

## VOLVO PENTA MARINE DIESEL

# D30A MT

480 – 610 kW (653 – 830 hp) crankshaft power

### Powerful and reliable engine for demanding operation in commercial applications

The Volvo Penta D30A MT engine is designed to meet the most demanding requirements, such as marine main propulsion or marine generator drive. Its compactness and durability applies the most advanced technologies and engineering know-how; all this to benefit the operator.

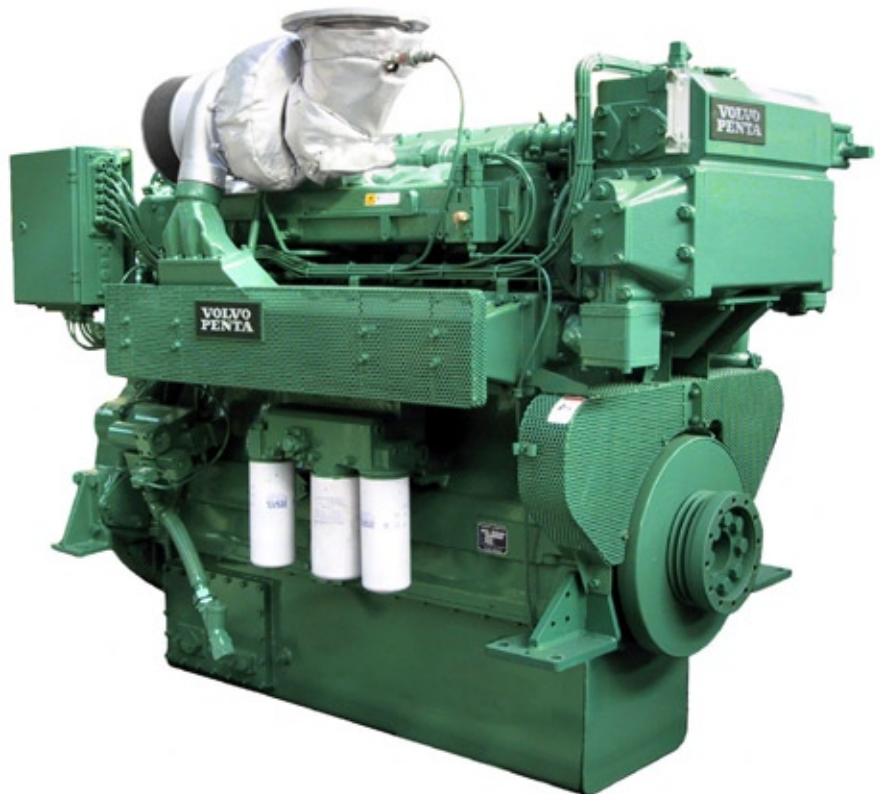
The Volvo Penta D30A MT diesel engine is built to the highest quality standards recognized by all the major marine classification societies, such as Germanischer Lloyds, Norske Veritas etc. as well as the national Shipping Inspections.

Volvo Penta is continuously making intensive research work on the marine application of the engine to produce an engine with a compact design, which gives many advantages, such as low running costs in relation to high output.

An optimal combination of combustion chambers, fuel injection system, and effective turbocharger and charge air cooling system, provide an excellent fuel consumption over the whole range of engine speeds, through which the engine is economical in operation.

Maintenance is very easy, as supplementary equipment such as fuel injection pump, governor, water pump and turbocharger do not need any separate lubrication. The cylinder heads are individually divided by cylinder, and the engine has large inspection covers in crankcase and oilpan.

As the dimensions of the D30A MT engine are kept as small as possible,



it takes up surprisingly little space. This asset will be subscribed wholeheartedly by the person who is in charge of the engine room. An engine room equipped with this engine is a well-ordered engine room.

### Warranty and Service

All Volvo Penta marine engines come with the additional benefit and security of the Cost Control Program, a unique system of operator support and financial control – from installation to after-sales service.

The optional international limited Volvo Penta three-year warranty provides the owner peace of mind.

Qualified Volvo Penta dealers stand by for service and support in more than 100 countries all over the world.

**VOLVO  
PENTA**

# D30A MT

## Technical Data

Engine designation	D30A MT
No. of cylinders and configuration	in-line 6
Method of operation	4-stroke, direct-injected, turbocharged diesel engine with aftercooler
Bore, mm	170
Stroke, mm	220
Displacement, l	29.96
Compression ratio	14:1
Dry weight (HC), kg	3150
Crankshaft power at calculated propeller load, Rating 1, kW(hp), 1350rpm	480 (653)
Rating 2, kW(hp), 1400rpm	530 (721)
Rating 3, kW(hp), 1500rpm	610 (830)
Torque at calculated propeller load, Rating 1, Nm, 1350rpm	3397
Rating 2, Nm, 1400rpm	3617
Rating 3, Nm, 1500rpm	3885
Recommended fuel to conform to	ASTM No. 2-D
Specific fuel cons. at calculated propeller load, Rating 1, g/kWh, 1350rpm	212
Rating 2, g/kWh, 1400rpm	202
Rating 3, g/kWh, 1500rpm	210

All data represent net performance including standard equipment as lube oil pump, water pump, charging alternator, under the conditions of 100kPa barometric pressure, 25°C ambient temperature, 30% relative humidity and 32°C sea water temperature.

