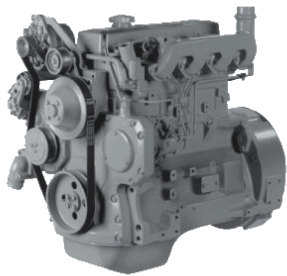


PowerTech

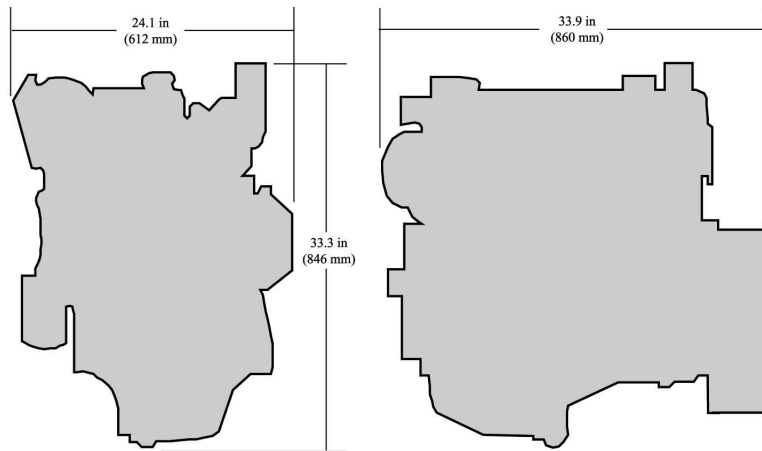
4045D Diesel Engine

Industrial Engine Specifications



4045D shown

Dimensions



Certifications

CARB
EPA Tier 1
EU Stage I

General data

Model	4045DF150
Number of cylinders	4
Displacement - L (cu in)	4.5 (275)
Bore and Stroke-- mm (in)	106 x 127 (4.17 x 5.00)
Compression Ratio	17.6:1
Engine Type	In-line, 4-Cycle

Aspiration	Naturally aspirated
Length - mm (in)	860 (33.9)
Width - mm (in)	612 (24.1)
Height-- mm (in)	846 (33.3)
Weight, dry-- kg (lb)	387 (853)

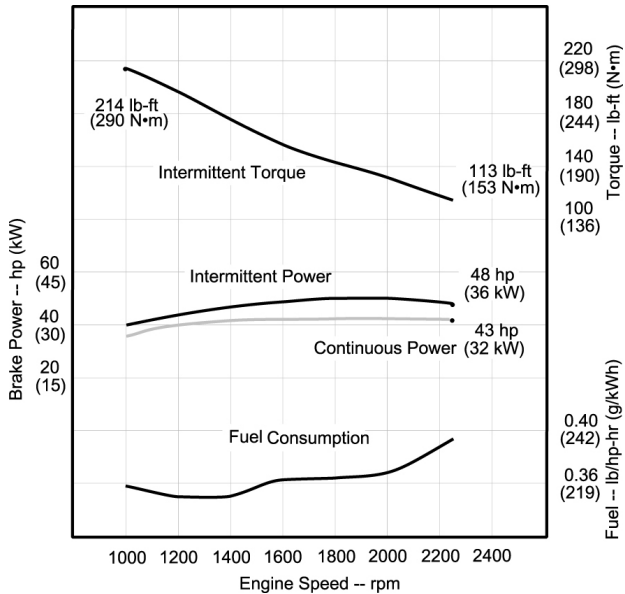
Intermittent BHP is the power rating for variable speed and load applications where full power is required intermittently.

Heavy duty - see application ratings/definitions, engine performance curves.

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

Power output is within + or - 5% at standard SAE J 1995 and ISO 3046.

Performance curve



Performance data

Intermittent rated speed	36 kW (48 hp) @ 2250 rpm
Peak power	37 kW (50 hp) @ 2000 rpm
Peak torque	290 N.m (214 ft-lb) @ 1000 rpm
Torque rise %	90% @ 1000 rpm

Features and benefits

Dynamically Balanced Crankshaft

- Crankshafts are formed from nodular iron

Forged-Steel Connecting Rods

- Unique 45-degree design permits use of larger crankshaft connecting-rod bearings for increased durability

Self-adjusting Poly-vee Fan Drive

- Self-adjusting, eight-groove, poly-vee fan drive provides multiple fan drive ratios and fan heights that can be matched to specific application requirements
- Poly-vee design provides more than twice the drive capacity of comparable vee-belts

Replaceable Wet-Type Cylinder Liners

- Provides excellent heat dissipation
- Precision machined for long life

Either-Side Service

- Engine installation and maintenance simplified and convenient by providing dipstick and oil filter options on both sides of the engine

Standard Gear Auxiliary Drive

- Standard gear auxiliary drive produces up to 50 hp (37 kW) for gear-driven accessories

Mounting Points

- Standard front and side mounting points provide easy installation and application flexibility

Optional Engine-Balancer Shafts

- Provides smooth engine operation

John Deere Power Systems
3801 W. Ridgeway Ave.
PO Box 5100
Waterloo, IA 50704-5100
Phone: 1-800-533-6446
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

All values at rated speed and power with standard options unless otherwise noted. Specifications and design subject to change without notice.