



## D2842

MAN marine engines for medium duty applications.

Powered by MAN.

**MAN Nutzfahrzeuge Group**



# Full speed ahead.

Typical applications for medium duty boats cover goods and passenger transportation as well as escort and patrol duties at sea. MAN marine diesel engines perform these tasks reliably and efficiently with high power outputs. With ratings from 379 to 1 400 mhp they have powerful acceleration and high tractive power. MAN engines meet the current emission standards and are environmentally friendly. The worldwide service network ensures minimal maintenance effort and a customer-oriented service.

## Engine description D2842

### Characteristics

Cylinders and arrangement	12 cylinders in 90° V design
Operation mode	watercooled 4-stroke diesel engine with exhaust turbocharger and intercooler, boost pressure control with waste gate for LE401, LE410 and LE413
Number of valves	2 valves per cylinder for
Fuel injection	Direct injection
Fuel system	Bosch injection pump
Engine block	High-strength casting with integrated oil and water ducts and replaceable cylinder liners
Engine lubrication	Closed system with forced feeding, oil cooling and filtering
Type of cooling	Seawater cooled heat exchanger
Engine electric	Electronic injection control for LE410 Electronic engine monitoring unit for LE401 and LE413 Electronic engine monitoring including diagnostic unit for LE410
Exhaust gas status	IMO/MARPOL 73/78
Fuel	On request: SAV and BSO for commercial application DMX fuel to ISO 8217, EN 590

### Dimensions D2842

		LE413	LE410
A-Overall width of engine	mm	1 230	1 230
B-Overall length of engine	mm	1 751	1 795
C-Overall height of engine - flat oil pan	mm	1 105	1 105
- deep oil pan	mm	1 216	1 216
D-Top of engine to crankshaft centre	mm	685	685
E-Length of engine from front end to edge of flywheel housing	mm	1 491	1 491
Average weight of engine ready for installation (dry)	kg	1 790	1 860

For detailed examinations of installation dimensions, please order drawings from our factory.

## MAN engines have outstanding qualities

- High tractive power even at low speeds
- Powerful acceleration and rapid reaction to commands
- High performance combined with low weight
- Compact, space-saving design
- Low emission values
- High efficiency owing to low fuel consumption, low running costs and long service life
- World-wide service network with rapid supply of spare parts

## Technical data D2842

Type of engine		LE413	LE410
Bore	mm	128	128
Stroke	mm	142	142
Displacement	l	21.93	21.93
Compression ratio		15.5:1	13.5:1
Rotation looking on flywheel		left	left
Flywheel housing		SAE 1	SAE 1
Nominal rating	kW (mhp)	735 (1 000)	809 (1 100)
Rated speed	rpm	2 100	2 100
Torque at rated speed	Nm	3 342	3 679
Maximum torque	Nm	3 600	3 830
at speed	rpm	1 400	1 700
Specific fuel consumption <sup>2</sup>	g/kWh	227	210
Fuel consumption <sup>2</sup>	l/h	199	202
Classifiable		√	√

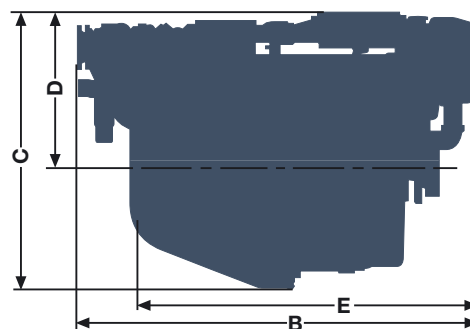
<sup>1</sup> The rating is according to DIN ISO 3046/1. <sup>2</sup> Consumption at rated power.

### Definition of medium duty operation

Annual operating hours	≤ 3 000
Percentage of time at full load	≤ 50 %
Average load application	≤ 70 %
Particular operating conditions	no wide-open throttle below rated speed