The propulsion engine with rating 1 power setting is exhaust emission certified for River Rhine. The engine type complies with IMO MARPOL 73/78 Annex VI exhaust emission standard. For detailed information contact Volvo Penta.

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

## Standard Equipment:

### Engine

- Flywheel housing with connection acc. to SAE 0
- Flywheel (18")

### Lubrication system

- Fresh water cooled oil cooler
- Spin-on type oil filter with shift valve
- Spin-on type oil by-pass filter

### Fuel system

- Hydraulic governor
- Jacketed fuel pipes
- Spin-on type fuel filter (change over type)

### Exhaust system

- Non-cooled turbocharger
- Air inlet filter/silencer

### Heat Exchanger cooled system (HE)

- For Seawater and central cooled installations
- Engine mounted tubular heat exchanger with integrated expansion tank

### Electrical system

- Starter motor (DC 24V-7.5kW)
- Alternator (24V-35A)

### Other equipment

- Front P.T.O. pulley
- Front safety cover
- Standard tools

## Optional Equipment:

- Electrical system including wiring, senders, switches and terminal box mounted on engine
- 24V fuel shut-off valve, electrically operated
- Instrument panel for engine-room and wheel-house
- Raw-water pump
- Air starting system on request
- Oil drain pump
- Flexible exhaust hose for dry exhaust line
- Dry exhaust silencer
- Fuel filter/water separator with shift valve
- Classification under all the major marine classification societies
- Gearbox on request
- Spare parts

Contact Volvo Penta for further information. Not all models, standard equipment and accessories are available in all countries. All specifications are subject to change without notice. The engine illustrated may not be entirely identical to production standard engines.

### Marine Commercial Ratings

#### Rating 1 (R1, Heavy Duty Commercial)

This power rating is intended for commercial vessels with displacement hulls in heavy operation, unlimited number of running hours per year. Load and speed could be constant, and full power can be used without interruption.

#### Rating 2 (R2, Medium Duty Commercial)

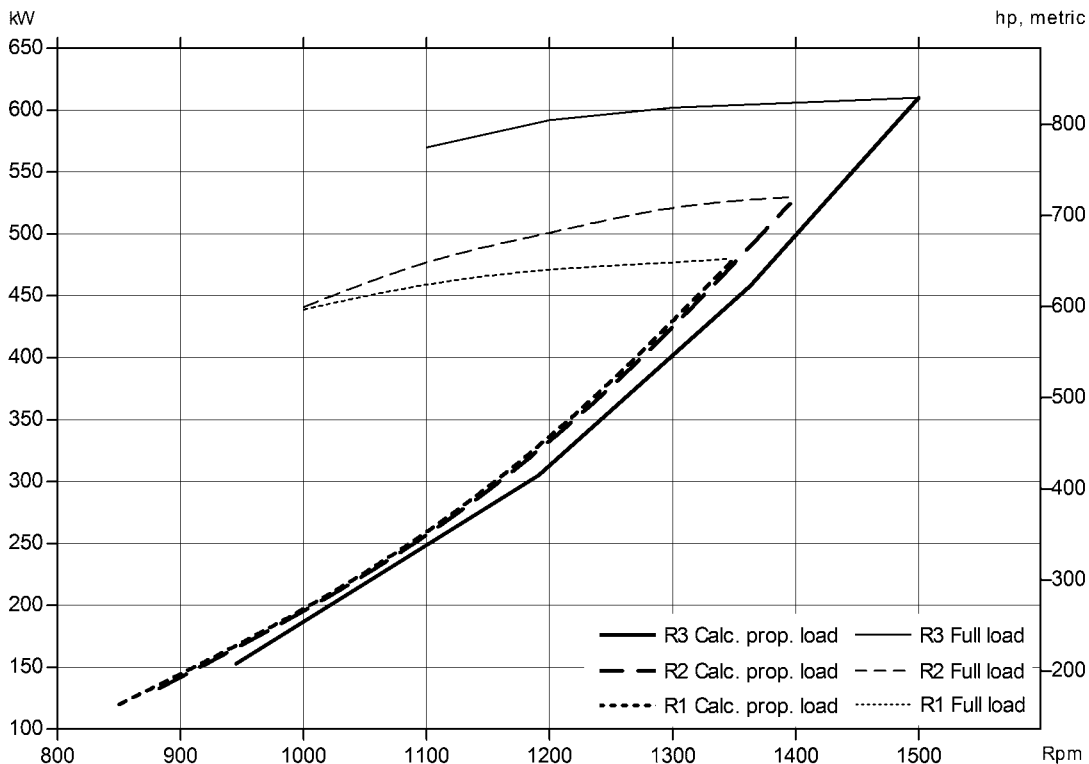
This power rating is intended for commercial vessels with semiplaning or displacement hulls in cyclical operation, running hours less than 3000 h per year. Full power could be utilized maximum 4 h per 12 h operation period. Between full load operation periods, engine speed should be reduced at least 10% from the obtained full load engine speed.

