



**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.

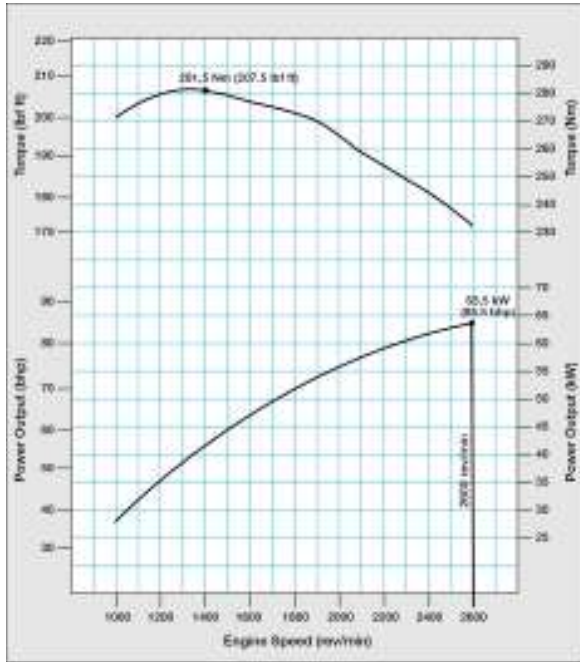
**Quiet, clean power**

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



## 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

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

Overall dimensions and weight will depend on final specification

