



1000 Series

Agricultural/Industrial Power Units

1004-4T

83 kW/111 bhp

A tough 4-cylinder turbocharged diesel for compressors, telescopic handlers, backhoe loaders, fork lift trucks, agricultural and construction equipment.

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 sophisticated 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 premium quality, 3-ring controlled expansion pistons.

High performance, productive power

Good power to weight with high torque and 22% torque back up, made possible by the Quadram direct injection combustion system matched to a high specification turbocharger.

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, giving parts commonality across the engine range.

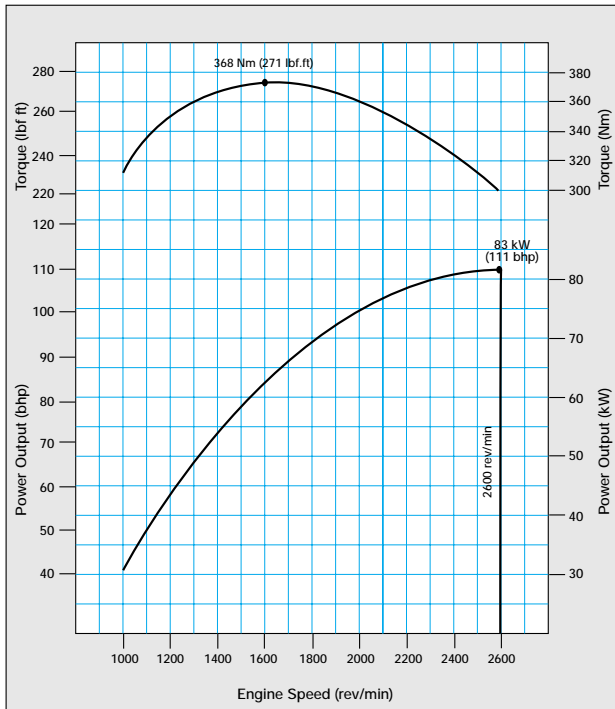
Quiet, clean power

Operator and environmentally friendly with low noise, rapid startability low emissions, achieved with the Quadram, and high specification fuel injection equipment. At 96 dBA the 1004-4T is probably the quietest engine in its class.

Performance Data	Gross Intermittent*	Speed rev/min	Net Intermittent	Speed rev/min
Power Output (kW)	83	2600	74.5	2600
Power Output (bhp)	111	2600	99	2600
Peak Torque (Nm)	368	1600	333	1600
Peak Torque (lbf ft)	271	1600	245	1600

Power output for a run-in engine after 60 hours.
*Rating Standard ISO (TR) 14396

1000 Series 1004-4T



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
- Turbocharger
- 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

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	Turbocharged
Combustion system	Quadram direct injection
Compression ratio	16:1
Firing order	1.3.4.2
Rotation	Anti-clockwise, viewed on flywheel
Cooling	Liquid
Length	651.5 mm (25.65 in)
Width	612 mm (24.1 in)
Height	779.8 mm (30.7 in)
Dry weight	279 Kg

Overall dimensions and weight will depend on final specification

