



# 1100 Series 1104C-44T

Diesel Engine - Industrial Open Power Unit

74.5 kW/100 bhp



## Class Leading Performance

 The 1104C-44T boasts an even higher torque capacity than its successful predecessor. An impressive low speed torque of over 400 Nm is available to deliver improved machine response.

#### Cleaner and Quieter

Extensive combustion research has resulted in an engine which operates with smoke levels barely visible to the naked eye. Perkins innovative Eco-filtration system provides high quality construction with a re-usable canister, a disposable inner element and a simpler service process. Developments in numerous individual components such as a new cylinder block design and alterations to the front end gear train have resulted in reduced noise levels throughout the engine's complete operating range. An improvement of up to 3dBA in bare engine noise over its predecessor.

# The new 1100 Series family of IOPU engines boasts unsurpassed productivity levels.

By combining the market leading 1100 Series engine with a matched cooling and air filtration pocket, Perkins is confident that our engines will meet increasing customer demands. The new 1100 Series range provides customers with a compact and self-contained engine package, that optimises performance and maximises value.

Perkins has transformed the threat of new emission laws into the opportunity to develop an engine with improved performance and reliability. Not only does the 1104 comply to USA EPA Tier 2 and EU Stage 2 off-highway emissions legislation, it also exceeds customer expectations on performance. Perkins has consequently created a unique, customer inspired engine family which is undoubtedly a benchmark within the diesel engine market.

#### Quality by Design

Improvements to all aspects of engine production: from concept through to manufacturing, has resulted in a higher level of engine performance, enhanced reliability and greater durability. This combined with extensive investigation into manufacturing processes has simplified sub-assemblies and improved joint and sealing technology.

#### Ease of Installation

Design considerations to minimise installation issues provide easy and efficient engine replacement through the carryover of the existing envelope size and mounting points. The addition of a matched radiator to the IOPU engine package allows the engine to run at its optimum performance level.

#### **Lower Operating Costs**

Service intervals have doubled and are now set at 500 hours as standard. This confidence in engine reliability has also enabled the warranty period to be extended to 2 years with 3 years on majors. Customers will also benefit from increased fuel economy which has improved by as much as 6% over its predecessor.

## **Product Support**

Total worldwide service continues to be provided through a global network of 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 specify and order parts electronically, as well as service electronic or mechanical engines with the aid of on-line guides and service tools.

Engine Performance	Net Intermittent	Engine Speed	Net Continuous	Engine Speed
Max power kW	74.5	2400	67	2400
Max power bhp	100	2400	90	2400
Max torque Nm	412	1400	371	1400
Max torque lbf ft	304	1400	274	1400

# 1100 Series 1104C-44T IOPU

# **Engine Specification**

- Cast iron engine block
- Flywheel housing SAE3
- Flywheel
- Ecoplus fuel filter
- Spin-on oil filter
- Glow plug starting aid
- 12 or 24 volt alternator
- 12 or 24 volt starter motor
- LHS PTOs 142 Nm
- Puller or pusher fans
- Radiator
- Lub oil sump steel, flat-bottomed with dipstick on lhs
- Balancer or non-balancer
- Integral Inlet manifold
- Gear driven coolant pump
- Oil filler middle of top cover

#### General Data

Bore and stroke 105 mm x 127 mm

Number of cylinders 4 In-line

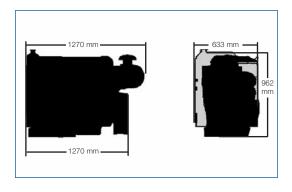
Cubic capacity 4.41 litres (269 cu.in) Cycle 4 stroke

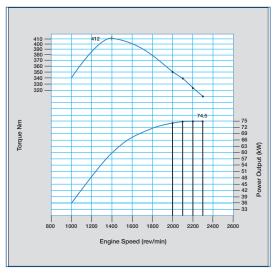
Aspiration Turbocharged
Combustion system Direct injection
Compression ratio 18.25:1

Engine rotation Anticlockwise viewed on flywheel

Governing All speed mechanical Cooling system Pressurised coolant

Length1270 mmWidth633 mmHeight962 mmDry weightTBA kg





Lower speed ratings may not be read from this curve. For other ratings consult Perkins Engines Company

## **Option Groups**

In order to meet the varying demands of our individual customers, Perkins provide a wide selection of optional items. These enable companies to produce a customised end product, precisely matched to their needs.



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