

Engine catalogue

Marine Diesel engines

MAN range - medium duty



mann diesel

energy in blue

ENG

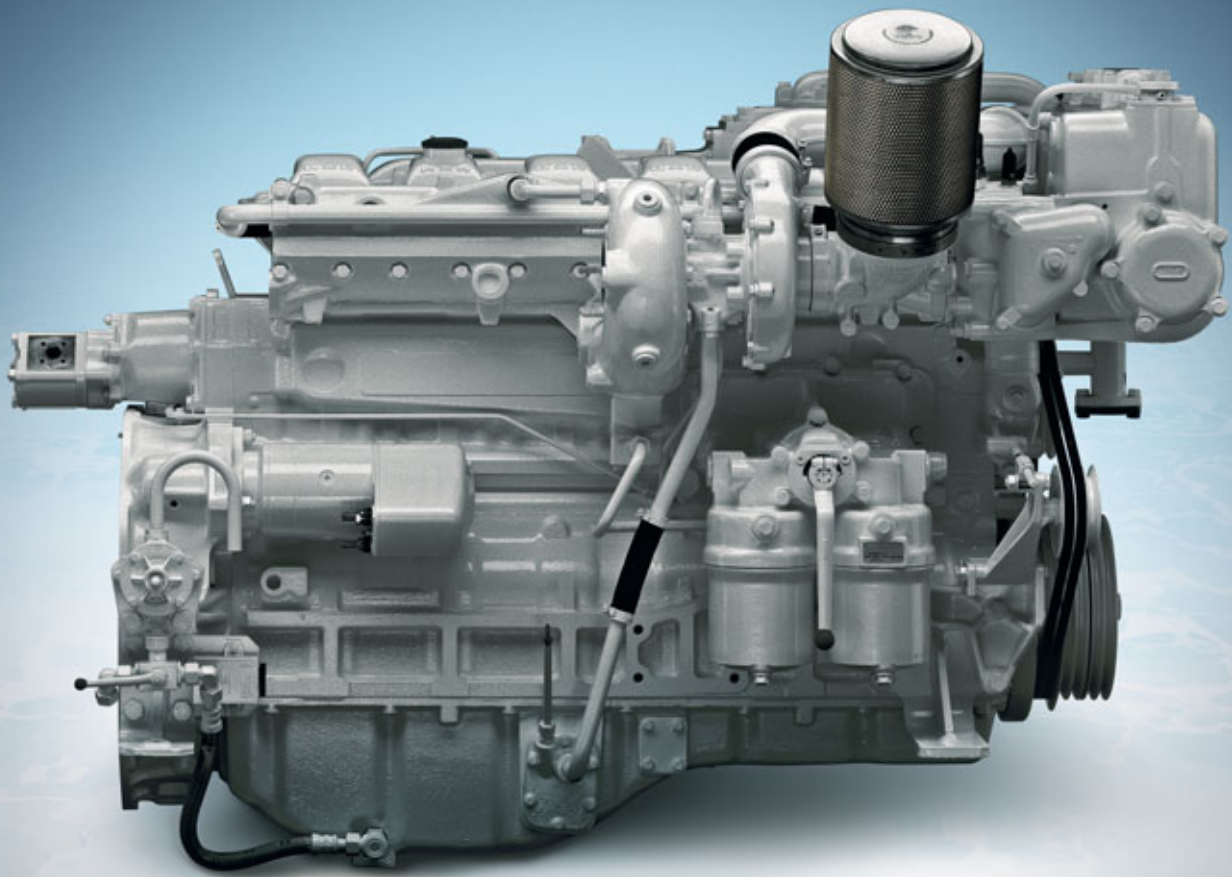
10 November 2010

Marine Diesel engines



Engine	Power kW	Num. of cylinders	Displacement cm ³	Design
D2866	294	6	12.0	inline
D2876	412	6	12.8	inline
D2848	551	8	14.6	V 90°
D2842	809	12	21.9	V 90°
D2862	735-1030	12	24.2	V 90°

D2866



MAN high speed marine engines
for medium duty applications.

