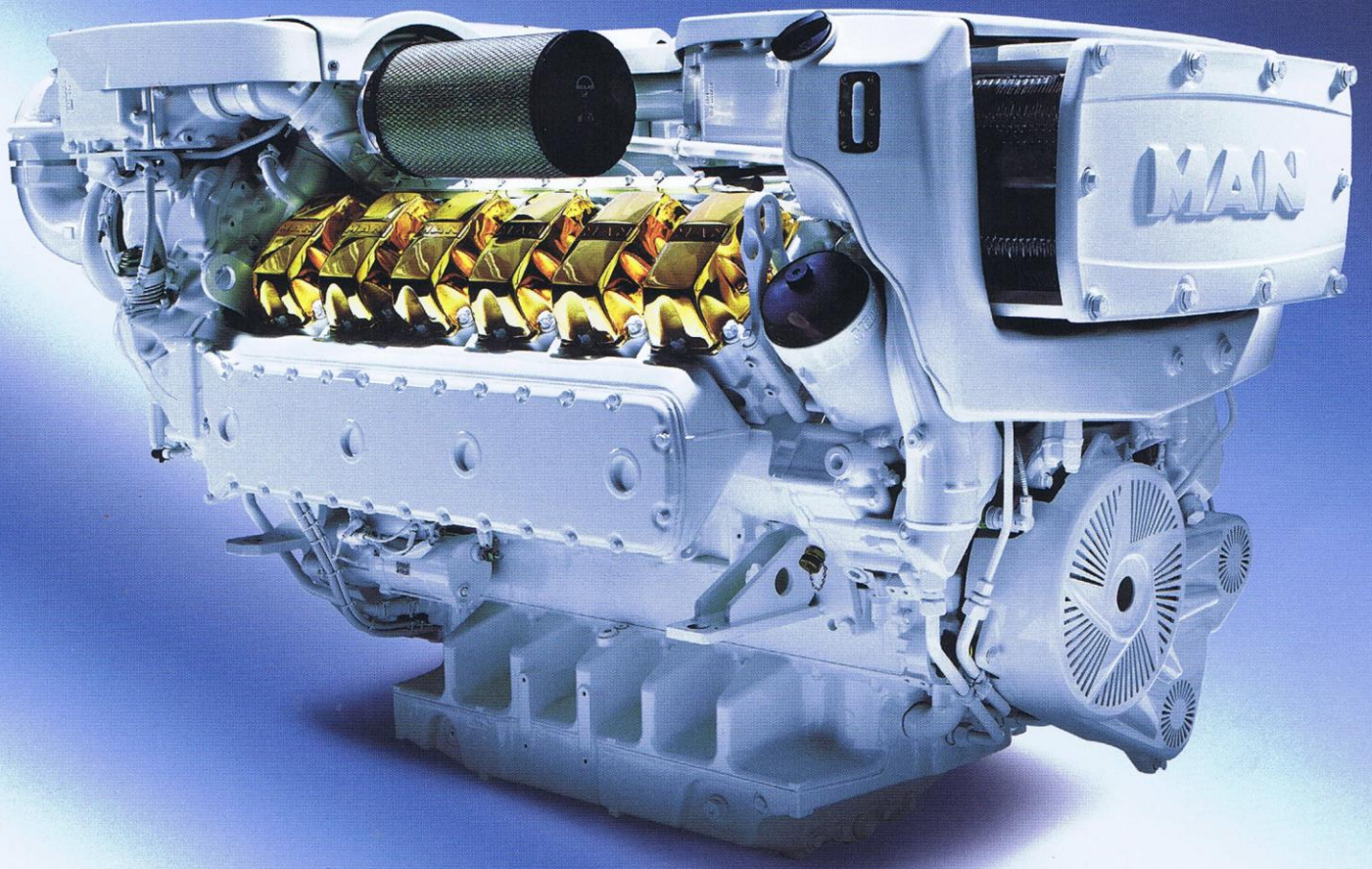
