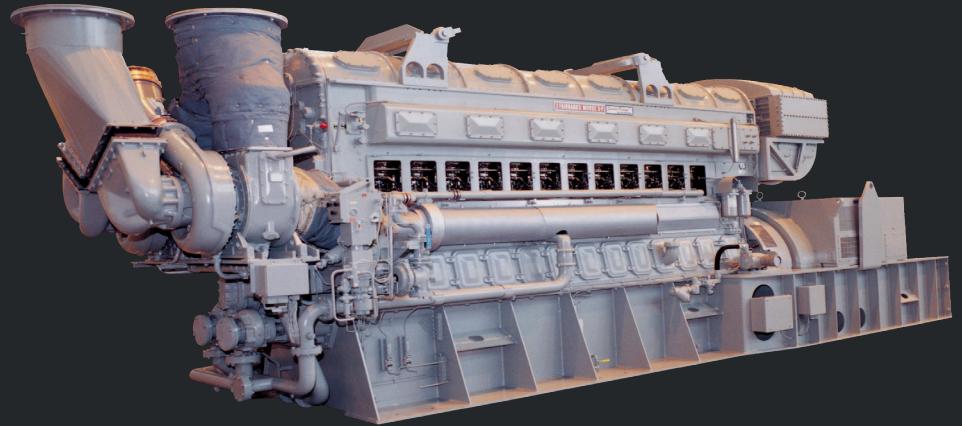




FAIRBANKS MORSE

# FM 38 D 8-1/8

**POWER RANGE**  
**1,566 – 3,628 kWb**



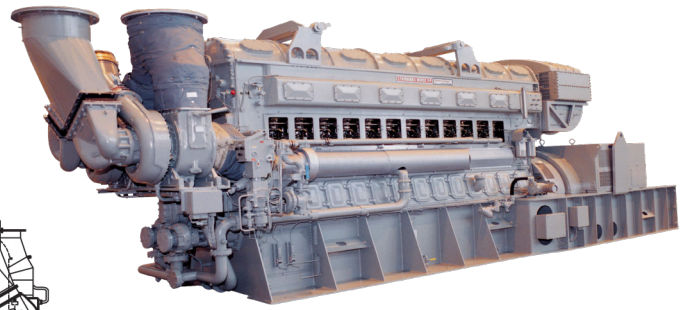
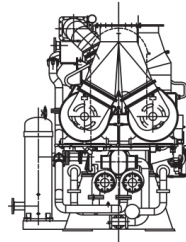
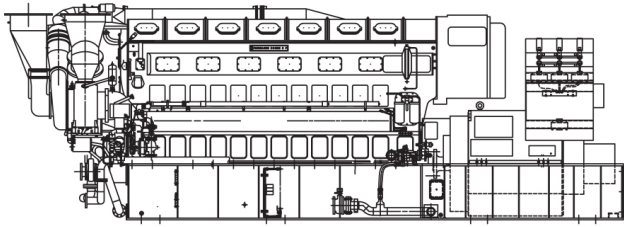
## High Efficiency and Low-Emissions

The FM 38D 8-1/8 engine has been designed and developed for a wide array of electrical power generation and heavy industrial applications. This high efficiency, low-emission engine combines time-tested design features with modern advances, including dual-fuel technology suited for low-cost power production.

APPLICATIONS	INSTALLATIONS	KEY ADVANTAGES
<ul style="list-style-type: none"> <li>Power Generation</li> <li>Emergency Nuclear Reactor Cooling</li> <li>Compression</li> <li>Pumping</li> <li>Emergency Power</li> </ul>	<ul style="list-style-type: none"> <li>Nuclear Power Plants</li> <li>Water Management Facilities</li> <li>Natural Gas Compressors</li> <li>Pump Drives</li> <li>Hospitals</li> <li>Municipalities</li> <li>Industrial Power Generation</li> </ul>	<ul style="list-style-type: none"> <li>1% Pilot Fuel, 99% Gas</li> <li>Designed &amp; developed for a wide array of electrical power generation and heavy industrial applications</li> <li>40+ year service life</li> <li>Shock-qualified cylinder block with excellent maintenance access</li> <li>40% thermal efficiency - simple cycle</li> <li>Automatic seamless switch from gas to diesel if gas supply is interrupted</li> <li>Base load (110% overload 2/24 hrs)</li> <li>Longer bearing life due to conservative operating speed</li> </ul>

## SPECIFICATIONS

Cylinder Configuration	6L, 9L, 12L	Displacement/Cylinder-L (cu in)	17.0 (1,037)
Cylinder Bore - mm (in)	206 (8.1)	Mean Piston Speed - m/s (ft/min)	7.6 – 8.5 (25.0 – 27.8)
Piston Stroke - mm (in)	254 (10.0)	BMEP – bar (psi)	9.2 – 10.8 (134 – 157)
Cycle	2 Stroke		
Displacement/Cylinder - L (cu in)			17.0 (1,037)
Mean Piston Speed - m/s (ft/s)			7.6 (25.0) 900 rpm   8.5 (27.8) 1,000 rpm

**FM 38 D 8 1/8****POWER RANGE**  
**1,566 – 3,628 kWb****POWER RATINGS**

CYLINDERS	ASPIRATION	900 rpm 60 Hz & 1,000 rpm 50 Hz kWb
6L	Turbo-Blower	1,506
9L	Turbocharged	1,580
	Turbo-Blower	2,260
12L	Turbocharged	2,370
	Turbo-Blower	3,013
	Turbocharged	3,165

**DIMENSIONS**

CYLINDERS	A (length) mm	B (width) mm	C (height) mm	DRY WEIGHT TONS (Metric)
6L	6,262	2,471	3,307	25
9L	8,186	2,407	3,239	33
12L	9,304	2,662	3,239	38

**FAIRBANKS MORSE**

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