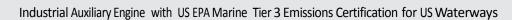
PowerTech™ E 4045TF285 Diesel Engine





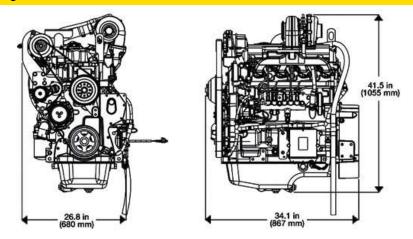


4045T shown

Certifications

EPA Marine Tier 3

Engine dimensions



Dimensions may vary according to options selected. Contact your distributor for more information.

General data			
Model	4045TF285	Length – mm (in) to rear of block	867 (34.1)
Number of cylinders	4	Width – mm (in)	680 (26.8)
Displacement – L(cu in)	4.5 (275)	Height – mm (in)	1055 (41.5)
Bore and Stroke – mm (in)	106 x 127 (4.17 x 5.0)	Weight, dry-kg (lb)	491 (1082)
Engine Type	In-line, 4-cycle		
Aspiration	Turbocharged		

See your John Deere marine dealer or engine distributor for complete specifications on our full line of auxiliary drive engines.

Performance Da	ata
Application Ratings	Variable Speed
Rated Power	74 kW (99 hp) @ 2200 rpm
Peak Power	74 kW (99 hp) @ 2200 rpm
Power Bulge	0% @ NA rpm
Peak Torque	370 Nm (273 ft-lb) @ 1600 rpm
Torque Rise	15% @ 1600 rpm

Features and benefits

2-Valve Cylinder Head

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

High-Pressure Common-Rail (HPCR) and Engine Control Unit (ECU)

 The HPCR fuel system provides variable common-rail pressure, multiple injections, and higher injection pressures, up to 1600 bar (23,000 psi). It also controls fuel injection timing and provides precise control for the start, duration, and end of the injection

Fixrd Geometry Turbocharger (VGT)

 Fixed geometry turbochargers are sized for a specific power range and optimized to provide excellent performance across the entire torque curve. They are also designed to maximize fuel economy between the engine's rated speed and peak torque.

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.

Multiple Injection Strategy

 The new HPCR fuel system and engine control unit (ECU) allow for multiple fuel injections. The number of fuel injections, based on speed and load, help contribute to lower combustion temperatures, which reduce the formation of NOx and particulates. The multiple injection strategy also provides an added benefit of noise reduction

John Deere Electronic Engine Controls

PowerTech E engines offer electronically controlled fuel systems
with improved cold-start performance, precise engine speed
control, torque curve shaping and more. Because these systems
have less need for redundant sensors, add-on electronic
governors, and shutdown devices — they result in a lower total
installed cost.

Compact Size

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

Additional Features

- Self-adjusting poly-vee fan drive
- Forged-s teel connecting rods
- Replaceable wet-type cylinder liners
- Either-side service
- 500-hour oil change
- Standard gear auxiliary drive

Fax: 319.292.5075