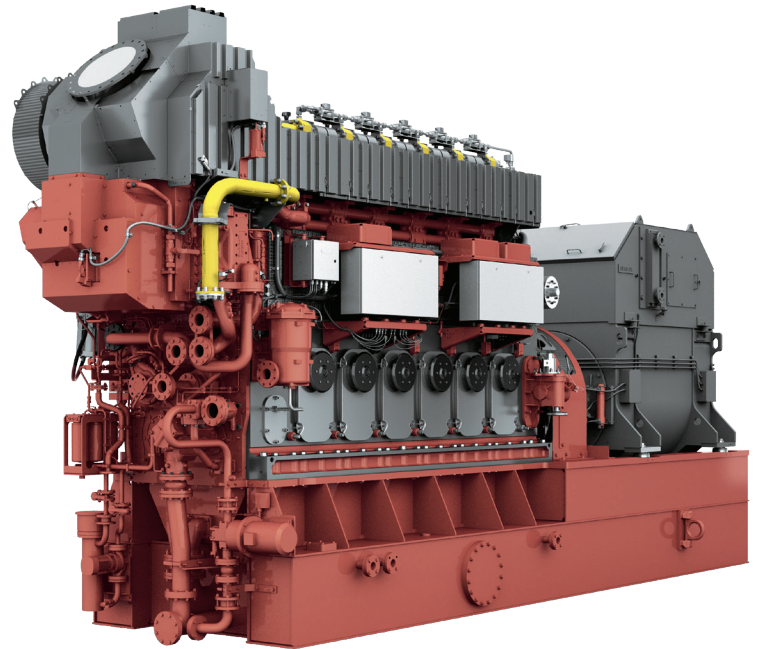


# M 34 DF

**Marine Generator Set**  
6 • 8 • 9 Cylinder

## KEY FEATURES AND BENEFITS

- Lowest emissions combined with highest efficiency and reliability
- Gas start capability eliminates diesel emissions
- Low amount of methane slip due to optimized combustion control
- Extreme fuel efficiency and low load capability below 12%
- Modular Alarm and Control System (MACS) for safe and easy operation
- Reliable and steady speed regulations even in heavy weather and breaking seas
- Modular engine design for simplified service and maintenance



Pictures shown are for illustration purpose only.  
Actual product may vary due to product enhancement.

## ENGINE SPECIFICATIONS

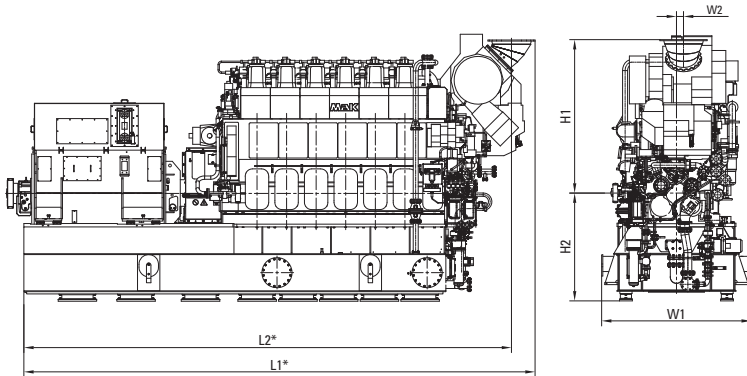
<b>Emissions</b>	IMO Tier III in gas mode, in diesel mode with optional SCR system	
<b>Fuel</b>	LNG (MDO or HFO backup)	
<b>Power Range</b>	Minimum Rating 2,934 kW <sub>e</sub> (3,672 kVA) Maximum Rating 4,574 kW <sub>e</sub> (5,724 kVA)	
<b>Speed Range</b>	720/750 rpm	
<b>Aspiration</b>	Turbocharged	
<b>Bore</b>	340 mm	13.40 in
<b>Stroke</b>	460 mm	18.11 in
<b>Rotation</b>	Counterclockwise/option: clockwise	
<b>Configuration</b>	In-line / 6, 8, 9 cylinder	
<b>Swept Volume</b>	42 l/cyl	2,563 in <sup>3</sup>

## TECHINCAL DATA – GENERATOR SET

### Dimensions (mm) and Weights (t)

Type	L1*	L2*	H1	H2	W1	W2	Weight*
6 M 34 DF	9160	8737	2749	1930	2680	127	72.0
8 M 34 DF	10268	9845	2970	1930	2680	191	84.0
9 M 34 DF	10862	10389	2970	1930	2680	191	90.0

\* Dependent on generator make/type



Type	Engine rating		Output range		Frequency	Speed	Mean eff. pressure	Mean piston speed	Spec. fuel consumption (Diesel mode)	Total spec. energy consumption (Gas mode)
	kW	kWe	kVA	Hz	rpm	bar	m/s	g/kWh	kJ/kWh	
6 M 34 DF	3180	3085	3856	60	720	21.2	11.0	183/183	7450/7620	
	3300	3201	4001	50	750	21.1	11.5	186/186	7560/7730	
8 M 34 DF	4240	4113	5141	60	720	21.2	11.0	183/183	7450/7620	
	4400	4268	5335	50	750	21.1	11.5	186/186	7560/7730	
9 M 34 DF	4770	4627	5784	60	720	21.2	11.0	183/183	7450/7620	
	4950	4802	6002	50	750	21.1	11.5	186/186	7560/7730	

Stroke: 460 mm      Specific lubricating oil consumption 0.6 g/kWh,  
Bore: 340 mm      Generator efficiency: 0.97, cos φ: 0.8

Generator set centre distance:  
min. 3000 mm

Removal of cylinder liner:  
in transverse direction: 3040 mm  
in longitudinal direction: 3400 mm

Engine with turbocharger at driving end available, ask for dimensions.

Please contact us for lead times.

# Caterpillar Marine

### Europe, Africa, Middle East

**Caterpillar Marine**  
A Division of  
**Caterpillar Motoren GmbH & Co.KG**  
Neumühlen 9  
22763 Hamburg  
Germany

Phone: +49 40 2380 3000  
Telefax: +49 40 2380 3535

### Americas

**MaK Americas Inc.**  
3450 Executive Way  
Miramar Park of Commerce  
Miramar, FL 33025/USA

Phone: +1 954 885 3200  
Telefax: +1 954 885 3131

### Asia Pacific

**Caterpillar Marine Trading (Shanghai) Co., Ltd.**  
19/F, 1319 Yan'an West Road  
Shanghai 200050, China

Phone: +86 21 2216 0600  
Telefax: +86 21 6226 4500

**Caterpillar Marine Asia Pacific Pte Ltd**  
No. 5 Tukang  
Innovation Grove  
Singapore 618304  
Republic of Singapore

Phone: +65 68287 600  
Telefax: +65 68287 625

For more information, please visit our website  
[www.cat.com/marine](http://www.cat.com/marine)