MAN Energy Solutions Future in the making



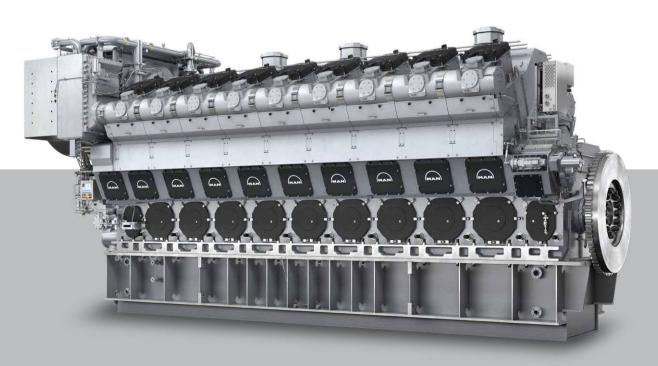
MAN 51/60

This highly efficient and robust liquid fuel engine offers excellent dynamic values and adapts easily to different output requirements. Its low specific fuel oil consumption significantly reduces operational expenditure.

Designed for easy conversion to dual fuel or gas operation, the MAN 51/60 offers a perfect solution for power plants that run initially on liquid fuel but are being prepared for gas operation in the future.

Benefits at a glance

- Easy retrofitting for dual fuel and gas operation
- High efficiency
- Variable power output settings
- Long time between overhauls



MAN 51/60

Dimensions

Cyl. No.		6L		9L		12V		18V
L	8,464 mm	333.2 in	11,067 mm	435.7 in	9,970 mm	392.5 in	13,489 mm	531 in
Н	5,807 mm	228.6 in	5,807 mm	228.6 in	6,450 mm	253.9 in	6,450 mm	253.9 in
W	3,156 mm	124.2 in	3,251 mm	128.0 in	4,884 mm	192.2 in	4,884 mm	192.2 in
Engine weight	135.0 t	297,624 lb	180.0 t	396,832 lb	238.0 t	524,700 lb	315.0 t	694,456 lb

Output

Cyl. No.		6L	9L	12V	18V
Output mech.	kW	6,300	9,450	12,600	18,900
Speed	rpm	500/514	500/514	500/514	500/514
Frequency	Hz	50/60	50/60	50/60	50/60

With two-stage turbocharging

Dimensions

Cyl. No.		18V
L	19,100 mm	751.9 in
Н	9,023 mm	355.2 in
w	4,700 mm	185 in
Engine weight	345.0 t	760,594 lb

Output

Cyl. No.		18V
Output mech.	kW	18,900/19,800/21,600
Speed	rpm	500/514
Frequency	Hz	50/60

Values according to ISO 3046-1:2002; ISO 15550:2002. Last updated January 2024

Engine features

General data

- Engine cycle: four-stroke
- No. of cylinders: 6L, 9L, 12V, 18V

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With two-stage turbocharging

- Bore: 510 mm/20.08 in
- Stroke: 600 mm/23.62 in

Fuel efficiency comparison



48% 49% 50%

Engine automation and control

 MAN SaCoS_{one} safety and control system on engine, developed in-house at MAN

Turbocharging system

- Highly efficient constant pressure
- MAN TCA series exhaust gas turbocharging system
- Individual engine/turbocharger optimization matching

Starting system

 Starting air valves inside cylinder head

Fuel system

- Low fuel pressure at engine inlet 5 bar(g)/72,5189 psi
- Robust conventional injection system

Applications

- High efficiency base-load power plants
- Installations that are to be operated with gas at a later date
- Areas with no gas infrastructure

MAN Energy Solutions info@man-es.com www.man-es.com

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