

# 1100 Series

## 1104C-44T

## 1104C-E44T

### 60-74.5 kW/80-99.5 bhp

The 1100 Series engine family is the successor to the very successful New 1000 Series. It has been inspired by and led by the future requirements of our customers to meet the needs of the construction, materials handling, agricultural/turf and genset markets.

Built to the most demanding standards, the 1100 Series engines meet all the requirements of both EC Stage 2 and USA EPA Tier 2 off-highway emissions legislation for 2004 and brings significant improvements over the 1100 Series highly successful predecessors.

The 1104C-(E)44T is a quiet 4.4 litre unit delivering improved performance and reduced operating costs in an efficient package ideal for a range of off-highway applications.

In the 1100 Series, Perkins have designed to perform ... delivered with choice

#### Class leading performance

The 1104C-(E)44T provides an increase in torque capability over its highly successful predecessor. Improvements have also been made to the torque curve of the engine to give up to 8% more low speed torque on both mechanical and electronic options and torque back up to 32% on the mechanical option and 34% on the electronic option.

#### Cleaner and Quieter

The 1104C-(E)44T operates with smoke levels barely visible to the naked eye. The range includes the introduction of Eco-filtration for both fuel and oil that are of a high quality construction with a re-usable canister, a disposable inner element and a simpler service process. Improvements of up to 3dBA have also been made to bare engine noise over its predecessor. Concentrating on reduced noise levels throughout the complete operating range of the engine from idle through to full load rated speed. This has been achieved through numerous individual product developments, including a new cylinder block design and developments to the front end gear train.

#### Quality by design

Product design and manufacturing process improvements have been implemented from the concept to enhance both engine reliability and durability. Perkins have also taken the opportunity to improve the 'design for assembly' through simplified sub-assemblies and improved joint and sealing technologies.

#### Electronics

Having recognised the need for flexibility Perkins now offers full authority electronics as an option on the 1104C-(E)44T. This allows an easy introduction into the full spectrum of choice that is made available through the use of electronic control from basic engine to total machine integration including features such as cruise control, tailored throttle characteristics, engine history and machine protection.

#### Ease of installation

The changeover for existing New 1000 Series customers to EC Stage 2 and USA EPA Tier 2 product is made easy through the carryover of existing envelope size and mounting points therefore, minimising installation issues in machine redesign.

#### Lower operating costs

Service intervals are now set at 500 hours as standard and the warranty period has been extended to 2 years with 3 years on majors. In addition, fuel economy has improved by as much as 6%.

#### Product Support

Total worldwide service continues to be provided through a network of 4000 distributors and dealers. This is enhanced by the introduction of TIPSS (The Integrated Parts and Service System) which represents a step change in diesel engine support. TIPSS enables customers to electronically specify and order parts as well as service electronic and mechanical engine with on-line guides and service tools.

