

# PowerTech™ 4024T Diesel Engine Specifications

## PERFORMANCE DATA

### Rated Power

Intermittent 66 hp (49.3 kW) @ 2800 rpm  
 Continuous 56 hp (41.8 kW) @ 2800 rpm

### Peak Torque

Intermittent 163 lb-ft (221 N.m) @ 1600 rpm

### Fuel Economy

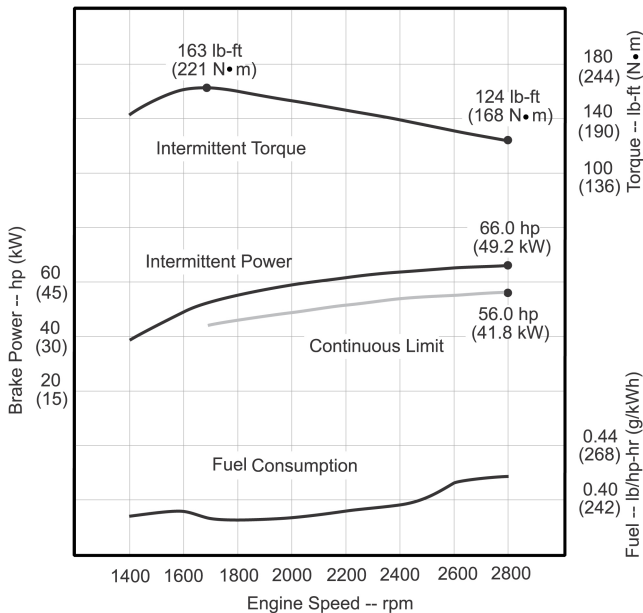
BSFC 0.435 lb/hp-hr (265 g/kWh) @ 2800 rpm

RATED BHP is the power rating for variable speed and load applications where full power is required intermittently. CONTINUOUS BHP is the power rating for applications operating under a constant load and speed for long periods of time. HEAVY DUTY - see application ratings/definitions, engine performance curves. POWER OUTPUT is within + or - 5% at standard SAE J 1995 and ISO 3046.

TIER 2 EMISSION CERTIFICATIONS: CARB, EPA, and EU



## PERFORMANCE CURVE



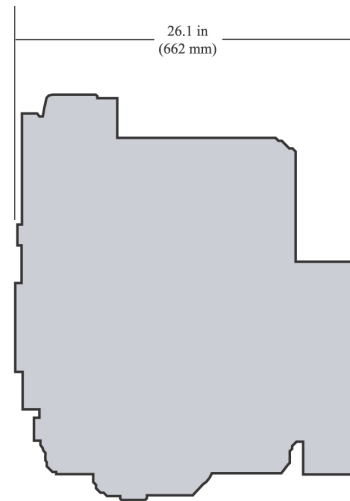
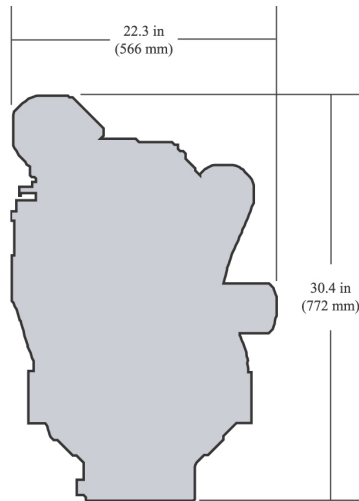
Photographs may show non-standard equipment

PowerTech<sup>®</sup>  
**4024T Diesel Engine**  
 Specifications

**GENERAL DATA**

Model	4024TF270	Aspiration	Turbocharged
Number of Cylinders	4	Length--in. (mm)	26.1 (662)
Displacement--L (cu.in)	149 (2.44)	Width--in. (mm)	22.3 (566)
Bore and Stroke--in. (mm)	3.4 x 4.1 (86 x 104)	Height--in. (mm)	30.4 (772)
Compression Ratio	18.2: 1	Weight, dry--lb (kg)	554 (251)
Engine Type	In-line, 4-Cycle		

**DIMENSIONS**



**FEATURES AND BENEFITS**

**Optimized Gear Train**

- Front gear train of two high-contact-ratio gears mounted to the block
- Impressive low noise characteristics

**Poly-vee Front Drive**

- Automatic belt-tensioner and 6 rib poly-vee drive belt minimizes maintenance and increases belt durability

**Independent Fan Drive**

- Fan drive operates independently of water pump and is available in two heights to adapt to enclosures
- Fan drive ratios above and below 1:1 are available to match specific application requirements

**Hydraulic Valve Lifters**

- Automatic adjustment eliminates the need for valve-lash adjustment, contributes to lower noise levels in the valve train
- Lower operating costs

**Multiple-Function Component Integration**

- Timing gear cover includes water pump housing, oil pump housing, governor housing and sensors
- Rocker arm cover includes intake manifold
- Integration results in higher quality, easier service, and reliability

**Independent Water Pump**

- Durable cast-iron water pump resists corrosion and pitting for increased wear life

**Smooth Engine Operation**

- Optional balancer shafts located inside the engine block with two bearings per shaft
- Decreased vibration reduces operator fatigue and need for instrument and control isolation

**Starting Aids**

- Quick acting glow plugs are standard equipment and provide exceptional cold weather starting at temperatures as low as -15 degrees Fahrenheit
- Optional block heater is available

**Innovative Fuel System**

- Contributes to cost effectiveness and clean design
- Mechanically governed unit pumps mounted inside the block eliminate external high-pressure lines, minimize leak paths and reduce noise level

*Specifications and design subject to change without notice*



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