,77/4,04)
kompresszió arány Compression ratio	18:1	18:1	18:1	18:1
száraz tömeg TM880A válto Dry weight with TM880A [kg]	oval 385	385	385	385
száraz tömeg ZF63-IV váltó Dry weight with ZF63-IV [kg]	val 393	393	393	393
Power Rating	А	A1	В	С
Emission compliance	RCD Stage II 2013/53/UE, US EPA Tier III (40CFR1042), IMO NOx (30HPE250)			

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.

RELIABLE AND ENDURING

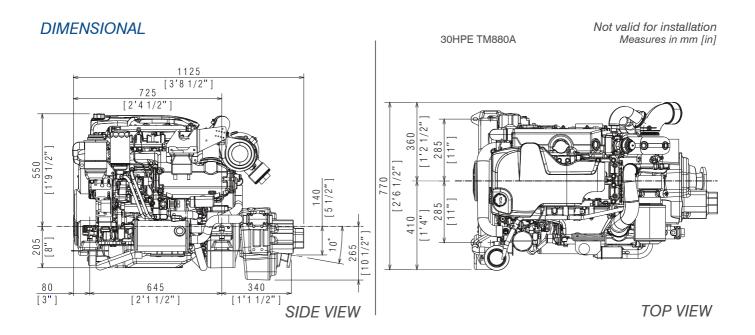
FNM® 4-cylinder 30HPE engine is based upon the best-selling F1C platform, a reference in modern commercial engines. The engine utilize a common-rail fuel injection system electronically controlled by a proprietary electronic control unit, expressly set for this unit. The engine spots a high displacement per cylinder and is capable to perform at fast powers, resulting in a high power-to-displacement ratio propulsion unit.

FIRST CLASS PERFORMANCE

Set for recreational use, where the engine reaches up to 184kW (250HP), or for any of the commercial rating, where this engine is capable to achieve up to 3000h per year, this unit will guarantee first-class performance in every functioning condition.

A PROPRIETARY ELECTRONIC CONTROL UNIT

The engine electronic control unit results from a 10-year development from CMD electronic department and is especially made for HPE engine's marine application. The ECU fits the first-class Bosch common rail system parts that carry out the fuel injection perfectly; this ECU includes unique control strategies, such as anti-shutdown on gear insertion for high-inertia installation, or fast-reversing situations, and guarantees high performances within emission limits.



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FNM® MARINE DIESEL ENGINES

INBOARD DIESEL ENGINE



30HPE250,225,180,145

TECHNICAL CHARACTERISTICS

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 Oil-cooled pistons with compression and scraper rings

Five bearing crankshaft 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, on top of engine

Double oil vapour filter technology

Integrated cooler with engine's coolant

Fuel system

GEARS

Angled gearboxes

V-line gearboxes

OPTIONALS

Boiler kit for heating

Trolling Valve

Steering pump

In-line and coaxial gearboxes

ZF63C (coaxial): R. 1,00:1

Various length panel extension

RACOR and Mediterraneo filters

Additional PTO (ISO4183 Z/SPZ)

Wide range of additional instruments

www.fnm-marine.com

NMEAŽ000 compatibility kit

CONTACT US

-M7

Common rail fuel injection system CMD proprietary ECU

CONTROL PA NEL

Every tachometer intergrates CANBUS technology and spots a multifunction display for monitoring alarms, engine's hours, coolant temperature's, oil pressure, battery voltage, turbo pressure, fuel level, trim angle, rudder angle and water tank level. Standard CANBUS J1939 upgradable to NMEA2000.

Assembled panel (standard for gearboxes applications): integrates tachometer, alarm lights and key block.

TM880A (10°): R. 1,53:1, 2,08:1, 2,60:1

ZF63-IV (12°): R. 1,29:1, 1,56:1, 1,99:1, 2,48:1

Single or double electronic CANBUS control station

Second control panel for flybridge installation

FNM is a registered brand of

email: info@cmdengine.com

CMD - Costruzioni Motori Diesel SpA NI Valle di Vitalba - 85020 Atellla (PZ) - ITALY

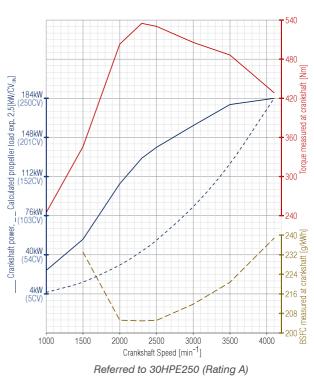
ZF63 (in line): R. 1,26:1, 1,51:1, 1,75:1, 1,93:1, 2,48:1, 2,78:1



Disassembled panel (standard for sterndrive and jetdrive applications): panel with alarm lights and key block and separated tachometer (5", available upon request 4").



PERFORMANCE CURVES



Fuel filter with water separator and alarm

Air inlet and exhaust system Commercial-grade 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 exhaust manifold, thermostat, tubular heat exchanger and expansion tank

Easily accessible seawater impeller pump

Electrical system 12V standard two-pole electrical system

12V-2.3kW starter Alternator 12V-110A Emergency stop button on engine's ECU

CANBUS Panel with 8m extension and digital display of engine data

