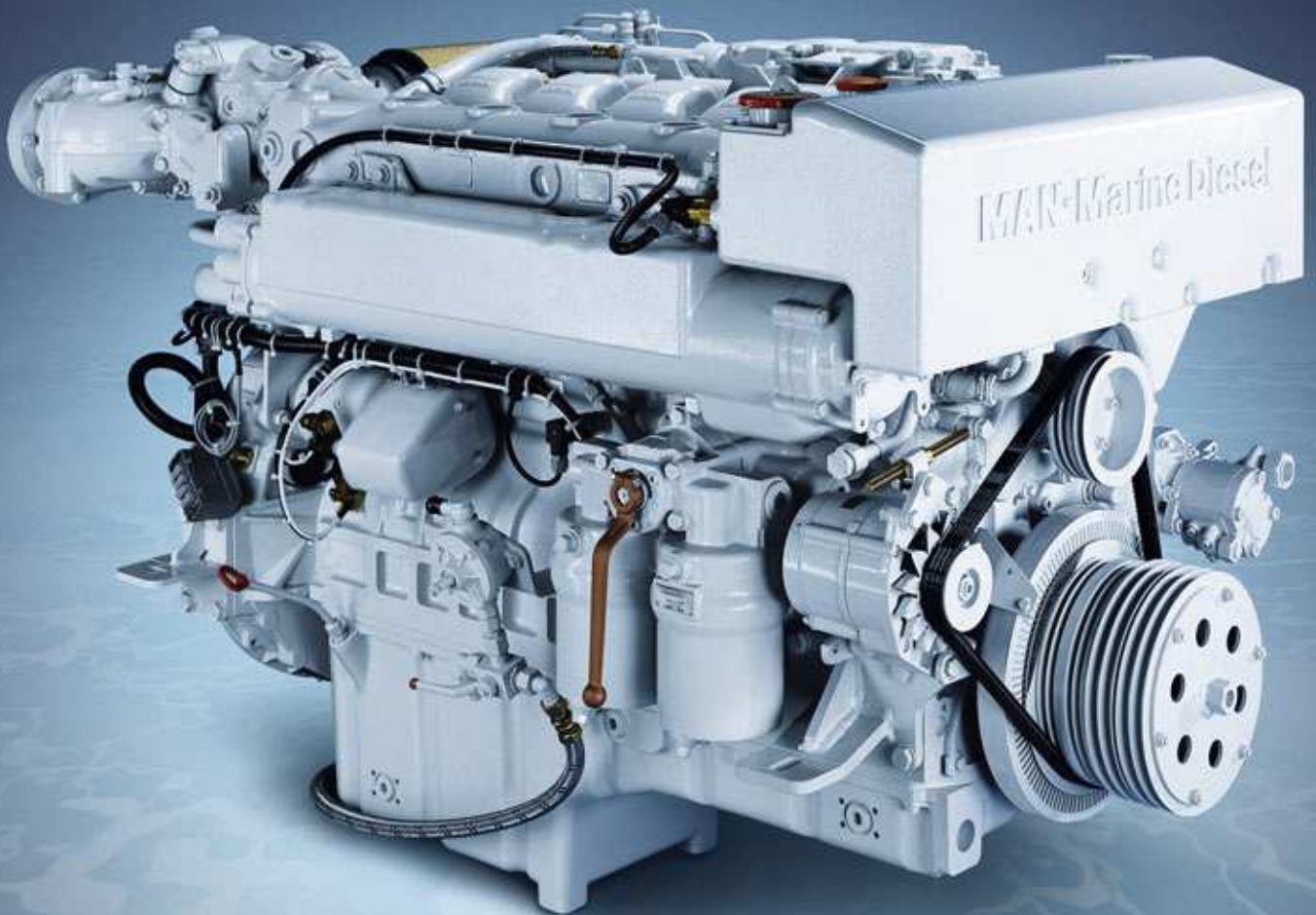


D2876

MAN high speed marine engines
for heavy duty applications.



Full speed ahead.

Typical applications for marine heavy duty operation cover passenger and goods transportation as well as escort and patrol duties at sea. MAN marine diesel engines from 258 mhp to 900 mhp perform these tasks reliably and efficiently. They meet the international 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 with exhaust turbocharger and intercooler boost pressure control with waste gate
Number of valves	2 valves per cylinder, replaceable
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	Heat exchanger with seawater pump fitted Alternatively equipment for keel cooling
Engine electric	Electronic engine monitoring
Exhaust gas status	IMO/MARPOL 73/78 97/68/EC On request: SAV and BSO for commercial application
Fuel	DMX fuel to ISO 8217, EN 590

Dimensions D2876		LE406	LE403	LE407
A-Overall width of engine	mm	1,565	1,565	1,565
B-Overall length of engine	mm	830	830	830
C-Overall height of engine	- flat oil pan	986	986	986
	- deep oil pan	1,064	1,064	1,064
D-Top of engine to crankshaft centre	mm	650	650	650
E-Length of engine from front end to edge of flywheel housing	mm	1,305	1,305	1,305
Average weight of engine ready for installation (dry)	kg	1,160	1,160	1,160

