

# DETROIT DIESEL



## Series 40E™ Engines On-Highway Applications



### General Specifications

Basic Engine	4 cycle / Turbocharged and Air-to-Air Charge Cooled	
Number of Cylinders	6 In-line	
Bore x Stroke in (mm)	<b>7.6LTA</b> 4.59 in x 4.68 in (117 mm x 119 mm)	<b>8.7LTA</b> 4.59 in x 5.35 in (117 mm x 136 mm)
Compression Ratio	16.4:1	17.2:1
Displacement	466 cu in (7.6L)	530 cu in (8.7L)
Fuel Control	Fully integrated electronic controls	
Fuel System	HEUI fuel injection	
Dimensions: (approx.)		
Length in (mm)	44.69 (1135)	44.69 (1135)
Width in (mm)	27.72 (704)	27.72 (704)
Height in (mm)	39.61 (1006)	39.61 (1006)
Weight (dry), lbs (kg)	1367 (630)	1399 (645)

### Detroit Diesel Offers A Complete Line Of Engines For On-Highway Bus/Coach and Truck Markets.

#### Rated Power Output and Peak Torque

##### 7.6LTA SERIES 40E

- 175 HP (131 kW) @ 2300 RPM<sup>1</sup>  
460 lb-ft (624 N•m) @ 1400 RPM
- 195 HP (145 kW) @ 2300 RPM<sup>1</sup>  
520 lb-ft (705 N•m) @ 1400 RPM
- 195 HP (145 kW) @ 2300 RPM<sup>2</sup>  
560 lb-ft (759 N•m) @ 1400 RPM
- 210 HP (157 kW) @ 2300 RPM<sup>3</sup>  
520 lb-ft (705 N•m) @ 1400 RPM\*
- 215 HP (160 kW) @ 2300 RPM<sup>1</sup>  
560 lb-ft (759 N•m) @ 1400 RPM
- 215 HP (160 kW) @ 2300 RPM<sup>2</sup>  
620 lb-ft (841 N•m) @ 1400 RPM
- 230 HP (172 kW) @ 2300 RPM<sup>1</sup>  
620 lb-ft (841 N•m) @ 1400 RPM
- 230 HP (172 kW) @ 2300 RPM<sup>2</sup>  
660 lb-ft (895 N•m) @ 1400 RPM
- 250 HP (187 kW) @ 2300 RPM<sup>1</sup>  
660 lb-ft (895 N•m) @ 1400 RPM\*
- 250 HP (187 kW) @ 2300 RPM<sup>2</sup>  
800 lb-ft (1085 N•m) @ 1400 RPM

##### 8.7LTA SERIES 40E

- 275 HP (205 kW) @ 2000 RPM<sup>4</sup>  
800 lb-ft (1085 N•m) @ 1200 RPM
- 275 HP (205 kW) @ 2000 RPM<sup>4</sup>  
860 lb-ft (1166 N•m) @ 1200 RPM
- 280 HP (209 kW) @ 2000 RPM<sup>4</sup>  
950 lb-ft (1288 N•m) @ 1200 RPM
- 300 HP (224 kW) @ 2000 RPM<sup>4</sup>  
860 lb-ft (1166 N•m) @ 1200 RPM
- 300 HP (224 kW) @ 2000 RPM<sup>4</sup>  
950 lb-ft (1288 N•m) @ 1200 RPM
- 300 HP (224 kW) @ 2000 RPM<sup>4</sup>  
950 lb-ft (1288 N•m) @ 1200 RPM
- 300 HP (224 kW) @ 2000 RPM<sup>5</sup>  
950 lb-ft (1288 N•m) @ 1300 RPM\*
- 300 HP (224 kW) @ 2000 RPM<sup>4</sup>  
1050 lb-ft (1424 N•m) @ 1200 RPM
- 330 HP (246 kW) @ 2000 RPM<sup>4</sup>  
950 lb-ft (1288 N•m) @ 1200 RPM\*\*
- 330 HP (246 kW) @ 2000 RPM<sup>6</sup>  
1150 lb-ft (1559 N•m) @ 1300 RPM\*\*

