

# PowerTech™ M

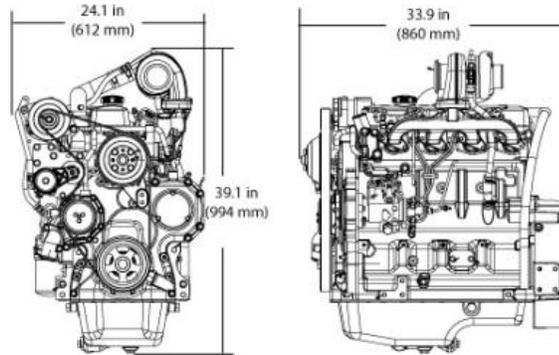
## 4045TF280 Diesel Engine

Industrial Engine Specifications



4045TF280 shown

### Engine dimensions



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

### Certifications

CARB  
EPA Tier 3  
EU Stage III A

### General data

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

### Performance data range

Application ratings	Intermittent
Rated power/Rated speed	56-63 kW (75-84 hp) @2400rpm
Peak power	56-63 kW (75-84 hp) @2400rpm
Power bulge	NA @ NA rpm
Peak torque	271-302 N.m (200-223ft-lb) @1700rpm
Torque rise	NA

The Industrial Intermittent engine power rating is for applications that operate at varying loads and speeds, and do not fit the Industrial Heavy-Duty rating information.

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

## 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 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

### Compact Size

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

### 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