



# EVERY POWER.

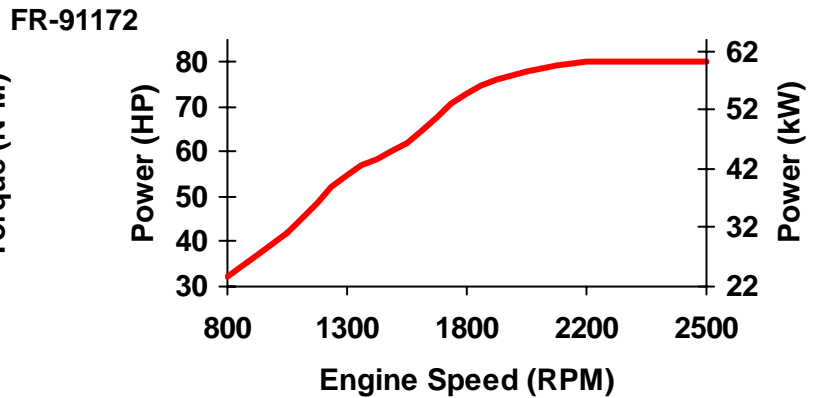
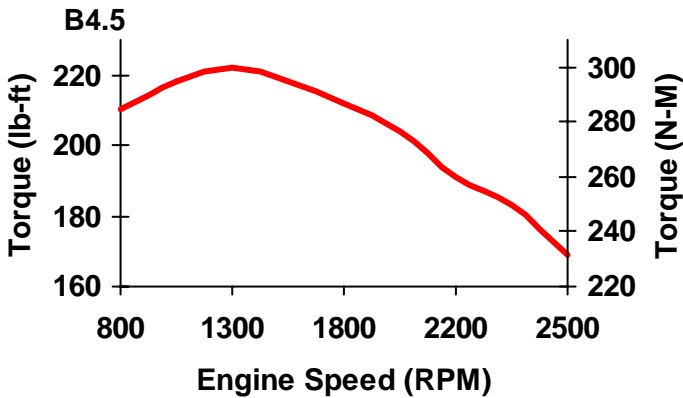
## B4.5



### B4.5 Ratings

ENGINE MODEL	ADVERTISED HORSEPOWER	PEAK TORQUE	ASPIRATION
B4.5	80 BHP @ 2500 RPM	222 lb-ft @ 1300 RPM	Naturally Aspirated
B4.5	80 BHP @ 2300 RPM	217 lb-ft @ 1300 RPM	Naturally Aspirated

Emission Certification: U.S. EPA Tier 2, CARB tier II, EU Stage II



### Specifications

Advertised Horsepower		80 BHP	60 kW	
Peak Torque		222 lb-ft	301 NM	
Number of Cylinders		4		
Displacement		275 cu in	4.5 Liters	
Bore and Stroke		4.02 in. x 5.42 in.	102 mm x 138 mm	
Aspiration		Naturally Aspirated		
Oil System Capacity		10 U.S. Quarts	9.4 Liters	
Power Unit Weight (Dry)	Open	1208 lbs	548 kg	
	Enclosed	1332 lbs	604 kg	
Total Cooling System Capacity		23.8 U.S. Quarts	22.53 Liters	
Power Unit Size: Open	Length	47.40 in.	1204 mm	
		Width	29.25 in.	743 mm
		Height	69.40 in.	1763 mm
	Enclosed	Length	47.44 in.	1205 mm
		Width	31.54 in.	801 mm
		Height	58.13 in.	1477 mm

Curves shown above represent gross engine performance capabilities obtained and corrected in accordance with SAE J1995 conditions of 29.61 in Hg (100 kPa) barometric pressure [300ft (91m) altitude] 77 deg F (25 deg C) inlet air temperature, and 0.30 in Hg (1kPa) water vapor pressure with No. 2 diesel fuel.

