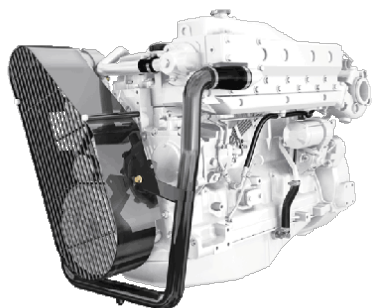


# PowerTech

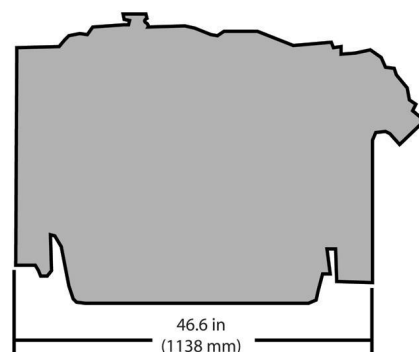
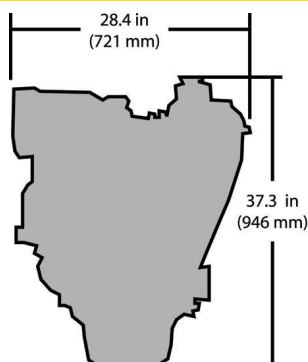
## 6068SFM Diesel Engine

Propulsion Engine Specifications



6068SFM shown

### Dimensions



### Certifications

IMO MARPOL Annex VI  
US EPA Marine Tier 2 Compliant  
IWT (2004/26/EC)  
RCD (2003/44/EC)  
American Bureau of Shipping  
China Classification Society  
Det Norske Veritas  
Lloyd's Register

### General engine data

Model	6068SFM50	Length - mm (in)	1183 (46.6)
Number of cylinders	6	Width - mm (in)	721 (28.4)
Displacement - L (cu in)	6.8 (415)	Height, Centerline to Top-- mm. (in)	619 (24.4)
Bore and Stroke-- mm (in)	106 x 127 (4.17 x 5.00)	Height, Centerline to Bottom-- mm. (in)	327 (12.9)
Compression Ratio	17.0:1	Weight, dry-- kg (lb)	776 (1711)
Engine Type	In-line, 4- Cycle	Maximum installed angle	Front Up – degrees 9 Front Down – degrees 0
Aspiration	Air-to-sea water		

### Features and benefits

#### Watercooled Exhaust Manifold

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

#### Replaceable wet-type cylinder liners

- Excellent heat dissipation
- Hardened and precision machined for long life
- Rebuild to original specifications

#### Corrosion Resistant Components

- Provides engine protection from the effects of seawater

#### Either-side Service

- Oil fill and dipstick combinations
- Remote oil filter for easier service access
- Application and service flexibility to provide installation convenience plus fast and easy maintenance

#### Heat Exchanger

- High-capacity heat exchanger designed for reliable operation in adverse conditions
- Integrated expansion tank, heat exchanger and exhaust manifold reduce chances of leaks
- Seawater aftercooler for increased power and efficiency

#### High Torque and Low Rated RPM

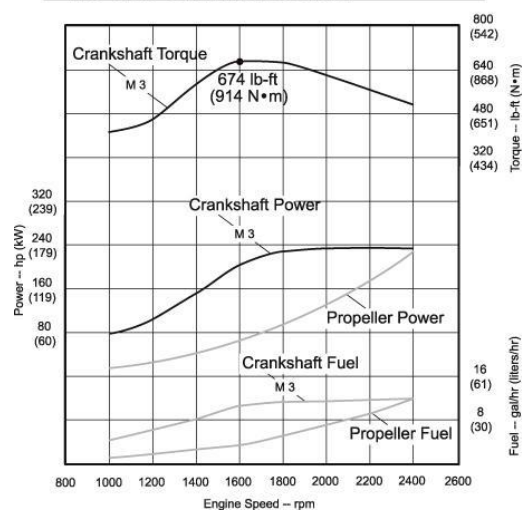
- Enables the engine to turn larger propellers at lower speed for best efficiency
- Excellent vessel control and maneuvering
- Lower rated rpm limits vibration and noise for better crew comfort

#### Fuel System

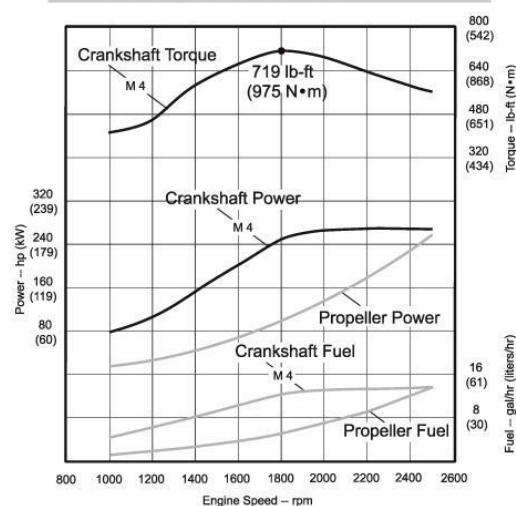
- Electronically controlled rotary fuel injection pump with variable timing resulting in excellent fuel economy and excellent performance
- Self diagnostics and protection
- Electronic instrument panel with plain text messaging

## Performance curve

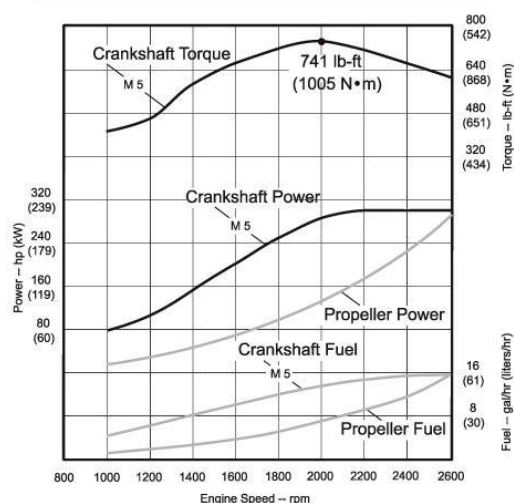
**M3 PERFORMANCE CURVE**



**M4 PERFORMANCE CURVE**



**M5 PERFORMANCE CURVE**



Performance data	M5	M4	M3
Rated Power - kW (hp)	224 (300)	199 (267)	176 (236)
Rated Speed - rpm	2600	2500	2400
Low Idle Speed - rpm	650	650	650
Peak Torque - Nm (ft-lb)	1005 (741)	975 (719)	914 (674)
Peak Torque Speed - rpm	2000	1800	1600
Fuel Consumption - L/h (gal/hr)	59.1 (15.6)	51.6 (13.6)	45.5 (12.0)

M rating	M5	M4	M3
Typical load factor	35 %	40 %	50 %
Typical annual usage (hr)	300	800	2000
Typical full-power operation (hr)	0.5 of each 8	1 of each 12	4 of each 12

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