



1300 Series EDi

1306-E87TA

Agricultural, Industrial and Construction Power

186.5 kW/250.0 bhp

High performance productive power

Hydraulically actuated Electronically controlled Unit Injectors – high pressure injection for true through-the-range performance.

Quick-acting, low inertia turbocharger providing forced induction through helical ports for optimum air/fuel mix and complete combustion.

Constant electronic engine monitoring and management enabling precise fuel metering and injection timing for reliable low temperature starting and superb economy with performance.

Quiet, clean power

A rigid structure minimises noise transmission and helically cut gears provide quiet power transfer to auxiliaries.

Forced induction and electronic injection control combine to reduce combustion noise to a minimum.

Electronically optimised fuel air mixing ensures complete combustion, exhaust virtually free of visible smoke and an emissions capability to match current and future off-highway legislation.

Easy maintenance

Electronic diagnostics to keep the 1300 Series EDi at its productive best.

Single spin-on filters for fuel, oil and coolant with 450 hour oil and oil filter change period.

Reliable power

Incorporating some of the most technologically advanced premium features now available for diesel engines.

Cylinder head coolant flow directed to each valve bridge and injector sleeve.

High efficiency engine mounted lub oil cooler in a protected circuit.

Electronic safety shutdown protects the engine, while event and fault warning codes protect operations.

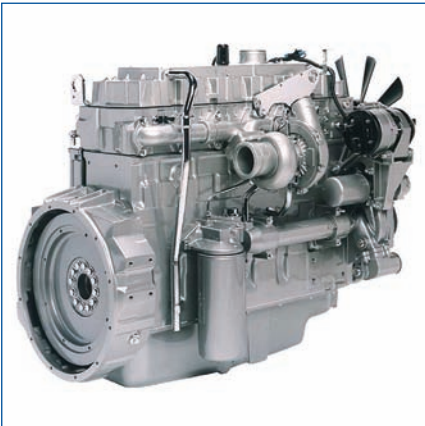
Durable power

Oil cooled pistons with an armoured top ring groove for long life performance.

Keystone top and second piston ring with a long life, plasma faced top ring.

Replaceable valve guides and seats plus positive rotational valves, saving wear.

Roller cam followers protecting tappets and cam lobes against wear.



The 1300 EDi Series range is a family of 7.6 litre and 8.7 litre turbocharged diesel engines designed to power a wide range of industrial equipment.

All engines in the family feature 'full authority' electronic engine management coupled with Hydraulically actuated Electronic controlled Unit Injectors to provide quiet, clean highly productive power, with outstanding economy. This range also has the proven reliability of premium design features such as roller cam followers and wet liners, building in low cost of ownership.

Performance Data	Gross Intermittent	Speed (rev/min)	Performance Data	Gross Intermittent	Speed (rev/min)
Power Output (kW)	246	2000	Peak Torque (Nm)	1424	1300
Power Output (bhp)	330	2000	Peak Torque (lbf ft)	1050	1300

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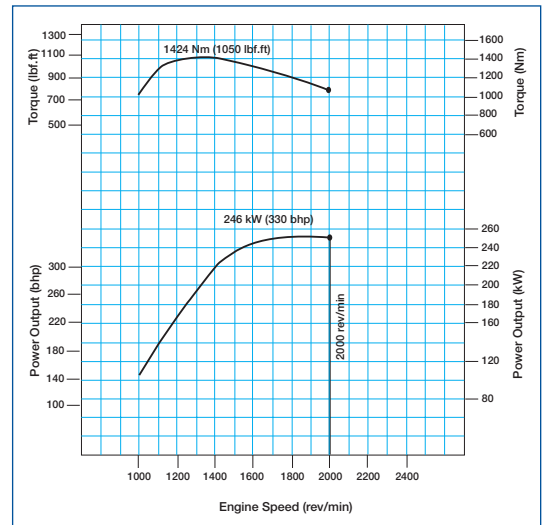
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Standard Equipment

- Automatic, polyvee belt tensioner
- Coolant filter/conditioner
- Crankshaft damper
- Engine mounted oil cooler
- Fan drive
- Flywheel housing
- Hydraulically actuated
- Electronically controlled unit injectors
- Engine mounted electronic control module (ECM)
- Induction manifold
- Lifting plates
- Sensor positions for ECM
- SAE 'B' flange for PTO
- Oil fill tube and dipstick
- Choice of sumps and fillers
- Starter motor 12 volt or 24 volt
- Turbocharger with alternative positions
- Spin-on full flow lub oil filter
- Spin-on full flow fuel filter with hand primer pump
- Side mounted turbocharger
- Water inlet connection
- Wet sump

Optional Equipment

Air cleaner	14 in
Air compressors	368 1/min or 453 1/min
Alternator	12 volt/60 amp or 24 volt/55 amp
Fan	Pusher or puller types 559 mm to 711 mm – 6 to 10 blades
Flywheel	To suit various clutches, torque converters and transmissions
Flywheel housing	SAE No 1, 2 or 3 with pad type mounts
Fuel filter	Alternative, remote assembly
Fuel pre-filter	Glass bowl type
Electrical	Interface harness, connectors, sensors



Lower power ratings may not be read from this curve. Other ratings are available – contact Perkins Engines Company Limited.

Basic Engine Data

Configuration	6 cylinder in-line
Aspiration	Turbocharged, air/air aftercooled
Combustion system	Direct injection
Bore and stroke	116.6 x 135.9 mm
Displacement	8.71 litres
Compression ratio	17.2:1 or 16.9:1
Rotation	Anti-clockwise, facing the flywheel
Cooling	Watercooled
Cooling system capacity	12.8 litres engine only
Lubricating system capacity	26.4 litres
Length	1135 mm
Width	704 mm
Height	1006 mm
Dry engine weight	671 kg

Overall dimensions and weight will depend on final specification.



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