#### Rating 3 (R3, Light Duty Commercial)

This power rating is intended for commercial boats with high demands on speed and acceleration, planing or semiplaning hulls in cyclical operation, running hours less than 2000 h per year. Full power could be utilized maximum 2 h per 12 h operation period. Between full load operation periods, engine speed should be reduced at least 10% from the obtained full load engine speed.

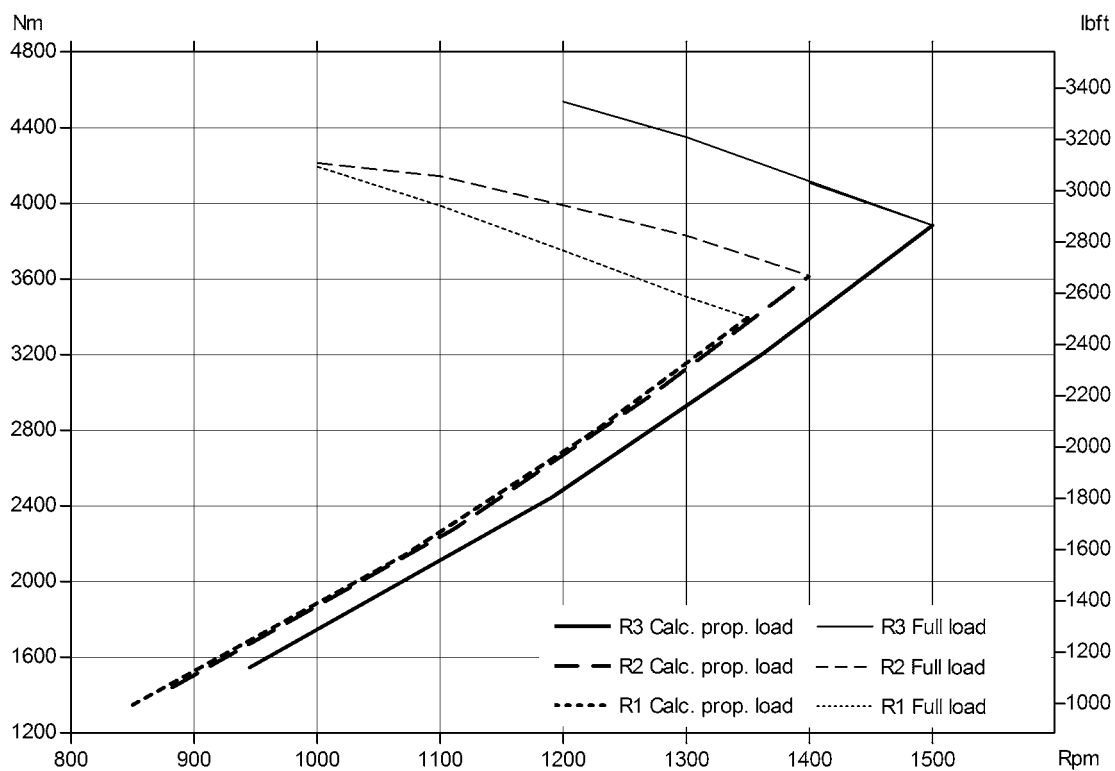
