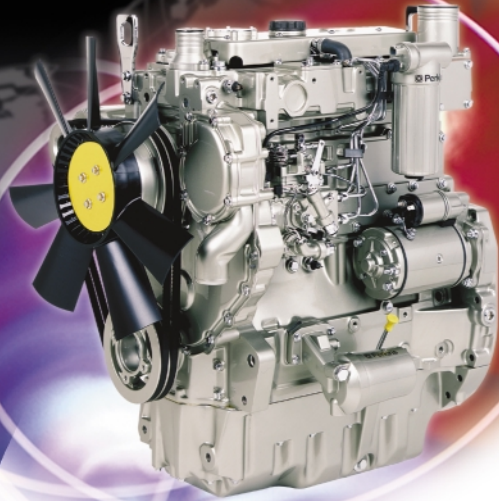




# 1100 Series 1104A-44T

**73.5-80.5 kW/98.5-108 bhp**



1104A is a 4 cylinder, 4.4 litre family of naturally aspirated and turbocharged engines. It provides a superior successor to the very popular 1004 and 4.41 products. Driven by the requirements of our customers, it has been tailored to meet the needs of the construction, materials handling, and agricultural non-emission legislated markets.

Designed and built to the most demanding standards, the 1104A brings with it significant improvements in all aspects of the engine's performance and operating characteristics.

The family is complemented by a range of power solutions known as 'Industrial Open Power Units' and 'ElectropaKs.'

The 1104A-44T is a 4.4 litre turbocharged engine that delivers improved performance and reduced operating costs, in a quiet and efficient package. It is ideal for a wide range of off-highway applications.

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

### Flexibility

- The 1100 Series provides a comprehensive platform of engines that enable OEM's to remain flexible, responsive and competitive
- The 1100 Series offers a choice of emissions and non-emissions compliant models with similar hook-up points. Similarity in envelope size, mounting points, fuel, electrical, gaseous and coolant connection points results in lower design and installation costs for the machine manufacturer

### Commonality

- Using this single platform concept, the 1104A has been aligned with its successful 1104C emissions-compliant cousin
- The use of many common components, reduces parts variety, inventory levels and servicing costs, benefits that can be passed on to the end customer and their servicing outlets

### Performance

- The 1100A engine family meets the demanding needs of markets with no emissions legislation for off-highway machines
- Significant improvements to power, torque and torque back-up

### Lower Operating Costs

- Improved cylinder bore finish and piston ring technology, combined with optimized cylinder head and block design have all contributed to significantly lowering fuel and oil consumption levels

### Quieter

- The new and improved timing gear train, cylinder block design and use of noise deadening materials are just some of the features contributing to reduced bare engine noise across its operating range

### Cleaner

- Reduction in smoke and harmful gaseous emissions from an advanced combustion system design
- Latest gasket and sealing technology ensure a product far cleaner and friendlier to the environment

### Quality by Design

Perkins follows a rigorous and comprehensive New Product Introduction process to ensure product integrity. Design, testing and manufacturing process improvements have been adopted in the introduction of the new 1100A engine family. The result is a confidence in a product that is reliable and durable for non-emissions legislated markets