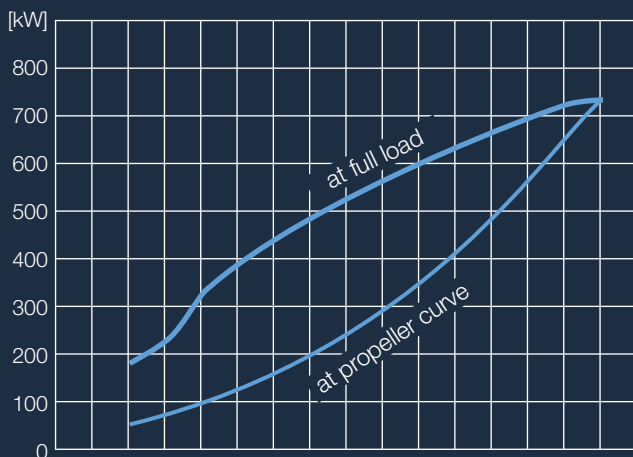
### Typical applications

Escort boats and Pilot boats  
Fishing boats  
Passenger boats and Ferries  
Cruising vessels  
Seagoing patrol boats

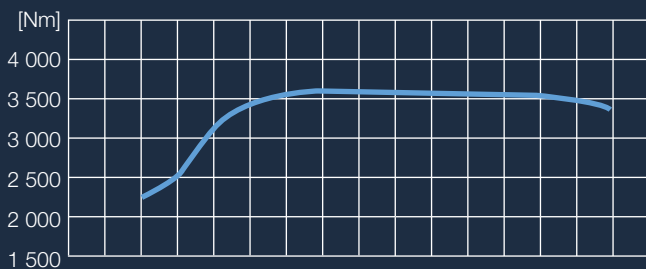


# Power charts D2842.

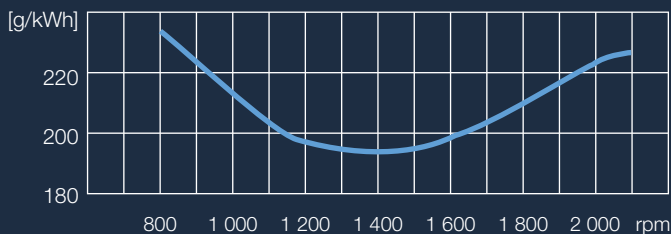
Power



Torque

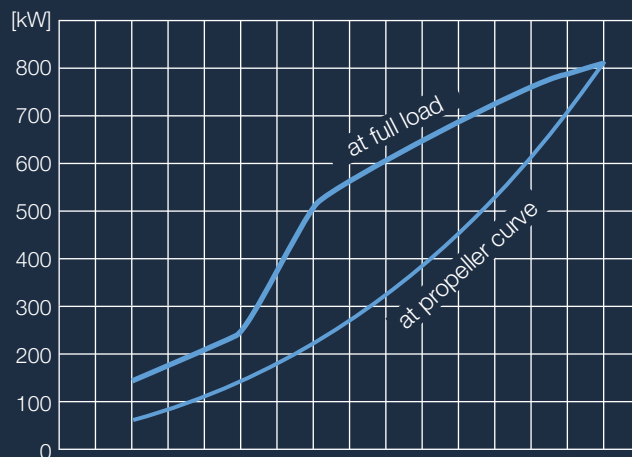


Specific fuel consumption (full load)

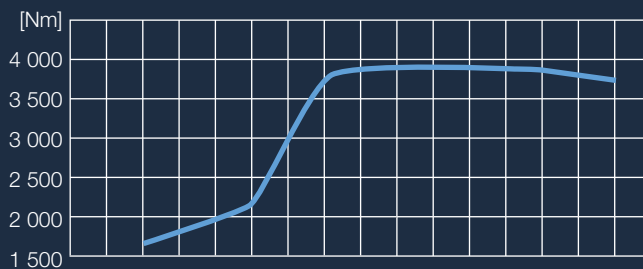


■ D 2842 LE 413 (735 kW, 2 100 rpm)

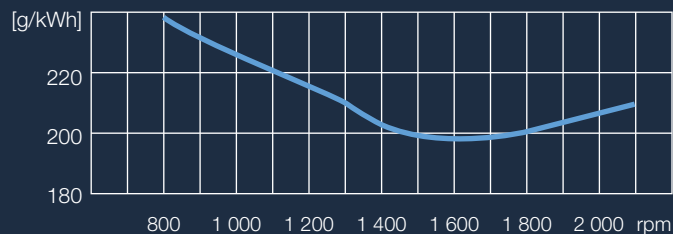
Power



Torque



Specific fuel consumption (full load)



■ D 2842 LE 410 (809 kW, 2 100 rpm)

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Text and illustrations are not binding.

We reserve the right to make modifications in the course of technical progress.

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