## Crankshaft power D30A MT

Power measured at crankshaft



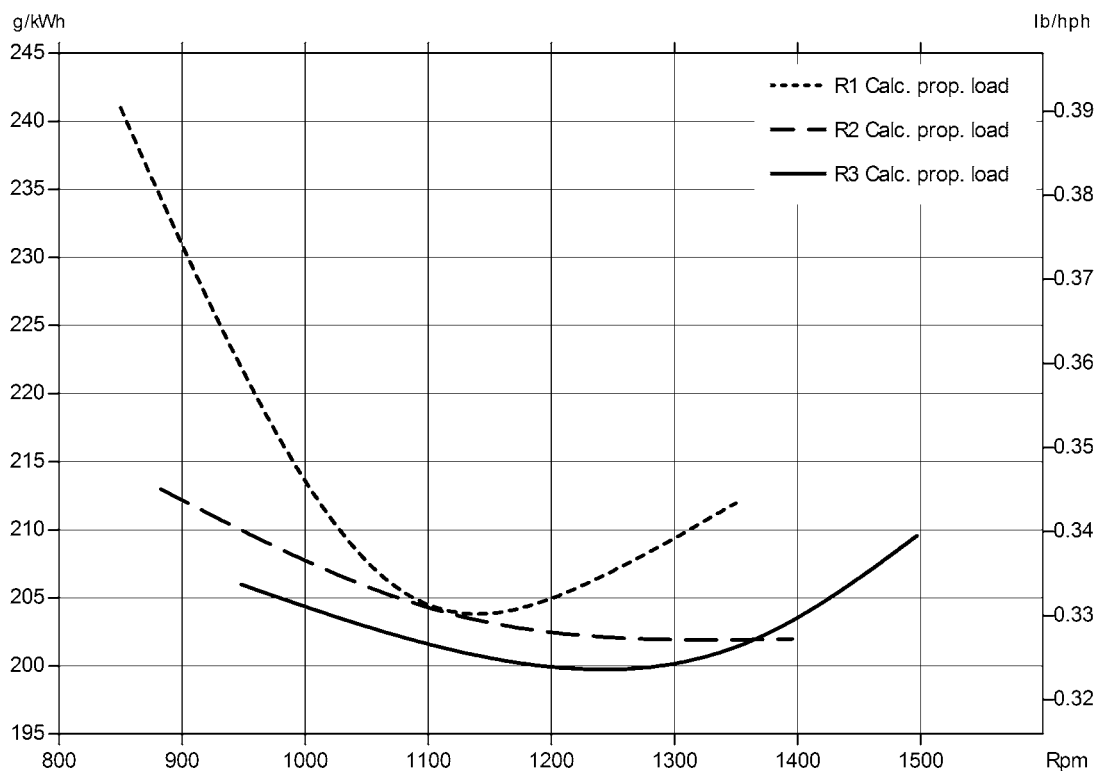
## Torque D30A MT

Torque measured at crankshaft



## Specific fuel consumption D30A MT

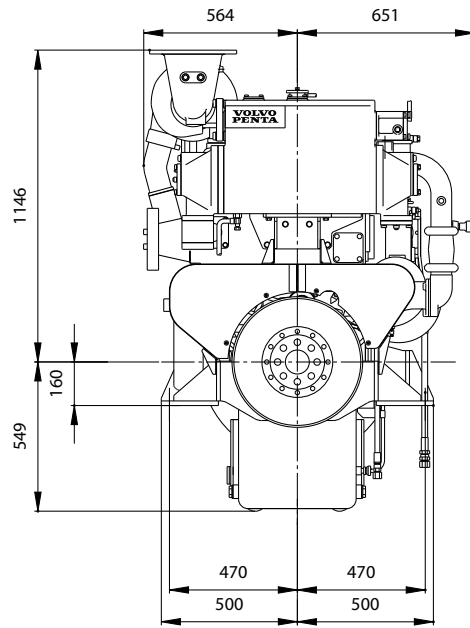
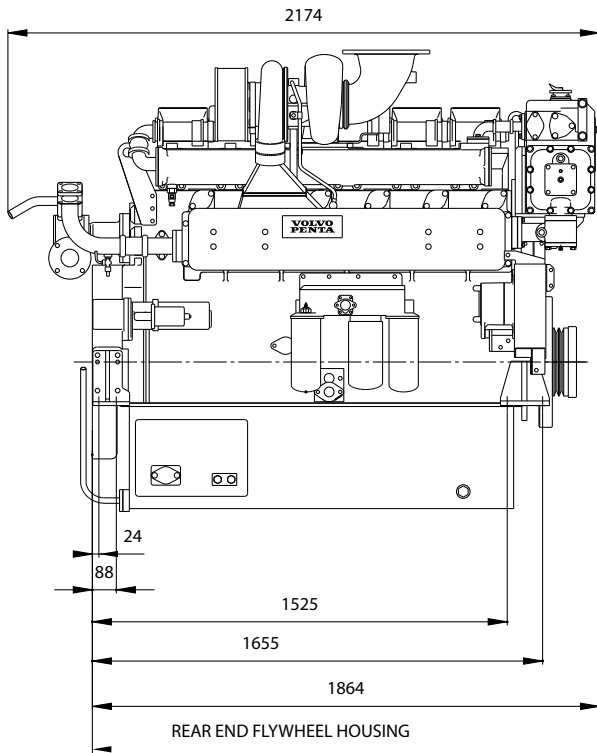
Based on calculated propeller load



# D30A MT

## Dimensions D30A MT, Heat exchanger cooled

Dimensions in mm. Not for installation



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