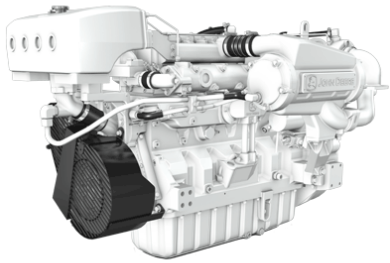


# PowerTech

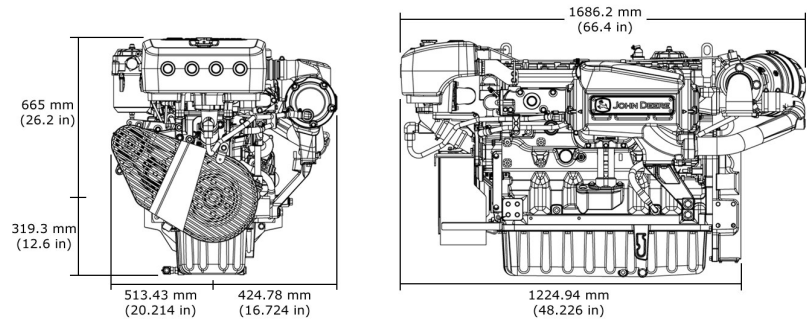
## 6090AFM75 Diesel Engine

Propulsion Engine Specifications



6090AFM75 shown

### Dimensions



### Certifications

- IMO MARPOL Annex VI
- IWT (2004/26/EC)
- US EPA Marine Tier 2 Compliant

### General engine data

Model	6090AFM75	Length - mm (in)	1686.2 (66.4)
Number of cylinders	6	Width - mm (in)	938.2 (36.9)
Displacement - L (cu in)	9.0 (549)	Height, Centerline to Top-- mm. (in)	665 (26.2)
Bore and Stroke-- mm (in)	118 x 127 (4.65 x 5.00)	Height, Centerline to Bottom-- mm. (in)	319.3 (12.6)
Compression Ratio	16.0 : 1	Weight, dry-- kg (lb)	(0)
Engine Type	In-line, 4-Cycle	Maximum installed angle	Front Up – degrees Front Down – degrees
Aspiration	Turbocharged and air-to-coolant aftercooled		

### Features and benefits

#### Watercooled Turbocharger and Exhaust Manifold

- Cooler and quieter environment for vessel and crew
- Reduced external connections eliminates hoses and fittings that can leak or break

#### Directed Top-liner Cooling

- Reduces upper liner temperature by as much as 100 degrees Fahrenheit (54 degrees Celsius)
- Durable and reliable power cylinder components

#### Replaceable Wet-type Cylinder Liners

- Hardened and precision machined for long life

#### Gear Auxiliary Drive

- Optional auxiliary drive for wash-down pumps, hydraulic oil pumps, and air compressors

#### Front or Side Service

- Oil and fuel filter combinations
- Application and service flexibility to provide installation convenience plus fast and easy maintenance

#### Cooling System

- High-capacity heat exchanger designed for reliable operation in adverse conditions
- Available as keel cooled