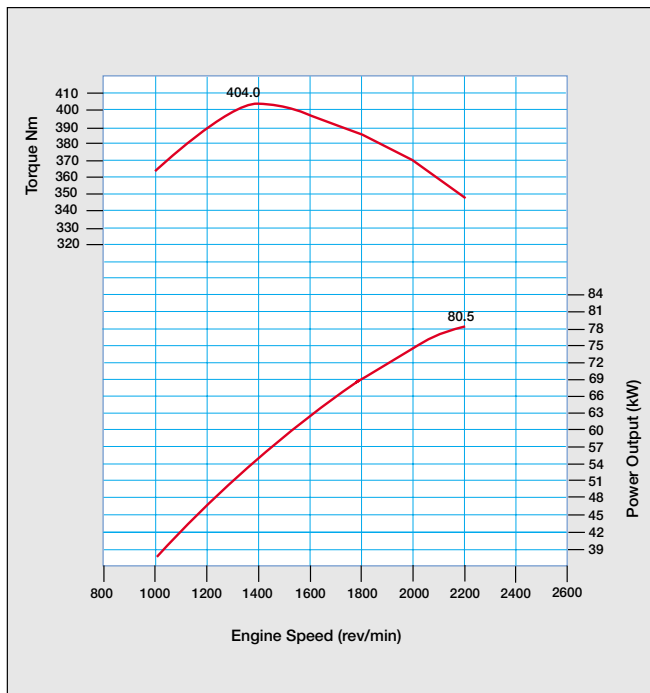
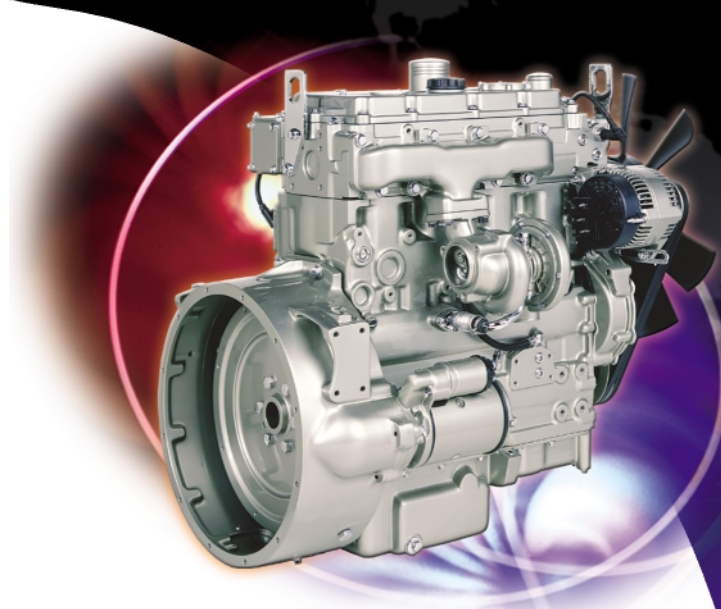
### Product Support

Total service is provided through a network of 4,000 Perkins distributors and dealers worldwide

***designed to perform ... delivered with choice***

Performance Data	Gross Intermittent ISO/TR 14396	Speed rev/min
Power Output (kW)	80.5	2200
Power Output (bhp)	108	2200
Peak Torque (Nm)	404	1400
Peak Torque (lbf ft)	298	1400

# 1100 Series 1104A-44T



## Engine Specification

- Cast iron engine block
- Flywheel and flywheel housing
- Glow plug start aid (optional)
- Integral inlet manifold
- Cast iron exhaust manifold
- Choice of turbocharger options
- Gear driven coolant pump
- 12V alternator
- Provision for PTOs
- Choice of cooling fans
- 12V starter motor
- Choice of lubricating oil sump
- Choice of dipstick positions
- Choices of oil filler positions
- Choice of water outlet positions
- Balanced and non-balanced versions



### Perkins Engines Company Limited

Peterborough PE1 5NA  
United Kingdom  
Telephone +44 (0)1733 583000  
Fax +44 (0)1733 582240  
[www.perkins.com](http://www.perkins.com)

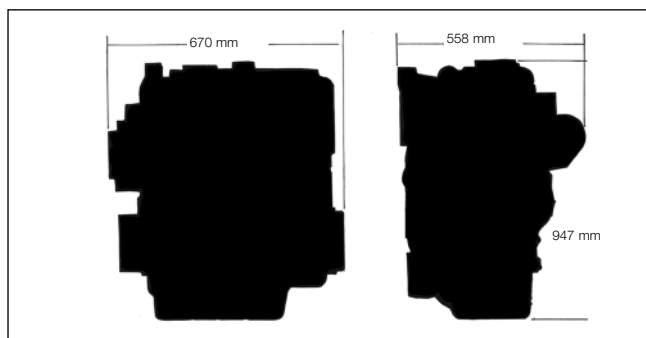
All information in this leaflet is substantially correct at the time of printing but may be changed subsequently by the Company

## Option Groups

A full range of additional options are available to enable a customer to specify an engine precisely to an application. These include alternative performance ratings, power take-offs, inlet and exhaust outlets positions, turbocharger positions, and a range of flywheels and flywheel housings to suit different clutches and transmissions.

## General Data

<b>Bore and stroke</b>	105 mm x 127 mm
<b>Number of cylinders</b>	In-line 4 cylinder (vertical in-line)
<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>	18.23:1
<b>Engine rotation</b>	Anticlockwise viewed on flywheel
<b>Cooling system</b>	Liquid / pressurised
<b>Length</b>	670 mm
<b>Width</b>	558 mm
<b>Height</b>	947 mm
<b>Dry weight</b>	372 kg



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