



an EnPro Industries company

# FM-MAN 28/33D

The world's most powerful  
1000 rpm engine



For over a century, Fairbanks Morse Engine has been continuously developing and improving its products to provide reliable, economic, and environmentally friendly solutions to meet the needs of propulsion and power generation customers. The Fairbanks Morse FM-MAN 28/33D range of engines has combined world-class engineering and state-of-the-art technology to produce the most powerful and fuel efficient 1000 rpm diesel engine in the world.

## Features and Benefits

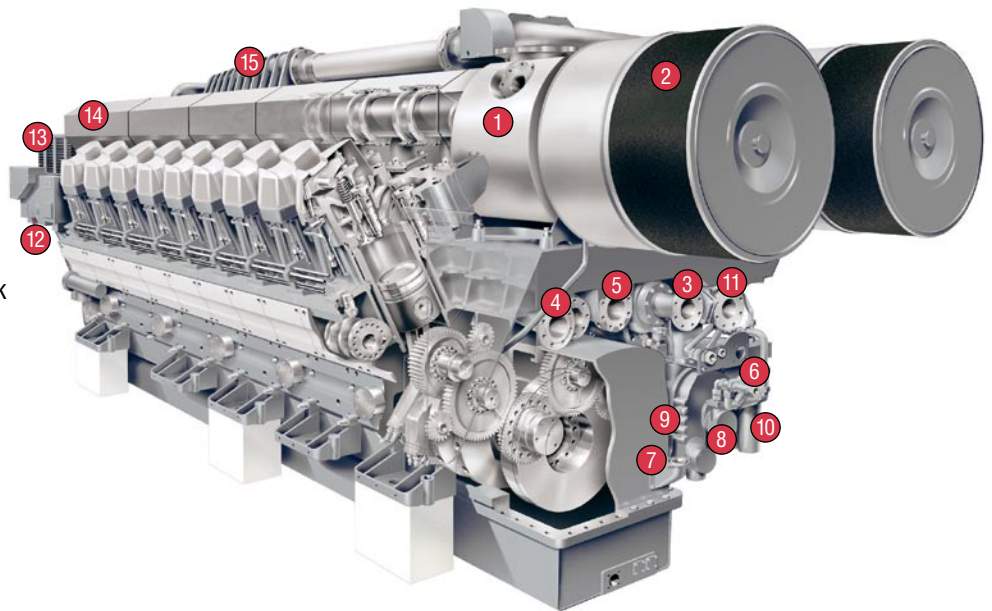
- Advanced electronic fuel injection improves SFC, performance, and transient response; reduces NO<sub>x</sub>
- 52 degree Vee angle minimizes width, facilitates installation
- Reduced component count and integrated pipes and passages improve reliability and ease of installation and maintenance
- Differentiated cylinder head design minimizes pressure drops and improves SFC
- Strategic cooling of cylinder liners facilitates maintenance and minimizes installed weight
- Engine-mounted lube oil cooler, filters, and thermostatic valve reduce overall weight and facilitate installation and maintenance



# FM-MAN 28/33D

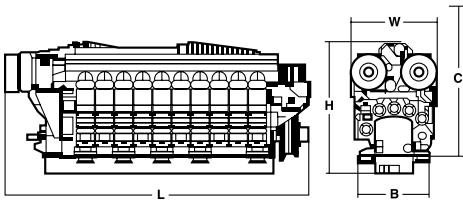
## Key to main components

- ① Turbochargers
- ② Air filters
- ③ Fresh water pumps
- ④ Sea water outlet
- ⑤ LT water outlet
- ⑥ Fuel inlet
- ⑦ Lubricating oil filter and dipstick
- ⑧ Fuel lift pump
- ⑨ Lubricating oil pump
- ⑩ Fuel filters
- ⑪ HT water outlet
- ⑫ Duplex lubricating oil filter
- ⑬ Lubricating oil cooler
- ⑭ Heat shields
- ⑮ Intercoolers



## Engine Data

**FM-MAN 28/33D**  
Bore: 280 mm, Stroke: 330 mm



### Ratings

Engine	Speed r/min	Power	
		kWb	bhp
12V 28/33D	900	4860	6517
	1000	5400	7240
16V 28/33D	900	6480	8690
	1000	7200	9655
20V 28/33D	900	8100	10,862
	1000	9000	12,069

Cyl. No	12	16	20
L mm	5490	6410	7330
W mm	2100	2100	2100
H mm	3180	3180	3180
B mm	1700	1700	1700
C mm	2463	2463	2463
Dry Mass t	30	37	46

Data and specifications subject to change without notice.

**FAIRBANKS  
MORSE  
ENGINE**

an EnPro Industries company

**POWER Solutions**  
Our Business For Over A Century.

[www.fairbanksmorse.com](http://www.fairbanksmorse.com)

  
FM-MAN engines are  
manufactured under license  
from MAN Diesel.