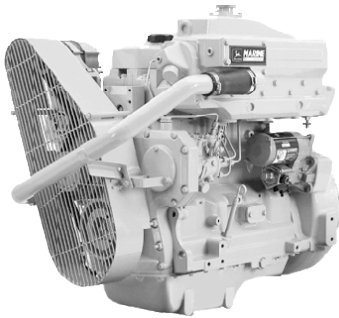


PowerTech

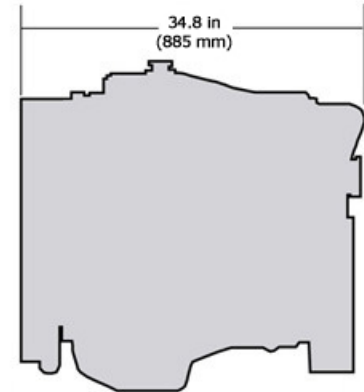
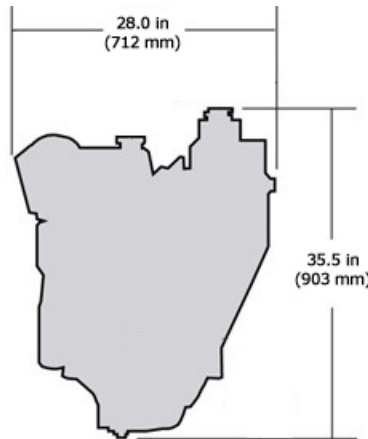
4045DFM50 Diesel Engine

Propulsion Engine Specifications



4045DFM50 shown

Dimensions



Certifications

Non-Emissions Certified

General data

Model	4045DFM50	Length - mm (in)	885 (34.8)
Number of cylinders	4	Width - mm (in)	712 (28.0)
Displacement - L (cu in)	4.5 (275)	Height-- mm (in)	903 (35.6)
Bore and Stroke-- mm (in)	106 x 127 (4.17 x 5.00)	Weight, dry-- kg (lb)	437 (963)
Compression Ratio	17.6:1	Maximum Installed Angle	Front Up – degrees 12 Front Down – degrees 0
Engine Type	In-line, 4- Cycle		
Aspiration	Naturally aspirated		

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

Internal Balancers

- Low noise and vibration for crew comfort

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 or Keel Cooled

- High-capacity heat exchanger designed for reliable operation in adverse conditions
- Integrated expansion tank, heat exchanger and exhaust manifold reduce chances of leaks
- Keel cooler or heat exchanger options provide application flexibility

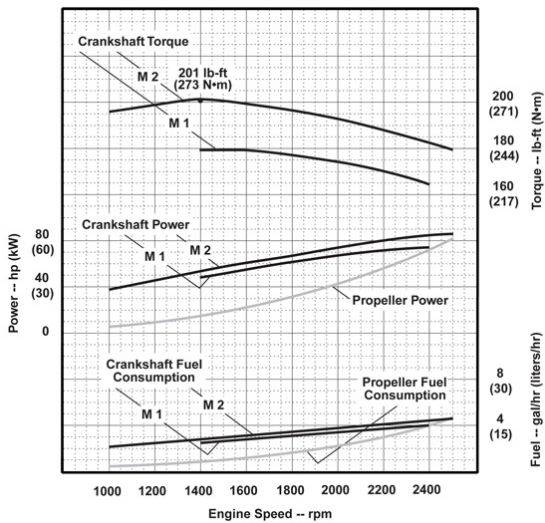
High torque and low rated rpm

- 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

- Proven and reliable Mechanical Governor

Performance curve



Performance data

M2

Rated Power - kW (hp)	63 (84)
Rated Speed - rpm	2500
Low Idle Speed - rpm	700
Peak Torque - Nm (ft-lb)	273 (201)
Peak Torque Speed - rpm	1400
Fuel Consumption - L/h (gal/hr)	16.6 (4.4)

M rating

M2

Typical load factor	65 %
Typical annual usage (hr)	3000
Typical full-power operation (hr)	16 of each 24

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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.*