All data is based on the engine operating with fuel system, water pump, and 9.84 in H<sub>2</sub>O (2.449 kPa) inlet air restriction with 3.94 in (100 mm) inner diameter, and with 1.97 in Hg (7 kPa) exhaust restriction with 2.95 in (75 mm) inner diameter; not included are alternator, fan, optional equipment and driven components.

The engine may be operated without changing the fuel setting up to 5,000 ft (1,524 m) altitude and 100 deg F (38 deg C). For sustained operation at high altitudes, the fuel rate of the engine should be adjusted to limit performance by 4% per 1000 ft. (300 m) above 5,000 ft (1,524 m) altitude.

# KEY FEATURES

# B4.5

**Parent Bore Cylinder Block** Structurally advanced design handles high pressures with greater durability.

**Direct Injection** for increased fuel efficiency, low heat rejection, and quicker starts.

**Quiet operation** makes the B Series engine suitable in many environments.

**Air Cleaner** Heavy duty industrial air cleaners with aluminized tubing. Safety elements included within the air cleaners and restriction indicators available.

**Baserail Mounting** Made of heavy duty formed C channel. All metal components are powder coated. Passes a 1000 hours salt water test.

**Cooling System** Heavy duty radiator assembly with jacket water cooling. Sucker or blower fan arrangements available. Painted water tubes. radiator shroud, fan and belt guarding included. Radiator is isolated.

**Instrument Panel** Operates on 12 or 24 volt using mechanical and electro-mechanical gauges. Shutdown protection provided through a Murphy shutdown protection relay. Isolated inner panel within an outer protective lockable box. Available on right or left hand side of unit. Nema panels also available.

**Clutches** Over center clutches available depending on application. Provided primarily by Twin Disc.

**Enclosure** Fully enclosed power unit available. Enclosure housings uses 12-gauge steel. All components are powder-coated, which increases chip resistance. Passes a 1,000-hour salt spray tests. Components are bolted, not welded, so they resist mounting distortion and are easier to service. Removable side doors for easy engine serviceability.

**Exhaust** Heavy duty industrial muffler provided.

**Cummins Industrial Warranty** Coverage for two years or 2000 hours of operation, whichever occurs first, from the date of delivery of the power unit to the first user, or from the date the unit is first leased, rented or loaned, or when the power unit has been operated for 50 hours, whichever comes first. If the 2000 hour limit is exceeded during the first year, coverage continues until the end of the first year.

## CUMMINS POWER PRODUCTS

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Available Options	Standard	Optional
Air Cleaner 25 g/cfm w / Safety Element - Open Rear Mount	■	
Air Cleaner 25 g/cfm w / Safety Element - Enclosed Top Mount	■	
Tw in Disc Clutch		■
Decal Option / parts Manual	■	
Engine Harness Option	■	
Throttle Control	■	
Full Enclosure	■	
Electrical Wiring 12 Volt	■	
Electrical Wiring 24 Volt		■
Heater Starting Aid (grid)		■
Instrument panel mount - Open	■	
Instrument Panel - Sw itch Gauges; Includes Murphy shutdown n, electro-mechanical oil pressure and w ater temp., voltmeter, and tachometer / hourmeter gauges, key sw itch, isolated panel.	■	
Instrument Panel - Hourmeter is the only gauge in panel.		■
Instrument Panel - Nema Enclosure		■
12-Foot Harness		■
24-Foot Harness		■
Baserail Engine Sub Base Non-Isolated	■	
Baserail Engine Sub Base Isolated		■
Baserail Engine Sub Base - Special Isolated Side Mount		■
Packing / Shipping Skid	■	
Cooling System - Sucker; Includes Radiator, fan, shroud, positive deaeration tank, guarding, tubes.	■	
Cooling System - Blow er; Includes radiator, fan, shroud, positive deaeration tank, guarding, tubes.		■
Restriction Indicator - Air Cleaner		■
Stone Guard - Grill Type	■	
Stone Guard - Serpentine Type		■
Exhaust System	■	