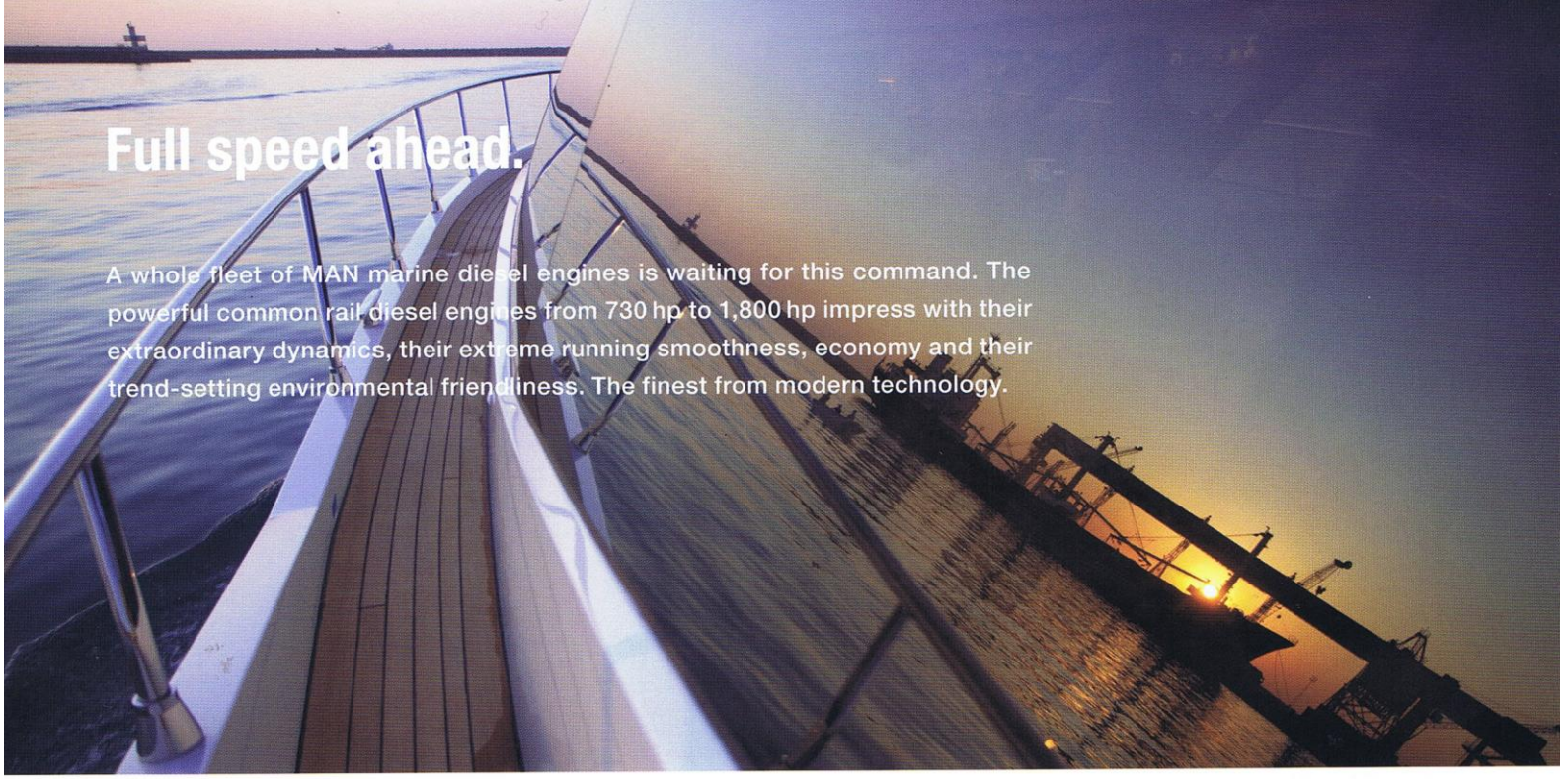