Engineering the Future – since 1758.
MAN Nutzfahrzeuge



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 400 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 D2866.

Characteristics

Cylinders and arrangement	6 cylinders in-line
Operation mode	watercooled 4-stroke diesel engine with exhaust turbocharger and intercooler
Number of valves	2 valves per cylinder
Fuel system	Direct injection 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 control	Mechanical injection control
Exhaust gas status	IMO Tier 2 On request: SAV and BSO for commercial application
Fuel	DMX fuel to ISO 8217, EN 590

Dimensions D2866		LXE40	
A-Overall width of engine	mm	897	
B-Overall length of engine	mm	1,448	
C-Overall height of engine	- flat oil pan	mm	1,148
	- deep oil pan	mm	1,357
D-Top of engine to crankshaft centre	mm	817	
E-Length of engine from front end to edge of flywheel housing	mm	1,448	
Weight (dry)	kg	1,020	

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 D2866

Type of engine		LXE40
Bore	mm	128
Stroke	mm	155
Displacement	l	11.97
Compression ratio		15.5:1
Rotation looking on flywheel		left
Flywheel housing		SAE 1
Maximum output ¹	kW (mhp)	294 (400)
Rated speed	rpm	2,100
Torque at rated speed	Nm	1,337
Maximum torque	Nm	1,461
at speed	rpm	1,700
Specific fuel consumption ²	g/kWh	212
Fuel consumption ²	l/h	75
Classifiable		√

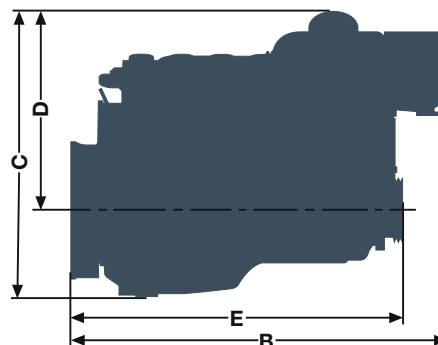
¹ The ratings are for medium duty operations. ² Consumption at rated power.

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

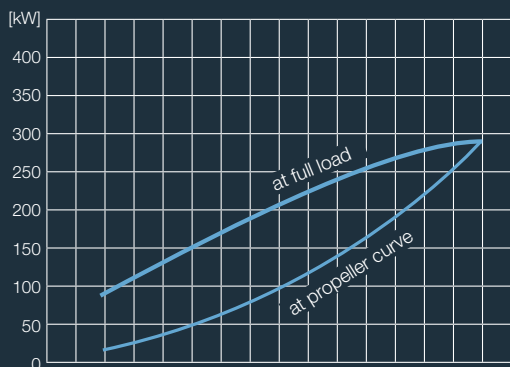
Typical applications

Escort boats and pilot boats
Fishing boats
Passenger boats and ferries
Cruising vessels
Seagoing patrol boats

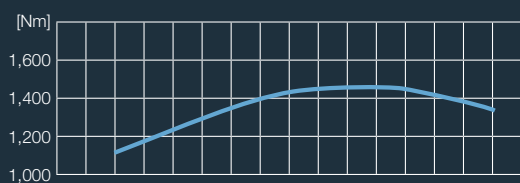


Power charts D2866.

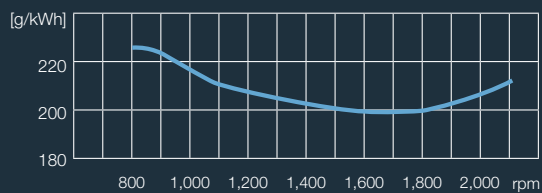
Power



Torque



Specific fuel consumption (full load)



■ D 2866 LXE 40 (294 kW, 2,100 rpm)

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MAN Nutzfahrzeuge AG
Sales Engines & Components
Vogelweiherstr. 33
90441 Nuremberg

marinemotor@man.eu
www.man-engines.com



D2876



MAN high speed marine engines for medium duty applications.

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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 400 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 D2876.