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 D2876

Type of engine		LE406	LE403	LE407
Bore	mm	128	128	128
Stroke	mm	166	166	166
Displacement	l	12.8	12.8	12.8
Compression ratio		15.5:1	15.5:1	15.5:1
Rotation looking on flywheel		left	left	left
Flywheel housing		SAE 1	SAE 1	SAE 1
Nominal rating ¹	kW (mhp)	280 (381)	331 (450)	360 (490)
Rated speed	rpm	1,800	1,800	1,800
Torque at rated speed	Nm	1,485	1,756	1,915
Maximum torque	Nm	1,630	1,971	2,076
at speed	rpm	1,500	1,400	1,150
Specific fuel consumption ²	g/kWh	222	223	222
Fuel consumption ²	l/h	74	88	96
Classifiable		√	√	√

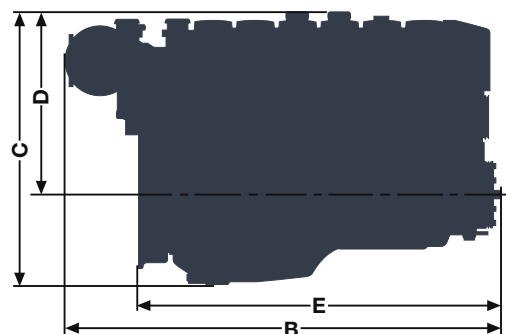
¹ The rating is according to DIN ISO 3046/1. ² Consumption at rated power.

Definition of heavy duty operation

Annual operating hours	> 3,000
Percentage of time at full load	≤ 100%
Average load application	≤ 100%

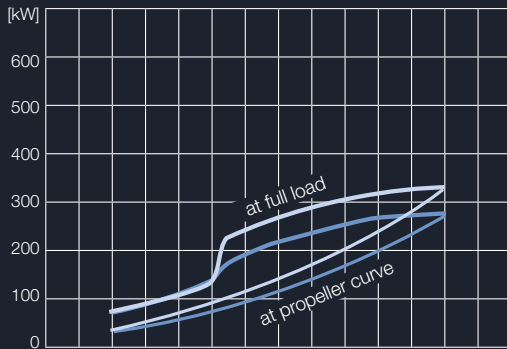
Typical applications

Trawlers
Tugs and Pushboats
Freight barges and Freighters
Ferries
Dredgers

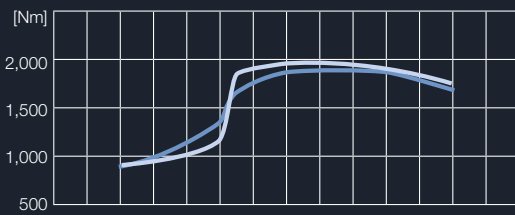


Power charts D2876.

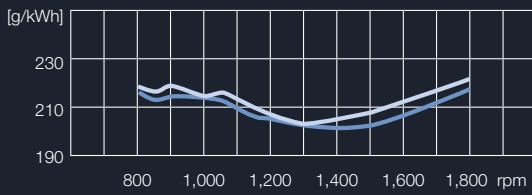
Power



Torque

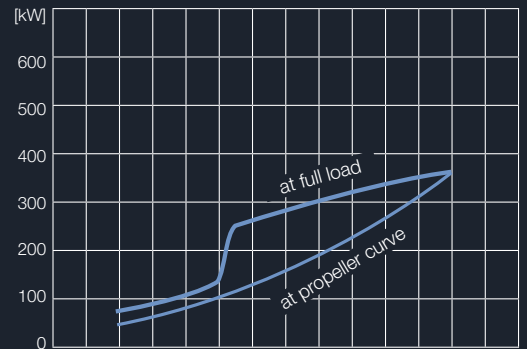


Specific fuel consumption (full load)

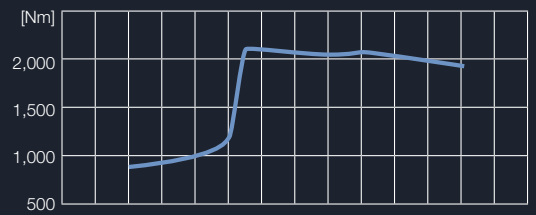


- D 2876 LE 406 (280 kW, 1,800 rpm)
- D 2876 LE 403 (331 kW, 1,800 rpm)

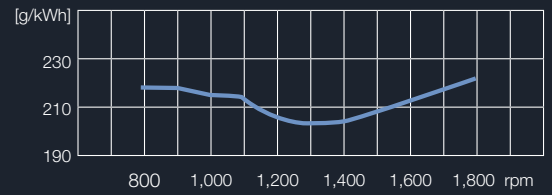
Power



Torque



Specific fuel consumption (full load)



- D 2876 LE 407 (360 kW, 1,800 rpm)

MAN Diesel SE

Vogelweiherstrasse 33
 90441 Nuremberg, Germany
 Phone +49 911 420-0
 highspeed@mandiesel.com
 www.mandiesel.com