V12-1650 and V12-1800.

MAN high speed marine engines for light duty applications.

MAN



Full speed ahead.

A whole fleet of MAN marine diesel engines is waiting for this command. The powerful common rail diesel engines from 730 hp to 1,800 hp impress with their extraordinary dynamics, their extreme running smoothness, economy and their trend-setting environmental friendliness. The finest from modern technology.

Engine description V12-1650 and V12-1800.

Characteristics

Cylinders and arrangement:	12 cylinders in 90° V design
Operation mode:	4-stroke diesel engine, watercooled
Turbocharging:	2-stage exhaust turbocharger with intercooler
Number of valves:	4 valves per cylinder
Fuel system:	Common Rail direct fuel injection with electronic control
Engine lubrication:	Closed system with forced feeding, oil cooling and filtering
Type of cooling:	Plate heat exchanger, seawater cooled
Engine control:	Electronic injection control (EDC) Electronic engine monitoring including diagnostic unit
Exhaust gas status:	IMO Tier 2, RCD 94/25/EC, EPA Tier 2, 97/68/EC
Fuel:	DIN EN 590

Definition of light duty operation

Annual operating hours:	< 1,000
Percentage of time at full load:	≤ 20 %
Average load application:	≤ 50 %
Particular operation conditions:	no wide-open throttle below rated speed

Typical applications

- Escort boats and patrol boats
- Ambulance boats
- Pleasure crafts
- Police boats

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
- Large operation range owing to low consumption
- Low running costs and long service life
- Low emission values
- World-wide service network with rapid supply of spare parts

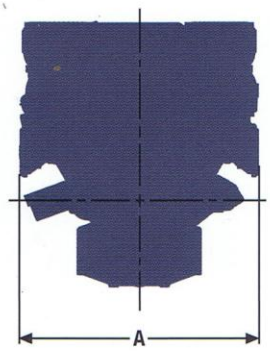
Technical features V12-1650 and V12-1800

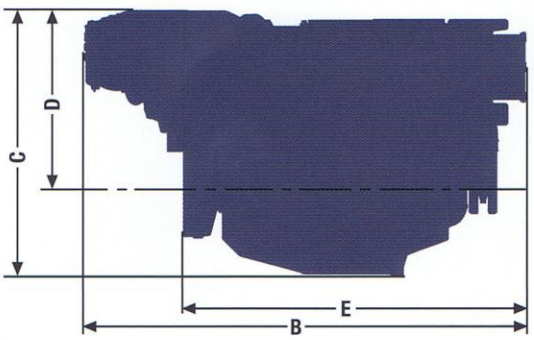
Type of engine		V12-1650	V12-1800
Displacement	l	24.24	24.24
Maximum output to DIN ISO 3046-1 [1]	kW (hp)	1,213 (1,650)	1,324 (1,800)
Rated speed	rpm	2,300	2,300
Maximum torque	Nm	5,520	6,020
at speed	rpm	1,200–2,100	1,200–2,100
Weight (dry)	kg	2,400	2,365
Fuel consumption at rated power	l/h	315	339
Classifiable		✓	–

1) The ratings are only for operation of private yachts.

Dimensions		V12-1650	V12-1800
A-Overall width of engine	mm	1,150	1,153
B-Overall length of engine	mm	2,255	2,139
C-Overall height of engine	mm	1,350	1,265
D-Top of engine to crankshaft centre	mm	885	811
E-Length of engine from front end to edge of flywheel housing	mm	1,667	1,658

