

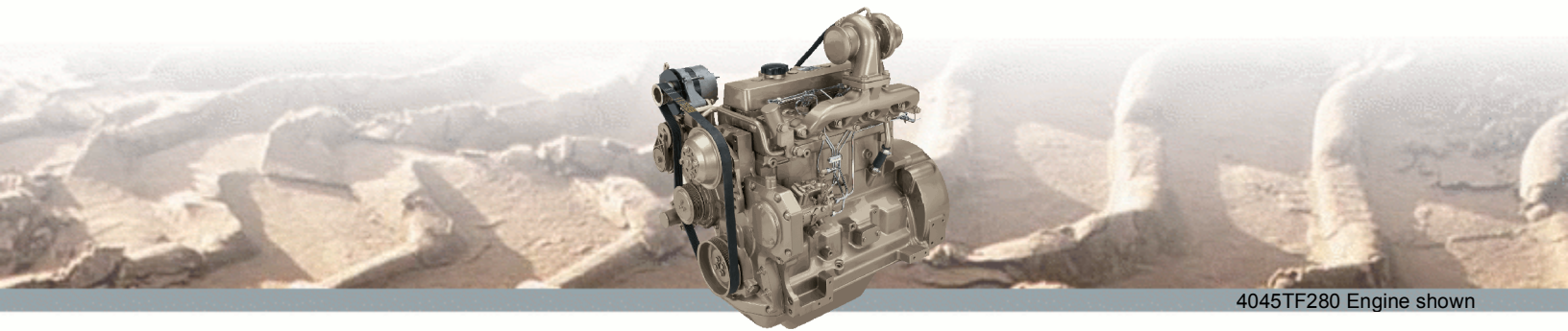


# JOHN DEERE

## PowerTech™ M

# 4045T Diesel Engine

### Specifications



4045TF280 Engine shown

### General Data

Model .....	4045TF280	Aspiration .....	Turbocharged
Number of cylinders .....	4	Length-- mm (in) .....	860 (33.9)
Displacement-- L (cu in) .....	4.5 (275)	Width-- mm (in) .....	612 (24.1)
Bore and Stroke-- mm (in) .....	106 x 127 (4.17 x 5.00)	Height-- mm (in) .....	994 (39.1)
Compression Ratio .....	19.0:1	Weight, dry-- kg (lb) .....	396 (873)
Engine Type .....	In-line, 4-Cycle		

Rated BHP is the power rating for variable speed and load applications where full power is required intermittently.

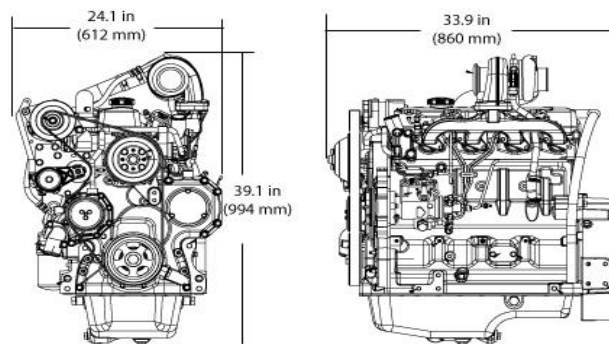
Continuous BHP is the power rating for applications operating under a constant load and speed for long periods of time.

Heavy duty - see application ratings/definitions, engine performance curves. Power output is within + or - 5% at standard SAE J 1995 and ISO 3046.

### Certifications

- CARB
- EPA Tier 3
- EU Stage III A

### Dimensions



### Performance data

#### Rated Speed

Intermittent	60 kW (80 hp) @ 2400 rpm
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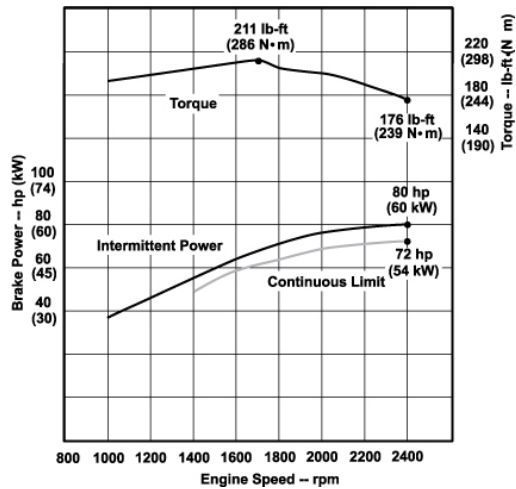
#### Peak power

Power bulge %	60 kW (80 hp) @ 2400 rpm
	NA @ 2400 rpm

#### Peak torque

Torque Rise %	286 N-m ( 211 ft-lb) @ 1700 rpm
	20% @ 1700 rpm

**Performance curve**



**Features and Benefits**

**2-Valve Cylinder Head**

- Cross flow head design that provides excellent breathing from a lower cost two-valve cylinder head

**Mechanical Rotary Fuel Pump**

- The timing and fuel injection pressures are optimized to maximize performance and fuel economy at a given rated speed

**Fixed Geometry Turbocharger**

- Fixed geometry turbochargers are precisely matched to the power level and application

**Turbocharged**

- In turbocharged engines, the air is pre-compressed. Due to the higher pressure, more air is supplied into the combustion chamber allowing a corresponding increase in fuel injection which results in greater engine output.

**Compact Size**

- Mounting points are the same as Tier 2/Stage II engine models

**Engine Performance**

- New power bulge feature
- New higher-peak torque speed
- Lower-rated speeds available for reduced noise and improved fuel economy

**Additional Features**

- Self-adjusting poly-vee fan drive
- Forged-steel connecting rods
- Replaceable wet-type cylinder liners
- Either-side service
- 500-hour oil change
- Optional final fuel filter with water separator and water-in-fuel sensor
- Optional balancer shafts



John Deere Power Systems  
 3801 W. Ridgeway Ave.  
 PO Box 5100  
 Waterloo, IA 50704-5100  
 Phone: 800.553.6446  
 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