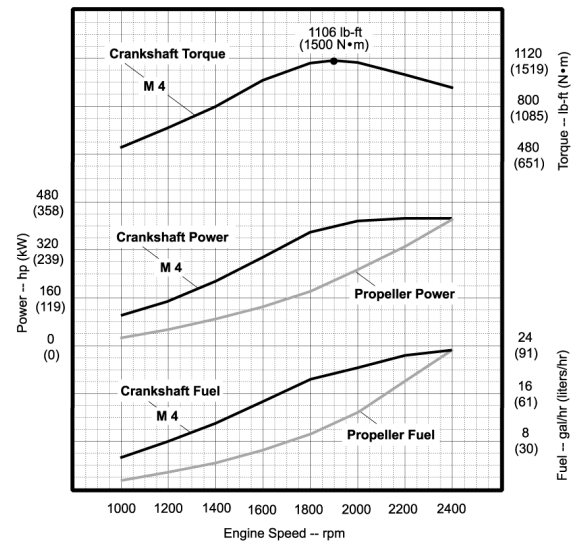
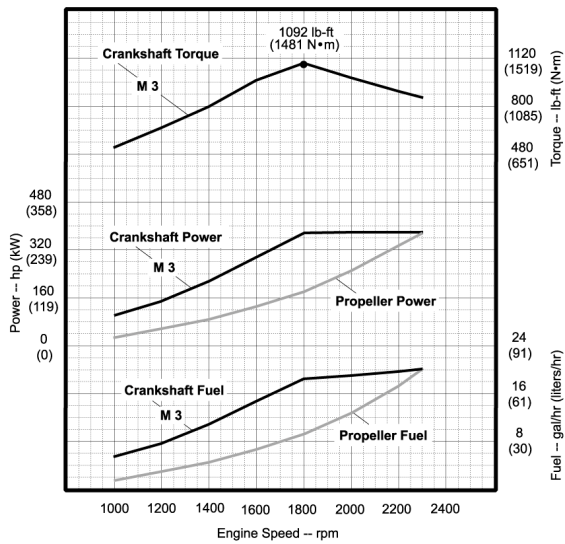
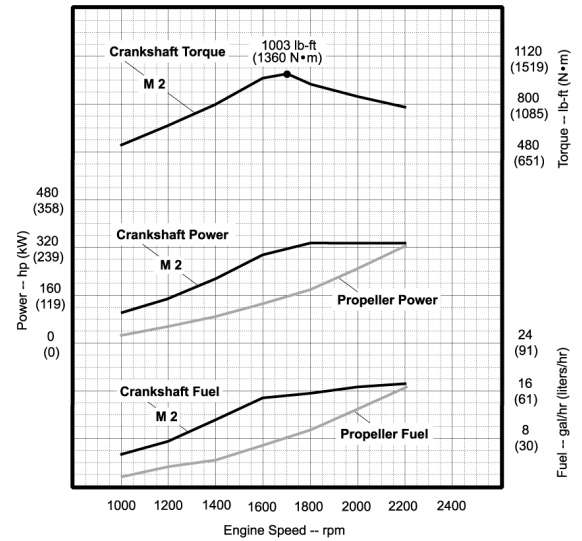
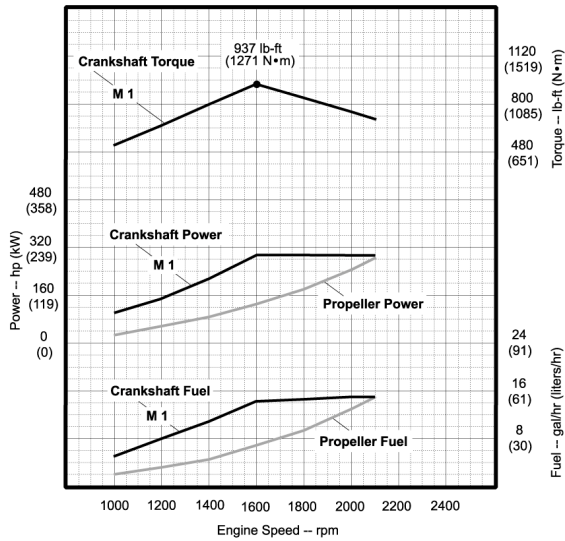
#### High Torque and Low Rated RPM

- Excellent vessel control and maneuvering
- Lower rated rpm limits vibration and noise for better crew comfort

#### Fuel System

- Electronically controlled high pressure common rail fuel system provides precise fuel delivery with variable timing resulting in excellent fuel economy and performance
- Self diagnostics and protection

# Performance curve



Performance data	M4	M3	M2	M1
Rated Power - kW (hp)	317 (425)	280 (375)	242 (325)	213 (285)
Rated Speed - rpm	2400	2300	2200	2100
Low Idle Speed - rpm	650	650	650	650
Peak Torque - Nm (ft-lb)	1500 (1106)	1481 (1092)	1360 (1003)	1271 (937)
Peak Torque Speed - rpm	1900	1800	1700	1600
Fuel Consumption - L/h (gal/hr)	90.7 (24.0)	79.6 (21.0)	67.1 (17.7)	57.8 (15.3)

M rating	M4	M3	M2	M1
Typical load factor	40 %	50 %	65 %	> 65 %
Typical annual usage (hr)	800	2000	3000	> 3000
Typical full-power operation (hr)	1 of each 12	4 of each 12	16 of each 24	24 Uninterrupted

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*Preliminary Information*  
All values at rated speed and power with standard options unless otherwise noted.  
Specifications and design subject to change without notice.