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

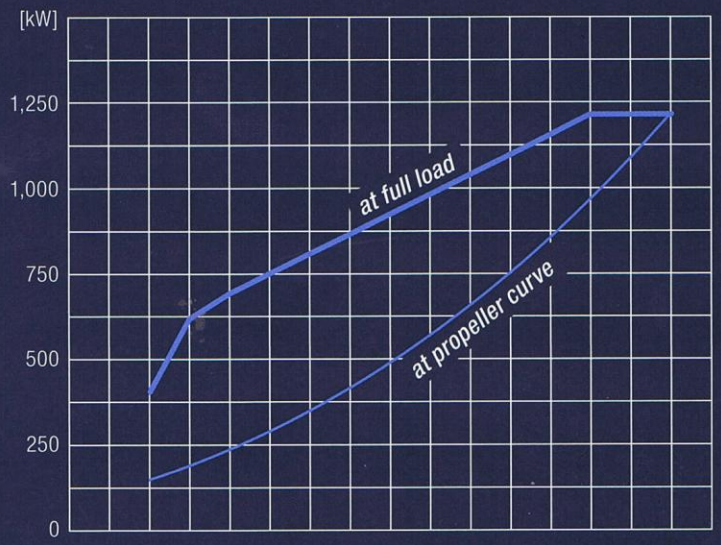




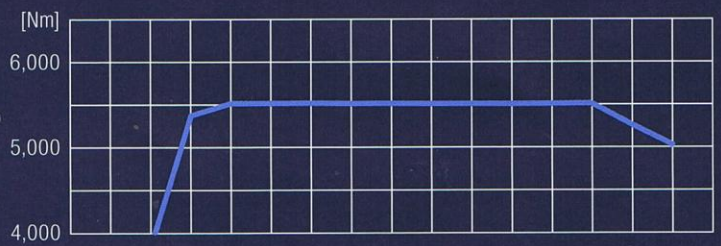
Power charts V12-1650 and V12-1800.

V12-1650

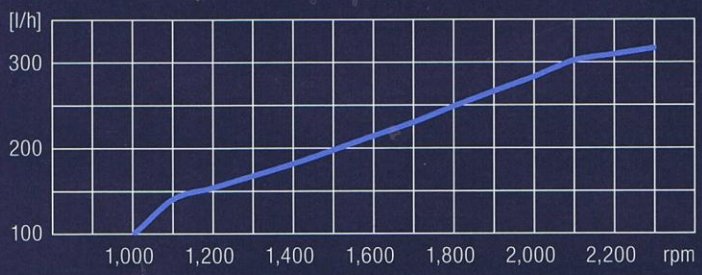
Power



Torque



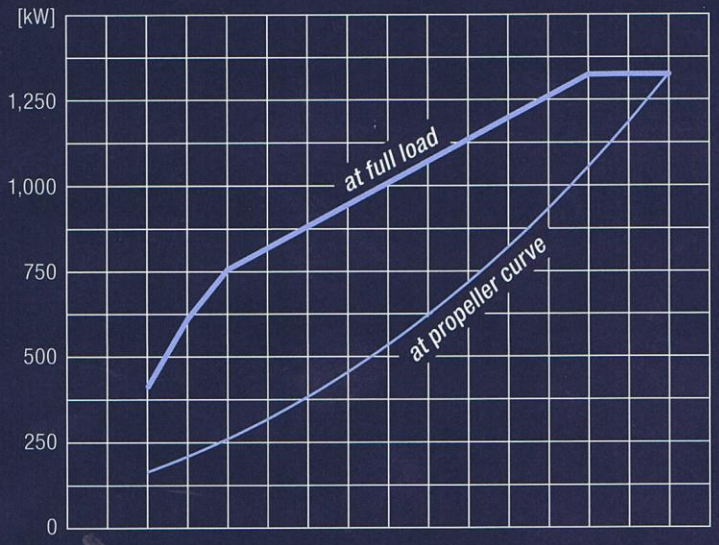
Absolute fuel consumption



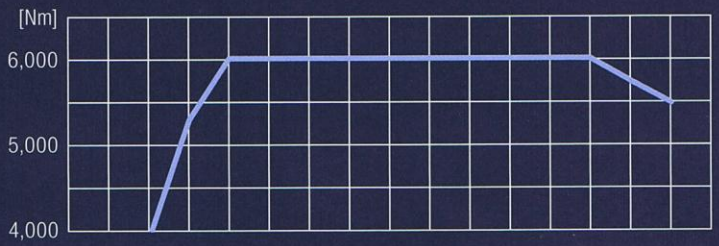
V12-1650 with 1,213 kW (1,650 hp at 2,300 rpm)

V12-1800

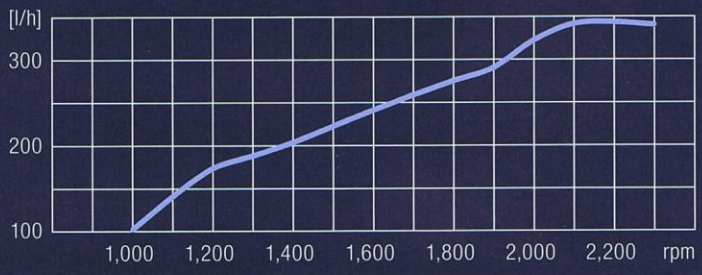
Power



Torque



Absolute fuel consumption



V12-1800 with 1,324 kW (1,800 hp at 2,300 rpm)

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We reserve the right to make modifications for reasons of technical progress.

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