\*EURO II On-Highway and not available in the United States

\*\* Limited to a 30% load factor

<sup>1</sup> Governed at 2600 rpm

<sup>2</sup> Governed at 2400 rpm

<sup>3</sup> Governed at 2580 rpm

<sup>4</sup> Governed at 2200 rpm

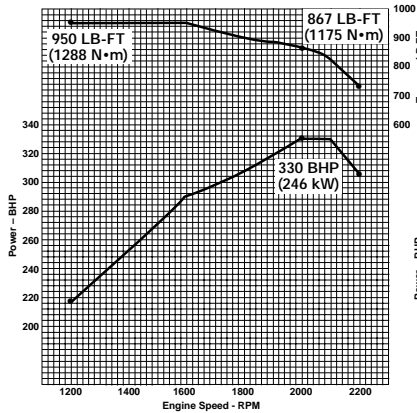
<sup>5</sup> Governed at 2280 rpm

<sup>6</sup> Governed at 2100 rpm

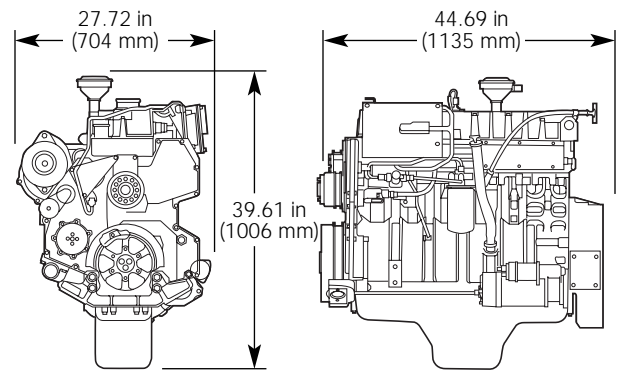
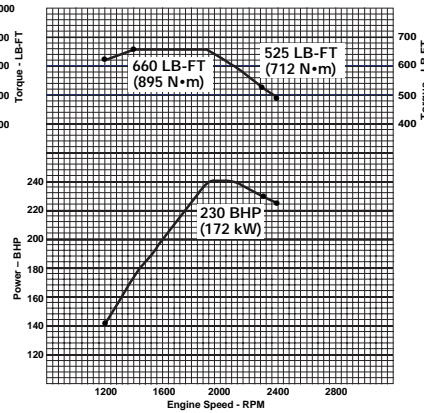


## Series 40E

### 8.7 LTA 330 BHP



### 7.6 LTA 230 BHP



All dimensions are approximate. For complete dimensional information, refer to installation drawing provided by your authorized Detroit Diesel Corporation representative.

## Rating Explanation

Consult your authorized Detroit Diesel Corporation representative for the rating that will apply to your application.

Power output guaranteed within 5% at SAE J1995 conditions.

## Standard Equipment

- Belt tensioner — Polyvee serpentine belt
- Coolant conditioner
- Cylinder liners — Wet replaceable
- Electronic control system — Engine mounted
- Fan drive — 15.1" height
- Flywheel housing — SAE #2
- Flywheel — SAE #2, 14" manual
- Fuel filter
- Hydraulically Actuated Electronically Controlled Unit Injectors (HEUI)
- Lube oil filter — Spin on full flow
- Oil cooler — Engine mounted
- Oil pan — Rear sump
- Rocker cover — Top inlet
- Turbocharger — Wastegate GT type

## Optional Equipment

- Air compressor — 13.2 CFM Bendix TuFlo 550  
16.0 CFM Bendix TuFlo 750
- Alternator — Delco 21 SI 12 or 24V
- Alternator bracket — Various
- Fan drive — Various
- Flywheel and housing — Various
- Front mounts — Various
- Fuel filter — Various
- Oil pan, filter and dipstick — Various
- PTO adapter — SAE "B", 11 tooth
- Power steering pump — Various
- Pulleys — Accessory drive C/S
- Rocker cover — Side inlet
- Starter motor — Delco 37 MT (12 or 24V)  
Delco 42 MT
- Turbocharger — Various
- Water inlet — Various



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**DETROIT DIESEL**  
CORPORATION



13400 Outer Drive, West, Detroit, Michigan 48239-4001  
Telephone 313-592-5000  
www.detroitdiesel.com