Characteristics

Cylinders and arrangement	6 cylinders in-line
Operation mode	watercooled 4-stroke diesel engine exhaust turbocharger with intercooler boost pressure control with waste gate
Number of valves	4 valves per cylinder
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 Electronic engine monitoring including diagnostic unit
Exhaust gas status	IMO Tier 2, RCD 94/25/EC On request: ZKR, SAV and BSO for commercial applications
Fuel	DMX fuel to ISO 8217, DIN EN 590

Dimensions D2876		LE402
A-Overall width of engine	mm	882
B-Overall length of engine	mm	1,608
C-Overall height of engine - flat oil pan	mm	966
- deep oil pan	mm	1,068
D-Top of engine to crankshaft centre	mm	652
E-Length of engine from front end to edge of flywheel housing	mm	1,320
Weight (dry)	kg	1,290

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- 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 D2876

Type of engine		LE402
Bore	mm	128
Stroke	mm	166
Displacement	l	12.8
Compression ratio		15.5:1
Rotation looking on flywheel		left
Flywheel housing		SAE 1
Maximum output ¹	kW (mhp)	412 (560)
Rated speed	rpm	2,100
Torque at rated speed	Nm	1,874
Maximum torque	Nm	2,150
at speed	rpm	1,200 - 1,600
Specific fuel consumption ²	g/kWh	222
Fuel consumption ²	l/h	109
Classifiable		√

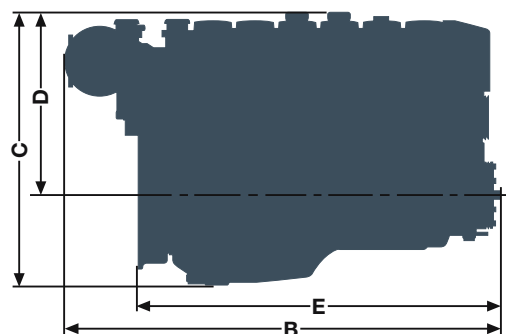
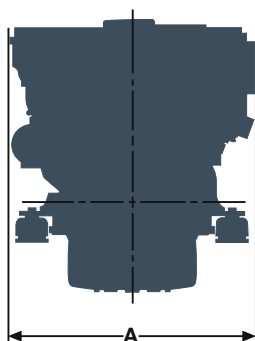
¹The ratings are for medium duty operations. ²Consumption at rated power.

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

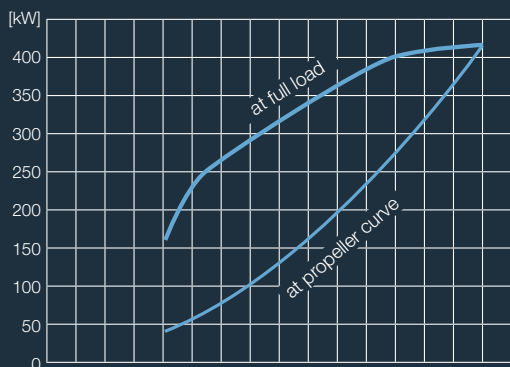
Typical applications

Escort boats and pilot boats
Fishing boats
Passenger boats and ferries
Cruising vessels
Seagoing patrol boats

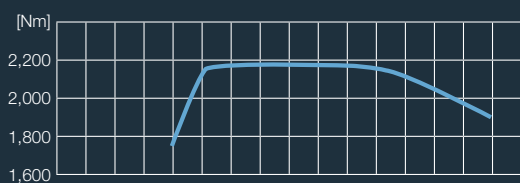


Power charts D2876.

Power



Torque



Specific fuel consumption (full load)



■ D 2876 LE 402 (412 kW, 2,100 rpm)

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MAN Nutzfahrzeuge AG
Sales Engines & Components
Vogelweiherstr. 33
90441 Nuremberg

marinemotor@man.eu
www.man-engines.com



D2848



MAN high speed marine engines for medium duty applications.

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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 400 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 D2848.

