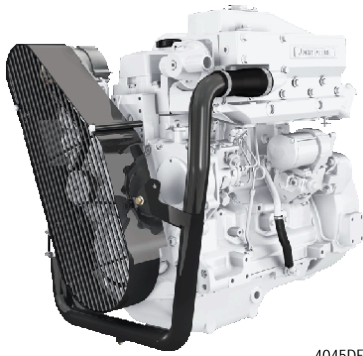


# PowerTech™

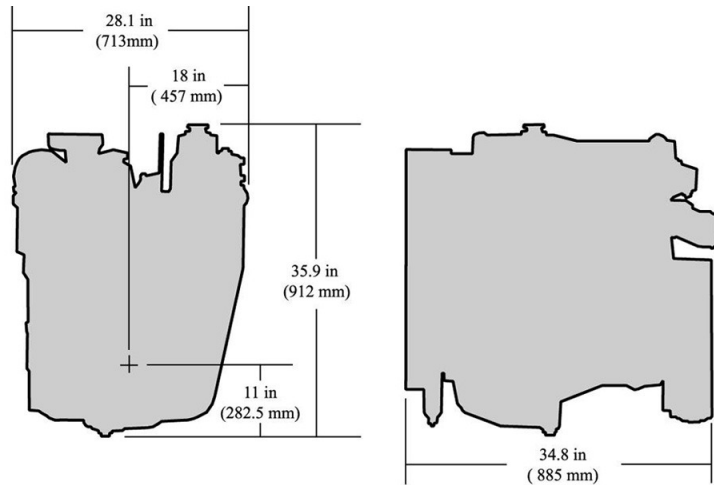
## 4045DFM70 Diesel Engine

Propulsion Engine Specifications



4045DFM70 shown

### Dimensions



### Certifications

- IMO Exempt
- EPA Commercial Marine (40 CFG Part 94)

### General data

Model	4045DFM70	Length - mm (in)	885 (34.8)
Number of cylinders	4	Width - mm (in)	713 (28.1)
Displacement - L (cu in)	4.5 (275)	Height-- mm (in)	912 (35.9)
Bore and Stroke-- mm (in)	107 x 127 (4.21 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

#### 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 options provide application flexibility

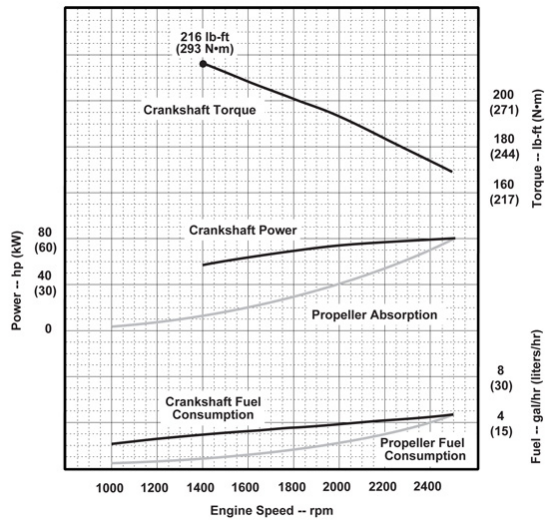
#### High Torque and Low Rated RPM

- 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)	60 (80)
Rated Speed - rpm	2500
Low Idle Speed - rpm	750
Peak Torque - Nm (ft-lb)	296 (218)
Peak Torque Speed - rpm	1400
Fuel Consumption - L/h (gal/hr)	17.5 (4.6)

### M rating

### M2

Typical load factor	< =65%
Typical annual usage (hr)	3,000-5,000 hr
Typical full-power operation (hr)	16 of each 24 hr

**John Deere Power Systems**  
 3801 W. Ridgeway Ave.  
 PO Box 5100  
 Waterloo, IA 50704-5100  
 Phone: 1-800-533-6446  
 Fax: 319.292.5075

**John Deere Power Systems**  
**Usine de Saran**  
 La Foulonnerie - B.P. 11.13  
 45401 Fleury les Aubrais Cedex  
 France  
 Phone: 33.2.38.82.61.19  
 Fax: 33.2.38.82.60.00

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