

PowerTech™

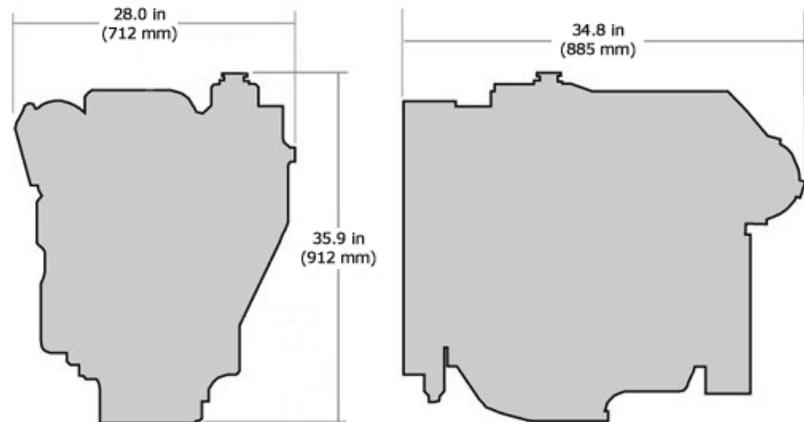
4045TFM75 Diesel Engine

Propulsion Engine Specifications



4045TFM75 shown

Dimensions



Certifications

EPA Commercial Marine
IMO Exempt

General data

Model	4045TFM75	Length - mm (in)	885 (34.8)
Number of cylinders	4	Width - mm (in)	712 (28.0)
Displacement - L (cu in)	4.5 (275)	Height, Centerline to Top-- mm. (in)	620 (24.4)
Bore and Stroke-- mm (in)	107 x 127 (4.21 x 5.00)	Height, Centerline to Bottom-- mm. (in)	292 (11.5)
Compression Ratio	17.6:1	Weight, dry-- kg (lb)	462 (1019)
Engine Type	In-line, 4- Cycle	Maximum Installed Angle	Front Up – degrees 12 Front Down – degrees 0
Aspiration	Turbocharged		

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

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

Either-side Service

- Oil fill and dipstick combinations
- Remote oil filter for easier service access

Heat Exchanger or Keel Cooled

- Integrated expansion tank, heat exchanger and exhaust manifold reduce chances of leaks
- Keel cooler options provide application flexibility

High Torque and Low Rated RPM

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

Corrosion Resistant Components

- Provides engine protection from the effects of seawater

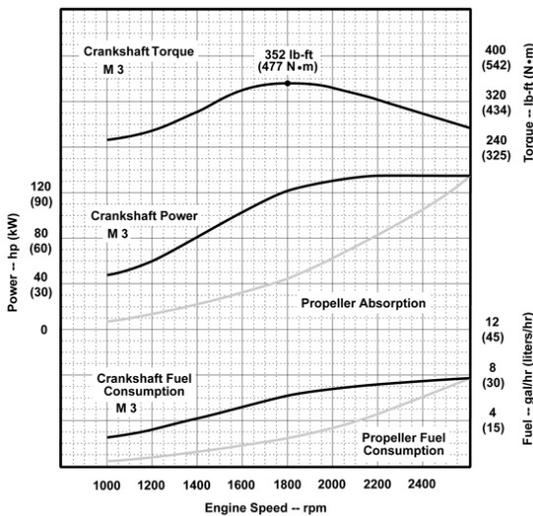
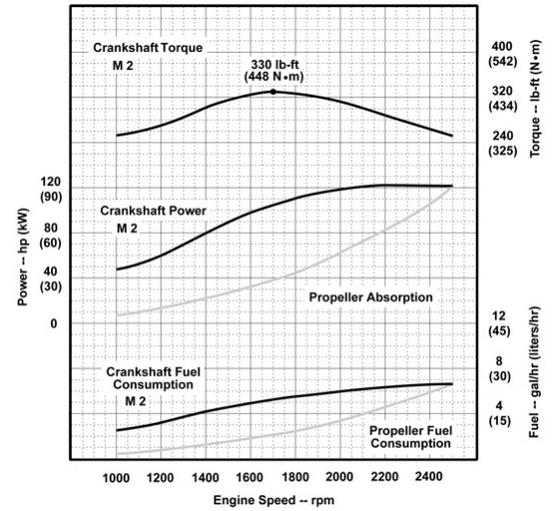
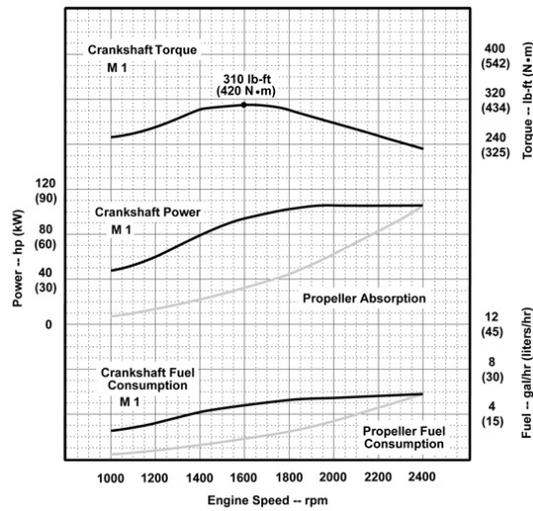
Internal Balancers

- Low noise and vibration for 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

Performance curve



Performance data	M3	M2	M1
Rated Power - kW (hp)	101 (135)	90 (121)	80 (107)
Rated Speed - rpm	2600	2500	2400
Low Idle Speed - rpm	650	650	650
Peak Torque - Nm (ft-lb)	477 (352)	448 (330)	420 (310)
Peak Torque Speed - rpm	1800	1700	1600
Fuel Consumption - L/h (gal/hr)	29.4 (7.8)	25.4 (6.7)	22.1 (5.8)

M rating	M3	M2	M1
Typical load factor	< =50%	< =65%	> 65%
Typical annual usage (hr)	2,000-4,000 hr	3,000-5,000 hr	Unrestricted
Typical full-power operation (hr)	4 of each 12 hr	16 of each 24 hr	Uninterrupted

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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.