*designed to perform ... delivered with choice*

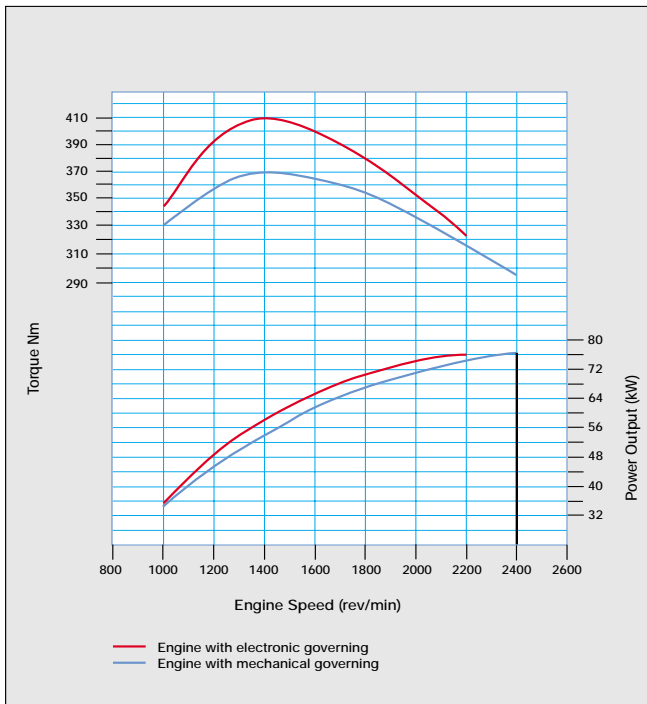
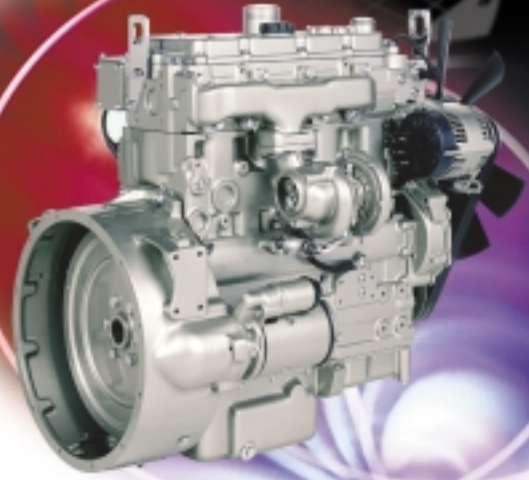
Performance Data	Gross Intermittent ISO/TR 14396	Speed rev/min
Power Output (kW)	74.5	2400
Power Output (bhp)	99.5	2400
Peak Torque (Nm)	372	1400
Peak Torque (lbf ft)	274	1400

Power output for a run-in engine after 60 hours.  
Photographs are for illustrative purposes and may not reflect final specification.

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Note: lower speed ratings cannot be read off this curve

### Engine Specification

- Cast iron engine block
- Flywheel and flywheel housing
- Ecoplus Oil and Fuel Filters
- Glow plug starting aid
- Integral Inlet manifold
- Cast iron exhaust manifold - centre side outlet
- Gear driven coolant pump
- 12 & 24 volt Alternator 55, 65, 85, 100Amp.
- Provision for PTOs
- Choice of cooling fans
- 12 & 24 volt Starter motor
- Plastic J2044 fuel system standard
- Choice of turbo outlet orientation
- Choice of lub oil sump
- Choice of dipstick positions (left or right)
- Choices of filler positions
- Choice of water outlet
- Balancer or non-balancer



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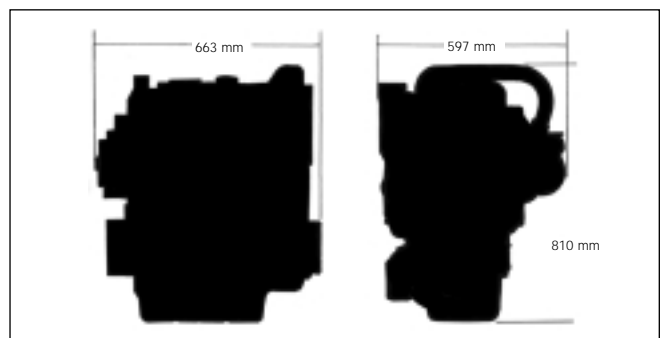
All information in this leaflet is substantially correct at the time of printing but may be changed subsequently by the Company

### Option Groups

A selection of optional items is available to enable the customer to prepare a specification precisely matched to customer needs. These involve alternative ratings, 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>	105 mm x 127 mm
<b>Number of cylinders</b>	In-line 4 cylinder
<b>Cubic capacity</b>	4.4 litres (269 cu.in.)
<b>Cycle</b>	4 stroke
<b>Aspiration</b>	Turbocharged
<b>Combustion system</b>	Direct injection
<b>Compression ratio</b>	19.3:1
<b>Engine rotation</b>	Anticlockwise viewed On Flywheel
<b>Governing</b>	All speed mechanical/full authority electronic
<b>Cooling system</b>	Pressurised water
<b>Length</b>	663 mm
<b>Width</b>	597 mm
<b>Height</b>	810 mm
<b>Dry weight</b>	305 kg



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