Characteristics

Cylinders and arrangement	8, cylinder in 90° V design
Operation mode	watercooled 4-stroke diesel engine exhaust turbocharger with intercooler boost pressure control with waste gate
Number of valves	4 valves per cylinder, replaceable
Fuel injection	Direct injection
Fuel system	Common Rail
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 Electronic engine monitoring including diagnostic unit
Exhaust gas status	IMO Tier 2, EPA Tier 2 for private use only. Commercial use upon request.
Fuel	SAV, BSO, RCD 94/25/EC, 97/68/EC DMX fuel to ISO 8217, DIN EN 590

Dimensions D28 Common Rail

		LE 422
A-Overall width of engine	mm	1,230
B-Overall length of engine	mm	1,546
C-Overall height of engine	mm	1,120
D-Top of engine to crankshaft centre	mm	730
E-Length of engine from front end to edge of flywheel housing	mm	1,175
Average weight of engine ready for installation (dry)	kg	1,565

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

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- 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 D2848

Type of engine	LE 422	
Bore	mm	128
Stroke	mm	142
Displacement	l	14.62
Compression ratio		15.5:1
Rotation looking on flywheel		left
Flywheel housing		SAE 1
Maximum output ¹	kW (mhp)	551 (750)
Rated speed	rpm	2,100
Torque at rated speed	Nm	2,510
Maximum torque	Nm	2,740
at speed	rpm	1,400-1,800
Specific fuel consumption ²	g/kWh	222
Fuel consumption ²	l/h	146
Classifiable		-

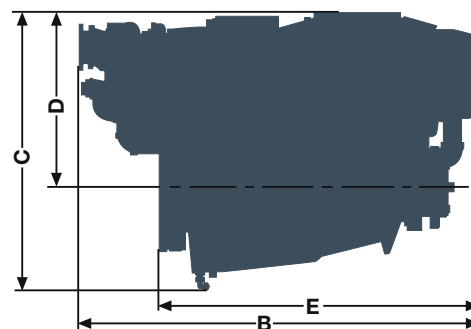
¹ The ratings are for medium duty operations. ² Consumption at rated power.

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

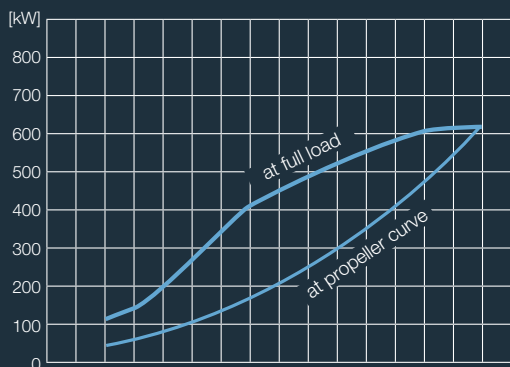
Typical applications

Escort boats and pilot boats
 Fishing boats
 Passenger boats and ferries
 Cruising vessels
 Seagoing patrol boats

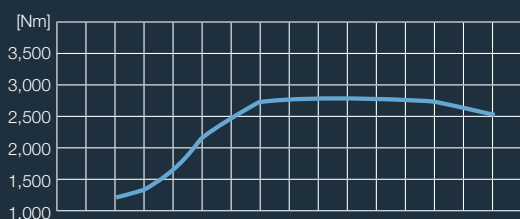


Power charts D2848

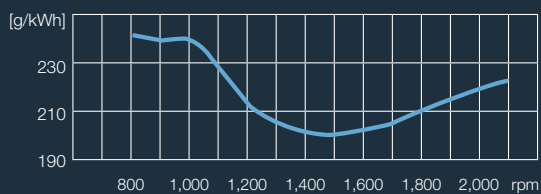
Power



Torque



Specific fuel consumption (full load)



■ D2848 LE422 (551 kW, 2,100 rpm)

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MAN Nutzfahrzeuge AG
Sales Engines & Components
Vogelweiherstr. 33
90441 Nuremberg

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D2842



MAN high speed marine engines for medium duty applications.

