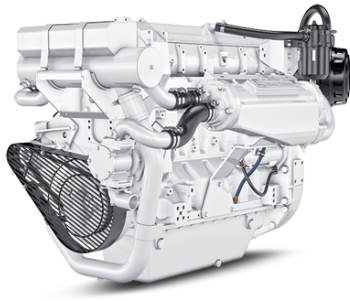


PowerTech™

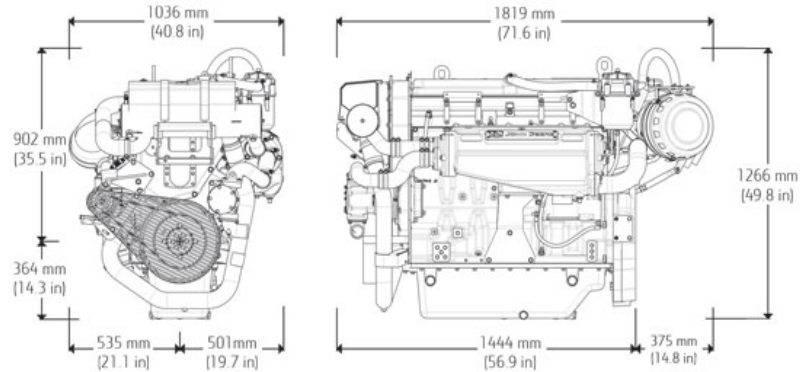
6135SFM85 Diesel Engine

Propulsion Engine Specifications



6135SFM85 shown

Dimensions



Certifications

EPA Commercial Marine Tier 3
IMO MARPOL Annex VI Compliant
NRMM (97/68/EC) as amended

General data

| | | | |
|---------------------------|-------------------------|---|---|
| Model | 6135SFM85 | Length - mm (in) | 1819 (71.6) |
| Number of cylinders | 6 | Width - mm (in) | 1036 (40.8) |
| Displacement - L (cu in) | 13.5 (824) | Height, Centerline to Top-- mm. (in) | 902 (35.5) |
| Bore and Stroke-- mm (in) | 132 x 165 (5.20 x 6.50) | Height, Centerline to Bottom-- mm. (in) | 364 (14.3) |
| Compression Ratio | 16.0 : 1 | Weight, dry-- kg (lb) | 1426 (3144) |
| Engine Type | In-line, 4- Cycle | Maximum Installed Angle | Front Up – degrees 12 Front Down – degrees 0 |
| Aspiration | Air-to-sea water | | |

Features and benefits

High Torque and Low Rated RPM

- High torque provides excellent vessel control and maneuverability. Lower rated propulsion RPM reduces vibration and noise for improved crew comfort.

4-Valve Cylinder Head

- Excellent airflow through 4-valve cylinder head delivers greater low-speed torque and better transient response time.

Electronic Unit Injectors (EUI)

- The EUI fuel system provides higher injection pressures. It also controls fuel injection timing and provides precise control for start, duration, and end of injection.

Water-cooled Exhaust Manifold

- Integrated components eliminate external hoses and fittings that can leak or break. Wet exhaust manifold creates a cooler and quieter environment for passengers and crew.

Turbocharged with Air-to-Seawater Aftercooling

- Cooler turbocharger operation enables higher ratings and efficiencies for applications that require high power or speed.

Replaceable Cylinder Liners

- Replaceable wet-type cylinder liners are precision-machined and hardened for long life. Allows engine to be rebuilt to original specifications.

Electronic Engine Control Unit (ECU)

- Advanced fault code diagnostics and customizable engine protections ensure reliability and uptime. Provides highly customizable features and trim to integrate your vessel.

Heat Exchanger

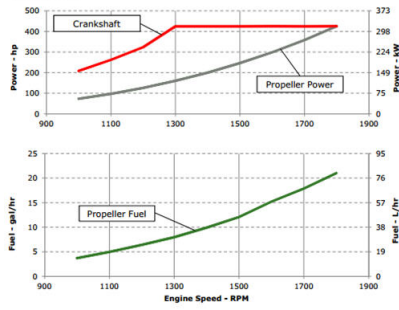
- High-capacity heat exchanger provides reliable operation in adverse conditions.

Multiple Service Options

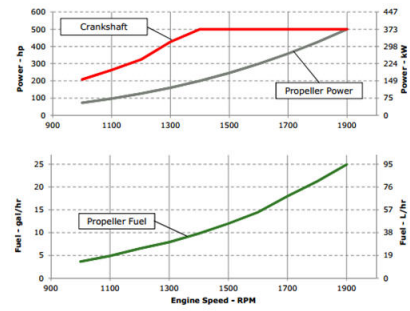
- Either-side oil fill/dipstick combinations and remote oil and fuel filter options are available for easier service access.

Performance curve

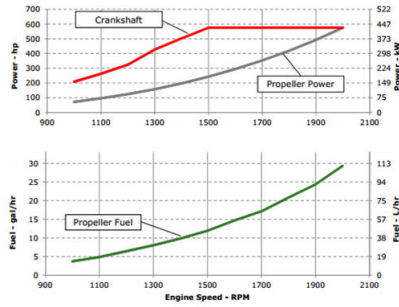
M1 Rating



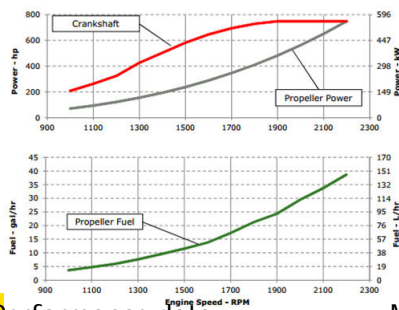
M2 Rating



M3 Rating



M5 Rating



| Performance data | M5 | M4 | M3 | M2 | M1 |
|---------------------------------|--------------|--------------|--------------|-------------|-------------|
| Rated Power - kW (hp) | 559 (750) | 485 (650) | 429 (575) | 373 (500) | 317 (425) |
| Rated Speed - rpm | 2200 | 2100 | 2000 | 1900 | 1800 |
| Low Idle Speed - rpm | 600 | 600 | 600 | 600 | 600 |
| Peak Torque - Nm (ft-lb) | 2913 (2149) | 2877 (2122) | 2731 (2014) | 2544 (1876) | 2328 (1717) |
| Peak Torque Speed - rpm | 1700 | 1600 | 1500 | 1400 | 1300 |
| Fuel Consumption - L/h (gal/hr) | 145.9 (38.5) | 124.7 (32.9) | 110.9 (29.3) | 94.4 (24.9) | 79.5 (21.0) |

| M rating | M5 | M4 | M3 | M2 | M1 |
|-----------------------------------|------------------|-----------------|-----------------|------------------|---------------|
| Typical load factor | < =35% | < =40% | < =50% | < =65% | > 65% |
| Typical annual usage (hr) | 300-1,000 hr | 1,000-3,000 hr | 2,000-4,000 hr | 3,000-5,000 hr | Unrestricted |
| Typical full-power operation (hr) | 0.5 of each 8 hr | 1 of each 12 hr | 4 of each 16 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.