

PowerTech™ M

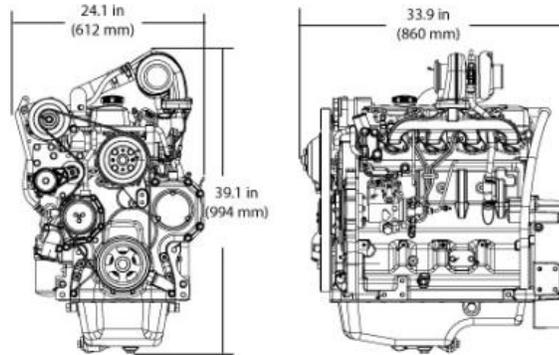
4045TF290 Diesel Engine

Industrial Engine Specifications



4045TF290 shown

Engine dimensions



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

Certifications

EPA Interim Tier 4

General data

| | | | |
|---------------------------|-------------------------|-----------------------|------------|
| Model | 4045TF290 | 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 | Continuous |
| Rated power/Rated speed | 55 kW (74 hp) @2400rpm |
| Peak power | 56 kW (75 hp) @2200rpm |
| Power bulge | NA @ NA rpm |
| Peak torque | 265 N.m (195ft-lb) @1700rpm |
| Torque rise | NA |

The Industrial Continuous engine power rating is for applications that operate with constant load and speed, except for short periods during startup or shutdown.

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 3/Stage III A engine models

Engine Performance

- Meets emissions regulations without the addition of cooled EGR or an exhaust filter
- Jet fuel capable in 24V configuration

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 balancer shafts