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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 400 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
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 Electronic engine monitoring including diagnostic unit
Exhaust gas status	IMO Tier 2, RCD 94/25/EC On request: SAV and BSO for commercial application
Fuel	DMX fuel to ISO 8217, EN 590

Dimensions D2842		LE410
A-Overall width of engine	mm	1,230
B-Overall length of engine	mm	1,795
C-Overall height of engine	- flat oil pan	1,105
	- deep oil pan	1,216
D-Top of engine to crankshaft centre	mm	685
E-Length of engine from front end to edge of flywheel housing	mm	1,491
Average weight of engine ready for installation (dry)	kg	1,860

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

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- World-wide service network with rapid supply of spare parts

Technical data D2842

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

¹ The rating is according to DIN ISO 3046/1. ² 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

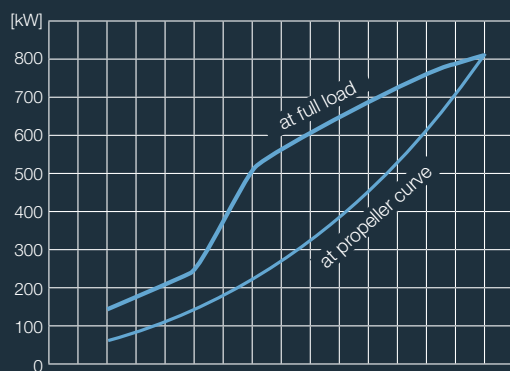
Typical applications

Escort boats and pilot boats
Fishing boats
Passenger boats and ferries
Cruising vessels
Seagoing patrol boats

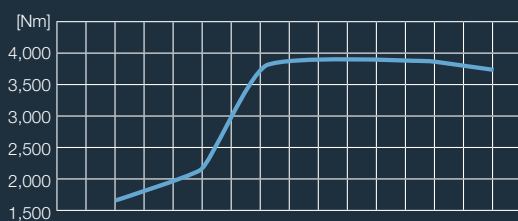


Power charts D2842.

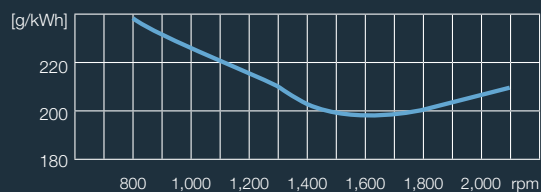
Power



Torque



Specific fuel consumption (full load)



■ D 2842 LE 410 (809 kW, 2,100 rpm)

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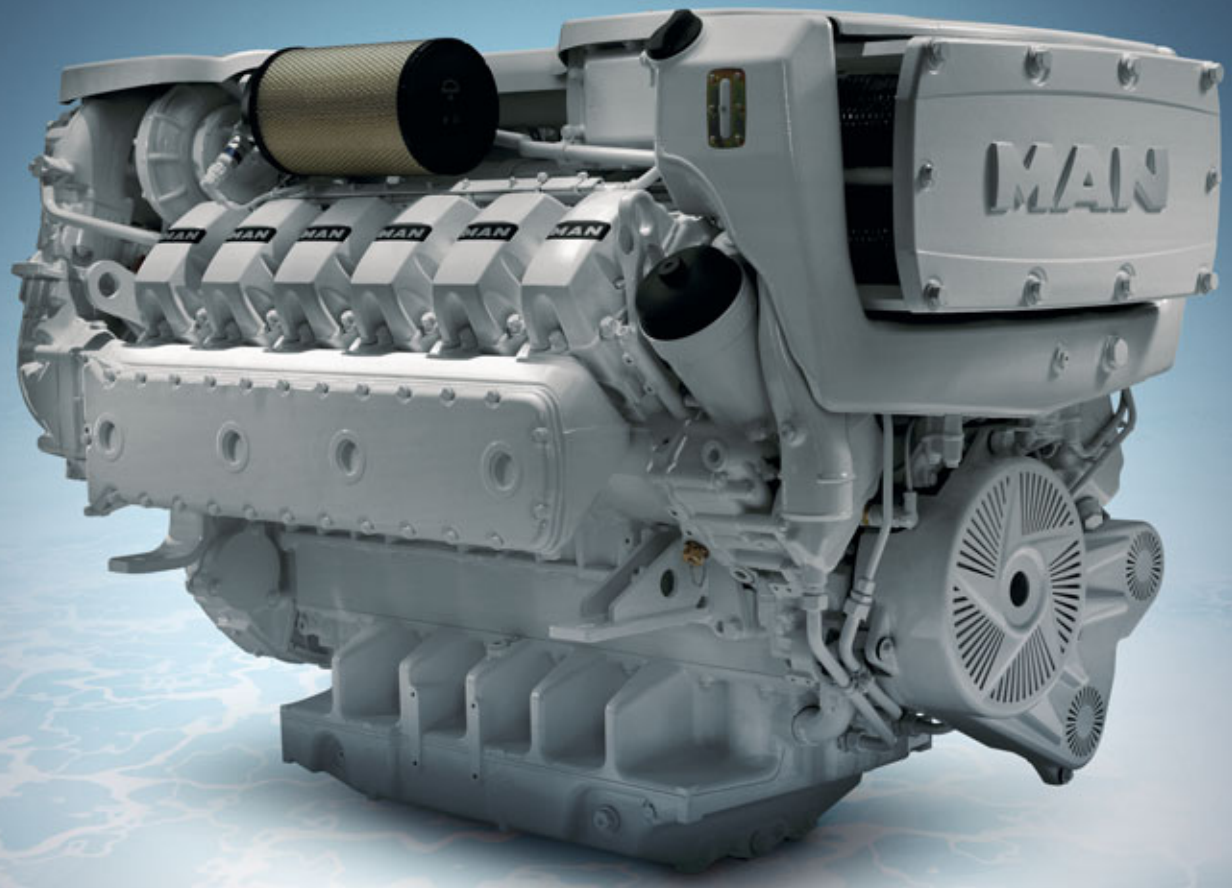
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D2862



