

Perkins

1000 Series Agricultural/Industrial Power Units 1004-4 63.5 kW/85.5 bhp

A premium specification, naturally aspirated 4-cylinder diesel, ideal for handling equipment, compressors, fork lift trucks, agricultural tractors and general industrial applications.

Based on Perkins' 60 years' experience in the development and production of diesel engines, this quality product will give trouble free operation and high performance over a long engine life.

Reliable power

Perkins' high manufacturing standards are approved to ISO 9000. Maximum cooling efficiency is provided by the gear driven water pump and independent fan drive.

Leak free operation is ensured by Viton crankshaft seals and controlled swell joints, giving protection in the toughest conditions.

Durable power

A long, trouble free life is assured by the use of the highest quality components throughout the engine, from the deep skirted cylinder block, designed with the aid of computer technology, to the silicone carbide honed dry cylinder liners.

High performance, productive power

High useable power and torque with up to 20% torque back up, made possible by the Quadram direct injection combustion system with high specification fuel injection equipment.

High power take off capability (single or twin), with helically cut timing gears.

Economical power

Excellent fuel economy – a direct result of the unique Quadram combustion system.

Easy low cost maintenance

Service intervals of 400 hours for oil and filters.

Quick, easy maintenance is made possible by the convenient positioning of service points, for easy accessibility.

Improved parts availability and reduced inventory costs are achieved by the true family concept of the 1000 Series, which gives parts commonality across the engine range.

Quiet, clean power

Operator and environmentally friendly with low noise, rapid startability and low emissions, achieved with the Quadram combustion system, featuring premium quality controlled expansion pistons.

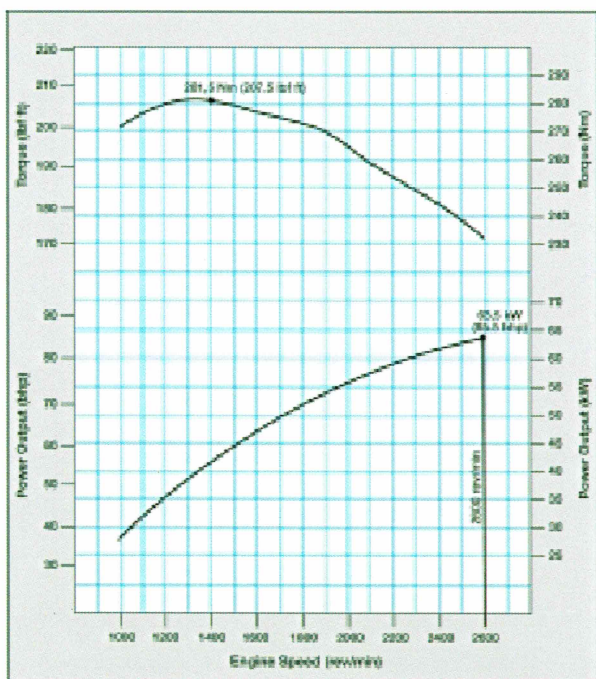
Performance Data	Gross Intermittent*	Speed rev/min	Net Intermittent	Speed rev/min
Power Output (kW)	63.5	2600	57	2600
Power Output (bhp)	85.5	2600	76.5	2600
Peak Torque (Nm)	281.5	1400	258	1400
Peak Torque (lbf ft)	207.5	1400	190	1400

Power output for a run-in engine after 60 hours.

*Rating Standard ISO (TR) 14396

1000 Series

1004-4



Note: Lower speed ratings may not be read from this curve.
Other ratings are available, please consult your Perkins representative.

Engine Specification

Cast iron engine block
Flywheel and flywheel housing
Rotary fuel injection pump
Fuel filter and prefilter
All-speed mechanical governor
Low inertia injectors
Inlet manifold
Cast iron exhaust manifold – centre outlet
Lub. oil sump
Spin on oil filter and oil cooler
12V/24V starter and alternator
Choice of cooling fans belt driven
Gear driven coolant pump
Lub. oil pressure switch
Cold start aid



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All information in this leaflet is substantially correct at the time of printing but may be changed subsequently by the Company

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Option Groups

A selection of optional items is available to enable the customer to make up a specification precisely matched to his needs. These include alternative ratings, inlet manifolds, exhaust outlets, a range of flywheels and flywheel housings to suit various clutches and transmissions and a selection of power take-offs.

General Data

Bore and stroke	100 mm x 127 mm (3.937 in x 5.00 in)
Number of cylinders	4 in-line
Cubic capacity	4.0 litres (243.0 cu.in.)
Cycle	4 stroke
Aspiration	Natural
Combustion system	Quadram direct injection
Compression ratio	16.5:1
Rotation	Anticlockwise viewed on flywheel
Cooling	Liquid
Length	658.3 mm (25.9 in)
Width	620.5 mm (24.4 in)
Height	779.8 mm (30.7 in)
Dry Weight	273 Kg (600 lb)

Overall dimensions and weight will depend on final specification

