

# PowerTech™ 4024T Diesel Engine Specifications

## PERFORMANCE DATA

### Rated Power

Intermittent 49 hp (36.7 kW) @ 2800 rpm  
 Continuous 41 hp (30.8 kW) @ 2800 rpm

### Peak Torque

Intermittent 129 lb-ft (175 N.m) @ 1500 rpm

### Fuel Economy

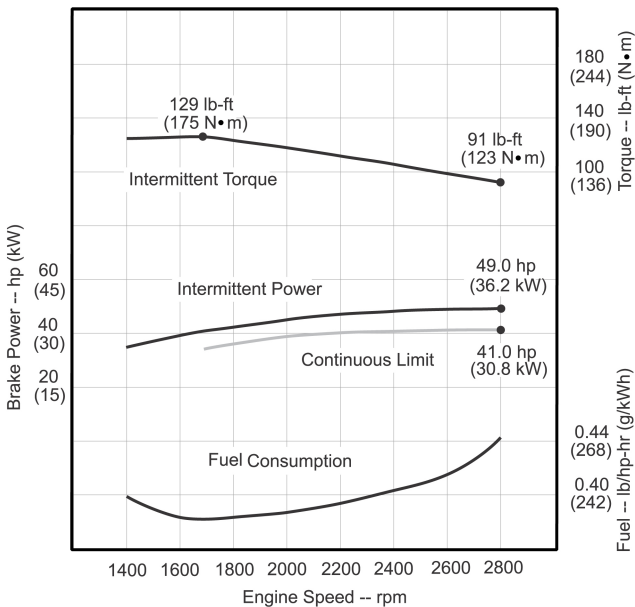
BSFC 0.45 lb/hp-hr (274 g/kWh) @ 2800 rpm

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



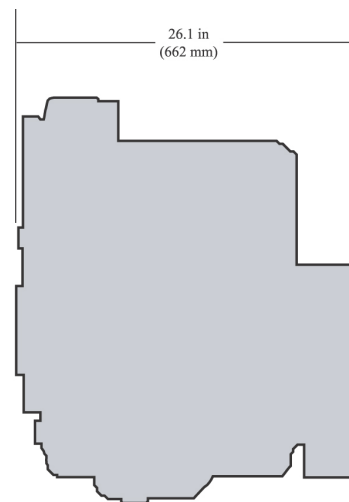
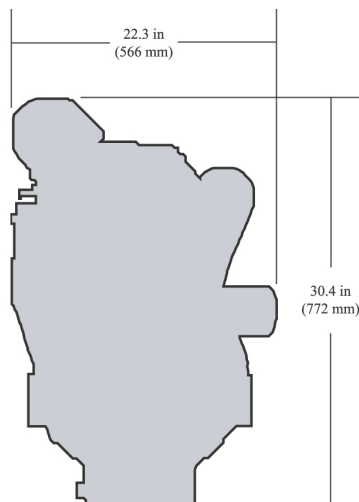
Photographs may show non-standard equipment

# 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*



John Deere Power Systems  
3801 W. Ridgeway Ave.  
PO Box 5100  
Waterloo, IA 50704-5100  
Phone (800) 533-6446  
Fax (319) 292-5075

John Deere Power Systems  
Usine de Saran  
B.P. 11013  
F-45401 Fleury les Aubrais Cedex  
France  
Phone (33) 2 38 82 61 19  
Fax (33) 2 38 82 60 00