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MAN Nutzfahrzeuge



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 D2862.

Characteristics

Cylinders and arrangement	12 cylinders in 90° V design
Operation mode	4-stroke diesel engine watercooled exhaust turbocharger intercooler
Number of valves	4 valves per cylinder, replaceable
Fuel injection	Direct fuel injection with electronic control
Fuel system	Common Rail
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	Plate heat exchanger seawater cooled
Engine electric	Electronic injection control (EDC) Electronic engine monitoring including diagnostic unit
Exhaust gas status	IMO Tier 2, EPA Tier 2 for private use only. Commercial use upon request. RCD 94/25/EC

Dimensions D2862

LE 422/432/463

A-Overall width of engine	mm	1,153
B-Overall length of engine	mm	2,124
C-Overall height of engine	mm	1,289
D-Top of engine to crankshaft centre	mm	825
E-Length of engine from front end to edge of flywheel housing	mm	1,631
Average weight of engine ready for installation (dry)	kg	2,270

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- World-wide service network with rapid supply of spare parts

Technical data D2862

Type of engine		LE 422	LE432	LE 463
Bore	mm	128	128	128
Stroke	mm	157	157	157
Displacement	l	24.24	24.24	24.24
Compression ratio		17:1	17:1	17:1
Rotation looking on flywheel		left	left	left
Flywheel housing		SAE 1	SAE 1	SAE 1
Maximum output ¹	kW (mhp)	735 (1,000)	882 (1,200)	1,029 (1,400)
Rated speed	rpm	2,100	2,100	2,100
Torque at rated speed	Nm	3,342	4,010	4,681
Maximum torque	Nm	3,695	4,433	5,200
at speed	rpm	1,300 - 1,900	1,300 - 1,900	1,300 - 1,900
Specific fuel consumption ²	g/kWh	207	208	210
Classifiable		√	√	√

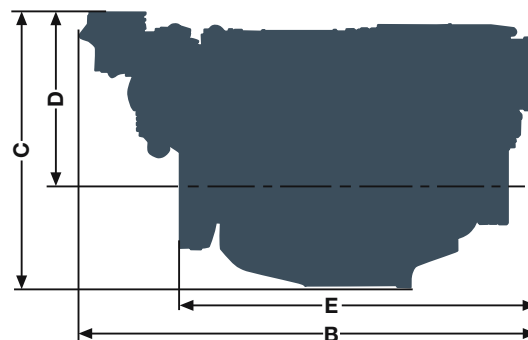
¹ The ratings are for medium duty operations. ² Consumption at rated power.

Definition of medium duty operation

Annual operating hours	≤ 3,000
Percentage of time at full load	≤ 50% (LE 422/LE 432) ≤ 20% (LE 463)
Average load application	≤ 70% (LE 422/LE 432) ≤ 50% (LE 463)
Particular operating conditions	no wide-open throttle below rated speed

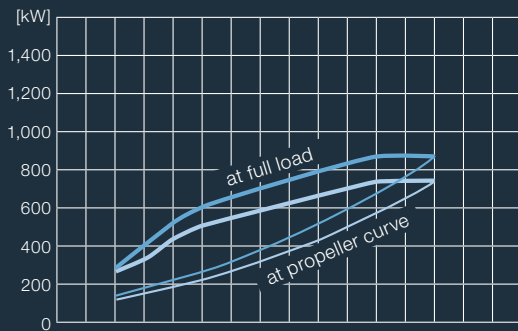
Typical applications

- Escort boats and pilot boats
- Fishing boats
- Passenger boats and ferries
- Cruising vessels
- Seagoing patrol boats

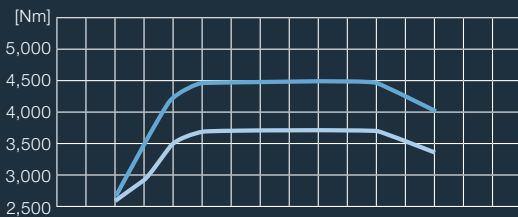


Power charts D2862.

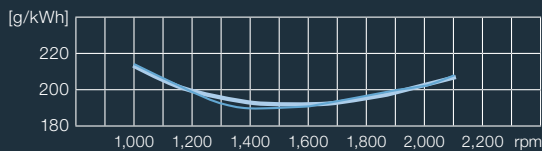
Power



Torque

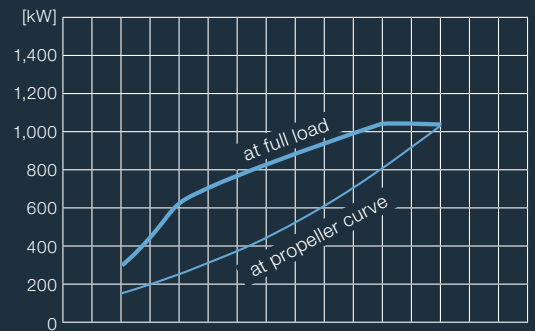


Specific fuel consumption (full load)

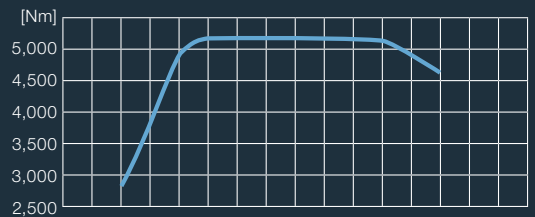


- D2862 LE432 (882 kW, 2,100 rpm)
- D2862 LE422 (735 kW, 2,100 rpm)

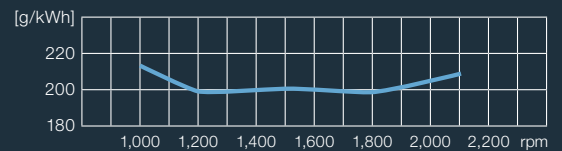
Power



Torque



Specific fuel consumption (full load)



- D2862 LE463 (1,029 kW, 2,100 rpm)

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Sales Engines & Components
Vogelweiherstr. 33
90441 Nuremberg

marinemotor@man.eu
www.man-engines.com



Nanni Industries S.A.S.

11, Avenue Mariotte - Zone Industrielle
33260 La Teste France

Tel : + 33 (0)5 56 22 30 60

Fax : +33 (0)5 56 22 30 79

E-mail : contact@nannidiesel.com



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